CITY OF SAN LEANDRO
STATE OF CALIFORNIA

CONTRACT BOOK

Notice to Bidders
Proposal
Agreement
Special Provisions

FOR

BART – DOWNTOWN PEDESTRIAN INTERFACE

FOR USE WITH:

THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, THE 2006 EDITION AND 2008 SUPPLEMENT THERETO, AMERICAN PUBLIC WORKS ASSOCIATION, SOUTHERN CALIFORNIA CHAPTER; AND SECTIONS 84, 85, AND 86 OF THE MAY 2010 EDITION OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS; THE 2012 CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD); THE STATE DEPARTMENT OF INDUSTRIAL RELATIONS GENERAL PREVAILING WAGE RATES; AND THE STATE DEPARTMENT OF TRANSPORTATION LABOR SURCHARGE AND EQUIPMENT RENTAL RATES.

PROJECT NO. 11-150-38-331

FEDERAL AID PROJECT: CML-5041(036)

BID NO. 12-13.003

Engineering and Transportation Department
835 East 14th Street
San Leandro, CA 94577

Telephone: (510) 577-3428
Fax: (510) 577-3294

PROJECT ENGINEER: **MARK GORALKA, P.E.**

Kenneth Joseph, P.E., City Engineer
R.C.E. 34870 Expires 9/30/13

REGISTERED PROFESSIONAL ENGINEER
KENNETH C. JOSEPH
No. 34870
Exp. 9.30.12
CIVIL
STATE OF CALIFORNIA

BID OPENING:

3:00 PM TUESDAY, OCTOBER 16, 2012

PROJECT TITLE: BART-DOWNTOWN PEDESTRIAN INTERFACE

COSL PROEJCT NUMBER: 11-150-38-331
FEDERAL PROJECT NO. CML-5041(036)

The Drawings and Specifications for the above project have been prepared by or under the direction of the following registered professionals:

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
Signature
Renewal Date
11/26/12
Date
STATE OF CALIFORNIA

Leslie B. Golden, Registered Landscape Architect
Golden Associates

REGISTERED PROFESSIONAL ENGINEER
CHRIS D. KINZEL
No. 15347
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

Chris Kinzel, Registered Civil Engineer
TJKM Transportation Consultants, Inc.

REGISTERED PROFESSIONAL ENGINEER
Ronald D. Zeiger
NO. E7218
EXP. 9/30/12
Electrical
STATE OF CALIFORNIA

Ron Zeiger, Registered Electrical Engineer
Zeiger Engineers, Inc.

REGISTERED PROFESSIONAL ENGINEER
KENNETH C. JOSEPH
No. 34870
Exp. 9.30.12
CIVIL
STATE OF CALIFORNIA

Kenneth Joseph, Registered Civil Engineer
City of San Leandro

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A BART ENCROACHMENT PERMIT

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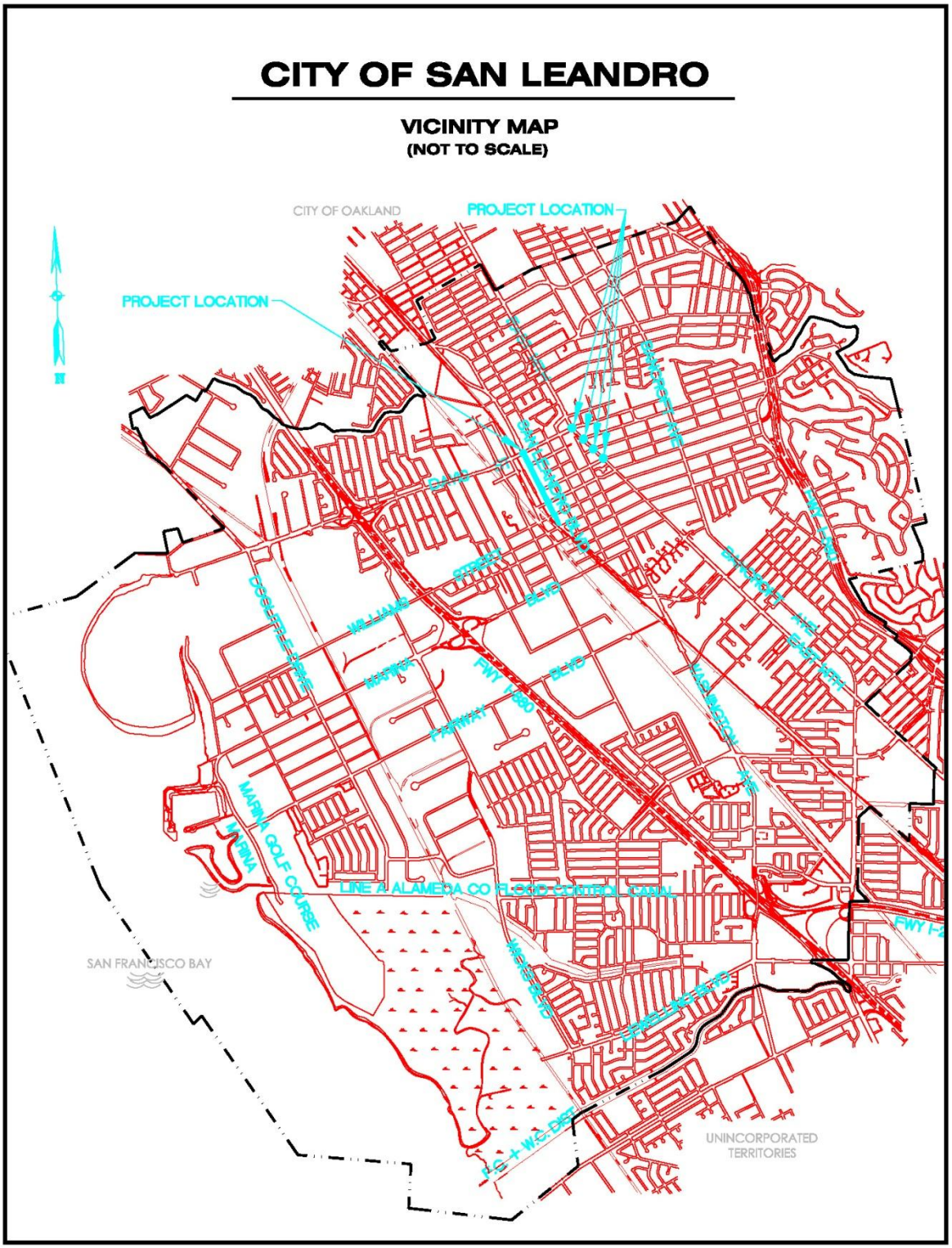
PROJECT LOCATION MAP



CITY OF SAN LEANDRO
STATE OF CALIFORNIA

ENGINEERING AND TRANSPORTATION DEPARTMENT

NOTICE TO BIDDERS

FOR

BART – DOWNTOWN PEDESTRIAN INTERFACE
PROJECT NO. 11-150-38-331

1. BID OPENING: The bidder shall complete the "Proposal to the City of San Leandro" form contained in the Contract Book. The proposal shall be submitted in its entirety. Incomplete proposals will be considered non-responsive. Sealed bids containing the completed Proposal Section subject to the conditions named herein and in the specifications for **BART-Downtown Pedestrian Interface, Project No. 11-150-38-331** addressed to the **City of San Leandro** will be received at **City Hall, 835 East 14th Street, 2nd Floor San Leandro** at the office of the **City Clerk up to 3:00 p.m. on Tuesday, October 16, 2012** at which time they will be publicly opened and read.

2. BID RESULTS: A summary of the bids received will be made available, via the Internet, at:
http://www.sanleandro.org/depts/finance/purchasing/bids/default.asp

3. WORK DESCRIPTION: The work to be done consists of **pedestrian streetscape improvements, including: new sidewalks with bulbouts, street rehabilitation with asphalt concrete overlay and added storm drainage inlets, ornamental street lighting, revised traffic signal system, landscape planting with irrigation, decorative wayfinding signage, ornamental concrete elements,** and doing all appurtenant work in place and ready for use, all as shown on the plans and described in the specifications with the title indicated in Paragraph 1 above, and on file in the office of the **Engineer.** Reference to said plans and specifications is hereby made for further particulars.

4. This project has a goal of **10%** percent disadvantaged business enterprise (DBE) participation. Information to be submitted no later than five (5) days from bid opening.

5. The City of San Leandro hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises (DBE) will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

6. **THIS PROJECT IS SUBJECT TO THE "BUY AMERICA" PROVISIONS OF THE SURFACE TRANSPORTATION ASSISTANCE ACT OF 1982 AS AMENDED BY THE INTERMODAL SURFACE TRANSPORTATION EFFICIENCY ACT OF 1991**.

7. CONTRACTOR'S LICENSE: A Class **"A"** Contractor's License is required for this work. No contract will be entered into with a contractor who has not been licensed in accordance with Chapter 9 Division 3 of the Business and Professional Code.

8. BID DEPOSIT: A Bid Deposit equal to at least 10% of the total amount of the bid shall be placed in the sealed proposal. The Bid Deposit shall be in one of the following forms: cash, cashier's check or certified check payable to the City, or bidder's bond in favor of the City executed by an authorized surety company.

9. PAYMENT AND PERFORMANCE BONDS: Payment and performance guarantee bonds as set forth in Section 2-4 of the Special Provisions will be required from the successful bidder.

10. CITY'S RIGHT TO REJECT BIDS: The right is reserved, as the interest of the City may require, to reject any or all bids, or to waive any informality or minor irregularity in the bids.

11. GENERAL PREVAILING WAGE RATES: The City Council has ascertained the general prevailing rate of wages applicable to the work to be done. A tabulation of the various classifications of work persons to be employed and the prevailing rate of wages applicable thereto is on file in the **City Clerk's** office. Bidder's attention is directed to Section 7-2.2.2 of the Special Provisions.

12. FEDERAL MINIMUM WAGE RATES. Attention is directed to the Federal Minimum Wages included in these Special Provisions. If there is a difference between the minimum wage rates predetermined by the Secretary of Labor and the general prevailing wage rates determined by the Director of the California Department of Industrial Relations for similar classifications of labor, the Contractor and subcontractors shall pay not less than the higher wage rate. The Department will not accept lower State wage rates not specifically included in the Federal minimum wage determinations. This includes "helper" (or other classifications based on hours of experience) or any other classification not appearing in the Federal wage determinations. Where Federal wage determinations do not contain the State wage rate determination otherwise available for use by the Contractor and subcontractors, the Contractor and subcontractors shall pay not less than the Federal minimum wage rate which most closely approximates the duties of the employees in question.

13. **OBTAINING THE PROJECT PLANS AND CONTRACT BOOK**: The Project Plans and Contract Book may be obtained free of charge from the City's website at http://www.sanleandro.org/depts/finance/purchasing/bids. Bidders are highly encouraged to contact the City of San Leandro Engineering and Transportation Department at 510-577-3428 to be placed on the project planholder's list to receive courtesy notifications of addenda and other project information. Project addenda, if any, will be posted on the website. A bidder who fails to address all project addenda with their proposal may be deemed non-responsive.

    Bidders may also purchase Project Plans and Contract Book at the **Kiosk Counter** of the Community Development Department, City Hall, 835 East 14th Street, 1st Floor, San Leandro, **(510) 577-3423,** upon payment of a non-refundable fee of **$85.00 (payable by exact cash or check only)** for each set.

14. OBTAINING THE APWA STANDARD SPECIFICATIONS (GREEN BOOK): The APWA Standard Specifications (Greenbook) may be purchased by contacting BNI Building News, 1612 South Clementine Street, Anaheim, CA 92802, (714) 517-0970 or (888) 264-2665.

15. WITHDRAWAL OF PROPOSALS: Any bid may be withdrawn at any time prior to the time fixed in the public notice for the opening of bids only by written request for the withdrawal of the bid filed with the **City Clerk.** The request shall be executed by the bidder or its duly authorized representative. The withdrawal of a bid does not prejudice the right of the bidder to file a new bid. Whether or not bids are opened exactly at the time fixed in the public notice for opening bids, a bid will not be received after that time nor may any bid be withdrawn after the time fixed in the public notice for opening of bids.

16. RELIEF OF BIDDERS: As stated in Public Contract Code Sections 5100 to 5108, inclusive concerning relief of bidders and in particular to the requirement therein, that if the bidder claims a mistake was made in the bid presented, the bidder shall give the **City Clerk,** written notice within five (5) days after the opening of the bids of the alleged mistake, specifying in the notice in detail how the mistake occurred.

17. DISQUALIFICATION OF BIDDERS: More than one proposal from an individual, firm, partnership, corporation, or combination thereof under the same or different names will not be considered. Reasonable grounds for believing that any individual, firm, partnership, corporation, or combination thereof is interested in more than one proposal for the work contemplated may cause the rejection of all proposals in which such individual, firm, partnership, corporation, or combination thereof is interested. If there is reason for believing that collusion exists among the bidders, any or all proposals may be rejected. Proposals in which the prices obviously are unbalanced may be rejected.

18. PREVIOUS DISQUALIFICATION, REMOVAL, OR OTHER PREVENTION OF BIDDING: A bid may be rejected on the basis of a bidder, any officer of such bidder, or any employee of such bidder who has a proprietary interest in such bidder, having been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local project because of a violation of any law or any safety regulation.

19. RESPONSIBILITY FOR VERIFYING CONTRACT ADDENDA: All bidders shall verify if any addenda for this project have been issued by the City of San Leandro. It is the bidders' responsibility to ensure that all requirements of contract addenda are included in the bidder's proposal. All bidders shall include a signed copy of all contract addenda with the proposal. Failure to comply with this requirement shall cause the proposal to be considered as non-responsive and shall be grounds for rejection of the bid.

20. SITE INVESTIGATION: The bidder shall examine carefully the site of the work to verify all existing conditions. The submission of a bid shall be conclusive evidence that the bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of work to be performed, as to the quantities of materials to be furnished, and as to the requirements of the proposal, plans, specifications, and the contract. The bidder shall not take advantage of any apparent error or omission in the plans or specifications. In the event the bidder discovers any apparent error, discrepancy, or omission as a result of its site investigation, bidder shall immediately notify the City.

21. PRE-BID CONFERENCE: A pre-bid conference will be held on **Tuesday, September 25th, at 10:00 am in the Sister Cities Gallery at City Hall, First Floor, 835 East 14th Street, San Leandro, CA.** This meeting is to inform bidders of project requirements and subcontractors of subcontracting and material supply opportunities. A bidder who fails to attend a pre-bid conference will be held responsible for any information that could have been reasonably deduced from said attendance. Attendance is strongly encouraged.

    Questions regarding the plans and specifications may be submitted in writing to the project engineer until 5:00 p.m., five (5) calendar days before bids are due. The City will not respond to oral questions outside of the pre-bid conference. The response, if any, will be by written addendum only. Oral responses do not constitute a revision to these plans or specifications.

22. ENGINEER'S ESTIMATE: The Engineer's Estimate of construction for this project is between $5,000,000 and $15,000,000.

23. PUBLIC CONTRACT CODE SECTION 22300: Pursuant to Public Contract Code Section 22300, for monies earned by the Contractor and withheld by the City to ensure the performance of the Contract, the Contractor, may, at its option, choose to substitute securities meeting the requirements of said Public Contract Code Section 22300.

24. CALIFORNIA LABOR CODE SECTION 6707: Pursuant to the provisions of California Labor Code Section 6707, each bid submitted in response to this Notice to Bidders shall contain, as a bid item, adequate sheeting, shoring, and bracing, or equivalent method, for the protection of life and

limb in trenches and open excavation, which shall conform to applicable safety orders. By listing this sum, the bidder warrants that its action does not convey tort liability to the City or City employees, engineers, agents, or subconsultants.

25. CALIFORNIA LABOR CODE SECTION 6707: Pursuant to the provisions of California Labor Code Section 6707, each bid submitted in response to this Notice to Bidders shall contain, as a bid item, adequate sheeting, shoring, and bracing, or equivalent method, for the protection of life and limb in trenches and open excavation, which shall conform to applicable safety orders. By listing this sum, the bidder warrants that its action does not convey tort liability to the City or City employees, engineers, agents, or subconsultants.

26. PUBLIC CONTRACT CODE SECTION 2.7: For proposals in the amount of one million dollars ($1,000,000.00) or more, bidders are required to certify that the bidder's company, any parent entities, subsidiaries, successors or subunits of the bidder's company and the signator of the proposal, personally, are not identified on a list created pursuant to subdivision (b) of Section 2203 of the California Public Contract Code as a person engaging in investment activities in Iran as described in subdivision (a) of Section 2202.5, or as a person described in subdivision (b) of Section 2202.5 of the California Public Contract Code, as applicable.

27. BID PROTEST PROCEDURES: Any protest of the proposed award of bid to the bidder deemed the lowest responsible bidder must be submitted in writing to the City no later than 5:00 p.m. on the third (3rd) business day following the date of the bid opening.

    The initial protest must contain a complete statement of the basis for the protest.

    The protest must state the facts and refer to the specific portion of the document or the specific statute that forms the basis for the protest. The protest must include the name, address, and telephone number of the person representing the protesting party.

    The party filing the protest must concurrently transmit a copy of the initial protest to the bidder deemed the lowest responsible bidder.

    The party filing the protest must have actually submitted a bid on the project. A subcontractor of a party filing a bid on this project may not submit a Bid Protest. A party may not rely on the Bid Protest submitted by another bidder, but must timely pursue its own protest.

    The procedure and time limits set forth in this Section are mandatory and are the bidder's sole and exclusive remedy in the event of a Bid Protest. The bidder's failure to fully comply with these procedures shall constitute a waiver of any right to further pursue the Bid Protest, including filing of a challenge of the award pursuant to the California Public Contracts Code, filing of a claim pursuant to the California Government Code, or filing of any other legal proceedings.

    The City shall review all timely protests prior to formal award of the bid. The City shall not be required to hold an administrative hearing to consider a timely protest, but may do so at the option of the Engineer, or if otherwise legally required. At the time of the City Council's consideration of the award of the bid, the City Council shall also consider the merits of any timely protests and the Engineer's recommendation thereon. The City Council may either accept the protest and award the bid to the next lowest responsible bidder, or reject the protest and award to the lowest responsible bidder. Nothing in this section shall be construed as a waiver of the City Council's right to reject all bids.

    The City reserves the right to waive any bid irregularities not affecting the amount of the bid, except where such waiver would give the low bidder an advantage or benefit not allowed other bidders.

Dated: _____ Marian Handa

City Clerk

PROPOSAL FORM TO THE CITY OF SAN LEANDRO

Proposal Requirements

1. All bidders shall complete the "Proposal to the City of San Leandro" form contained in this Contract Book. The form consist of the following parts;

   Proposal To The City Of San Leandro

   Contract Price Schedule

   List Of Subcontractors

   Addenda Acknowledgment And Information

   Principal Persons With Interest In Proposal

   Experience And Financial Responsibility

   Eligibility Contract Statement

   Bidder Questionnaire

   National Labor Relations Board Statement

   Non-Collusion Affidavit

   Debarment And Suspension Certification

   Business License Application

   Bid Bond

   Public Contract Code Chapter 2.7 Iran Contracting Act of 2010

   This completed proposal form shall be submitted in its entirety, presented under sealed cover, shall be accompanied by a bidder's bond executed by an admitted surety insurer, naming the City of San Leandro as beneficiary.

2. The form of Bidder's Bond to be used in included with the proposal form. The bidder's bond shall be at least 10% of the bid amount. As an alternative to the Bidder's Bond, cash, cashier's check, or certified check payable to the City and in an amount equal to at least 10% of the bid amount may be used.

3. A statement of Experience and Financial Responsibility shall accompany the proposal. A form for this statement can be found as part of the Proposal to the City of San Leandro, which follows these proposal requirements.

4. If bidder is:

A. An individual doing business in his or her own name; sign name only.

B. An individual using a firm name; sign name as an individual D.B.A. (doing business as). For example: "John Doe, an individual doing business as XYZ Company".

C. A co-partnership; sign name with title as in this example: "XYZ Co., by John Doe, Copartner." Also, provide the names of individuals.

D. A corporation; sign name with title as in this example: "XYZ Co., by John Doe, President". Also, state legal name of corporation, names of the president, secretary, treasurer, and manager of the corporation. Affix seal of corporation.

4. The business address of the bidder must be filled in completely on the proposal, giving the address of the firm in the case of a partnership or a corporation, not the address of the partner or official signing this proposal.

5. The spaces provided on the proposal for State of California Contractor's License Number and classification must be filled in completely.

6. To assure recognition, write the words "Proposal, etc." plainly on the envelope.

7. The bidder must provide evidence of a current City of San Leandro Business License or a copy of the application for such as part of this proposal.

PROPOSAL FORM

PROPOSALS MUST BE SUBMITTED ON THE ORIGINAL FORMS (BLUE SHEETS) SUPPLIED WITH THE CONTRACT BOOK. COPIES OF THIS DOCUMENT ARE NOT ACCEPTABLE.

PROPOSAL TO THE CITY OF SAN LEANDRO

CITY OF SAN LEANDRO
STATE OF CALIFORNIA

FOR

BART – DOWNTOWN PEDESTRIAN INTERFACE

PROJECT NO. 11-150-38-331

PROPOSAL FORM

NAME OF BIDDER: _____

BUSINESS ADDRESS: _____

CITY, STATE, ZIP: _____

LICENSE NO.: _____ CLASS: _____ EXP. DATE: _____

TELEPHONE NO.: ( ) _____ FAX NO.: ( ) _____

The work for which this proposal is submitted is for construction in accordance with the Contract Documents, including the Special Provisions of the Agreement, the project plans described below, and the Standard Specifications for Public Works Construction, the most current edition and all supplements thereto, adopted by the American Public Works Association, Southern California Chapter, and Sections 84, 85, & 86 of the most current edition of the California Department of Transportation (CALTRANS) Standard Specifications. The Contract Book shall be used in conjunction with the above documents, and the State of California Department of Transportation Labor Surcharge and Equipment Rental Rates, and the State Department of Industrial Relations General Prevailing Wage Rates current at the bid opening date.

The project plans for the work to be done are entitled "**BART-DOWNTOWN PEDESTRIAN INTERFACE,**" consisting of eighty (80) sheets. Plans were approved by the **City Council on September 4, 2012.**

The work to be done consists of **pedestrian streetscape improvements, including: new sidewalks with bulbouts, street rehabilitation with asphalt concrete overlay and added storm drainage inlets, ornamental street lighting, revised traffic signal system, landscape planting with irrigation, decorative wayfinding signage, ornamental concrete elements,** and doing all appurtenant work in place and ready for use, all as shown on the plans and described in the specifications with the title indicated in the above paragraph, and on file in the office of the Engineer**.** Reference to said plans and specifications is hereby made for further particulars.

A bidder's security, in an amount and of a form described under Paragraph 1 of the Proposal Requirements section of these provisions shall accompany this proposal.

The attention of all bidders is directed to Sections 2-1 of the Special Provisions for the basis of award.

The bidder shall set forth for each item of work a unit price and a total price for the item, and for each lump sum item a total for the item, all in clearly legible figures in the respective spaces provided for this purpose. In the case of unit basis items, the amount set forth under the "Total Price" column shall be the extension of the item price bid on the basis of the estimated quantity for the item.

In case of conflict between an item price in words and the price in figures, the price in words shall prevail. In case of discrepancy between an item price and the total set forth for a unit basis item, the item price shall prevail. However, if the amount set forth as an item price is ambiguous, illegible, or uncertain for any cause, or is omitted, or is the same amount as the entry in the "Total Price" column, then the amount set forth in the "Total Price" column for the item shall prevail and shall be divided by the estimated quantity for the item and the price thus obtained shall be the item price. "Total Bid" shall be the total sum of the "Total Price" column as corrected.

The successful bidder must submit a signed agreement, all required bonds, and proof of insurance within 12 working days after the bidder has received notice from the City that the contract has been awarded. If the successful bidder fails to do so, the City may, at its option, determine that the bidder has abandoned the contract, and the bidder's bid security will be forfeit. The City may then award the contract to the next qualified bidder.

The undersigned, as bidder, declares as follows:

1. The only persons or parties interested in this proposal as principals are those named herein;
2. This proposal is made without collusion with any other person, firm or corporation;
3. We have carefully examined the location of the proposed work, the annexed proposed form of contract, and the plans therein referred to; and
4. We propose and agree, if this Proposal is accepted, that we will contract with the City of San Leandro in the form of the copy of the contract annexed hereto;
5. We will provide all necessary machinery, tools, apparatus and other means of construction;
6. We will do all the work and furnish all the materials specified in the contract, in the manner and time therein prescribed, and according to the requirements of the Engineer as therein set forth; and
7. This bid is sufficient to allow us to comply with all applicable local, state, and federal laws or regulations governing the labor or services to be provided; and
8. We will take in full payment therefore in the amounts shown on the following Contract Price Schedule, as follows:

Proposal Form

CONTRACT PRICE SCHEDULE (PAGE 1 OF 3)

Item No.	Description	Estimated Quantity (A)	Unit of Measure	Item UNIT Price (in Words)	Item UNIT Price (in Figures) (B)	TOTAL PRICE (in Figures) (AxB)
1.	Mobilization and General Conditions	1	LS	_____ _____		
2	Labor Compliance Monitoring	10	MO	_____ _____		
3.	Clearing and Grubbing	1	LS	_____ _____		
4.	Sheeting, Shoring, and Bracing	1	LS	_____ _____		
5.	Storm Drainage System	1	LS	_____ _____		
6.	Sanitary Sewer System	1	LS	_____ _____		
7.	Mill Asphalt Concrete and Off Haul	4,600	TON	_____ _____		
8.	AC Overlay	4,600	TON	_____ _____		
9.	AC Dig Out Removal and Repaving	800	TON	_____ _____		
10.	Pavement Fabric	19,627	SY	_____ _____		
11.	Pavement striping and markings	1	LS	_____ _____		
12.	Decorative Crosswalk Imprinting	13841	SF	_____ _____		
13.	Concrete Work	1	LS	_____ _____		

PROPOSAL FORM

CONTRACT PRICE SCHEDULE (PAGE 2 OF 3)

Item No.	Description	Estimated Quantity (A)	Unit of Measure	Item UNIT Price (in Words)	Item UNIT Price (in Figures) (B)	TOTAL PRICE (in Figures) (AxB)
14.	East 14th Street Ramp Installations	1	LS	_____ _____		
15.	Streetlight System	1	LS	_____ _____		
16.	Traffic Signal System	1	LS	_____ _____		
17.	Street Signs	1	LS	_____ _____		
18.	Ornamental Furnishings and Sitework	1	LS	_____ _____		
19.	Landscape Planting	1	LS	_____ _____		
20.	Irrigation system	1	LS	_____ _____		
21.	Plant Establishment / Maintenance	12	MO	_____ _____		
22.	Palm Tree Extended Maintenance	24	MO	_____ _____		
23.	Adjust Telecommunication Sidewalk Box	7	EA	_____ _____		
24.	Adjust EBMUD Sidewalk Box	4	EA	_____ _____		
25.	Adjust PG&E Sidewalk Box	9	EA	_____ _____		

PROPOSAL FORM

CONTRACT PRICE SCHEDULE (PAGE 3 OF 3)

Item No.	Description	Estimated Quantity (A)	Unit of Measure	Item UNIT Price (in Words)	Item UNIT Price (in Figures) (B)	TOTAL PRICE (in Figures) (AxB)
26.	Adjust EMBUD Street Valve Pots	12	EA	_____ _____		
27.	Adjust PG&E Street Valve Pots	1	EA	_____ _____		
28.	Adjust City Survey Monument	4	EA	_____ _____		
28.	City Survey Monument Reconstruction	4	EA	_____ _____		

TOTAL BID: _____
(In Words)

TOTAL BID: _____
(In Figures)

PROPOSAL FORM

UNITS OF MEASURE:

Abbreviation	Word or Words
LF	Linear Feet
SF	Square Feet
SY	Square Yards
CY	Cubic Yards
TN	Tons (2,000 lbs./907.2 kgs.)
LS	Lump Sum
EA	Each
MO	Months

NOTE: The estimate of construction quantities set forth herein is approximate only, being given as a basis for the comparison of bids. The City does not expressly nor by implication agree that the actual amount of work will correspond therewith, and reserves the right to change the amount of any class or portion of the work or to omit portions of the work as may be deemed necessary or expedient by the Engineer in accordance with section 3-2.1.1 of the Special Provisions. All bids will be compared on the basis of the Engineer's Estimate of the quantities of the work to be done. The undersigned declares, by signing this proposal, that the bidder has carefully checked all of the above figures and understands that the City shall not be responsible for any errors or omissions on the part of the undersigned in making up this bid.

PROPOSAL FORM

BIDDER'S LIST OF SUBCONTRACTORS (DBE and NON-DBE)- PART I

The bidder shall list all subcontractors (both DBE and non-DBE) in accordance with Section 2-1.054 of the Standard Specifications and per Title 49, Section 26.11 of the Code of Federal Regulations. This listing is required in addition to listing DBE Subcontractors elsewhere in the proposal. **Photocopy this form for additional firms.**

Firm Name/ Address/ City, State, ZIP	**Phone/ Fax**	**Annual Gross Receipts**	**Description of Portion of Work to be Performed**	**Local Agency Use Only (Certified DBE?)**
Name	*Phone*	☐ < $1 million		☐YES
		☐ < $5 million		☐NO
Address		☐ < $10 million		*If YES list DBE #:*
	Fax	☐ < $15 million		
City State ZIP		☐ > $15 million		Age of Firm (Yrs.)
Name	*Phone*	☐ < $1 million		☐YES
		☐ < $5 million		☐NO
Address		☐ < $10 million		*If YES list DBE #:*
	Fax	☐ < $15 million		
City State ZIP		☐ > $15 million		Age of Firm (Yrs.)
Name	*Phone*	☐ < $1 million		☐YES
		☐ < $5 million		☐NO
Address		☐ < $10 million		*If YES list DBE #:*
	Fax	☐ < $15 million		
City State ZIP		☐ > $15 million		Age of Firm (Yrs.)
Name	*Phone*	☐ < $1 million		☐YES
		☐ < $5 million		☐NO
Address		☐ < $10 million		*If YES list DBE #:*
	Fax	☐ < $15 million		
City State ZIP		☐ > $15 million		Age of Firm (Yrs.)

Distribution: 1) Original - Local Agency File

PROPOSAL FORM

BIDDER'S LIST OF SUBCONTRACTORS (DBE and NON-DBE)- PART II

The bidder shall list all subcontractors who provided a quote or bid but were not selected to participate as a subcontractor on this project. This is required for compliance with Title 49, Section 26 of the Code of Federal Regulations. Photocopy this form for additional firms.

Firm Name/ Address/ City, State, ZIP	**Phone/ Fax**	**Annual Gross Receipts**	**Description of Portion of Work to be Performed**	**Local Agency Use Only (Certified DBE?)**
Name	*Phone*	☐ < $1 million		☐YES
		☐ < $5 million		☐NO
Address		☐ < $10 million		*If YES list DBE #:*
	Fax	☐ < $15 million		
City State ZIP		☐ > $15 million		Age of Firm (Yrs.)
Name	*Phone*	☐ < $1 million		☐YES
		☐ < $5 million		☐NO
Address		☐ < $10 million		*If YES list DBE #:*
	Fax	☐ < $15 million		
City State ZIP		☐ > $15 million		Age of Firm (Yrs.)
Name	*Phone*	☐ < $1 million		☐YES
		☐ < $5 million		☐NO
Address		☐ < $10 million		*If YES list DBE #:*
	Fax	☐ < $15 million		
City State ZIP		☐ > $15 million		Age of Firm (Yrs.)
Name	*Phone*	☐ < $1 million		☐YES
		☐ < $5 million		☐NO
Address		☐ < $10 million		*If YES list DBE #:*
	Fax	☐ < $15 million		
City State ZIP		☐ > $15 million		Age of Firm (Yrs.)

Distribution: 1) Original - Local Agency File

PROPOSAL FORM

ADDENDA ACKNOWLEDGMENT AND INFORMATION

The undersigned acknowledges receipt of Addendum No. _____ through _____ inclusively. A signed copy of same is attached hereto and made part of this proposal.

PRINCIPAL PERSONS WITH INTEREST IN PROPOSAL

The names of all persons interested in the foregoing proposal as principals are as follows:

IMPORTANT NOTICE: If bidder or other interested person is a corporation, state legal name of corporation, also names of the president, secretary, treasurer, and manager thereof; if a co-partnership, state true name of firm and names of all individual co-partners composing firm; if bidder or other interested person is an individual, state first and last names in full.

_____

_____

_____

_____

EXPERIENCE AND FINANCIAL RESPONSIBILITY

The bidder has been engaged in the contracting business under State License No._____ for a period of _____ years.

The bidder's three most recently completed contracts are:

1. Title of Project _____

   Owner _____

   Address _____

   Telephone No. _____

   Engineer in Charge _____

   Date Accepted _____

PROPOSAL FORM

2. Title of Project _____

Owner _____

Address _____

Telephone No. _____

Engineer in Charge _____

Date Accepted _____

3. Title of Project _____

Owner _____

Address_____

Telephone No. _____

Engineer in Charge _____

Date Accepted _____

PROPOSAL FORM

Reference is hereby made to the following bank or banks as to the financial responsibility of the bidder:

Name of Bank:	**Address:**
_____	_____
_____	_____

Reference is hereby made to the following surety companies as to the financial responsibility and general reliability of the bidder:

Company: _____

Address: _____

Company: _____

Address: _____

ELIGIBILITY TO CONTRACT STATEMENT

The bidder hereby declares under penalty of perjury under the laws of the State of California that the bidder has____, has not ____ been convicted by a court of competent jurisdiction within the preceding three (3) years of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or federal antitrust law in connection with the bidding upon, award of, or performance of, any public works contract with any public entity, as defined in Public Contract Code Section 1100. The term "bidder" is understood to include any partner, member, officer, director, responsible managing officer, or responsible managing employee of the prime contractor or any subcontractor.

NOTE: The bidder must place a check mark after "has" or "has not" in one of the blank spaces provided. The above statement is part of the proposal. Signing this proposal on the signature portion thereof shall also constitute signature of this statement. Bidders are cautioned that making a false certification may subject the certified to criminal prosecution.

BIDDER QUESTIONNAIRE

The bidder shall complete, under penalty of perjury, the following questionnaire:

Has the bidder, any officer of the bidder, or any employee of the bidder who has a proprietary interest in the bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or safety regulation?

YES _____ **NO _____**

If the answer is yes, explain the circumstances in the following space:

_____

_____

NATIONAL LABOR RELATIONS BOARD STATEMENT

The Contractor hereby states under penalty of perjury that no more than one final unappealable finding of contempt of court by a federal court has been issued against the Contractor within the immediately preceding two year period because of the Contractor's failure to comply with an order of a federal court which orders the Contractor to comply with an order of the National Labor Relations Board.

PROPOSAL FORM

EQUAL EMPLOYMENT OPPORTUNITY CERTIFICATION

THE BIDDER'S EXECUTION ON THE SIGNATURE PORTION OF THIS PROPOSAL SHALL ALSO CONSTITUTE AN ENDORSEMENT AND EXECUTION OF THOSE CERTIFICATIONS WHICH ARE A PART OF THIS PROPOSAL

PROPOSAL FORM

The bidder_____, proposed subcontractor_____, hereby certifies that he has___, has not___, participated in a previous contract or subcontract subject to the equal opportunity clause, as required by Executive Orders 10925, 11114, or 11246, and that, where required, he has filed with the Joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements.

Note: The above certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor (41 CFR 60-1.7(b) (1), and must be submitted by bidders and proposed subcontractors only in connection with contracts and subcontracts which are subject to the equal opportunity clause. Contracts and subcontracts which are exempt from the equal opportunity clause are set forth in 41 CFR 60-1.5. (Generally only contracts or subcontracts of $10,000 or under are exempt).

Currently, Standard Form 100 (EEO-1) is the only report required by the Executive Orders or their implementing regulations.

Proposed prime contractors and subcontractors who have participated in a previous contract or subcontract subject to the Executive Orders and have not filed the required reports should note that 41 CFR 60-1.7 (b) (1) prevents the award of contracts and subcontracts unless such contractor submits a report covering the delinquent period or such other period specified by the Federal Highway Administration or by the Director, Office of Federal Contract Compliance, U.S. Department of Labor.

PUBLIC CONTRACT CODE SECTION 10285.1 STATEMENT

In accordance with Public Contract Code Section 10285.1 (Chapter 376, Stats. 1985), the bidder hereby declares under penalty of perjury under the laws of the State of California that the bidder has____, has not____been convicted within the preceding years of any offenses referred to in that section. These offenses include any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or federal antitrust law in connection with the bidding upon, award of, or performance of, any public works contract, as defined in Public Contract Code Section 1101, with any public entity, as defined in Public Contract Code Section 1100, including the Regents of the University of California or the Trustees of the California State University. The term "bidder" is understood to include any partner, member, officer, director, responsible managing officer, or responsible managing employee thereof, as referred to in Section 10285.1.

NOTE: The bidder must place a check mark after "has" or "has not" in one of the blank spaces provided. The above Statement is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Statement. Bidders are cautioned that making a false certification may subject the certified to criminal prosecution.

PUBLIC CONTRACT CODE SECTION 10162 QUESTIONNAIRE

In accordance with Public Contract Code Section 10162, the bidder shall complete, under penalty of perjury, the following questionnaire:

Has the bidder, any officer of the bidder, or any employee of the bidder who has a proprietary interest in the bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or safety regulation?

YES___ NO___

If the answer is yes, explain the circumstances in the following space:

_____

_____

PUBLIC CONTRACT CODE SECTION 10232 STATEMENT

In accordance with Public Contract Code Section 10232, the Contractor hereby states under penalty of perjury, that no more than one final unappealable finding of contempt of court by a federal court has been issued against the Contractor within the immediately preceding two year period because of the Contractor's failure to comply with an order of a federal court which orders the Contractor to comply with an order of the National Labor Relations Board.

Note: The above Statement and Questionnaire are part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Statement and Questionnaire. Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

PROPOSAL FORM

NON-COLLUSION AFFIDAVIT
TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

PUBLIC CONTRACT CODE SECTION 7106

STATE OF CALIFORNIA)
) ss.
COUNTY OF _____)

_____, being first duly sworn, deposes and says that he or she is _____ of _____ the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted its bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

NOTE: The above Statement, Questionnaire, and Non-collusion Affidavit are part of the proposal. Signing this proposal on the signature portion thereof shall also constitute signature of this Statement, Questionnaire, and Non-Collusion Affidavit. Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

PROPOSAL FORM

DEBARMENT AND SUSPENSION CERTIFICATION

The bidder, under penalty of perjury, certifies that, except as noted below, bidder or any person associated therewith in the capacity of owner, partner, director, officer, manager (please check if applicable):

[ ] Is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any local, state, or federal agency;

[ ] Has not been suspended, debarred, voluntarily excluded or determined ineligible by any local, state, or federal agency within the past 3 years;

[ ] Does not have a proposed debarment pending; and

[ ] Has not been indicted, convicted, or had a civil judgment rendered against bidder by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 3 years.

If there are any exceptions to this certification, insert the exceptions in the following space:

Exceptions will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any exception noted above, indicate below to whom it applies, initiating agency, and dates of action:

NOTE: Providing false information may result in criminal prosecution. The above certification is part of the proposal. Signing this proposal on the signature portion thereof shall also constitute signature of this certification.

PROPOSAL FORM

Iran Contracting Act of 2010

Public Contract Code Chapter 2.7

In the event that my bid or proposal is one million dollars ($1,000,000.00) or more, by my signature below I certify that this company, any parent entities, subsidiaries, successors or subunits of this company and I, personally, are not identified on a list created pursuant to subdivision (b) of Section 2203 of the California Public Contract Code as a person engaging in investment activities in Iran as described in subdivision (a) of Section 2202.5, or as a person described in subdivision (b) of Section 2202.5 of the California Public Contract Code, as applicable.

By my signature on this proposal I certify, under penalty of perjury under the laws of the State of California, that the foregoing questionnaire is true and correct. By my signature on this proposal, I further certify, under penalty of the perjury under the laws of the State of California, that the Non-Collusion Affidavit, and the Debarment and Suspension Certification are true and correct.

Date: _____ _____

(Typed or printed name)

_____

_____

Signature of Bidder

Business Address (Street Address, City, State & Zip Code):

_____

_____

Business Phone: ( ) _____ Fax No.: ( ) _____

PROPOSAL FORM

NON-LOBBYING CERTIFICATION
FOR FEDERAL-AID CONTRACTS

PROPOSAL FORM

The prospective participant certifies by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, ban, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any persona for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or any employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL "Disclosure of Lobbying Activities", in accordance with its instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made of entered into. Submission of this certification is a prerequisite of making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any persona who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts which exceed $100,000 and that all such subrecipients shall certify and disclose accordingly.

DISCLOSURE OF LOBBYING ACTIVITIES

Complete this form to disclose activities pursuant to 31 U.S.C. 1352

1. Type of Federal Action: • a. contract b. grant c. cooperative agreement d. loan e. loan guarantee f. loan insurance	2. Status of Federal Action: • a. bid/offer/application b. initial award c. post-award	3. Report Type: • a. initial b. material change For Material Change Only: year_____quarter_____ date of last report_____
4. Name and Address of Reporting Entity: • Prime • Subawardee, if known	5. If Reporting Entity in No. 4 is Subawardee: Congressional District, if known:	
6. Federal Department/Agency:	7. Federal Program Name/Description: CFDA Number, if applicable_____	
8. Federal Action Number, if known:	9. Award Amount, if known: $	
10. a. Name and Address of Lobbying Entity (if individual, last name, first name, MI):	b. Individuals Performing Services (including address if different from No. 10a) (if individual, last name, first name, MI):	
11. Amount of Payment (check all that apply): $_____ • Actual • Planned	13. Type of Payment (check all that apply): • a. retainer • b. one-time fee • c. commission • d. contingent fee • e. deferred • f. other, specify:_____	
12. Form of payment (check all that apply): • a. cash • b. in-kind; specify: Nature_____ Value_____		
14. Brief Description of Services Performed or to be performed and Date(s) of Service, including officer(s), employee(s), or member(s) contacted, for Payment indicated in Item 11: (attach Continuation Sheet(s) if necessary)		
15. Continuation Sheet(s) attached: • Yes • No		
16. Information requested through this form is authorized by Title 31 U.S.C. Section 1352. This disclosure of lobbying activities is a material representation of fact upon which reference was placed by the tier above when the transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.	Signature:_____ Print Name:_____ Title:_____ Telephone No._____Date:_____	
Federal Use Only:		Standard Form LLL Rev. 06-04-90

PROPOSAL FORM

INSTRUCTIONS FOR COMPLETION OF SF-LLL
DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of covered Federal action or a material change to previous filing pursuant to title 31 U.S.C. Section 1352. The filing of a form is required for such payment or agreement to make payment to lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress or a Member of Congress in connection with a covered Federal action. Attach a continuation sheet for additional information if the space on the form is inadequate. Complete all action. Attach a continuation sheet for additional information if the space on the form is inadequate. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence, the outcome of a covered Federal action.
2. Identify the status of the covered Federal action.
3. Identify the appropriate classification of this report. If this is a follow-up report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last, previously submitted report by this reporting entity for this covered Federal action.
4. Enter the full name, address, city, state and zip code of the reporting entity. Include Congressional District if know. Check the appropriate classification of the reporting entity that designates if it is or expects to be a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the first tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
5. If the organization filing the report in Item 4 checks "Subawardee" then enter the full name, address, city, state and zip code of the prime Federal recipient. Include Congressional District, if known.
6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organization level below agency name, if known. For example, Department of Transportation, Untied States Coast Guard.
7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans and loan commitments.
8. Enter the most appropriate Federal identifying number available for the Federal action identification in item 1 (e.g. Request for Proposal (RFP) number, Invitation for Bid (IFB) number, grant announcement number, the contract grant, or loan award number, the application/proposal control number assigned by the Federal agency). Include prefixes, e.g., "RFP-DE-90-001".
9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitments for the prime entity identified in item 4 or 5.
10. (a) Enter the full name, address, city, state and zip code of the lobbying entity engaged by the reporting entity identified in item 4 to influenced the covered Federal action.
    (b) Enter the full names of the individual(s) performing services and include full address if different from 10(a). Enter Last Name, First Name and Middle Initial (MI).
11. Enter the amount of compensation paid or reasonably expected to be paid by the reporting entity (item 4) to the lobbying entity (item 10). Indicate whether the payment has been made (actual) or will be made (planned). Check all boxes that apply. If this is a material change report, enter the cumulative amount of payment made or planned to be made.
12. Check the appropriate box(es). Check all boxes that apply. If payment is made through an in-kind contribution, specify the nature and value of the in-kind payment.
13. Check the appropriate box(es). Check all boxes that apply. If other, specify nature.

PROPOSAL FORM

14. Provide a specific and detailed description of the services that the lobbyist has performed or will be expected to perform and the date(s) of any services rendered. Include all preparatory and related activity not just time spent in actual contact with Federal officials. Identify the Federal officer(s) or employee(s) contacted or the officer(s) employee(s) or Member(s) of Congress that were contacted.
15. Check whether or not a continuation sheet(s) is attached.
16. The certifying official shall sign and date the form, print his/her name, title and telephone number.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including time for reviewing instruction, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management on Budget, Paperwork Reduction Project (0348-0046), Washington, D.C. 20503.

Accompanying this proposal is _____

(Notice: Insert the words "Cash($_____)", "Cashier's Check", "Certified Check", or "Bidder's Bond" as the case may be.)

in the amount equal to at least ten percent of the total of the bid.

By my signature on this Proposal I certify, under penalty of perjury under the laws of the State of California, that the foregoing questionnaire and statements of Public Contract Code Sections 10162, 10232 and 10285.1 are true and correct and that the bidder has complied with the requirements of Section 8103 of the Fair Employment and Housing Commission Regulations (Chapter 5, Title 2 of the California Administrative Code.) By my signature on this Proposal I further certify, under penalty of the perjury under the laws of the State of California, and the United States of America, that the Non-collusion Affidavit required by Title 23 United States Code, Section 112 and Public Contract Code Section 7106; and the Title 49 Code of Federal Regulations, Part 29 Debarment and Suspension Certification are true and correct.

Date: _____ _____

(Typed or printed name)

_____

_____

Signature of Bidder

Business Address (Street Address, City, State & Zip Code):

_____

_____

Business Phone: ( ) _____

CITY OF SAN LEANDRO BUSINESS LICENSE

In accordance with Title 2 Chapter 2 of the San Leandro Municipal Code, all contractors, including subcontractors, shall possess a current business license to perform work in San Leandro. As part of the proposal submittal, all bidders shall complete the following:

General Contractor (Bidder)

If the bidder holds a current City of San Leandro business license:

The bidder, under penalty of perjury, certifies that the bidder is in possession of a current City of San Leandro Business License.

Business Name (as shown in Business License): _____

Business License Number: _____

Or

The bidder shall submit a copy of the following attached Business License Application. If the bid is accepted, the bidder agrees to submit the original Business License Application to the Finance Department and pay all appropriate fees for the acquisition of a business license. Any questions regarding the business license application can be directed to the Finance Department at 510-577-3392 or 510-577-3468. Bidder will then submit a copy of the Business License with the executed contract documents. Failure of the successful bidder to acquire a City of San Leandro Business License within 12 working days of receiving a Notice of Award shall constitute a failure to execute the contract and the City may award the contract to a subsequent bidder in accordance with Section 2-1 of these specifications.

Subcontractor Business License

Prior to processing any progress payments, the bidder shall submit a copy of a current City of San Leandro Business License for each listed subcontractor.

END OF PROPOSAL

PROPOSAL FORM

CITY OF SAN LEANDRO
BUSINESS LICENSE APPLICATION
(PLEASE TYPE OR PRINT WITH PEN)

FINANCE DEPARTMENT
835 EAST 14TH STREET
SAN LEANDRO, CA 94577
(510) 577-3392 or (510) 577-3468

1. **BUSINESS NAME**_____ **TELEPHONE (_____)**_____
   BUSINESS LOCATION_____
   CITY_____ **STATE**_____ **ZIP**_____
   MAILING ADDRESS IF DIFFERENT THAN BUSINESS LOCATION:
   NAME_____
   ADDRESS_____
   CITY_____ **STATE**_____ **ZIP**_____
2. **DESCRIPTION OF BUSINESS ACTIVITY**_____
   _____
3. **OWNERSHIP INFORMATION (CHECK APPLICABLE BOXES)**

☐ **INDIVIDUAL** ☐ **PARTNERSHIP**
Social Security No. _____ – _____ – _____
Social Security No._____ – _____ – _____
☐ **CORPORATION**
FEDERAL IDENTIFICATION NO. _____
STATE IDENTIFICATION NO. _____

HAVE YOU FILED A FICTITIOUS BUSINESS NAME STATEMENT?
☐ **Yes** ☐ **No**
STATE CONTRACTOR'S LICENSE NO. _____
STATE SALES TAX NO._____
NO. OF EMPLOYEES_____
_____

LIST FULL NAMES OF ALL OWNERS IF PARTNERSHIP-LIST ALL PARTNERS IF CORPORATION-LIST ALL PRINCIPAL OFFICERS	TITLE OR POSITION	PERSONAL ADDRESS AND TELEPHONE NUMBERS		
		STREET	CITY/STATE/ZIP	TELEPHONE NUMBER

4. **IF PROPERTY IS LEASED OR RENTED, PLEASE COMPLETE THE FOLLOWING:**
   NAME OF LANDLORD_____ TELEPHONE_____
   ADDRESS OF LANDLORD_____
5. **RENTABLE SQUARE FOOTAGE OF BUILDING?** _____
6. **IS BUSINESS BEING CONDUCTED IN YOUR HOME?** ☐ **Yes** ☐ **No**
7. **IF BUSINESS IS BEING PURCHASED, PLEASE COMPLETE THE FOLLOWING:**
   SELLER'S BUSINESS NAME_____ SELLER'S BUSINESS LICENSE NO._____

CERTIFICATION AND ACKNOWLEDGEMENT

I DECLARE THAT I AM AUTHORIZED TO MAKE THIS APPLICATION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL THE INFORMATION GIVEN IS TRUE, ACCURATE AND COMPLETE. I UNDERSTAND THAT THE FILING OF THIS APPLICATION AND THE PAYMENT OF A FEE DOES NOT ENTITLE ME TO COMMENCE OR CARRY ON ANY BUSINESS IN THE CITY OF SAN LEANDRO UNTIL SAID BUSINESS LICENSE IS APPROVED AND ISSUED. UPON ISSUANCE OF A BUSINESS LICENSE BY THE CITY, IT SHALL BE MY RESPONSIBILITY TO RENEW THE LICENSE BY JANUARY 31 OF EACH CALENDAR YEAR.

➔**SIGN HERE**_____ **TITLE**_____ **DATE**_____

FOR CITY USE ONLY	**PLANNING DIVISION**	**FIRE DEPARTMENT**	**POLICE DEPARTMENT**	**FINANCE**
☐ **NEW APPLICATION**	☐ RELEASE ☐ HOLD	☐ RELEASE ☐ HOLD	☐ RELEASE ☐ HOLD	☐ RELEASE ☐ HOLD
☐ **CHANGE**	REASON:_____	REASON: _____	REASON: _____	REASON: _____
_____	_____	_____	_____	_____
_____	BY_____	BY_____	BY_____	BY_____
_____	DATE_____	DATE_____	DATE_____	DATE_____

ESD _____ DATE _____
RISK MGNT _____ DATE _____

CITY OF SAN LEANDRO
STATE OF CALIFORNIA

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we _____
as Principal, and _____
as Surety, are held and firmly bound unto the **CITY OF SAN LEANDRO**, hereinafter called "City", in penal sum of ten percent (10%) OF THE TOTAL AMOUNT OF THE BID OF THE PRINCIPAL submitted to the said City for the work described below for the payment of which sum in lawful money of the United States, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that whereas the Principal has submitted the accompanying Proposal dated _____, for **BART – Downtown Pedestrian Interface, Project No. 11-150-38-331.**

NOW, THEREFORE, if the Principal shall not withdraw said proposal prior to the date and time for the opening of bids, and if the Principal is awarded the contract and shall within the period specified in the Proposal after receiving notice that the contract has been awarded and the prescribed forms are presented to Principal for signature, enter in a written contract with the City, in accordance with the Proposal as accepted, and give insurance and bond with good and sufficient surety or sureties, as may be required, for the faithful performance and proper fulfillment of such contract and for the payment for labor and materials used for the performance of the contract, or in the event of the withdrawal of said Proposal within the period specified or the failure to enter into such contract and give such City bonds, within the time specified, if the Principal shall pay the City the difference between the amount specified in said Proposal and the amount for which the City may procure the required work and/or supplies, if the latter amount be in excess of the former, together with all costs incurred by the City in again calling for bids, then the above obligation shall be void and of no effect, otherwise to remain in full force and virtue.

Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract on the call for bids, or to the work to be performed there under, or the specifications accompanying the same, shall in any way affect its obligation under this bond, and it does hereby waive notice of any such change, extension of time, alteration, or addition to the terms of said contract or the call for bids, or to the work, or to the specifications.

In the event suit is brought up on this bond by the City and judgment is recovered, the Surety shall pay all costs incurred by the City in such suit, including a reasonable attorney's fee to be fixed by the court.

IN WITNESS WHEREOF, the above-bound parties have executed this instrument under their several seals this _____ day of _____, the name and corporate seals of each corporate party being hereto affixed and these presents duly signed by its undersigned representatives, pursuant to authority of its governing body.

(Corporate Seal) **Principal** _____

By _____

Title _____

(Attach Notarial Acknowledgment)

(Corporate Seal) **Surety** _____

Address _____

Phone No.: ( )_____ Fax No.: ( ) _____

By _____
Attorneys-in-Fact

Title _____

(Attach Notarial Acknowledgment)

<u>NOTE TO SURETY COMPANY</u>: There must be submitted a certified copy of unrevoked resolution of authority for the attorneys-in-fact.

END OF BID BOND

PROPOSAL FORM

CITY OF SAN LEANDRO
STATE OF CALIFORNIA

AGREEMENT

THIS AGREEMENT is made at San Leandro, California, as of _____ _____, by and between _____, hereinafter called Contractor, and the **CITY OF SAN LEANDRO**, a municipal corporation, hereinafter called City, who agree as follows:

Recitals

The City has awarded a contract to the Contractor for performing the work hereinafter mentioned in accordance with the sealed proposal of said Contractor and of proceedings had and taken by the City Council of the City leading up thereto:

1. WORK TO BE DONE: The work to be done consists of **pedestrian streetscape improvements, including: new sidewalks with bulbouts, street rehabilitation with asphalt concrete overlay and added storm drainage inlets, ornamental street lighting, revised traffic signal system, landscape planting with irrigation, decorative wayfinding signage, ornamental concrete elements,**, and doing all appurtenant work in place and ready for use, all as shown in the plans and described in the specifications entitled **"BART – Downtown Pedestrian Interface, Project No. 11-150-38-331"** now on file in the office of the **Engineer** of said City.

2. TIME OF PERFORMANCE: The work under this contract shall commence and be completed in accordance with the times therefore prescribed in the specifications for said work.

3. PAYMENT: The City will pay the Contractor for the performance of said work the prices as stated in the Contract Price Schedule, and at the times and in the manner prescribed in the specifications.

4. COMPONENT PARTS: This Agreement shall consist of the following documents, each of which is on file in the office of the **Engineer** of said City, and all of which are incorporated herein and made a part hereof by reference thereto:

A. This Agreement and Contract Price Schedule
B. Notice to Bidders
C. Proposal Requirements
D. Resolution Approving Plans and Specifications and Calling for Bids
E. Accepted Proposal
F. Special Provisions
G. Plans
H. Standard Specifications
I. Faithful Performance Bond
J. Payment Bond
K. Maintenance Bond
L. Project Addenda, if any

5. WAGE SCALE: Reference is hereby made to the General Wage Determination made by the Director of Industrial Relations and adopted by Resolution No. 77-236 of the City Council. Reference thereto is further made in the instructions and information to bidders. The provisions of the General Wage Determination made by the Director of Industrial Relations and Resolution No. 77-236 are hereby specified as the rate of prevailing wages to be paid workers on this project. For purposes of Labor Code section 1781, this project is a "public work" to which Labor Code section 1771 applies, and the

Contractor and all listed or unlisted subcontractors must perform the work as a "public work." The Contractor has the responsibility for determining what is required to comply with its obligations under Labor Code section 1771. Any decision by the Contractor or any listed or unlisted subcontractor not to comply with Labor Code section 1771 is at the Contractor's or subcontractor's sole risk.

6. LABOR CODE COMPLIANCE: Contractor indemnifies and holds harmless the City, its officers, officials, and employees, from and against claims, liability, and damages arising from any alleged violation of the California Labor Code asserted against the City due to the alleged acts or omissions of the Contractor or any listed or unlisted subcontractor used on the project.

7. CLAIMS: The City has the full authority to compromise or settle any claim relating to this project. The City will timely notify the Contractor if the City receives any third-party claim relating to this project.

IN WITNESS WHEREOF, City has caused these presents to be executed by its officers, thereunto duly authorized and Contractor has subscribed same, all on the day and year first above written.

CITY OF SAN LEANDRO
A Municipal Corporation

By:_____
Chris Zapata, City Manager

Date: _____

Attest:_____
Marian Handa, City Clerk

(NAME OF CONTRACTOR)
Contractor

By:_____

By:_____

Date:_____

APPROVED AS TO FORM:

_____
Jayne W. Williams, City Attorney

_____
David Baum, Finance Director

Account No.(s) 120-38-331-5240, 144-36-331-5240, 144-38-331-5240, 150-38-331-5240, 210-38-331-5240

ACKNOWLEDGMENT

State of California
County of Alameda)

On _____, before me, _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature_____ (Seal)

CONTRACT PRICE SCHEDULE (PAGE 1 OF 3)

Item No.	Description	Estimated Quantity (A)	Unit of Measure	Item UNIT Price (in Words)	Item UNIT Price (in Figures) (B)	TOTAL PRICE (in Figures) (AxB)
1.	Mobilization and General Conditions	1	LS	_____ _____		
2	Labor Compliance Monitoring	10	MO	_____ _____		
3.	Clearing and Grubbing	1	LS	_____ _____		
4.	Sheeting, Shoring, and Bracing	1	LS	_____ _____		
5.	Storm Drainage System	1	LS	_____ _____		
6.	Sanitary Sewer System	1	LS	_____ _____		
7.	Mill Asphalt Concrete and Off Haul	4,600	TON	_____ _____		
8.	AC Overlay	4,600	TON	_____ _____		
9.	AC Dig Out Removal and Repaving	800	TON	_____ _____		
10.	Pavement Fabric	19,627	SY	_____ _____		
11.	Pavement striping and markings	1	LS	_____ _____		
12.	Decorative Crosswalk Imprinting	13,841	SF	_____ _____		
13.	Concrete Work	1	LS	_____ _____		

CONTRACT PRICE SCHEDULE (PAGE 2 OF 3)

Item No.	Description	Estimated Quantity (A)	Unit of Measure	Item UNIT Price (in Words)	Item UNIT Price (in Figures) (B)	TOTAL PRICE (in Figures) (AxB)
14.	East 14th Street Ramp Installations	1	LS	_____ _____		
15.	Streetlight System	1	LS	_____ _____		
16.	Traffic Signal System	1	LS	_____ _____		
17.	Street Signs	1	LS	_____ _____		
18.	Ornamental Furnishings and Sitework	1	LS	_____ _____		
19.	Landscape Planting	1	LS	_____ _____		
20.	Irrigation system	1	LS	_____ _____		
21.	Plant Establishment / Maintenance	12	MO	_____ _____		
22.	Palm Tree Extended Maintenance	24	MO	_____ _____		
23.	Adjust Telecommunication Sidewalk Box	7	EA	_____ _____		
24.	Adjust EBMUD Sidewalk Box	4	EA	_____ _____		
25.	Adjust PG&E Sidewalk Box	9	EA	_____ _____		

CONTRACT PRICE SCHEDULE (PAGE 3 OF 3)

Item No.	Description	Estimated Quantity (A)	Unit of Measure	Item UNIT Price (in Words)	Item UNIT Price (in Figures) (B)	TOTAL PRICE (in Figures) (AxB)
26.	Adjust EMBUD Street Valve Pots	12	EA	_____ _____		
27.	Adjust PG&E Street Valve Pots	1	EA	_____ _____		
28.	Adjust City Survey Monument	4	EA	_____ _____		
28.	City Survey Monument Reconstruction	4	EA	_____ _____		

TOTAL BID: _____
(In Words)

TOTAL BID: _____
(In Figures)

UNITS OF MEASURE:

Abbreviation	Word or Words
LF	**Linear Feet**
SF	**Square Feet**
SY	**Square Yards**
CY	**Cubic Yards**
TN	**Tons (2,000 lbs./907.2 kgs.)**
LS	**Lump Sum**
EA	**Each**
MO	**Months**

NOTE: The estimate of construction quantities set forth herein is approximate only, being given as a basis for the comparison of bids. The City does not expressly nor by implication agree that the actual amount of work will correspond therewith, and reserves the right to change the amount of any class or portion of the work or to omit portions of the work as may be deemed necessary or expedient by the Engineer in accordance with section 3-2.1.1 of the Special Provisions. All bids will be compared on the basis of the Engineer's Estimate of the quantities of the work to be done. The undersigned declares, by signing this proposal, that the bidder has carefully checked all of the above figures and understands that the City shall not be responsible for any errors or omissions on the part of the undersigned in making up this bid.

WORKERS' COMPENSATION INSURANCE CERTIFICATION

Pursuant to Section 7-4 of the Standard Specifications, the Contractor certifies as follows:

I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract.

Signed: _____ Date: _____

_____
(Typed or Printed Name)

Business Address (Street Address, City, State & Zip Code):

_____

_____

_____

Business Phone: ( ) _____

EXHIBIT 15-G LOCAL AGENCY BIDDER DBE COMMITMENT (CONSTRUCTION CONTRACTS)

NOTE: PLEASE REFER TO INSTRUCTIONS ON THE REVERSE SIDE OF THIS FORM

LOCAL AGENCY: _____City of San Leandro_____ LOCATION: San Leandro Boulevard from Davis Street to Williams Street

PROJECT DESCRIPTION: **Pedestrian streetscape improvements, including: new sidewalks with bulbouts, street rehabilitation with asphalt concrete overlay and added storm drainage inlets, ornamental street lighting, revised traffic signal system, landscape planting with irrigation, decorative wayfinding signage, ornamental concrete elements.**

TOTAL CONTRACT AMOUNT: $ _____

BID DATE: _____

BIDDER'S NAME: _____

CONTRACT DBE GOAL**: 10%**

CONTRACT ITEM NO.	ITEM OF WORK AND DESCRIPTION OR SERVICES TO BE SUBCONTRACTED OR MATERIALS TO BE PROVIDED (or contracted if the bidder is a DBE)	DBE CERT NO. AND EXPIRATION DATE	NAME OF EACH DBE (Must be certified on the date bids are opened - include DBE address and phone number)	DOLLAR AMOUNT DBE

For Local Agency to Complete:

Local Agency Contract Number: _____

Federal-aid Project Number: _____

Federal Share: _____

Contract Award Date: _____

Local Agency certifies that all DBE certifications have been verified and information is complete and accurate.

_____ _____ _____

Print Name Signature Date

Local Agency Representative

(Area Code) Telephone Number: _____

Total Claimed DBE Participation

$_____

_____%

_____

Signature of Bidder

_____

Date (Area Code) Tel. No.

_____

Person to Contact (Please Type or Print)

Local Agency Bidder DBE Commitment (Construction Contracts)
(Rev 6/26/09)

Distribution: (1) Copy – Fax or scan a copy to the Caltrans District Local Assistance Engineer (DLAE) within 30 days of contract execution. Failure to send a copy to the DLAE within 30 days of contract execution may result in de-obligation of funds for this project.
(2) Copy – Include in award package to Caltrans District Local Assistance
(3) Original – Local agency files

INSTRUCTIONS - LOCAL AGENCY BIDDER
DBE COMMITMENT (CONSTRUCTION CONTRACTS)

ALL BIDDERS:

PLEASE NOTE: This information may be submitted with your bid. If it is not, and you are the apparent low bidder or the second or third low bidder, it must submitted and received as specified in the Special Provisions. Failure to submit the required DBE commitment will be grounds for finding the bid nonresponsive

The form requires specific information regarding the construction contract: Local Agency, Location, Project Description, Total Contract Amount, Bid Date, Bidder's Name, and Contract DBE Goal.

The form has a column for the Contract Item Number and Item of Work and Description or Services to be Subcontracted or Materials to be provided by DBEs. Prime contractors shall indicate all work to be performed by DBEs including, if the prime is a DBE, work performed by its own forces, if a DBE. The DBE shall provide a certification number to the Contractor and expiration date. Enter the DBE prime's and subcontractors' certification numbers.The form has a column for the Names of DBE contractors to perform the work (who must be certified on the date bids are opened and include the DBE address and phone number).

IMPORTANT: Identify **all** DBE firms participating in the project regardless of tier. Names of the First-Tier DBE Subcontractors and their respective item(s) of work listed should be consistent, where applicable, with the names and items of work in the "List of Subcontractors" submitted with your bid.

There is a column for the DBE participation dollar amount. Enter the Total Claimed DBE Participation dollars and percentage amount of items of work submitted with your bid pursuant to the Special Provisions. (If 100% of item is not to be performed or furnished by the DBE, describe exact portion of time to be performed or furnished by the DBE.) See Section "Disadvantaged Business Enterprise (DBE)," of the Special Provisions (construction contracts), to determine how to count the participation of DBE firms.

Exhibit 15-G must be signed and dated by the person bidding. Also list a phone number in the space provided and print the name of the person to contact.

Local agencies should complete the Local Agency Contract Award, Federal-aid Project Number, Federal Share, Contract Award Date fields and verify that all information is complete and accurate before signing and filing.

EXHIBIT 15-H DBE INFORMATION —GOOD FAITH EFFORTS
DBE INFORMATION - GOOD FAITH EFFORTS

Federal-aid Project No. CML-5041 (036) Bid Opening Date October 2, 2012

The City of San Leandro established a Disadvantaged Business Enterprise (DBE) goal of 10% for this project. The information provided herein shows that a good faith effort was made.

Lowest, second lowest and third lowest bidders shall submit the following information to document adequate good faith efforts. Bidders should submit the following information even if the "Local Agency Bidder DBE Commitment" form indicates that the bidder has met the DBE goal. This will protect the bidder's eligibility for award of the contract if the administering agency determines that the bidder failed to meet the goal for various reasons, e.g., a DBE firm was not certified at bid opening, or the bidder made a mathematical error.

Submittal of only the "Local Agency Bidder DBE Commitment" form may not provide sufficient documentation to demonstrate that adequate good faith efforts were made.

The following items are listed in the Section entitled "Submission of DBE Commitment" of the Special Provisions:

A. The names and dates of each publication in which a request for DBE participation for this project was placed by the bidder (please attach copies of advertisements or proofs of publication):

Publications	Dates of Advertisement

B. The names and dates of written notices sent to certified DBEs soliciting bids for this project and the dates and methods used for following up initial solicitations to determine with certainty whether the DBEs were interested (please attach copies of solicitations, telephone records, fax confirmations, etc.):

Names of DBEs Solicited	Date of Initial Solicitation	Follow Up Methods and Dates

C. The items of work which the bidder made available to DBE firms including, where appropriate, any breaking down of the contract work items (including those items normally performed by the bidder with its own forces) into economically feasible units to facilitate DBE participation. It is the bidder's responsibility to demonstrate that sufficient work to facilitate DBE participation was made available to DBE firms.

Items of Work	Bidder Normally Performs Item (Y/N)	Breakdown of Items	Amount ($)	Percentage Of Contract

D. The names, addresses and phone numbers of rejected DBE firms, the reasons for the bidder's rejection of the DBEs, the firms selected for that work (please attach copies of quotes from the firms involved), and the price difference for each DBE if the selected firm is not a DBE:

Names, addresses and phone numbers of rejected DBEs and the reasons for the bidder's rejection of the DBEs:

_____
_____
_____
_____

Names, addresses and phone numbers of firms selected for the work above:

_____
_____
_____
_____

E. Efforts made to assist interested DBEs in obtaining bonding, lines of credit or insurance, and any technical assistance or information related to the plans, specifications and requirements for the work which was provided to DBEs:

_____
_____
_____
_____

F. Efforts made to assist interested DBEs in obtaining necessary equipment, supplies, materials or related assistance or services, excluding supplies and equipment the DBE subcontractor purchases or leases from the prime contractor or its affiliate:

_____
_____
_____
_____

G. The names of agencies, organizations or groups contacted to provide assistance in contacting, recruiting and using DBE firms (please attach copies of requests to agencies and any responses received, i.e., lists, Internet page download, etc.):

Name of Agency/Organization	Method/Date of Contact	Results

H. Any additional data to support a demonstration of good faith efforts (use additional sheets if necessary):

_____
_____

NOTE: USE ADDITIONAL SHEETS OF PAPER IF NECESSARY.

EXHIBIT 17-O DISADVANTAGED BUSINESS ENTERPRISES (DBE) CERTIFICATION STATUS CHANGE

CP-CEM-2403(F) (New. 10/99)

CONTACT NUMBER	COUNTY	ROUTE	POST MILES	ADMINISTERING AGENCY	CONTRACT COMPETION DATE

PRIME CONTRACTOR	BUSINESS ADDRESS	ESTIMATED CONTRACT AMOUNT

Prime Contractor: List all DBEs with changes in certification status (certified/decertified) while in your employ, whether or not firms were originally listed for good credit.
Attach DBE certification/Decertification letter in accordance with the Special Provisions

CONTRACT ITEM NO.	SUBCONTRACT NAME AND BUSINESS ADDRESS	BUSINESS PHONE	CERTIFICATION NUMBER	AMOUNT PAID WHILE CERTIFIED	CERTIFICATION/ DECERTIFICATION DATE Letter attached
				$	
				$	
				$	
				$	
				$	
				$	
				$	
				$	
				$	

Comments:

I CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND CORRECT

CONTRACTOR REPRESENTATIVE SIGNATURE	TITLE	BUSINESS PHONE NUMBER	DATE

TO THE BEST OF MY KNOWLEDGE, THE ABOVE INFORMATION IS COMPLETE AND CORRECT

RESIDENT ENGINEER	BUSINESS PHONE NUMBER	DATE

DISTRIBUTION Original copy -DLAE
Copy -1) Business Enterprise Program 2) Prime Contactor 3) Local Agency 4) Resident Engineer

INSTRUCTIONS – DISADVANTAGED BUSINESS ENTERPRISES (DBE) CERTIFICATION STATUS CHANGE, EXHIBIT 17-O

Form CP-CEM 2403(F) (New 10/99)
DISADVANTAGED BUSINESS ENTERPRISES (DBE) CHANGE IN CERTIFICATION STATUS REPORT

The top of the form requires specific information regarding the construction project: Contract Number, County, Route, Post Miles, the Administering Agency, the Contract Completion Date, and the Estimated Contract Amount. It requires the Prime Contractor's name and Business Address. The focus of the form is to substantiate and verify the actual DBE dollar amount paid to contractors on federally funded projects that had a changed in Certification status during the course of the completion of the contract. The two situations that are being addressed by CP-CEM 2403(F) are, if a firm certified as a DBE and doing work on the contract during the course of the project becomes Decertified, and if a non-DBE firm doing work on the contract during the course of the project becomes Certified as a DBE.

The form has a column to enter the Contract Item No (or Item Nos.) as well as a column for the Subcontractor's Name, Business Address, Business Phone, and contractor's Certification Number.

The column entitled Amount Paid While Certified will be used to enter the actual dollar value of the work performed by those contractors who meet the conditions as outlined above during the time period they are Certified as a DBE. This column on the CP-CEM-2403(F) should only reflect the dollar value of work performed while the firm was Certified as a DBE.

The column called Certification/Decertification Date (Letter attached) will reflect either the date of the Decertification Letter sent out by the Civil Rights Program or the date of the Certification Certificate mailed out by the Civil Rights Program. There is a box to check that support documentation is attached to the CP-CEM-2403 (F) form.

There is a Comments section for any additional information that may need to be provided regarding any of the above transactions.

The CEM-2403(F) has an area at the bottom where the Contractor and the Resident Engineer sign and date that the information provided is complete and correct.

There is a Comments section for any additional information that may need to be provided regarding any of the above transactions.

The CEM-2403(F) has an area at the bottom where the Contractor and the Resident Engineer sign and date that the information provided is complete and correct.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION FRONT

SUBCONTRACTING REQUEST

DC-CEM-1201 (REV. 4/94) (OLD HC-45) CT# 7541-3514-7

See Instructions On Back

REQUEST NUMBER

CONTRACTOR NAME	COUNTY	ROUTE

BUSINESS ADDRESS	CONTRACT NO.

CITY/STATE	ZIP CODE	FEDERAL AID PROJECT NO. (From Special Provisions)

SUBCONTRACTOR (Name, Business Address, Phone)	BID ITEM NUMBER(S)	% OF BID ITEM SUBBED	CHECK IF: (See Categories Below) (1)	(2)	(3)	DESCRIBE WORK WHEN LESS THAN 100% OF WORK IS SUBBED	$ AMOUNT BASED ON BID $ AMOUNT

Categories: 1) Specialty 2) Listed Under Fair Practices Act 3) Certified DBE

I Certify That:

- The Standard Provisions for labor set forth in the contract apply to the subcontracted work.
- If applicable, (Federal Aid Projects only) Section 14 (Federal Requirements) of the Special Provisions have been inserted in the subcontracts and shall be incorporated in any lower-tier subcontract. Written contracts have been executed for the above noted subcontracted work.

CONTRACTOR'S SIGNATURE	DATE

NOTE: This section is to be completed by the Resident Engineer

1. Total of bid items ..... $ _____
2. Specialty items (previously requested) ..... $ _____
3. Specialty items (this request) ..... $ _____
4. Total (lines 2+3) ..... $ _____
5. Contractor must perform with own forces (lines 1 minus 4) x_____% ..... $ _____
6. Bid items previously subcontracted ..... $ _____
7. Bid items subcontracted (this request) ..... $ _____
8. Total (lines 6+7) ..... $ _____
9. Balance of work Contractor to perform (lines 1 minus 8) ..... $ _____ $ _____

APPROVED

RESIDENT ENGINEER'S SIGNATURE	DATE

CEM-1201 (HC-46 REV. 4/94) COPY DISTRIBUTION: 1. Original - Contractor 2. Copy - local agency Resident Engineer 3. Copy - local agency Labor Compliance Officer 4. Contractor's Information Copy

INSTRUCTIONS FOR COMPLETING SUBCONTRACTING REQUEST FORM

All First-tier subcontractors must be included on a subcontracting request.

Submit in accordance with Section 8-1.01 of the Standard Specifications. Type or print requested information. Information copy is to be retained by the contractor. Submit other copies to project's Resident Engineer. After approval, the original will be returned to the contractor.

When an entire item is subcontracted, the value to be shown is the contractor's bid price.

When a portion of an item is subcontracted, describe the portion, and show the % of bid item and value.

THIS FORM IS NOT TO BE USED FOR SUBSTITUTIONS.

Prior to submittal of a DC-CEM-1201 involving a replacement Subcontractor, submit a separate written request for approval to substitute a listed subcontractor. Section 4107 of the Government Code covers the conditions for substitution.

NOTE: For contractors who will be performing work on railroad property, it is necessary for the contractor to complete and submit the Certificate of Insurance (State Form DH-OS-A10A) naming the subcontractor as insured. *No work shall be allowed which involves encroachment on railroad property until the specified insurance has been approved.*

CITY OF SAN LEANDRO
STATE OF CALIFORNIA

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the **City of San Leandro,** State of California, has awarded to _____, hereinafter designated as the "Principal," a contract for **BART – Downtown Pedestrian Interface, Project No. 11-150-38-331** and,

WHEREAS, said Principal is required under the terms of said contract to furnish a bond for the faithful performance of said contract.

NOW, THEREFORE, we the Principal, and _____ as Surety, are held and firmly bound unto the City of San Leandro in the penal sum of _____ **($_____)**, lawful money of the United States for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, or assigns jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the above bounden Principal, or Principal's heirs, executors, administrators, successors, or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions, and agreements in said contract and any alteration thereof made as therein provided, on the Principal's part, to be kept and performed at the time and in the manner therein specified and in all respects according to their true intent and meaning; and shall defend, indemnify and save harmless the City of San Leandro, its officers and agents as therein stipulated, then this obligation shall become null and void; otherwise it shall be and remain in full force and virtue.

And the Surety, for value received hereby stipulates and agrees that, in accordance with the Plans, Standard Specifications, Special Provisions, and other contract documents, no change, extension of time, alteration, or addition to the terms of the contract, or to the work to be performed hereunder, or to the specifications accompanying the same shall in anywise affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration of additions to the terms of the Contract to the work, or to the specifications.

The City reserves the right to refuse use of any Contractor assigned by any surety to complete the work.

IN WITNESS WHEREOF, the above-bound parties have executed this instrument under their seals this_____day of _____, the name and corporate seals of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

(Corporate Seal) **Principal** _____

By _____

Title _____

(Attach Notarial Acknowledgment)

(Corporate Seal) **Surety** _____

Address _____

Phone No.: ( )_____ Fax No.: ( ) _____

By _____
Attorneys-in-Fact

Title _____

(Attach Notarial Acknowledgment)

<u>NOTE TO SURETY COMPANY</u>: There must be submitted a certified copy of unrevoked resolution of authority for the attorneys-in-fact.

(Seal) **Witness** _____

Approved as to form:

_____
Risk Manager

END OF PERFORMANCE BOND

CITY OF SAN LEANDRO
STATE OF CALIFORNIA

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the **City of San Leandro**, a municipal corporation, has awarded to **_____**, hereinafter designated as the "Principal", a contract for **BART – Downtown Pedestrian Interface, Project. No 11-150-38-331**; and

WHEREAS, said Principal is required to furnish a bond in connection with said contract, to secure payment of claims of laborers, mechanics, or materialmen employed on work under said contract, as provided by law.

NOW, THEREFORE, we the undersigned Principal and Surety are held and firmly bound unto the City of San Leandro in the sum of **_____ ($_____),** said sum being equal to the estimated amount payable by said City of San Leandro under the terms of the contract, for which payment well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, or assigns jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATION ARE SUCH that if said Principal, or Principal's heirs, executors, administrators, successors, or assigns, or subcontractors shall fail to pay for any material, provisions, provender, or other supplies, implements, or machinery used in, upon, for or about the performance of the work contracted to be done, or for any work or labor thereon of any kind, or for amounts due under the Unemployment Insurance Code with respect to such work or labor, or for any amounts required to be deducted, withheld, and paid over to the Franchise Tax Board from these wages of employees of the Contractor and Contractor's subcontractors pursuant to the Revenue and Taxation Code, with respect to such work and labor, the Surety or Sureties hereon will pay for the same in an amount not exceeding the sum specified in this bond, otherwise the above obligation shall be void. In case suit is brought upon this bond, said Surety will pay a reasonable attorney's fee to be fixed by the court.

This bond shall inure to the benefit of any and all persons, companies, and corporations entitled to file claims under Section 3138 of the Civil Code of the State of California so as to give a right of action to them or their assigns in any suit brought upon this bond.

Said Surety, for value received, hereby stipulates and agrees that, in accordance with the Plans, Standard Specifications, Special Provisions, and other Contract Documents, no change, extension of time, alteration or addition to the terms of the contract, or to the work to be performed there under, or to the specifications accompanying the same, shall in anywise affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract, or to the work, or to the specifications.

IN WITNESS WHEREOF, the above-bound parties have executed this instrument under their seals this_____day of _____, the name and corporate seals of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

(Corporate Seal) **Principal** _____

By _____

Title _____

(Attach Notarial Acknowledgment)

(Corporate Seal) **Surety** _____

Address _____

Phone No.: ( )_____ Fax No.: ( ) _____

By _____
Attorneys-in-Fact

Title _____

(Attach Notarial Acknowledgment)

<u>NOTE TO SURETY COMPANY</u>: There must be submitted a certified copy of unrevoked resolution of authority for the attorneys-in-fact.

(Seal) **Witness** _____

Approved as to form:

_____
Risk Manager

END OF PAYMENT BOND

CITY OF SAN LEANDRO
STATE OF CALIFORNIA

MAINTENANCE BOND

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the **City of San Leandro,** State of California, has awarded to _____, hereinafter designated as the "Principal," a contract for **BART – Downtown Pedestrian Interface, Project No. 11-150-38-331**; and

Whereas, said Principal is required under the terms of said contract to furnish a bond for the correction of any defects due to defective materials or workmanship in the work performed under said contract.

NOW, THEREFORE, we the Principal, and _____ as Surety, are held and firmly bound unto the City of San Leandro in the penal sum of _____ **($_____),** lawful money of the United States for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, or assigns jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that if, during a maintenance period of one (1) year from the date of recordation of the Notice of Completion by the City, the Contractor upon receiving written notice of a need for repairs which are directly attributable to defective materials or workmanship, shall diligently take the necessary steps to correct said defects within seven (7) days from the date of said notice, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

If any action shall be brought by City upon this bond, a reasonable attorney's fee, to be fixed by the court, shall be and become a part of City's judgment in any such action.

No right of action shall accrue on this bond to, or for the use of, any person or corporation other than the City named herein or the heirs, executors, administrator, or successor of the City.

IN WITNESS WHEREOF, the above-bound parties have executed this instrument under their seals this_____day of _____, the name and corporate seals of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

(Corporate Seal) **Principal** _____

By _____

Title _____

(Attach Notarial Acknowledgment)

(Corporate Seal) **Surety** _____

Address _____

Phone No.: ( )_____ Fax No.: ( ) _____

By _____
Attorneys-in-Fact

Title _____

(Attach Notarial Acknowledgment)

<u>NOTE TO SURETY COMPANY</u>: There must be submitted a certified copy of unrevoked resolution of authority for the attorneys-in-fact.

(Seal) **Witness** _____

Approved as to form:

_____
Risk Manager

END OF MAINTENANCE BOND

CITY OF SAN LEANDRO
DEPARTMENT OF ENGINEERING AND TRANSPORTATION

SPECIAL PROVISIONS

PART 1 - GENERAL PROVISIONS

Part 1 of the Special Provisions shall conform to Part 1 of the Standard Specifications except as modified herein.

SECTION 1 - TERMS, DEFINITIONS, ABBREVIATIONS, AND SYMBOLS

The Contractor's attention is directed to Section 1, "Terms, Definitions, Abbreviation, And Symbols", of the Standard Specifications.

1-2 DEFINITIONS The following paragraphs are added to Section 1-2 of the Standard Specifications:

Whenever the following terms are used in the Standard Specifications, Plans, Special Provisions, or other contract documents, the intent and meaning shall be interpreted as follows:

Agency: The City of San Leandro.

Board: The City Council of the City of San Leandro.

City: The City of San Leandro.

Contractor: Signatory to agreement contained herein.

Engineer: The City Engineer of the City of San Leandro, State of California, acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties entrusted to them.

Laboratory: Laboratories approved and authorized by the Engineer to test materials and work involved in the contract.

Standard Specifications: The Standard Specifications for Public Works Construction, 2006 edition and the 2008 supplement thereto, American Public Works Association, Southern California Chapter; and Sections 84, 85, and 86 of the May 2006 edition of the California Department of Transportation (CALTRANS) Standard Specifications, the State Department of Industrial Relations general prevailing wage rates; and the State Department of Transportation labor surcharge and equipment rental rates.

Special Provisions: Any provisions that supplement or modify the Standard Specifications, including technical specifications covering construction materials and methods. The State Department of Transportation publication entitled "Labor Surcharge And Equipment Rental Rates" and the State Department of Industrial Relations General Prevailing Wage Rates are to be considered as a part of the Special Provisions.

1-3 ABBREVIATIONS The following definitions are added to Section 1-3 of the Standard Specifications:

Abbreviation	Word or Words
AB or CAB	**Aggregate Base Rock or Crushed Aggregate Base**
ASB or CMB	**Aggregate Subbase Rock or Crushed Miscellaneous Base**
JP	**Joint Utility Pole**
MO	**Months**
TN	**Tons (2,000 lbs./907.2 kgs.)**
TP	**Telephone Pole**

SECTION 2 - SCOPE AND CONTROL OF THE WORK

The scope and control of work shall be governed by the provisions in Section 2, “Scope and Control of the Work”, of the Standard Specifications, except as modified herein.

2-0 GENERAL

The bidder's attention is directed to the provisions in Section 2, "Proposal Requirements and Conditions," of the Standard Specifications and these special provisions for the requirements and conditions which the bidder must observe in the preparation of and the submission of the bid.

The bidder's bond shall conform to the bond form in the Bid book for the project and shall be properly filled out and executed. The bidder’s bond form included in that book may be used.

In conformance with Public Contract Code Section 7106, a Noncollusion Affidavit is included in the Bid book. Signing the Bid book shall also constitute signature of the Noncollusion Affidavit.

The contractor, sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of Title 49 CFR (Code of Federal Regulations) part 26 in the award and administration of US DOT assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy, as the recipient deems appropriate. Each subcontract signed by the bidder must include this assurance.

Failure of the bidder to fulfill the requirements of the Special Provisions for submittals required to be furnished after bid opening, including but not limited to escrowed bid documents, where applicable, may subject the bidder to a determination of the bidder's responsibility in the event it is the apparent low bidder on a future public works contracts.

2-0.1 FEDERAL LOBBYING RESTRICTIONS Section 1352, Title 31, United States Code prohibits Federal funds from being expended by the recipient or any lower tier subrecipient of a Federal-aid contract to pay for any person for influencing or attempting to influence a Federal agency or Congress in connection with the awarding of any Federal-aid contract, the making of any Federal grant or loan, or the entering into of any cooperative agreement.

If any funds other than Federal funds have been paid for the same purposes in connection with this Federal-aid contract, the recipient shall submit an executed certification and, if required, submit a completed disclosure form as part of the bid documents.

A certification for Federal-aid contracts regarding payment of funds to lobby Congress or a Federal agency is included in the Proposal. Standard Form-LLL, “Disclosure of Lobbying Activities”, with instructions for completion of the Standard Form is also included in the Proposal. Signing the Proposal shall constitute signature of the Certification.

The above-referenced certification and disclosure of lobbying activities shall be included in each subcontract and any lower tier contracts exceeding $100,000. All disclosure forms, but not certifications, shall be forwarded from tier to tier until received by the Engineer.

The Contractor, subcontractors and any lower-tier contractors shall file a disclosure form at the end of each calendar quarter in which there occurs any event that requires disclosure or that materially affect the accuracy of the information contained in any disclosure form previously filed by the Contractor, subcontractors and any lower-tier contractors. An event that materially affects the accuracy of the information reported includes:

1. A cumulative increase of $25,000 or more in the amount paid or expected to be paid for influencing or attempting to influence a covered Federal action; or

2. A change in the person(s) or individual(s) influencing or attempting to influence a covered Federal action; or

3. A change in the officer(s), employee(s), or Member(s) contacted to influence or attempt to influence a covered Federal action.

2-0.2 DISADVANTAGED BUSINESS ENTERPRISE (DBE).—This project is subject to Title 49 CFR 26.13(b):

> The Contractor, sub-recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR, Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate.

Take necessary and reasonable steps to ensure that DBEs have opportunity to participate in the contract (49 CFR 26).

To ensure there is equal participation of the DBE groups specified in 49 CFR 26.5, the Agency specifies a goal for Disadvantaged Business Enterprises (DBEs). DBE is a firm that meets the definition of DBE.

Make work available to DBEs and select work parts consistent with available DBE subcontractors and suppliers.

Meet the DBE goal shown in the Notice to Bidders or demonstrate that you made adequate good faith efforts to meet this goal.

It is your responsibility to verify that the DBE firm is certified as DBE at date of bid opening. For a list of DBEs certified by the California Unified Certification Program, go to:

http://www.dot.ca.gov/hq/bep/find_certified.htm

All DBE participation will count toward the California Department of Transportation's federally mandated statewide overall DBE goal.

Credit for materials or supplies you purchase from DBEs counts towards the goal in the following manner:

1. 100 percent counts if the materials or supplies are obtained from a DBE manufacturer.
2. 60 percent counts if the materials or supplies are obtained from a DBE regular dealer.
3. Only fees, commissions, and charges for assistance in the procurement and delivery of materials or supplies count if obtained from a DBE that is neither a manufacturer, nor a regular dealer. 49 CFR 26.55 defines "manufacturer" and "regular dealer."

You receive credit towards the goal if you employ a DBE trucking company that performs a commercially useful function as defined in 49 CFR 26.55.

DBE Commitment Submittal

Submit DBE information on the Local Agency Bidder DBE Commitment (Construction Contracts), Exhibit 15-G form, included in the Bid book. If the form is not submitted with the bid, remove the form from the Bid book before submitting your bid.

If the DBE Commitment form is not submitted with the bid, the apparent low bidder, the 2nd low bidder, and the 3rd low bidder must complete and submit the DBE Commitment form to the Agency. DBE Commitment form must be received by the Agency no later than 4:00 p.m. on the 4th business day after bid opening.

Other bidders do not need to submit the DBE Commitment form unless the Agency requests it. If the Agency requests you to submit a DBE Commitment form, submit the completed form within 4 business days of the request.

Submit written confirmation from each DBE stating that it is participating in the contract. Include confirmation with the DBE Commitment form. A copy of a DBE's quote will serve as written confirmation that the DBE is participating in the contract.

If you do not submit the DBE Commitment form within the specified time, the Agency finds your bid nonresponsive.

Good Faith Efforts Submittal

If you have not met the DBE goal, complete and submit the DBE Information - Good Faith Efforts, Exhibit 15-H form with the bid showing that you made adequate good faith efforts to meet the goal. Only good faith efforts directed towards obtaining participation by DBEs will be considered. If good faith efforts documentation is not submitted with the bid, it must be received by the Agency no later than 4:00 p.m. on the 4th business day after bid opening.

If your DBE Commitment form shows that you have met the DBE goal or if you are required to submit the DBE Commitment form, you must also submit good faith efforts documentation within the specified time to protect your eligibility for award of the contract in the event the Agency finds that the DBE goal has not been met.

Good faith efforts documentation must include the following information and supporting documents, as necessary:

1. Items of work you have made available to DBE firms. Identify those items of work you might otherwise perform with its own forces and those items that have been broken down into economically feasible units to facilitate DBE participation. For each item listed, show the dollar value and percentage of the total contract. It is your responsibility to demonstrate that sufficient work to meet the goal was made available to DBE firms.
2. Names of certified DBEs and dates on which they were solicited to bid on the project. Include the items of work offered. Describe the methods used for following up initial solicitations to determine with certainty if the DBEs were interested, and the dates of the follow-up. Attach supporting documents such as copies of letters, memos, facsimiles sent, telephone logs, telephone billing statements, and other evidence of solicitation. You are reminded to solicit certified DBEs through all reasonable and available means and provide sufficient time to allow DBEs to respond.

3. Name of selected firm and its status as a DBE for each item of work made available. Include name, address, and telephone number of each DBE that provided a quote and their price quote. If the firm selected for the item is not a DBE, provide the reasons for the selection.
4. Name and date of each publication in which you requested DBE participation for the project. Attach copies of the published advertisements.
5. Names of agencies and dates on which they were contacted to provide assistance in contacting, recruiting, and using DBE firms. If the agencies were contacted in writing, provide copies of supporting documents.
6. List of efforts made to provide interested DBEs with adequate information about the plans, specifications, and requirements of the contract to assist them in responding to a solicitation. If you have provided information, identify the name of the DBE assisted, the nature of the information provided, and date of contact. Provide copies of supporting documents, as appropriate.
7. List of efforts made to assist interested DBEs in obtaining bonding, lines of credit, insurance, necessary equipment, supplies, and materials, excluding supplies and equipment that the DBE subcontractor purchases or leases from the prime contractor or its affiliate. If such assistance is provided by you, identify the name of the DBE assisted, nature of the assistance offered, and date. Provide copies of supporting documents, as appropriate.
8. Any additional data to support demonstration of good faith efforts.

The agency may consider DBE commitments of the 2nd and 3rd bidders when determining whether the low bidder made good faith efforts to meet the goal.

2-0.3.1 QUALIFICATIONS AND EXPERIENCE All Contractors may be required to furnish evidence of their technical ability, experience and financial responsibility.

2-0.4 SUBMISSION OF DBE INFORMATION

2-0.4.1 GENERAL The bidder's attention is directed to the provisions in Section 2-1, "Award of Contract", of these special provisions for requirements and conditions concerning submittal of DBE information.

A "LOCAL AGENCY BIDDER – DBE INFORMATION" form will be included in the contract documents to be executed by the successful bidder. The purpose of the form is to collect data required under 49 CFR 26. Even if no DBE participation will be reported, the successful bidder must execute and return the form.

2-0.4.2 DBE INFORMATION The successful bidder's "LOCAL AGENCY BIDDER – DBE INFORMATION" form should include the name, addresses and phone numbers of DBE firms that will participate, with a complete description of work or supplies to be provided by each, and the dollar value of each DBE transaction. When 100 percent of a contract item of work is not to be performed or furnished by a DBE, a description of the exact portion of that work to be performed or furnished by that DBE should b included in the DBE information, including the planned location of that work. A successful bidder certified as a DBE should describe the work it has committed to performing with its own forces as well as any other work that it has committed to be performed by DBE subcontractors, suppliers and trucking companies.

The successful bidder is encouraged to provide written confirmation from each DBE that the DBE is participating in the contract. A copy of a DBE's quote will serve as written confirmation that the DBE is participating in the contract. If a DBE is participating as a joint venture partner, the successful bidder is encouraged to submit a copy of the joint venture agreement.

The "LOCAL AGENCY'S BIDDER – DBE INFORMATION" form should be completed and returned to the Agency by the successful bidder with the executed contract and contract bonds.

2-0.5 BUY AMERICA REQUIREMENTS: Attention is directed to the "Buy America" requirements of the Surface Transportation Assistance Act of 1982 (Section 165) and the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) Sections 1041(a) and 1048(a), and the regulations adopted pursuant thereto. In accordance with the said law and regulations, all manufacturing processes for steel and iron materials furnished for incorporation into the work on this project shall occur in the United States; with the exception that pig iron and processed, palletized and reduced iron ore manufactured outside the United States may be used in the domestic manufacturing process for steel and iron materials. The application of coatings, such as epoxy coating, galvanizing, painting, and any other coating that protects or enhances the value of such steel or iron materials shall be considered a manufacturing process subject to the "Buy America" requirements.

A Certificate of Compliance, conforming to the provisions in Section 4-1.5, "Certification," of the Standard Specifications, shall be furnished for steel and iron materials. The certificates, in addition to certifying that the materials comply with the Specifications, shall also specifically certify that all manufacturing processes for the materials occurred in the United States, except for the exceptions allowed herein.

The requirements imposed by the said law and regulations do not prevent a minimal use of foreign steel or iron materials if the total combined cost of such materials used does not exceed one-tenth of one percent (0.1%) of the total contract cost or $2,500, whichever is greater. The Contractor shall furnish the Engineer acceptable documentation of the quantity and value of any foreign steel and iron prior to incorporating such materials into the work.

2-1 AWARD OF CONTRACT Section 2-1 of the Standard Specifications is replaced with the following:

BASIS OF AWARD: The award of the contract, if awarded, will be made within 90 days after the opening of bids to the lowest responsible bidder whose proposal complies with all the contract requirements, based on the corrected "Total Bid" sum of the corrected extension(s) of the bid item(s) in "Total Price" column, per the "Proposal to the City of San Leandro". The right is reserved to reject any and all proposals.

The periods of time specified above within which the award of contract may be made shall be subject to extension for such further period as may be agreed upon in writing between the Engineer and the bidder concerned.

All bids will be compared on the basis of the Engineer's Estimate of the quantities of work to be done. The Engineer's Estimate of construction quantities are approximate only, being given as a basis for the comparison of bids. The City does not expressly nor by implication agree that the actual amount of work will correspond therewith, and reserves the right to change the amount of any class or portion of the work or to omit portions of the work as may be deemed necessary or expedient by the Engineer in accordance with Section 3-2 of the Standard Specifications.

2-3 SUBCONTRACTS

2-3.1 GENERAL The following information is added to Section 2-3.1 of the Standard Specifications:

Contractor shall provide all REQUIRED information, as requested, on the "List of Subcontractors", which is included in the proposal. If requested by the Engineer, all other information must be provided within 24 hours of bid opening, pursuant to Public Contracts Code Section 4104.

2-3.2 ADDITIONAL RESPONSIBILITY The following information is added to Section 2-3.2 of the Standard Specifications:

The City hereby designates the following items as "Specialty Items" for computing the amount of work required by the Contractor pursuant to Section 2-3.2 of the Standard Specifications:

Bid Item No.	Description
12	Decorative asphalt concrete street imprinting

The Contractor shall perform, with the Contractor's own organization, contract work amounting to **not less than 30 percent of the original total contract price**, except that any designated "Specialty Items" may be performed by subcontract and the amount of any designated "Specialty Items" performed by subcontract may be deducted from the original total contract price before computing the amount of work required to be performed by the Contractor with the Contractor's own organization.

2-3.4 SUBCONTRACTOR AND DBE RECORDS Use each DBE subcontractor as listed on the List of Subcontractors form and the Local Agency Bidder DBE Commitment (Construction Contracts), Exhibit 15-G, forms unless you receive authorization for a substitution.
The Agency requests the Contractor to:

1. Notify the Engineer of any changes to its anticipated DBE participation
2. Provide this notification before starting the affected work

Maintain records including:

1. Name and business address of each 1st-tier subcontractor
2. Name and business address of each DBE subcontractor, DBE vendor, and DBE trucking company, regardless of tier
3. Date of payment and total amount paid to each business

If you are a DBE contractor, include the date of work performed by your own forces and the corresponding value of the work. Before the 15th of each month, submit a Monthly DBE Trucking Verification form.
If a DBE is decertified before completing its work, the DBE must notify you in writing of the decertification date. If a business becomes a certified DBE before completing its work, the business must notify you in writing of the certification date. Submit the notifications. On work completion, complete a Disadvantaged Business Enterprises (DBE) Certification Status Change, Exhibit 17-O, form. Submit the form within 30 days of contract acceptance.
Upon work completion, complete a Final Report – Utilization of Disadvantaged Business Enterprises (DBE), First-Tier Subcontractors, Exhibit 17-F, form. Submit it within 90 days of contract acceptance. The Agency withholds $10,000 until the form is submitted. The Agency releases the withhold upon submission of the completed form.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

FINAL REPORT-UTILIZATION OF DISADVANTAGED BUSINESS ENTERPRISES (DBE), FIRST-TIER SUBCONTRACTORS

ADA Notice
For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814

CEM-2402F (REV 02/2008)

CONTRACT NUMBER	COUNTY	ROUTE	POST MILES	FEDERAL AID PROJECT NO.	ADMINISTERING AGENCY		CONTRACT COMPLETION DATE
PRIME CONTRACTOR			BUSINESS ADDRESS				ESTIMATED CONTRACT AMOUNT $

ITEM NO.	DESCRIPTION OF WORK PERFORMED AND MATERIAL PROVIDED	COMPANY NAME AND BUSINESS ADDRESS	DBE CERT. NUMBER	CONTRACT PAYMENTS			DATE OF FINAL PAYMENT
				NON-DBE	DBE	DATE WORK COMPLETE	
				$	$		
				$	$		
				$	$		
				$	$		
				$	$		
				$	$		
				$	$		
				$	$		
				$	$		
				$	$		
				$	$		
				$	$		
ORIGINAL COMMITMENT $			TOTAL	$	$		

DBE

List all First-Tier Subcontractors, Disadvantaged Business Enterprises (DBEs) regardless of tier, whether or not the firms were originally listed for goal credit. If actual DBE utilization (or item of work) was different than that approved at time of award, provide comments on back of form. List actual amount paid to each entity.

I CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND CORRECT

CONTRACTOR REPRESENTATIVE'S SIGNATURE	BUSINESS PHONE NUMBER	DATE

TO THE BEST OF MY INFORMATION AND BELIEF, THE ABOVE INFORMATION IS COMPLETE AND CORRECT

RESIDENT ENGINEER'S SIGNATURE	BUSINESS PHONE NUMBER	DATE

Copy Distribution-Caltrans contracts: **Original** - District Construction; **Copy**- Business Enterprise Program; **Copy**- Contractor; **Copy** Resident Engineer

Copy Distribution-Local Agency contracts: **Original** - District Local Assistance Engineer (submitted with the Report of Expenditure; **Copy**- District Local Assistance Engineer; **Copy**- Local Agency file

The form requires specific information regarding the construction project: Contract Number, County, Route, Post Miles, Federal-aid Project No., the Administering Agency, the Contract Completion Date and the Estimated Contract Amount. It requires the prime contractor name and business address. The focus of the form is to describe who did what by contract item number and descriptions, asking for specific dollar values of item work completed broken down by subcontractors who performed the work both DBE and non-DBE work forces. DBE prime contractors are required to show the date of work performed by their own forces along with the corresponding dollar value of work.

The form has a column to enter the Contract Item No. (or Item No's) and description of work performed or materials provided, as well as a column for the subcontractor name and business address. For those firms who are DBE, there is a column to enter their DBE Certification Number. The DBE should provide their certification number to the contractor and notify the contractor in writing with the date of the decertification if their status should change during the course of the project.

The form has six columns for the dollar value to be entered for the item work performed by the subcontractor.

The Non-DBE column is used to enter the dollar value of work performed for firms who are not certified
DBE.

The decision of which column to be used for entering the DBE dollar value is based on what program(s) status the firm is certified. This program status is determined by the California Unified Certification Program by ethnicity, gender, ownership, and control issues at time of certification. To confirm the certification status and program status, access the Department of Transportation Civil Rights web site at: http://www.dot.ca.gov/hq/bep or by calling (916) 324-1700 or the toll free number at (888) 810-6346.

Based on this DBE Program status, the following table depicts which column to be used:

DBE Program Status	Column to be used
If program status shows DBE only with no other programs listed	DBE

If a contractor performing work as a DBE on the project becomes decertified and still performs work after their decertification date, enter the total dollar value performed by this contractor under the appropriate DBE identification column.

If a contractor performing work as a non-DBE on the project becomes certified as a DBE, enter the dollar value of all work performed after certification as a DBE under the appropriate identification column.

Enter the total of each of the six columns in Form CEM-2402(F).

Any changes to DBE certification must also be submitted on Form-CEM 2403(F).

Enter the Date Work Completed as well as the Date of Final Payment (the date when the prime contractor made the “final payment” to the subcontractor for the portion of work listed as being completed).

The contractor and the resident engineer sign and date the form indicating that the information provided is complete and correct..

STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION

MONTHLY DBE TRUCKING VERIFICATION

CP-CEM-2404(F) (NEW 12/99)

CONTRACT NO.	MONTH	YEAR

Truck Owner	DBE Cert. No.	Company Name and Address	Truck No.	California Hwy. Patrol CA No.	Commission Or Amount Paid*	Date Paid	Lease Arrangement (√ if applicable)
					$		Lease Agreement ☐ with Non-DBE ☐ with DBE ☐
					$		Lease Agreement ☐ with Non-DBE ☐ with DBE ☐
					$		Lease Agreement ☐ with Non-DBE ☐ with DBE ☐
					$		Lease Agreement ☐ with Non-DBE ☐ with DBE ☐
					$		Lease Agreement ☐ with Non-DBE ☐ with DBE ☐
					$		Lease Agreement ☐ with Non-DBE ☐ with DBE ☐
					$		Lease Agreement ☐ with Non-DBE ☐ with DBE ☐
					$		Lease Agreement ☐ with Non-DBE ☐ with DBE ☐
				TOTAL AMOUNT PAID	$		

PRIME CONTRACTOR	BUSINESS ADDRESS	BUSINESS PHONE NO.

** Upon request all Lease Agreements shall be made available, in accordance with the Special Provisions.*

I CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND CORRECT

CONTRACTOR REPRESENTATIVE'S SIGNATURE	TITLE	DATE

CEM-2404F (NEW 12/99)

COPY DISTRIBUTION: ORIGINAL - RESIDENT ENGINEER

Form CP-CEM 2404 (F)(NEW 12/99)
MONTHLY DBE TRUCKING VERIFICATION

The top of Form CEM-2404(F) contains boxes to put in the Contract Number, the Month of the reporting period and the Year of the reporting period.

The Form CEM-2404(F) has a column to enter the name of the Truck Owner, the DBE Cert. No. (if DBE certified) and the Name and Address of the trucking company. The Form CEM-2404(F) also requires the Truck No. and the California Highway Patrol CA No.

Form CEM-2404(F) is to be submitted prior to the 15th of each month and must show the dollar amount paid to the DBE trucking company(s) for trucking work performed by DBE certified trucks and for any fees or commissions of nonDBE trucks utilized each month on the project. The amount paid to each trucking company is to be entered in the column called "Commission or Amount Paid," in accordance with the Special Provisions Section 5-1.X.

Payment information is derived using the following:

1.) 100% for the trucking services provided by the DBE using trucks it owns, operates and insures.
2.) 100% for the trucking services provided by the trucks leased from other DBE firms.
3.) The fee or commission paid to nonDBEs for the lease of trucks. The Prime does not receive 100% credit for these services because they are not provided by a DBE company.

The total dollar figure of this column is to be placed in the box labeled "Total Amount Paid." The column "Date Paid" requires a date that each trucking company is paid for services rendered. The next column contains information that must be completed if a lease arrangement is applicable. Located at the bottom of the form is a space to put the name of the "Prime Contractor," their "Business Address" and their "Business Phone No."

At the bottom of the form there is a space for the Contractor or designee "Contractor Representative's Signature, Title and Date" certifying that the information provided on the form is complete and correct.

2-3.5 DBE CERTIFICATION STATUS If a DBE subcontractor is decertified during the life of the project, the decertified subcontractor shall notify the Contractor in writing with the date of decertification. If a subcontractor becomes a certified DBE during the life of the project, the subcontractor shall notify the Contractor in writing with the date of certification. The Contractor shall furnish the written documentation to the Engineer.

Upon completion of the contract, Form CEM-2403 (F) indicating the DBEs existing certification status shall be signed and certified correct by the Contractor. The certified form shall be furnished to the Engineer within 90 days from the date of contract acceptance.

2-3.6 PERFORMANCE OF DBE SUBCONTRACTORS AND SUPPLIERS DBEs must perform work or supply materials as listed in the Local Agency Bidder DBE Commitment (Construction Contracts), Exhibit 15-G, included in the Bid.
Do not terminate or substitute a listed DBE for convenience and perform the work with your own forces or obtain materials from other sources without authorization from the Agency.
The Agency authorizes a request to use other forces or sources of materials if it shows any of the following justifications:

1. Listed DBE fails or refuses to execute a written contract based on plans and specifications for the project.
2. You stipulated that a bond is a condition of executing the subcontract and the listed DBE fails to meet your bond requirements.
3. Work requires a contractor's license and listed DBE does not have a valid license under Contractors License Law.
4. Listed DBE fails or refuses to perform the work or furnish the listed materials.
5. Listed DBE's work is unsatisfactory and not in compliance with the contract.
6. Listed DBE is ineligible to work on the project because of suspension or debarment.
7. Listed DBE becomes bankrupt or insolvent.
8. Listed DBE voluntarily withdraws with written notice from the Contract
9. Listed DBE is ineligible to receive credit for the type of work required.
10. Listed DBE owner dies or becomes disabled resulting in the inability to perform the work on the Contract.
11. Agency determines other documented good cause.

Notify the original DBE of your intent to use other forces or material sources and provide the reasons. Provide the DBE with 5 days to respond to your notice and advise you and the Agency of the reasons why the use of other forces or sources of materials should not occur. Your request to use other forces or material sources must include:

1. One or more of the reasons listed in the preceding paragraph
2. Notices from you to the DBE regarding the request
3. Notices from the DBEs to you regarding the request

If a listed DBE is terminated, make good faith efforts to find another DBE to substitute for the original DBE. The substitute DBE must perform at least the same amount of work as the original DBE under the contract to the extent needed to meet the DBE goal.

The substitute DBE must be certified as a DBE at the time of request for substitution.
Unless the Agency authorizes (1) a request to use other forces or sources of materials or (2) a good faith effort for a substitution of a terminated DBE, the Agency does not pay for work listed on the Local

Agency Bidder DBE Commitment (Construction Contracts), Exhibit 15-G, form unless it is performed or supplied by the listed DBE or an authorized substitute.

2-3.7 SUBCONTRACTING Attention is directed to the provisions in Section 2-3, "Subcontracts", of the Standard Specifications, Section 2-0.2, "Disadvantaged Business Enterprises", Section 2-0.3, "DBE Goal for the Project", Section 2-0.4, "Submission of DBE Information", Section 2-1, "Award of Contract", elsewhere in these special provisions and these special provisions.

Pursuant to the provisions in Section 1777.1 of the Labor Code, the Labor Commissioner publishes and distributes a list of contractors ineligible to perform work as a subcontractor on a public works project. This list of debarred contractors is available from the Department of Industrial Relations web site at http://www.dir.ca.gov/dir/Labor_law/DLSE/Debar.html

The requirement in said Section 2-3.2 of the Standard Specifications that the Contractor shall perform with its own organization contract work amounting to not less than 50 percent of the original contract price is not changed by the Federal Aid requirement in Section 10 of these special provisions that state that the Contractor perform not less than 30 percent of the original contract work with his own organization.

The DBE information furnished under Section 2-0.4.2, "DBE Information", of these special provisions is in addition to the subcontractor information required to be furnished under said Section 2-3, "Subcontracts".

Each subcontract and any lower tier subcontract that may in turn be made shall include the "Required Contract Provisions Federal-Aid Construction Contracts: in Section 10 of these special provisions. Noncompliance shall be corrected. Payment for subcontracted work involved will be withheld from progress payments due, or to become due, until correction is made. Failure to comply may result in termination of the contract.

2-3.8 PROMPT PROGRESS PAYMENT TO SUBCONTRACTORS

Attention is directed to the provisions in Sections 10262 and 10262.5 of the Public Contract Code and Section 7108.5 of the Business and Professions Code concerning prompt payment to subcontractors.

2-3.9 PROMPT PAYMENT OF WITHHELD FUNDS TO SUBCONTRACTORS

The Contractor shall return all moneys withheld in retention from the subcontractor within 30 days after receiving payment for work satisfactorily completed, even if the other contract work is not completed and has not been accepted in conformance with Section 6-8, "Completion and Acceptance," of the Standard Specifications. This requirement shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to the Contractor or subcontractor in the event of a dispute involving late payment or nonpayment by the Contractor or deficient subcontract performance or noncompliance by a subcontractor

2-4 CONTRACT BONDS The following information is added to Section 2-4 of the Standard Specifications:

PAYMENT BOND AND PERFORMANCE BOND: The forms for the Payment Bond and Performance Bond can be found within these contract documents. Only said bond forms provided by the City shall be acceptable.

MAINTENANCE BOND: A Maintenance Bond shall be delivered to the City prior to the City's acceptance of the work. The bond shall be executed by a surety company or companies satisfactory to the

City in the amount of ten percent (10%) of the contract price, or $1,000.00, whichever is greater. The bond shall remain in force for the duration of the 1-year guarantee period. The Maintenance Bond must be in substantially the same form as set forth in these contract documents.

2-5 PLANS AND SPECIFICATIONS The following is added to Section 2-5 of the Standard Specifications:

The work embraced herein shall be performed in accordance with the Standard Specifications for Public Works Construction, the 2006 edition and 2008 supplements thereto, American Public Works Association, Southern California Chapter; and Sections 84, 85, and 86 of the May 2006 edition of the California Department of Transportation (CALTRANS) Standard Specifications, the State Department of Industrial Relations General Prevailing Wage Rates; and the State Department of Transportation Labor Surcharge and Equipment Rental Rates, and these Special Provisions and the Contract Documents.

The Contractor shall not take advantage of any apparent error or omission in the contract documents. In the event Contractor discovers any apparent error, discrepancy or omission, Contractor shall immediately call upon the Engineer to make a determination and decision on the matter.

Should any discrepancy appear, or misunderstandings arise with respect to any issue described in the contract documents, the explanation of the Engineer in relation thereto shall prevail.

In addition to the drawings incorporated with or referred to in these contract documents, the Engineer shall, from time to time during the progress of the work, furnish such additional drawings and reference specifications as may be necessary to clarify or define the intent of the contract documents in greater detail. The Contractor shall make the work conform to all such drawings and reference materials.

The plans for this project shall be as follows:

Title	Sheet No.	Drawing No.	Case No.
Title Sheet	T1	D3602	C202
Key Map and Legend	G2	D3603	C202
Construction Signs and Bike Detour	G3	D3604	C202
Construction Signs and Bike Detour	G3	D3605	C202
Demolition Plans	D1- D4	D3606 - D3609	C202
Plan and Profiles	C1-C5	D3611 - D3614	C202
Bulbout Details	C6-C10	D3615- D3619	C202
Details	CD1-CD5	D3620 - D3624	C202
Utility Plan	U1-U5	D3625 - D3630	C202
Signing and Striping	SS1- SS1	D3631 - D3632	C202
Traffic Signals	E1-E8	D3633– D3639	C202
Street Lighting Electrical	SL1.1 – SL1.6	D3640 – D3645	C202
Street Lighting Site Plans	SL1.1 – SL2.4	D3646 – D3649	C202
Landscape Layouts	LL1 – LL5	D3650 – D3654	C202
Landscape Details	LD1 – LD 5	D3655 – D3659	C202
Structural	S1-S2	D3660 – D3661	C202
Irrigation Plans	IR1-IR5	D3662 – D3666	C202
Irrigation Details	IR6 – IR9	D3667 – D3670	C202
Planting Plans	PL1- PL6	D3671 – D3675	C202
Wayfinding Signage	WSL1 – WSL3	D3676 – D3679	C202
East 14th Ramps	R1 – R2	D3680 – D3681	C202

2-5.1 GENERAL The following is added to section 2-5.1 of the Standard Specifications:

The Contractor shall submit a request for information (RFI) to the Engineer whenever the intent of the contract documents is ambiguous or unclear. RFI's shall be in writing and shall be numbered sequentially. RFI's shall include references to relevant details, specification sections, and plan sheets so that the question may be easily understood. Responses to RFI's shall be considered amendments to the contract documents, and the work shall be constructed in accordance with the responses. The response to an RFI does not indicate or authorize extra work or authorize additional compensation. The Contractor must follow the procedures of Section 3 if additional compensation is desired.

2-5.3 SUBMITTALS

2-5.3.1 GENERAL The following is added to Section 2-5.3.1 of the Standard Specifications:

Contractor's attention is directed to Sections 2-5.3.4 and 6-1 of these Special Provisions regarding required submittals for pre-construction meeting.

The Contractor shall submit the following to the City for review:

- Source of supply of all materials
- Certificates of compliance and certified test reports as required in Section 203-1.3
- Preliminary Construction Schedule
- Sample notice to be given to residents, businesses and agencies
- Traffic Control Plans
- 24-Hour Emergency Phone Numbers
- The Contractor's Representative
- Traffic Control Flagger Certifications (California Code of Regulations (CCR) Title 8, Section 1599)
- Copies of Business Licenses for Contractor and <u>all</u> listed Subcontractors
- All Applicable Permits

Submittals may also be required for any product, manufactured item, or system. Work that utilizes processes, equipment, or materials that have not been approved is performed at the Contractor's own risk. Work performed utilizing rejected processes, equipment, or materials will be removed, repaired, or redone at the Contractor's expense to the satisfaction of the Engineer.

2-5.3.2 WORKING DRAWINGS The following is added to Section 2-5.3.2 of the Standard Specifications:

RECORD DRAWINGS ("As Builts"): The Contractor shall keep and maintain at the job site one record set of contract drawings. On these, it shall mark all project conditions, locations, configurations, and any another changes or deviations that may vary from the details represented on the original contract drawings, including buried or concealed construction and utility features that are revealed during the course of construction. Record drawings may be in the form of a set of prints with carefully plotted information overlaid in pencil of a clearly legible and reproducible contrasting color to the drawing, except the final record drawings shall be prepared on the reproducible prints supplied by the City.

Special attention shall be given to recording the horizontal and vertical location of all buried utilities that differ from the locations indicated, or that were not indicated on the Contract Drawings. Said record

drawings shall be supplemented by any detailed sketches as necessary or as directed to indicate fully the work as actually constructed.

These master record drawings of the Contractor's representation of "as-built" conditions, including all revisions made necessary by addenda, change orders, and the like, shall be maintained up-to-date during the process of the work.

In the case of drawings that depict the detail requirement for equipment to be assembled and wired in the factory, the record drawings shall be updated by indicating those portions that are superseded by change order drawings or final shop drawings, and by including appropriate reference information describing the change orders by number and the shop drawings by manufacturer, drawing, and revision numbers.

Record drawings prepared by the Contractor shall be accessible to the Engineer at all times during the construction period and shall be delivered to the Engineer upon completion of the work.

EFFECT ON PROGRESS PAYMENTS: Requests for partial payments will not be approved if the record drawings are not kept current. All such record drawings will be inspected by the Engineer each month, and the City will not process monthly payment requests unless such drawings are current to the satisfaction of the Engineer.

FINAL RECORD DRAWINGS: Upon substantial completion of the work and prior to final acceptance by the City, the Contractor shall complete and deliver the completed set of record drawings to the Engineer conforming to the construction records of the Contractor. This set of drawings shall consist of corrected plans showing the reported location of the work. The information submitted by the Contractor and incorporated by the Engineer into the record drawings will be assumed to be reliable, and the Engineer will not be responsible for the accuracy of such information, nor for any errors or omissions that may appear on the record drawings as a result. A set of reduced record drawings, laminated in plastic, shall be provided for traffic signal work, street or park lighting work, communications systems work, and irrigation work. Such drawings shall become the property of the City.

EFFECT ON FINAL PAYMENT: An amount to be determined by the Engineer will be withheld from retention until the Contractor-prepared final record drawings have been delivered to the Engineer.

2-5.3.3 SHOP DRAWINGS The following is added to Section 2-5.3.3 of the Standard Specifications:

Shop drawings are required for the following items of work or components:

- **Traffic Control and Construction Staging**
- **Street Lights**
- **Ornamental Concrete and Reinforcement**
- **Signal Poles and Related Equipment**
- **Decorative AC pavement Imprinting**

2-5.3.4 SUPPORTING INFORMATION The following is added to Section 2-5.3.4 of the Standard Specifications:

In accordance with Section 6-1 of these Special Provisions, Contractor shall submit the following to the City for review prior to the pre-construction meeting:

- Preliminary Construction Schedule
- Traffic Control Plans
- Public Notification Flyers and/or Door Hangers
- 24-Hour Emergency Phone Numbers

- Copies of Business Licenses for Contractor and all listed Subcontractors
- All Applicable Permits
- The Contractors Representative
- Traffic Control Flagger Certifications (California Code of Regulations (CCR) Title 8, Section 1599)
- Excavation Permit (CCR Title 8, Section 1533-1543 and California Government Code (CGC) Sections 4216 et. seq's for trenches 5 feet or deeper OSHA permit required.)
    - Activity Notification Form (CCR Title 8, Section 341.(f))
    - Competent Person Certifications (CCR Title 8, Sections 1504, 1541 and 1541.1)
- Confined Space Entry Program (CCR Title 8, Sections 5156 et. seq.)
    - Standard Specification Section 7-10.4.4 requires Contractor to provide CSEP
- All other Permits as required by Federal or State Law

The following is added to the last paragraph of Section 2-5.3.4:

Data shall also be required to be submitted for the additional following systems:
- Concrete Mix Designs and Certifications
- A.C Mix Design and Certifications
- A. B. Grading Design
- Pavement Reinforcing Mesh
- Traffic Stripes & Pavement Markings and Markers

2-6 WORK TO BE DONE The following is added to Section 2-6 of the Standard Specifications:

UNAUTHORIZED WORK: Any work done beyond the lines or grades shown on the plans and specifications, or beyond lines and grades established by the Engineer pursuant to the plans, or any work done without written authority of the Engineer, or performed during unauthorized working hours, or performed without benefit of or subject to inspection, shall be consider as unauthorized work and no compensation will be allowed therefore. The Engineer shall have the authority to have such work removed and the area restored and to deduct the cost thereof from money due or to become due to the Contractor.

2-9 SURVEYING

2-9.2 SURVEY SERVICE The following is added to the second paragraph of Section 2-9.2 of the Standard Specifications:

The Engineer shall only provide initial construction survey staking for the following items. One set of construction stakes will be provided unless otherwise noted.

1. Concrete improvements
2. Signal pole locations
3. Tree grates and streetlight locations.

Contractor shall submit the included "Construction Staking Request" form a minimum of five (5) working days prior to the staking being required.

Any construction survey stakes other than those specified above shall be the responsibility of the Contractor. All surveying performed by the Contractor shall be under the direct supervision of a California Licensed Land Surveyor or Professional Civil Engineer licensed to perform land surveying. Contractor shall provide the Engineer with copies of cut sheets and any other pertinent survey documentation, upon request of the Engineer.

2-9.5 PAYMENT The following Section is added.

Full compensation for any Construction Surveying required shall be included in the price bid for the item of work requiring such services and no additional compensation will be allowed.

CONSTRUCTION STAKING REQUEST

(5 Working Days Notice Required)

Contractor / Requestor Information

DATE OF REQUEST: _____ DATE NEEDED: _____

BART-DOWNTOWN PEDESTRIAN INTERFACE: _____ PROJECT #: _____

REQUESTED BY: _____

CONTACT PHONE #: _____ COMPANY FAX #: _____

DESCRIPTION OF WORK REQUESTED**: (Please attach additional information as needed.)**

☐ **Field** ☐ **Office** ☐ **GPS** _____

_____

_____

_____

_____

LOCATION OF OFFSET (IN FEET):_____

_____ RESTAKE? ☐**Yes** ☐**No**

For City Use Only

INSP. INITIALS & DATE: _____ P.M. INITIALS & DATE: _____

URGENCY: ☐**Routine** ☐**ASAP** ☐**Emergency** AUTHORIZED OVERTIME? ☐**Yes** ☐**No**

ADDITIONAL COMMENTS: **(if needed)** ACCOUNT #: _____

_____

_____

_____

For Survey Coordinator's Use Only

Survey Job #: _____ **Estimated Cost:** _____

Date & Time Received: _____ **Date Completed:** _____

Comments: _____

_____

_____

Contractor: For questions regarding this form, please contact the Project Inspector at **Phone:** (510) 577-3428/ **Fax:** (510) 577-3294

2-11 INSPECTION The following is added to Section 2-11 of the Standard Specifications:

2-11.1 QUALITY CONTROL Quality Control is distinctly the sole duty of the Contractor and said duty shall not be avoided by any act or omission on the part of the inspector(s).

The work shall be conducted under the general observation of the Engineer acting directly and/or through various inspectors at the site and shall be subject to intermittent inspection (Quality Assurance) by said representatives of the City to assure strict compliance with the requirements of the contract documents. The presence of the inspector shall not relieve the Contractor of the responsibility for the proper execution of the work in accordance with all requirements of the contract documents.

Whenever the Contractor is ready to backfill, bury, cast in concrete, hide, or otherwise cover or make inaccessible any work under the contract, the Contractor shall notify the Engineer not less than before noon of the working day prior to the beginning of any such work to be inspected or tested, so that the required inspections can be scheduled and performed. Failure of the Contractor to notify the Engineer at least before noon of the working day before any such inspections shall be reasonable cause for the Engineer to require sufficient delay in the Contractor's schedule to allow time for such inspections, and any remedial or corrective work required, and all costs of such delays, including its impact or effect upon other portions of the work, shall be borne by the Contractor.

The Contractor shall not call for any inspections until the Contractor is absolutely certain that all obligations for quality control have been fulfilled, and the work is in strict compliance with the requirements of the plans and specifications.

The Contractor shall be solely responsible for arranging inspections required by the Building Regulations Division or other jurisdictions where permits are required pursuant to Section 7-5 of these Special Provisions. The Engineer shall be kept informed of the status of such permits and related inspections.

2-11.2 RE-INSPECTION A re-inspection fee may be assessed for each inspection or re-inspection when:

1. Such portion of work for which inspection is called is not complete, or when corrections called for are not made.

2. When the permits are not properly posted at the work site.

3. The approved plans are not readily available to the inspector.

4. When the Contractor fails to provide access to the work on the date for which inspection is requested.

5. For obvious non-compliance and/or for deviating from plans and specifications without the required approval of the Engineer.

6. Any unauthorized work.

7. Work not subject to initial inspection.

8. Continuous failure of material testing.

To obtain a re-inspection, the applicant shall request re-inspection in writing before noon of the working day before re-inspection is required, including agreement for payment of the inspector's current hourly rate, plus laboratory costs for repeated materials testing.

In instances where re-inspection fees have been assessed, no additional inspection of the work will be performed until the required fees have been deducted from money due or to become due to the Contractor.

SECTION 3 - CHANGES IN WORK

Changes in work shall be governed by provisions in Section 3, "Changes In Work", of the Standard Specifications, except as modified herein.

3-2.1.1 CHANGES INITIATED BY THE CITY Changes greater than 25 percent (25%) of the total cost of the following contract items may be made by the City without adjustment in the contract unit prices:

Bid Item No.	Description
8	Asphalt concrete overlay
9	AC Paving Dig Outs
12	Decorative street imprinting

3-3 EXTRA WORK The following is added to Section 3-3 of the Standard Specifications:

Extra work shall require a signed contract change order, or a written order from the City, authorizing Contractor to proceed with extra work for an agreed upon price. The expressed terms of the signed change order shall govern over any conflicting documents, including but not limited to, any proposals for change orders.

Work performed in response to an emergency shall be performed on an extra work basis (time and material basis) and shall be governed by this section.

3-3.1 GENERAL The following paragraph is added to Section 3-3.1 of the Standard Specifications:

When forces or labor used for extra work are not those of the Contractor or subcontractors, such forces or labor shall be treated as subcontractors and the Contractor shall be responsible for their work.

3-3.2 PAYMENT

3-3.2.1 GENERAL The following is added to Section 3-3.2.1 of the Standard Specifications:

When changes in work are to be paid for as Extra Work, in accordance with Section 3-3.2, "Payment", of the Standard Specifications, the labor, materials, and equipment used in the performance of such work shall be subject to the approval of the City.

3-3.2.2 BASIS FOR ESTABLISHING COSTS Section 3-3.2.2 of the Standard Specifications is revised as follows:

(a) **Labor:** The cost of labor for the workers used in the actual and direct performance of the work, whether the employer is the Contractor, subcontractor, or other force, will be the sum of the following:

The actual wages paid at a rate not to exceed the State of California Department of Industrial Relations General Prevailing Wage Rates. The wages shall include any employer payments to or on behalf of the workers for health and welfare, pension, vacation, apprenticeship funds, and similar purposes (fringe benefits).
The use of a labor classification that would increase the extra work cost will not be permitted unless the Contractor establishes the necessity for such additional costs. Labor costs for equipment operators and helpers shall be reported only when such costs are not included in the

invoice for equipment rental. The labor cost for foremen shall be proportioned to all of their assigned work and only that applicable to extra work will be paid.

Non-direct labor costs, including superintendence, shall be considered part of the markup of 3-3.2.3 (a).

To the actual wages, as defined above, will be added a labor surcharge set forth in the California Department of Transportation publication entitled "Labor Surcharge And Equipment Rental Rates", which is in effect on the date upon which the work is accomplished. The labor surcharge shall constitute full compensation for all payments imposed by State and Federal laws and for all other payments made to, or on behalf of, the workers, other than actual wages as defined above. The six items included are Workers Compensation, Social Security, Medicare, Federal Unemployment, State Unemployment, and State Training Taxes.

Fringe benefit statements from applicable collective bargaining units shall be provided for verification.

(b) **Materials**: No additions, deletions, or revisions.

(c) **Tool and Equipment Rental**: Revise the second paragraph of 3-3.2.2 (c) to read:

The rates to be used in determining equipment rental costs of Contractor owned and maintained equipment shall be the lesser of listed rates prevailing locally at equipment rental agencies or distributors, or of listed rates in the California Department of Transportation publication entitled "Labor Surcharge and Equipment Rental Rates", at the time the work is performed. The rates to be used in determining equipment rental costs of equipment obtained at local equipment rental agencies or distributors shall be paid per invoice. The Contractor's owned equipment shall be used to the greatest extent possible.

Revise the fourth paragraph of 3-3.2.2 (c) to include:

Rental rates for Contractor owned/maintained equipment not in actual use that remains at the work site exclusively to perform the extra work shall be adjusted by the Delay Factor Rate up to eight (8) hours, and equipment used in excess of eight (8) hours per day or on weekends and holidays shall be adjusted by the Overtime Factor per the "Labor Surcharge and Equipment Rental Rates".

(d) **Other Items**: No additions, deletions, or revisions.

(e) **Invoices**: No additions, deletions, or revisions.

3-3.2.3 MARK UP Section 3-3.2.3 is replaced as follows:

(a) **Work by Contractor**: The following percentages shall be added to the Contractor's costs and shall constitute the markup for all overhead and profits:

1) Labor	33%
2) Materials	15%
3) Equipment Rental	15%
4) Other Items and Expenditures	15%

(b) **Work by Subcontractor**: When all or any part of the extra work is performed by a Subcontractor, the markup established in 3-3.2.3 (a) shall be applied to the Subcontractor's actual

cost of such work. A markup of ten percent (10%) on the first $5,000 of the subcontracted portion of the extra work and a markup of five percent (5%) on work added in excess of $5,000 of the subcontracted portion of the extra work may be added by the Contractor.

The above markups shall constitute full compensation for all non-direct overhead costs not specifically designated as costs in Section 3-3.2.2 of these Special Provisions, including but not limited to fixed field cost (field overhead), home office overhead, liability insurance, and increased insurance and bond premiums. The total payment made as provided above shall be deemed to be the actual cost of the work and shall constitute full compensation therefore.

3-3.3 DAILY REPORTS BY CONTRACTOR The following is added to Section 3-3.3 of the Standard Specifications:

Contractor (and Subcontractors) shall submit DEW (Daily Extra Work) Reports on the attached form.

3-4 CHANGED CONDITIONS The following is added to Section 3-4 of the Standard Specifications

Any notice of Changed Conditions shall include any potential delay claims, and any potential claims for additional compensation in accordance with Section 6-6 of the Standard Specifications and these Special Provisions.

City of San Leandro – Engineering and Transportation Department

DAILY EXTRA WORK REPORT

(Determination of Time and Materials)

DATE OF REPORT: _____

BART-DOWNTOWN PEDESTRIAN INTERFACE:
_____
_____

PROJECT NO.: _____

DATE WORK PERFORMED: _____

WORK PERFORMED BY: _____
(Contractor/Sub-Contractor/Specialty)

CONTRACTOR JOB NO. : _____

DESCRIPTION OF WORK: _____
_____
_____
_____

EQUIP. NO.	EQUIPMENT	HOURS	HOURLY RATE		EXTENDED AMOUNTS		P.R. NO.	LABOR	HOURS	HOURLY RATE		EXTENDED AMOUNTS	
									O.T.				
									REG.				
									O.T.				
									REG.				
									O.T.				
									REG.				
									O.T.				
									REG.				
									O.T.				
									REG.				

MATERIAL and/or WORK - DONE BY SPECIALISTS								
DESCRIPTION	NO. UNIT	UNIT COST		EXTENDED		SUB-TOTAL		
						SUBSISTENCE _____ NO._____ @ $_____		
						TRAVEL EXPENSE _____ NO._____ @ $_____		
						LABOR SURCHARGE (if not included in hourly rate) _____%		
						TOTAL COST of LABOR	A	
TOTAL COST of EQUIPMENT, MATERIALS, and WORK							B	

+ 33% MARKUP on LABOR COST	(A)		
+ 15% MARKUP on EQUIPMENT, MATERIAL, and WORK COST	(B)		
WORK BY SUBCONTRACTOR: + 10% on FIRST $5,000 and 5% on WORK IN EXCESS of $5,000			
TOTAL THIS REPORT			

VERIFICATION of LABOR, EQUIPMENT, and MATERIAL PROVIDED:

_____ _____
Contractor's Representative Date

_____ _____
Project Inspector Date

_____ _____
REVIEWED: Sr. Engineering Inspector Date

ACCEPTED FOR PROGRESS PAYMENT: _____ **DATE:** _____ **CCO NO.:** _____
Project Manager

3-5 DISPUTED WORK Section 3-5, "Disputed Work", of the Standard Specifications is revised as follows:

For claims of less than three hundred and seventy five thousand dollars ($375,000), the procedure for claims resolution shall be as stipulated in Article 1.5 of the California Public Contracts Code.

3-6 FALSE CLAIMS ACT CERTIFICATION Section 3-6 is added to Section 3 of the Standard Specifications as follows:

All change orders submitted by the Contractor, and any claim for additional compensation must be accompanied by the following declaration:

"I, _____, being the _____ of _____ (Contractor), declare under penalty of perjury under the laws of the State of California, and do personally certify and attest that: I have thoroughly reviewed the attached request for change order and know its contents, and said request for change order is made in good faith; that it is supported by truthful and accurate data; that the amount requested and the additional time requested accurately reflects the allowable expenses that would be incurred, and the time necessary, to perform the change order; and further, that I am familiar with California Penal Code Section 72 an d California Government Code Section 12650, et seq., pertaining to false claims, and further know and understand that submission or certification of a false claim may lead to fines, imprisonment, or other severe legal consequences."

SECTION 4 - CONTROL OF MATERIALS

Contractor's attention is directed to Section 4, "Control of Materials", of the Standard Specifications.

4-1 MATERIALS AND WORKMANSHIP Section 4-1 of the Standard Specifications is amended as follows:

4-1.1.1 BUY AMERICA REQUIREMENTS
Attention is directed to the "Buy America" requirements of the Surface Transportation Assistance Act of 1982 (Section 165) and the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) Sections 1041(a) and 1048(a), and the regulations adopted pursuant thereto. In accordance with the said law and regulations, all manufacturing processes for steel and iron materials furnished for incorporation into the work on this project shall occur in the United States; with the exception that pig iron and processed, pelletized and reduced iron ore manufactured outside the United States may be used in the domestic manufacturing process for steel and iron materials. The application of coatings, such as epoxy coating, galvanizing, painting, and any other coating that protects or enhances the value of such steel or iron materials shall be considered a manufacturing process subject to the "Buy America" requirements.

A Certificate of Compliance, conforming to the provisions in Section 4-1.5, "Certification," of the Standard Specifications, shall be furnished for steel and iron materials. The certificates, in addition to certifying that the materials comply with the Specifications, shall also specifically certify that all manufacturing processes for the materials occurred in the United States, except for the exceptions allowed herein.

The requirements imposed by the said law and regulations do not prevent a minimal use of foreign steel or iron materials if the total combined cost of such materials used does not exceed one-tenth of one percent (0.1%) of the total contract cost or $2,500, whichever is greater. The Contractor shall furnish the Engineer acceptable documentation of the quantity and value of any foreign steel and iron prior to incorporating such materials into the work.

4-1.5 CERTIFICATION The following is added to Section 4-1.5, "Certification," of the Standard Specifications:

A Certificate of Compliance shall be furnished prior to the use of any materials for which these Special Provisions require that such a certificate be furnished. In addition when so authorized in these Special Provisions, the Engineer may permit the use of certain materials or assemblies prior to sampling and testing if accompanied by a Certificate of Compliance. The certificate shall be signed by the manufacturer of the material or the manufacturer of assembled materials and shall state that the materials comply in all respects to the requirements of the specifications. A Certificate of Compliance shall be furnished with each lot of materials delivered to the work and the lot so certified shall be clearly identified in the certificate.

All materials used on the basis of a Certificate of Compliance may be sampled and tested at any time. The fact that a material is used on the basis of a certificate of Compliance shall not relieve the Contractor of responsibility for incorporating material in the work which conforms to the requirements of the plans and specifications and any material not conforming to such requirements will be subject to rejection whether in place or not.

The City reserves the right to refuse to permit the use of material on the basis of Certificate of Compliance

The form of the Certificate of Compliance and its disposition shall be as directed by the Engineer

4-1.6 TRADE NAMES OR EQUAL

The following provisions are added to the end of the fourth paragraph of Section 4-1.6:

Specific reference to manufacturer's names and products specified in these sections are used as standard. For convenience in designation on the plans or in the specifications, certain articles or materials to be incorporated in the work may be designated under a trade name or the name of manufacturer and the manufacturer's catalogue information. The use of an alternate article or material which is of equal quality and of the required characteristics for the purpose intended will be permitted. However; this implies no right to substitute other materials or methods without written acceptance of the Engineer.

4-1.6.1 SUBSTITUTIONS

The following provisions are added to Section 4-1.6:

Installations of accepted substitutions are the Contractor's responsibility. Changes required for installation of accepted substitutions must be made to the satisfaction of Engineer and without additional cost to Owner. The burden of proof as to the suitability and quality of alternates is upon the Contractor, and the Contractor shall furnish all information necessary as required by the Engineer.

Requests for material and product substitutions shall be submitted to the Engineer within 20 working days of the Notice To Proceed and prior to acquiring or performing any work with such items.

The following table lists proprietary items that have no known equal to the City of San Leandro at this time. These items were specified to match existing items in place throughout the City. The contractor shall submit requests for substitutions on these items 10 days prior to bid opening so that the City may determine if such substitutions are acceptable. Acceptance of substitutions, if granted, will be made by project addendum. Note that not all proprietary items are listed here; this list contains only those whose substitutions must be identified at bid time.

Item	**Vendor –** **See plans / specifications for additional detail**
Drainage Inlet Trash Screens	West Coast Storm
Irrigation Controller	CalSense
Decorative Asphalt Imprinting	Integrated Paving Concepts
Tree Grates, Manhole lids, Irrigation System Components	As specified in City / County Standard Details
Traffic Signal Electrical Components	As specified

SECTION 5 - UTILITIES

Contractor's attention is directed to Section 5, "Utilities", of the Standard Specifications, except as modified herein.

5-1 LOCATION The third and fourth paragraphs of Section 5 of the Standard Specifications are revised as follows:

As provided in Section 4216 of the California Government Code, Contractor shall contact the Underground Service Alert (USA) of Northern California at 1-800-227-2600 and provide them the limits of work a minimum of 48 hours prior to starting excavation operations at a given location. In addition, Contractor shall submit each USA ticket number and OSHA Activity Notification Form, (including the submitted work limits, date, and time issued), to the Engineer prior to starting excavation operations at that location. Contractor shall also keep the applicable USA ticket open until completion of excavation operations at a given location.

The California Department of Transportation (Caltrans) is not required by Section 4216 to become a member of the regional notification center. If work is within a Caltrans Right-Of-Way (ROW), Contractor shall contact Caltrans for location of Caltrans' underground utilities. It should be noted that Caltrans marks the approximate locations of its utilities only as a "courtesy" and makes no assurances as to the accuracy of the markings. Contractor shall take additional measures to verify Caltrans utility markings.

Caltrans Electrical Maintenance: (510) 638-1201; (510) 268-4409

5-2 PROTECTION The following provisions are added to the end of the fourth paragraph of Section 5-2:

In addition to the requirements of Section 5-2 of the Standard Specifications, In the event of disturbance or damage to a sewer line to the extent that an emergency sewer point repair is required, the Contractor shall contact the Engineer (and Caltrans if in its ROW) immediately for additional instructions prior to beginning repairs.

Contractor shall protect the existing sanitary sewer system from blockages, surcharges, and overflows. Contractor shall not plug, reroute, or bypass flows that will cause undue stress on the system or cause overflows at the Water Pollution Control Plant (WPCP) or within the community. When pipeline cleaning operations are being performed, (per Section 500-1.1.4 of the Standard Specifications), debris and particulates shall be collected at the downstream manhole and removed from the pipeline. In addition, Contractor shall implement flow velocity reduction measures at a downstream manhole to maximize the collection of particulates and debris (i.e., use of a flow-through plug, grating, 'chain-ball,' weir, etc.).

Contractor shall manage all flows in the work area and notify the Engineer through a **SYSTEM OUTAGE REQUEST (SOR)**. Contractor shall submit the included SOR form on a weekly basis to the Engineer at least 48 hours prior to commencing the System Outage. All System Outage Requests shall include a sketch of the affected areas, bypass and plugging plans, flow and volume calculations, and a schedule of downtime and service restoration.

At least 30 minutes prior to concluding a System Outage, the Contractor shall again contact the Engineer and WPCP. The Contractor shall control the release of any sewage volumes stored in the system. No great rush of flows shall be allowed in any part of the system. The Contractor shall be responsible for any

damage caused by the uncontrolled discharge of high flows. The Contractor shall be held responsible for overburdening the sewer collection system and WPCP causing the discharge of sewage into the environment. Additionally, the Contractor shall reimburse the City for any fines levied by regulatory agencies due to spills, backups, or overflows resulting from the Contractor's failure to comply with the requirements herein.

WPCP Phone Numbers:

Monday – Friday	7:00 a.m. to 4:00 p.m.	(510) 577-3434
	After Hours	(510) 577-3459

City of San Leandro
Engineering & Transportation Department
Civic Center • 835 East 14th Street
San Leandro, California 94577-3782
510.577.3428 (voice)
510.577.3294 (fax)

SYSTEM OUTAGE REQUEST

To:	**Fax:**
Company: Water Pollution Control Plant (WPCP)	**Date**:
From:	**Phone**:
Re: System Outage Request – Notification	**Pages:**
Project:	
CC:	

☐ Urgent	☐ For Review	☐ Please Comment	☐ Please Reply	☐ For Your Info

Contractor: _____

Reason: _____

Duration: _____

Location: _____

Outage Description: _____

_____

_____

Contacts (24 hr.): _____

_____

_____

WPCP Phone #: 510-577-3434 After Hours#: 510-577-3459

☐ Original will not follow. ☐ Original will follow by:

- ☐ Regular Mail
- ☐ Federal Express/UPS
- ☐ E-mail/Other

SECTION 6 - PROSECUTION, PROGRESS AND ACCEPTANCE OF THE WORK

The prosecution of work, progress, and acceptance of work shall be done in accordance with Section 6, "Prosecution, Progress, and Acceptance of the Work", of the Standard Specifications, except as modified herein.

6-1 CONSTRUCTION, SCHEDULE AND COMMENCEMENT OF WORK In addition to the requirements of Section 6-1 of the Standard Specifications, the following shall also apply:

The Contractor shall not begin work until the Notice to Proceed is issued by the City. Contractor shall diligently prosecute the work to completion before the expiration of

170 working days.

The City shall begin charging working days on the fifth working day following the date of issuance of the Notice to Proceed.

Failure to complete the work within allotted working days shall subject the Contractor to liquidated damages in accordance with Section 6-9 of these Special Provisions.

Prior to the issuance of the Notice to Proceed, a pre-construction conference will be held at the office of the Engineer between the City and the Contractor. The purpose of this meeting shall be to discuss the scope of work, the plans and specifications, existing conditions, materials to be ordered, equipment to be used, and all essential matters pertaining to the prosecution of and satisfactory completion of the project as required. The Contractor's representatives at this conference shall include the project manager, superintendent, foremen, and major subcontractors. This pre-construction conference will be scheduled immediately after the contract agreement has been approved by the City.

Five (5) working days prior to the pre-construction conference, the Contractor shall submit six (6) copies of the following documents:

1. A preliminary construction schedule pursuant to Section 6-1 of the Standard Specifications in a form acceptable to the Engineer. At a minimum, the schedule will detail the proposed starting and proposed completion dates of the various activities, submittal schedule, procurement of materials, and scheduling of manpower and equipment, and a critical path of controlling operations. Subcontractors' schedules shall be incorporated into the general contractor's schedule.

   Within the first seven working days of this project, the Contractor shall submit a final construction schedule to the Engineer.

   All schedule changes shall be submitted to the Engineer prior to the revised tasks being performed. All changes are subject to any limitations placed on the order of work made by these specifications.

   A. City Review of Schedule. The City may review the Contractor's submitted schedule and may note any exceptions. The Contractor shall correct any exceptions noted by the City within five (5) working days of being notified of the exceptions. The City's acceptance of a schedule does not relieve the Contractor from sole responsibility for scheduling, sequencing, and pursuing the work to comply with the requirements of the contract documents. The City shall not accept any schedule that provides for a completion date earlier than the Time of Completion. The City shall not accept any project schedule or schedule of values shows that the Contractor has engaged in front-end loading. "Front-end loading" is defined as the overestimation of the cost of work to be

performed at the beginning of the project and underestimating the cost of work to be performed at the end.

B. Update of Schedule. After submission of a schedule to which the City has taken no exceptions, the Contractor shall submit an updated schedule monthly, or with each progress payment request, whichever is more frequent, or upon the request of the Engineer until completion of the work. The updated schedule shall include as-built information on the actual progress of work as of the date specified in the updated schedule and anticipated changes to planned activities.

C. Float. The schedule shall show early and late completion dates for each task. The number of days between these dates shall be designated as "float". Float shall be designated to the project and shall be available to both the City and the Contractor as needed.

D. Failure to Submit Schedule. If the Contractor fails to submit the schedule within the time period specified in this Section, or the updated schedule as specified in this Section, or submit a schedule to which the City has taken uncorrected exceptions, the City shall be entitled to withhold payment for the next application for payment submitted after the schedule or updated schedule becomes late until such time as an acceptable schedule or updated schedule is submitted to the City.

E. Responsibility for Schedule. The Contractor shall have sole and exclusive responsibility for creating the schedule and properly updating it. The City has no authority to approve the schedule. The City may note exceptions to any schedule submitted by the Contractor. However, it shall be the Contractor's sole responsibility to determine the proper method to address exceptions and the City's review of the schedule shall not serve to place any such obligation on the City. Whenever a schedule update shows a completion date beyond the Time of Completion, the Contractor shall submit a proposed recovery schedule to the City.

F. Submission of Schedules. Schedules and updated schedules shall be submitted in hard copy or in an electronic format. Contractor may use Microsoft Project, or other scheduling software, subject to the approval of the Engineer. The submission of a schedule in compliance with this section shall not relieve the Contractor of any other reporting requirements set forth in the contract documents.

G. Specification of "activity". As used in this Section, an "activity" is specified as follows:

1) Each activity shall be a unit of work that requires an amount of time for its performance not exceeding fifteen (15) days;

2) Each activity shall be a logically separate part of the work, defined by an observable start and an observable finish;

3) The scope of the activity shall be formed from the largest grouping of related operations that permit a continuous and measurable flow of work and that can proceed without affecting or being abetted by other activities;

4) The scope of the activity shall be small enough to permit a reasonable appraisal of its status.

2. Traffic Control Plans for each of the various stages and activities of construction, pursuant to Section 7-10.3 of the Special Provisions acceptable to the Engineer. Include all subcontractor operations and whether the general or subcontractor will perform traffic control.

Within the first seven (7) workdays of this project, the Contractor shall submit final Traffic Control Plans to the Engineer.

No change may be made to the final Traffic Control Plans unless approved by the Engineer.

3. Photocopies of current business licenses for Contractor and all listed subcontractors.

   EFFECT ON PROGRESS PAYMENT: Progress payments will not be approved until business licenses from the Contractor and all listed subcontractors have been submitted.

4. Sample flyers and/or door hangers pursuant to Section 7-10.1.2, "Public Notification".

5. The name, daytime phone number, and 24-hour emergency phone number of the Contractor's representatives(s) pursuant to Section 7-6 of the Standard Specifications.

6. All applicable permits.

7. For projects with an Engineer's Estimate in excess of $100,000, a completed "Debris Recycling Statement" stating the proposed final destination for all waste streams.

No work will be permitted until the Contractor has satisfactorily complied with all elements of this Section. Notwithstanding the foregoing, a Notice to Proceed may be issued to the Contractor on the day of the scheduled pre-construction meeting. The City shall start charging working days on the fifth working day following the issuance of Notice to Proceed. Contractor shall not be due additional compensation or working days due to non-compliance with this Section.

6-1.1 SEQUENCING OF CONSTRUCTION

The following Section shall be added to the Standard Specifications:

Contractor shall phase work to meet the following criteria:

1. **Existing bus access to the Bart Station shall be maintained at all times.**

2. **Sidewalk curb ramp work on the Davis / San Leandro Boulevard intersection, and on the East 14th Street intersections, shall close only one corner at a time to maintain pedestrian access during construction.**

3. **Safe pedestrian passage shall be provided from the Bart Station to West Estudillo Avenue, Davis Street, and West Juana Avenue at all times.**

4. **Street light illumination levels shall be maintained at current or better levels for the length of the project.**

5. **Palm trees shall be planted in the months of May through August, only.**

6. **No work shall be done on East 14th street between November 15th and January 15th.**

6-2 PROSECUTION OF WORK The following paragraph(s) are added to Section 6-2 of the Standard Specifications:

Prior to commencing construction the Contractor shall complete, to the satisfaction of the Engineer, the following:

1. Advisory Signs

2. Stationary Mounted Construction Area Signs
3. U.S.A. Notification
4. Public Notice Distribution
5. No Parking Signs placed
6. Utility Coordination/Installations

Unless otherwise noted, the Contractor shall execute the work in the order as follows:

1. Advisory Signs
2. Stationary Mounted Construction Area Signs
3. USA Notification
4. Public Notice Distribution
5. Reference iron, striping
6. Complete concrete repairs
7. Lower manholes and other structures
8. Excavate and grind
9. AC paving
10. Raise manholes and other structures to finish grade
11. Re-install traffic detection loops and detection wells
12. Striping layout (cat-tracking)
13. Final striping

6-5 TERMINATION Section 6-5 of the Standard Specifications is deleted and replaced with the following:

1. In addition to all other available remedies that the City may have under the agreement, and at law or equity, the City may terminate the Contractor's control of the work:

   A. If the Contractor or any of its subcontractors engaged in the performance of the work fails to timely perform the work or any of the Contractor's material obligations under the contract documents (including but not limited to, submission of an acceptable schedule) except due to reasons beyond the control of the Contractor pursuant to the contract documents.

   B. If the Contractor is adjudged bankrupt, or if it should make a general assignment for the benefit of creditors, or if a receiver should be appointed on account of its creditors.

   C. If the Contractor or any of the subcontractors engaged in the performance of the work persistently or repeatedly refuses or fails to supply enough properly skilled workers or proper materials for the timely completion of the work.

   D. If the Contractor fails to make prompt payment to subcontractors engaged in the performance of the work or for material or labor used in the performance of the work in accordance with the contract documents and applicable law.

   E. If the Contractor or any subcontractors engaged in the performance of the work persistently disregard laws or ordinances applicable to the performance of the work, or the instructions of the City, the construction manager, the architect, or other authorized representatives of the City.

   F. For any reason or for no reason, at the City's sole discretion.

2. If the City intends to terminate the Contractor's control of the work for any of the reasons specified in this section, the City will immediately serve written notice to the Contractor and its sureties. Notice

of the City's intent to terminate the Contractor's control of the work will be given by certified mail and will specify the grounds for termination, the required cure, if any, and the time by which the cure must be performed. Upon receipt of notice of the City's intent to terminate the Contractor's control of the work, the Contractor will have ten (10) days from receipt of the notice, or a longer time specified in the notice, to cure its default. If the Contractor does not perform the required cure by the time specified in the notice, the City will issue a written notice of termination to the Contractor and its sureties by certified mail. The notice of termination will specify:

A. That upon receipt of the notice the Contractor's right to perform or complete the work, including on behalf of the Contractor's sureties, is terminated;

B. That the Contractor's sureties will have the right to take over and complete the work and perform all of the Contractor's remaining obligations that have accrued under the agreement;

C. That if the Contractor's sureties do not both give the City written notice of their intention to take over and perform the agreement and commence completion of the work and performance of all of the Contractor's remaining obligations that have accrued under the agreement within ten (10) days after receipt of notice of termination, the City may declare the Contractor's sureties in default and take over the completion of the work, or have the work completed for the account and at the expense of the Contractor and its sureties, and the Contractor and its sureties will be liable to the City for any resulting excess cost.

3. The City may, in addition to all other available remedies that the City may have under the contract documents and at law or equity, deduct any such excess cost of completing the work from amounts that are due or that may become due the Contactor.

4. Upon termination of the Contractor's control of the work, the Contractor will, if so directed by the City, immediately remove from the work site any and all materials and personal property belonging to the Contractor that have not been incorporated in the work and the Contractor and its sureties will be liable upon their bond for all damages caused the City by reason of the Contractor's failure to complete the work.

5. The City reserves the right to refuse use of any Contractor assigned by any surety to complete the work.

6. If the City completes or has completed any portion of, or the whole of the work, following termination of the Contractor's control of the work, the City will neither be liable for nor account to the Contractor or the Contractor's sureties in any way for the time within which, or the manner in which such work is performed, or for any changes made in such work or for the money expended in satisfying claims, suits, or other obligations in connection with completing the work.

7. If, following termination of the Contractor's control, the unpaid balance of the contract price exceeds all costs of completing the work, the difference will be paid to the Contractor.

8. If the agreement or Contractor's control of the work is terminated for any reason, no allowances or compensation will be granted for the loss of any anticipated profit by the Contractor.

6-6.4 WRITTEN NOTICE AND REPORT Section 6-6.4 of the Standard Specifications is revised to read as follows:

If the Contractor desires payment for a delay as specified in Section 6-6.3 or an extension of time, the Contractor shall, within 15 days after the beginning of the delay, file with the City a written request and

report as to the cause and extent of the delay. Failure by the Contractor to file these items within the time specified will be considered grounds for refusal by the City to consider such requests.

Upon receipt of a written request for extension of time or payment, the Engineer shall ascertain the facts and the extent of the delay, and his findings thereon shall be final and conclusive.

6-7.2 WORKING DAYS The following is added to Section 6-7.2 of the Standard Specifications:

The Contractor's working day activities shall be limited to the hours between 7:00 a.m. and 6:00 p.m., Monday through Friday, excluding designated City holidays. This does not apply to lane closures (see Section 7-10.3 for lane closure restrictions). All work shall be completed within the specified working hours on each working day or the Contractor shall be responsible for payment of inspection overtime at the current inspector's hourly overtime rate, including travel time where applicable, with a minimum charge of one (1) hour.

No work on holidays or other non-working days will be permitted unless approved in writing by the Engineer. Working hours for work performed on non-working days (Saturday and Sunday), if permitted by the Engineer, shall be 8:00 a.m. to 7:00 p.m. unless otherwise approved in writing.

Deviation from normal working hours will not be allowed without prior written consent of the Engineer. In the event work is allowed by the Engineer outside of the normal working hours, at the written request of and for the benefit of the Contractor, inspection service fees shall be levied against the Contractor at the inspector's current hourly overtime rate, with a minimum charge of four (4) hours. The Contractor shall submit said written request no later than forty-eight (48) hours prior to the proposed work outside of the normal working hours.

The above charge may also be levied if inspection services are deemed necessary by the Engineer as a matter of public safety.

The following are the designated City holidays:

1. January 1 (New Year's Day).
2. The third Monday in January (Martin Luther King Jr.'s Birthday).
3. February 12 (Lincoln's Birthday).
4. The third Monday in February (Washington's Birthday).
5. The last Monday in May (Memorial Day).
6. July 4 (Independence Day).
7. The first Monday in September (Labor Day).
8. November 11 (Veterans' Day).
9. The fourth Thursday in November (Thanksgiving Day).
10. The day after Thanksgiving Day.
11. December 24 (Christmas Eve) through December 31 (New Year's Eve)

When a designated holiday falls on a Saturday, the preceding Friday shall be a designated holiday. When a designated holiday falls on a Sunday, the following Monday shall be a designated holiday.

Contractor's attention is hereby directed to Section 7-8, "Project Site Maintenance", and Section 7-10, "Public Convenience and Safety", of the Standard Specifications, regarding continuous project site maintenance and mud and dust control being provided 24 hours/day, 7 days/week.

The Contractor shall not be charged for a working day for days on which the Contractor is prevented by inclement weather or conditions resulting immediately therefrom adverse to the current controlling operation or operations, as determined by the Engineer, from proceeding with at least seventy-five percent (75%) of the normal labor and equipment force engaged on such operation or operations for at least sixty percent (60%) of the total daily time being currently spent on the controlling operation or operations.

Should the Contractor prepare to begin work at the regular starting time of any day on which inclement weather, or the conditions resulting from the weather, or conditions of the work, prevents the work from beginning at the usual starting time and the crew is dismissed as a result thereof, the Contractor will not be charged for a working day whether or not conditions should change thereafter during said day and the major portion of the day could be considered to be suitable for such construction operations.

The current controlling operation or operations is to be construed to include any feature of the work (e.g., an operation or activity, or a settlement or curing period) considered at the time by the Engineer and the Contractor, which, if delayed or prolonged, will delay the time of completion of the contract.

Determination that a day is a non-working day by reason of inclement weather or conditions resulting immediately therefrom shall be made by the Engineer. The Contractor will be allowed 15 days from the issuance of the Weekly Statement of Working Days in which to file a written protest setting forth in what respect Contractor differs from the Engineer, otherwise the decision of the Engineer shall be deemed to have been accepted by the Contractor as correct. The Engineer will furnish the Contractor a weekly statement showing the number of working days charged the preceding week, the number of working days remaining to complete the contract, and the date for completion thereof.

The Contractor will not be allowed any additional working days for any delay that does not affect the critical path as specified in the Contractor's schedule.

6-8 COMPLETION, ACCEPTANCE, AND WARRANTY The following is added to paragraph two (2) of Section 6-8 of the Standard Specifications:

Upon acceptance of the work and upon receipt and approval of the required documents (Record Drawing, Final Agreement of Quantities, Maintenance Bonds, Manufacturer Warranties, etc.) The Engineer will have a Notice of Completion recorded with the Alameda County Recorder's Office. All guarantee periods shall commence on date of said recordation.

The following paragraphs replace paragraph three (3) of Section 6-8 of the Standard Specifications:

GUARANTEE. The Contractor guarantees all of the work for one year from the date the City accepts the work. Upon receiving written notice of a need for repairs that are directly attributable to defective materials or workmanship, the Contractor must make good any defects arising or discovered in any part of the work by diligently commencing the necessary repairs within seven (7) days from the date of notice from the City. The guarantee and conditions shall be secured by a Maintenance Bond, as described in Section 2-4.

If the Contractor fails to make good any defects in the work in accordance with this provision, in addition to any other available remedy under the contract or at law or equity, the City may make good or have made good such defects in the work and deduct the cost from amounts that may be due or become due the

Contractor, and/or call on the Contractor's Maintenance Bond for the cost of making good such defects and for the City's reasonable legal costs, if any, of recovering against the bond.

Notwithstanding the preceding, the Contractor shall remain responsible for repairing any work found to be defective at its sole cost regardless of when such defect is discovered by the City.

In addition to the Contractor's one-year guarantee, and the Contractor's ongoing obligation to repair any defective work, upon completion of the project and as a condition of acceptance of the project, the Contractor must deliver to the Engineer all written manufacturer warranties from manufacturers and/or subcontractors that guarantee and warrant specific products and installations against defects in materials and workmanship for periods following acceptance of the project. Such manufacturer warranties, if required, shall be so indicated in sections under Part 2 "Construction Materials" of the Special Provisions.

6-9 LIQUIDATED DAMAGES Section 6-9 of the Standard Specifications is replaced with the \following:

Time is of the essence. The City and the Contractor agree that it will be difficult or impossible to determine the actual damage that the City will sustain in the event of the Contractor's failure to fully perform the work or to fully perform all of the Contractor's obligations that have accrued pursuant to the agreement by the time for completion. Accordingly, the City and the Contractor agree in accordance with California Government Code Section 53069.85 that the Contractor will forfeit and pay to the City liquidated damages in the sum of **$1,200.00 per day** for each and every calendar day completion of the work or performance of all of the Contractor's obligations that have accrued pursuant to the agreement is delayed beyond the time for completion. The City and the Contractor further agree in accordance with California Government Code Section 53069.85 that the liquidated damages sum specified in this provision is not manifestly unreasonable under the circumstances existing at the time the agreement was made, and that the City may deduct liquidated damages sums in accordance with this provision from any payments due or that may become due the Contractor under the agreement.

6-10 USE OF IMPROVEMENT DURING CONSTRUCTION The following paragraphs are added to the provisions of Section 6-10 of the Standard Specifications:

Contractor will not be allowed any compensation due to any delay, hindrance, or inconvenience to Contractor's operations caused by City's decision to take over all or part of any completed facility or appurtenance.

Full compensation for conforming to the requirements in this Section of the Special Provisions shall be considered to be included in the prices paid for the various contract items of work and no additional compensation will be allowed therefore.

SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR

Contractor's attention is directed to Section 7, "Responsibilities of the Contractor", of the Standard Specifications, except as modified herein.

7-2.2 LAWS The following sections are added to the provisions of Section 7-2.2 of the Standard Specifications:

7-2.2.1 HOURS OF LABOR Eight hours of labor constitutes a legal day's work. The Contractor shall forfeit, as a penalty to the City, $25.00 for each worker employed in the execution of the contract by the Contractor or any Subcontractor for each calendar day during which such worker is required or permitted to work more than eight (8) hours in any one calendar day and forty (40) hours in any one calendar week in violation of the provision of the Labor Code, and in particular, Section 1810 to Section 1815, thereof, inclusive, except that work performed by employees of Contractor in excess of eight (8) hours per day, and forty (40) hours during any one week, shall be permitted upon compensation for all hours worked in excess of eight (8) hours per day not less than one and one-half times the basic rate of pay, as provided in said Section 1815.

7-2.2.2 PREVAILING WAGE The City Council by Resolution No. 77-236 has adopted the general prevailing wage rates determined by the Director of Industrial Relations, State of California, to be part of this contract. The general prevailing wage rates applicable to the County of Alameda are listed in the publication entitled "General Prevailing Wage Rates". This document is hereby made part of this contract by reference. Copies of the current versions of this document are on file in the office of the City Clerk, City Hall, 835 East 14th Street, San Leandro, California.

The City will not recognize any claim for additional compensation because of payment by the Contractor of any wage in excess of the prevailing wage rates set forth in the General Prevailing Wage Rates which is part of this contract. The possibility of wage increases is one element to be considered by the Contractor in determining a bid, and will not under any circumstances be considered as a basis of claim against the City on the contract.

The Contractor shall comply with Labor Code Sections 1774 and 1775. The Contractor shall forfeit, as a penalty, $50.00 per each calendar day or portion thereof for each worker paid less than the stipulated prevailing rates in violation of the provisions of the Labor Code, and in particular Labor Code Sections 1770 to 1780 inclusive. In addition to said penalty, the difference between such stipulated prevailing wage rates and the amounts paid for each worker paid less than the stipulated prevailing wage rates shall be paid to each of said workers by the Contractor.

7-2.2.4 PAYROLL RECORDS The Contractor must comply with Labor Code Section 1776. The Contractor shall also be responsible for compliance by all Subcontractors.

The penalties specified in Subdivision (g) of the Labor Code Section 1776 for noncompliance with the provisions of said Section 1776 may be deducted from any moneys due or which may become due to the Contractor.

Contractor (including all subcontractors) shall subscribe to a web based labor compliance management service that automatically checks payroll data against prevailing wage requirements such as "Labor Compliance Management Service" by TRS Consultants (925) 275-9870, or approved equal. Contractor is responsible for paying the cost of this service.

Certified payroll records shall be submitted via computer and the internet for every person performing work, from any company, at the jobsite, including foremen, superintendents, and owners. Contractor is required to submit payroll records for truckers who transport waste from the site in accordance with California State Labor Code Section 1720.3. Payroll records must be submitted in a particular reporting format as determined by the vendor. The City shall be granted full access rights to view all records. Contractor is responsible for providing a computer, software, and internet connections as necessary to use this service.

A copy of all payrolls shall be submitted online when each progress payment application is submitted to the Engineer. Payrolls shall contain the full name, address, and social security number of each employee, their correct classification, rate of pay, daily and weekly number of hours worked, itemized deductions made, and actual wages paid. They shall also indicate apprentices and ratio of apprentices to journeymen. The employee's address and social security number need only appear on the first payroll on which their name appears. The payroll shall be accompanied by a "Statement of Compliance" signed by the employer or its agent indicating that the payrolls are correct and complete and that the wage rates contained therein are not less than those required by the contract. The "Statement of Compliance" shall be on forms furnished by the City or on any form with identical wording. The Contractor shall be responsible for submission of copies of payrolls of all subcontractors.

EFFECT ON PROGRESS PAYMENTS: If by the 15th of the month, the Contractor has not submitted satisfactory payrolls for all work performed during the monthly period ending on or before the 1st of that month, the City will retain an amount equal to ten percent (10%) of the estimated value of the work performed (exclusive of mobilization) during the month from the next monthly estimate, except that such retention shall not exceed $10,000 nor be less than $1,000. Retentions for failure to submit satisfactory payrolls shall be additional to all other retentions provided for in the contract. The retention for a failure to submit payrolls for any monthly period will be released for payment on the monthly estimate for partial payments following the date that all the satisfactory payrolls for which the retentions were made are submitted.

The Contractor and each subcontractor shall preserve their payroll records for a period of 3 years from the date of the acceptance of the project.

7-2.2.5 LABOR NON-DISCRIMINATION Contractor shall comply with the Affirmative Action/Non-Discrimination and Equal Employment requirements of the City.

1. During the performance of this contract, Contractor agrees as follows:

   A. Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, handicap, age, or national origin. Contractor will take affirmative action to ensure that applicants for employment are employed, and that employees are treated equally during employment, without regard to their race, color, religion, handicap, sex, sexual orientation, age, or national origin. Such action shall include but not be limited to the following: employment; upgrading; demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.

   B. Contractor will incorporate the above Affirmative Action/Non-Discrimination provisions in all subcontracts for services covered by this contract.

   C. <u>Minority and Female-Owned Business Enterprise.</u> In connection with the performance of this contract, Contractor shall comply with the City's current policies as required by State or Federal Law and/or use its best efforts to obtain the maximum utilization of minority and female-owned business enterprises based in San Leandro and ensure that minority and female-owned enterprises based in San Leandro shall have maximum practicable opportunity for subcontractor work under this contract.

   D. <u>General Employment Provisions Relating to Handicap/Disability Discrimination.</u> No qualified individual with a handicap or disability shall, solely on the basis of such handicap or disability, be subjected to discrimination in employment by Contractor.

   E. <u>Reports.</u> Contractor shall provide such reports and/or documents to City as reasonably requested demonstrating compliance with the terms hereof.

   F. Attention is directed to Section 1735 of the Labor Code, which reads as follows:

      "No discrimination shall be made in the employment of persons upon public works because of the race, religious creed, color, national origin, ancestry, physical handicap, medical condition, marital status, or sex of such persons, except as provided in Section 12940 of the Government Code, and

every contractor for public works violating this section is subject to all the penalties imposed for a violation of this chapter."

If the project is funded by fiscal assistance from another governmental entity, Contractor shall comply with all applicable rules and regulations of such fiscal assistance program incorporated into the Special Provisions.

7-3 LIABILITY INSURANCE Section 7-3, "Liability Insurance", of the Standard Specifications is revised to read as follows:

1. **INSURANCE REQUIREMENTS** Before beginning any work under this Agreement, Contractor, at its own expense, unless otherwise specified below, shall procure the types and amounts of insurance listed below against claims for injuries to persons or damages to property that may arise from or in connection with the performance of the work hereunder by the Contractor and its agents, representatives, employees, and subcontractors. Consistent with the following provisions, Contractor shall provide proof satisfactory to City of such insurance that meets the requirements of this section and under forms of insurance satisfactory in all respects, and that such insurance is in effect prior to beginning work for the City. Contractor shall maintain the insurance policies required by this section throughout the term of this Agreement. The cost of such insurance shall be included in the Contractor's bid. Contractor shall not allow any subcontractor to commence work on any subcontract until Contractor has obtained all insurance required herein for the subcontractor(s) and provided evidence that such insurance is in effect to City. Verification of the required insurance shall be submitted and made part of this Agreement prior to execution. Contractor shall maintain all required insurance listed herein for the duration of this Agreement.

   A. Workers' Compensation. Contractor shall, at its sole cost and expense, maintain Statutory Workers' Compensation Insurance and Employer's Liability Insurance for any and all persons employed directly or indirectly by Contractor. The Statutory Workers' Compensation Insurance and Employer's Liability Insurance shall be provided with limits of not less than $1,000,000.00 per accident. In the alternative, Contractor may rely on a self-insurance program to meet those requirements, but only if the program of self-insurance complies fully with the provisions of the California Labor Code. Determination of whether a self-insurance program meets the standards of the Labor Code shall be solely in the discretion of the Contract Administrator. The insurer, if insurance is provided, or the Contractor, if a program of self-insurance is provided, shall waive all rights of subrogation against the City and its officers, officials, employees, and volunteers for loss arising from work performed under this Agreement.

   B. Commercial General and Automobile Liability Insurance.

      1) General Requirements: Contractor, at its own cost and expense, shall maintain commercial general liability insurance for the term of this Agreement in an amount not less than $1,000,000.00 per occurrence and automobile liability insurance for the term of this Agreement in an amount not less than $1,000,000.00 per occurrence. If a Commercial General Liability Insurance or an Automobile Liability form or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to the work to be performed under this Agreement or the general aggregate limit shall be at least twice the required occurrence limit. Such coverage shall include but shall not be limited to, protection against claims arising from bodily and personal injury, including death resulting therefrom, and damage to property resulting from activities contemplated under this Agreement, including the use of owned and non-owned automobiles.

      2) Minimum Scope of Coverage: Commercial general coverage shall be at least as broad as Insurance Services Office Commercial General Liability occurrence form CG 0001 (most recent edition) covering comprehensive General Liability on an "occurrence" basis. Automobile coverage shall be at least as broad as Insurance Services Office Automobile Liability form CA 0001 (most recent edition), Code 1 (any auto). No endorsement shall be attached limiting the coverage.

      3) Additional Requirements: Each of the following shall be included in the insurance coverage or added as a certified endorsement to the policy:

a. The Insurance shall cover an occurrence or on an occurrence basis, and not on a claims-made basis.

b. City, its officers, officials, employees, and volunteers are to be covered as insureds as respects: liability arising out of work or operations performed by or on behalf of the Contractor; or automobiles owned, leased, hired, or borrowed by the Contractor.

c. For any claims related to this Agreement or the work hereunder, the Contractor's insurance coverage shall be primary insurance as respects the City, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the City, its officers, officials, employees, or volunteers shall be excess of the Contractor's insurance and shall not contribute with it.

d. Each insurance policy required by this clause shall be endorsed to state that coverage shall not be canceled by either party, except after 30 days' prior written notice has been provided to the City.

C. Builders Risk Insurance. None required.

D. Environmental Insurance. None required.

E. All Policies and Requirements.

1) Acceptability of Insurers: All Insurance required by this section is to be placed with insurers with a Bests' rating of no less than A:VII.

2) Verification of Coverage: Prior to beginning any work under this Agreement, Contractor shall furnish City with complete and legible copies of certificates of insurance evidencing all policies delivered to Contractor by the insurer, including complete copies of all endorsements attached to those policies. All copies of certificates of insurance and endorsements shall show the signature of a person authorized by that insurer to bind coverage on its behalf. If the City does not receive the required insurance certificates and endorsements prior to the Contactor beginning work, it shall not waive the Contractor's obligation to provide them. The City reserves the right to require complete copies of all required insurance policies and endorsements at any time.

3) Deductibles and Self-Insured Retentions: Contractor shall disclose to and obtain the written approval of City for the self-insured retentions and deductibles before beginning any of the services or work called for by any term of this Agreement. At the option of the City, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the City, its officers, employees, and volunteers; or the Contractor shall provide a financial guarantee satisfactory to the City guaranteeing payment of losses and related investigations, claim administration and defense expenses.

4) Wasting Policies: No policy required by Section 7.3 shall include a "wasting" policy limit (i.e. limit that is eroded by the cost of defense).

5) Waiver of Subrogation: Contractor hereby agrees to waive subrogation which any insurer or contractor may require from vendor by virtue of the payment of any loss. Contractor agrees to obtain any endorsements that may be necessary to affect this waiver of subrogation. Also, the Workers' Compensation policy shall be endorsed with a waiver of subrogation in favor of the entity for all work performed by the Contractor, its employees, agents, and subcontractors.

6) Subcontractors: Contractor shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated herein.

F. Remedies. In addition to any other remedies City may have if Contractor fails to provide or maintain any insurance policies or policy endorsements to the extent and within the time herein required, City may, at its sole option exercise any of the following remedies, which are alternatives to other remedies City may have and are not the exclusive remedy for Contractor's breach:

- Obtain such insurance and deduct and retain the amount of the premiums for such insurance from any sums due under the Agreement;

- Order Contractor to stop work under this Agreement or withhold any payment that becomes due to Contractor hereunder, or both stop work and withhold any payment, until Contactor demonstrates compliance with the requirements hereof; and/or
- Terminate this Agreement.

G. Encroachment Permit Requirements. Contractor shall take permit rider for encroachment permits from BART and Caltrans; see Attachments A and B to these Special Provisions. Contractor shall possess or obtain the required insurance coverage as required by the permit requirements of these agencies.

2. INDEMNIFICATION AND CONTRACTOR'S RESPONSIBILITIES: Contractor shall take all responsibility for the work, shall bear all losses and damages directly or indirectly resulting to Contractor, to any subcontractor, to the City, to City officers and employees, or to parties designated by the City on account of the performance or character of the work, unforeseen difficulties, accidents, occurrences, or other causes predicated on active or passive negligence, or the willful misconduct, of the Contractor or of any subcontractor. Contractor shall indemnify, defend, and hold harmless the City, its officers, officials, directors, employees, and agents from and against any or all loss, liability, expense, claim, costs (including costs of defense), suits, and damages of every kind, nature and description directly or indirectly arising from the performance of the work. This paragraph shall not be construed to exempt the City, its employees, and officers from its own fraud, willful injury or sole active negligence. By execution of this agreement, Contractor acknowledges and agrees that Contractor has read and understands the provisions hereof and that this paragraph is a material element of consideration.

Approval of the insurance contracts does not relieve the Contractor or subcontractors from liability under this paragraph.

A. Responsibility for Damage. The Contractor is solely responsible to protect the work, including site security, until project acceptance. The Contractor shall have the charge and care of the work, including materials, whether incorporated into the work or not, and shall bear the risk of injury, loss or damage to any part thereof by the action of the elements, vandalism, theft or any other cause, whether arising from the execution or from the non-execution of the work. The City of San Leandro and all officers and employees thereof connected with the work, including but not limited to the Engineer, shall not be answerable or accountable in any manner for any loss or damage that may happen to the Work or any part thereof; for any loss or damage to any of the materials or other things used or employed in performing the Work; for injury to or death of any person, either worker or public; or for damage to the Work or any property from any cause that might have been prevented by the Contractor, Contractor's workers, or anyone employed by the Contractor.

B. Contractor Response to Potential Claims. In the event damage or injury to persons or property are suffered by a third party (i.e. not City employees, contractors, consultants, subcontractors, volunteers or Contractor's employees, consultants, subcontractors, or invitees) and such third party contacts the City for recovery or restitution for damages, City shall forward such party and all information received from them to Contractor for response. Contractor shall receive such information, and respond to the injured party within seven (7) calendar days, with a copy of the response to City, which could include but is not limited to including, any settlement, compromise or response plan formulated. If the matter remains unresolved, such that City representatives are contacted by the same aggrieved party, or if Contractor shall have rejected the damage claims, then City shall take all reasonable steps to respond to the claim, which may include tendering the damage claim to Contractor pursuant to the Contractor's indemnity clause. Failure of Contractor to be responsive to third party damage claims under this provision may be grounds for breach of contract, wherein remedies of such breach may include but are not limited to withholding of progress payments.

C. Failure to Maintain Insurance. During the term of this agreement and until final completion and acceptance of the work by the City, the Contractor shall maintain in full force and effect insurance coverage in the forms and amounts specified in the Contract and any Special Provisions. If at any time

during the performance of this contract, Contractor fails to maintain any item of required insurance in full force and effect, Contractor shall immediately discontinue all work under the contract and the City will withhold all contract payments due or that become due until notice is received by City that such insurance has been restored in full force and effect and that the premiums therefore have been paid for a period satisfactory to the City. Any delay to the work or the project shall be borne by and attributable to the Contractor and its failure to maintain or adhere to these insurance requirements.

D. PERS Benefits. In the event that Contractor or any employee, agent, or subcontractor of Contractor providing services under this Agreement is determined by a court of competent jurisdiction or the California Public Employees Retirement System (PERS) to be eligible for enrollment in PERS as an employee of City, Contractor shall indemnify, defend, and hold harmless City for the payment of any employee and/or employer contributions for PERS benefits on behalf of Contractor or its employees, agents, or subcontractors, as well as for the payment of any penalties and interest on such contributions, which would otherwise be the responsibility of the City.

7-5 PERMITS Contractor's attention is directed to Section 7-5 of the Standard Specifications.

In addition to the requirements of Section 7-5, "Permits", of the Standard Specifications, the following requirements shall also apply:

CITY PERMITS: Prior to commencement of work, the Contractor shall obtain all applicable permits from the Building Regulations Division of the Community Development Department. Contractor will not be required to pay City permit fees. The following City permits are required:

Electrical Building Permit

OTHER PERMITS: Contractor shall obtain and pay for State and County permits, and permits from other jurisdictions that may be required for the project. Contractor shall pay fees associated with such permits. The following State, County, or other agency permits are required for this project:

Caltrans Encroachment Permit
Bart Encroachment Permit

The Contractor shall be compensated for the actual costs of permits (without mark-up) under this section, as a change order, upon submittal of receipts.

The Contractor shall comply with all conditions set forth in permits and agreements, and shall bear the full costs of all expenses incurred in such compliance.

The Contractor's attention is directed to Section 2-11 of these Special Provisions regarding the responsibility for required permit inspections.

The Contractor represents and warrants to City that Contractor has all licenses, permits, qualifications, and approvals of whatsoever nature that are legally required for Contractor to practice Contractor's profession. Contractor represents and warrants to City that Contractor shall, at its sole cost and expense, keep in effect at all times during the term of this agreement any licenses, permits, and approvals that are legally required for Contractor to practice its profession.

Failure to submit said documents and/or certifications shall result in delayed acceptance of any associated City project until these documents are submitted. Only certified persons submitted on job site or project shall be shut down.

CITY BUSINESS LICENSE: The Contractor and all listed Subcontractors shall submit evidence of a current City of San Leandro Business License in accordance with Section 6-1 of these Special Provisions.

7-6 THE CONTRACTOR'S REPRESENTATIVE The following paragraphs are added to Section 7-6 of the Standard Specifications:

INDEPENDENT CONTRACTOR: At all times during the term of this agreement, Contractor shall be an independent contractor and shall not be an employee of City. City shall have the right to control Contractor only insofar as the results of Contractor's services rendered pursuant to this agreement.

CONTRACTOR NO AGENT: Except as City may specify in writing, Contractor shall have no authority, expressed or implied, to act on behalf of City in any capacity whatsoever as an agent. Contractor shall have no authority, expressed or implied, pursuant to this agreement to bind City to any obligation whatsoever.

ASSIGNMENT PROHIBITED: No party to this agreement may assign any right or obligation pursuant to this agreement. Any attempted or purported assignment of any right or obligation pursuant to this agreement shall be void and of no effect.

REPRESENTATIVE AT WORK SITE: The Contractor's representative shall be present and immediately available to the Engineer at the work site whenever work (INCLUDING THAT OF SUBCONTRACTORS) is in progress or whenever actions of the elements necessitate Contractor's presence to take measures necessary to protect the work, persons, or property, or provide for the public's convenience. The Contractor's representative shall be a competent full-time non-working superintendent or non-working foreman, satisfactory to the Engineer, to supervise and be responsible for all Contractor and/or subcontractor crews and shall not be directly involved in the performance of the work or tasks at hand. Individual crew superintendent/foreman and/or working superintendent/foreman will not be acceptable.

At the City's option, work may be suspended until the Contractor has complied with this paragraph. Contractor shall not be due additional compensation or working days due to non-compliance with this paragraph.

7-8 PROJECT SITE MAINTENANCE The following paragraphs are added to Section 7-8 of the Standard Specifications:

MAINTENANCE REQUIREMENTS: All maintenance requirements shall apply continuously (24 hrs./day, 7 days/week) and shall not be limited to normal working days. Adequate personnel and equipment shall be provided daily.

Full compensation for compliance with this section shall be considered to be included in the contract prices paid for the various items of work and no separate compensation will be made therefore.

7-8.1 CLEANUP AND DUST CONTROL The following paragraphs are added to Section 7-8.1 of the Standard Specifications:

All excess material shall become the property of the Contractor to be legally disposed of off City property in accordance with Section 7-8.1.1 below.

7-8.1.1 RECYCLING OF CONSTRUCTION MATERIAL The following requirements are added to Section 7-8.1 of the Standard Specifications:

All excess material shall become the property of the Contractor. Such material shall be legally handled, transported, and recycled or disposed of off City property in accordance with Chapter 3-7 of the San Leandro Municipal Code "Construction and Demolition Debris Waste Reduction and Recycling Requirements"

Contractor shall recycle all asphalt and concrete waste, as well as recycle 50% of the remaining construction debris. Contractor shall use one of the following methods to recycle debris:

Separate materials on-site and:

a. Self-haul the materials to a recycling facility -or-
b. Use debris boxes obtained from the City's franchised waste hauler, ACI.

Do not separate materials:

a. Self-haul mixed loads to a mixed C&D recycling facility -or-
b. Use a debris box obtained from the City's franchised waste hauler (Contractor must inform the hauler of the intent to comply with the City of San Leandro's C&D Ordinance prior to obtaining the box)

Use a State licensed construction clean-up contractor (classification D63) to separate the materials on site and deliver to local recycling facilities.

The following companies are accepted as Mixed C&D recycling facilities for the purpose of this section:

1. Davis Street Transfer Station 2615 Davis St, San Leandro (510) 638-2303	5. Newby Island Landfill 1601 Dixon Landing Rd, Milpitas, (408) 262-1401
2. Fremont Recycling & Transfer Station 41149 Boyce Rd, Fremont, (510) 252-0500	6. Recology of San Francisco 501 Tunnel Ave, San Francisco, (415) 330-1400
3. Vasco Road Landfill & Recycling 4001 N. Vasco Rd, Livermore, (925) 447-0491	7. Zanker Material Processing Facility 675 Los Esteros Rd, San Jose, (408) 263-2384
4. Marin Resource Recovery Center 565 Jacoby St, San Rafael, (415) 485-5646	8. Guadalupe Materials Recovery Facility 15999 Guadalupe Mines Rd, San Jose, (408) 268-1670

The following company is the franchised waste hauler authorized to provide debris boxes within the portion of the City of San Leandro containing this project.

Alameda County Industries (ACI)
510-357-7282
www.alamedacountyindustries.com

Per sections 3-6-320 and 3-6-340 of the San Leandro Municipal Code, contractors cannot obtain construction & demolition (C&D) debris box service from anyone other than the City's franchised waste hauler regardless of whether the material is intended for disposal, recycling, composting or otherwise.

Contractor shall demonstrate compliance with this section by completing and submitting a Waste Management Plan online with Green Halo Systems (www.greenhalosystems.com or at 1-888-525-1301). Contractor shall create an account with Green Halo and enter project information within 30 days of the notice to proceed. Contractor shall upload recycling and disposal receipts at least once every 30 days thereafter. Contractor shall complete and submit the waste management report before asserting project completion.

7-8.4 SANITATION The following is added to Section 7-8.4 of the Standard Specifications:

Contractor is also required to comply with Section 5-2 of these Special Provisions regarding any interruption of sanitary sewer services.

7-8.6 WATER POLLUTION CONTROL The following paragraphs are added to Section 7-8.6 of the Standard Specifications:

7-8.6.1 GENERAL The intent of these requirements is to enforce federal, state, and other local agency regulations that prohibit storm water pollution at construction sites. Storm drains discharge directly to creeks and the San Francisco Bay without treatment, and therefore, discharge of pollutants (i.e., any substance, material, or waste other than uncontaminated storm water) into the storm drain system is strictly prohibited.

In this section, the term "storm drain system" shall include storm water conduits, storm drain inlets and other storm drain structures, street gutters, channels, watercourses, creeks, lakes, and the San Francisco Bay.

For the purpose of eliminating storm water pollution, the Contractor shall implement effective control measures at construction sites. There are several publications that provide guidance on selecting and implementing effective control measures known as Best Management Practices (BMPs). BMPs include schedules of activities, prohibition of practices, general good housekeeping practices, operational practices, pollution prevention practices, maintenance procedures, and other management procedures to prevent the discharge of pollutants directly or indirectly to the storm drain system. BMPs also include the construction of some facilities that may be required to prevent, control, and abate storm water pollution. The reference publications are as follows:

California Storm Water Best Management Practice Handbook - Industrial/Commercial
California Storm Water Best Management Practice Handbook - Construction Activity

7-8.6.2 MATERIAL STORAGE Storage and exposure of raw material, by-products, finished products, and containers shall be controlled as described below:

All construction materials shall be stored at least ten feet away from inlets, catch basins, and curb returns. The Contractor shall not allow any material to enter the storm drain system. At the end of each working day, the Contractor shall collect and dispose of all scrap, debris, and waste material.

During wet weather or when rain is in forecast, the Contractor shall store materials that can contaminate rainwater or be transported by storm water or other runoff to the storm drain system inside a building or cover them with a tarp or other waterproof material secured with weighted tires or sandbags to prevent contact with rain.

The Contractor is reminded that storage and disposal of all hazardous materials such as paints, thinners, solvents, and fuel; and all hazardous wastes such as waste oil must meet all federal, state, and local standards and requirements.

7-8.6.3 DEWATERING OPERATIONS Prior to discharging into the storm drain system, all groundwater removed from a trench must be de-silted through filtering materials and methods meeting the Association of Bay Area Governments (ABAG) Standards for Erosion and Sediment Control Measures and/or through methods and procedures described in the California Storm Water Best Management Practice Handbook—Construction Activity (latest edition).

The Contractor shall reuse the water for other needs, such as dust control and irrigation, to the maximum extent practicable.

7-8.6.4 PAVEMENT SAW-CUTTING OPERATIONS The Contractor shall prevent any saw-cutting debris from entering the storm drain system. The Contractor, preferably, shall use dry cutting techniques and sweep up residue. If wet methods are used, the Contractor shall vacuum slurry as cutting proceeds or collect all wastewater by constructing a sandbag sediment barrier. The bermed area shall be of adequate size to collect all wastewater and solids. The Contractor shall allow collected water to evaporate if the wastewater volume is minimal and if maintaining the ponding area does not interfere with public use of the street area or create a safety hazard. If approved by the Engineer, the Contractor may direct or pump saw-cutting wastewater to a dirt area and allow to infiltrate. The dirt area shall be adequate to contain all the wastewater. After wastewater has infiltrated, all remaining saw-cutting residue must be removed and disposed of properly. With the approval of the Engineer, de-silted water may be pumped to the sanitary sewer to assist in the evaporation or infiltration process. Remaining silt and debris from the ponding or bermed area shall be removed or vacuumed and disposed of properly. If a suitable dirt area is not available or discharge to the sanitary sewer is not feasible, with the approval of the Engineer, the Contractor shall filter the saw-cutting wastewater through filtering materials and methods meeting ABAG Standards for Erosion and Sediment Control Measures (latest edition) before discharging to the storm drain.

7-8.6.5 PAVEMENT OPERATIONS The Contractor shall prevent the discharge of pollutants from paving operations by using measures to prevent run-on and runoff pollution, properly disposing of wastes, and by implementing and following Best Management Practices:

No paving during wet weather.

Store materials as required under 7-8.6.2.

Cover inlets and manholes when applying asphalt, seal coat, tack coat, slurry seal, fog seal, etc.

Place drip pans or absorbent materials under paving equipment when not in use. During wet weather, store contaminated paving equipment indoors or cover with tarp or other waterproof covering.

Sweep site daily to prevent sand, gravel, or excess asphalt from entering or being transported by rain into the storm drain system.

Keep ample supplies of drip pans or absorbent materials on-site.

If paving involves Portland cement concrete, refer to 7-8.6.6.

CONCRETE OPERATIONS The Contractor shall prevent the discharge of pollutants from concrete operations by using measures to prevent run-on and runoff pollution, properly disposing of wastes, and by implementing and following Best Management Practices:

Store all materials in waterproof containers or under cover away from drain inlets or drainage areas.

Avoid mixing excess amounts of Portland cement materials.

Do not wash out concrete trucks into storm drains, open ditches, streets, streams, etc. Whenever possible, perform washout of concrete trucks offsite where discharge is controlled and not permitted to discharge to the storm drain system. For onsite washout:

Locate washout area at least 50 feet from storm drains, open ditches, or other water bodies, preferably in a dirt area. Prevent runoff from this area by constructing a temporary pit or bermed area large enough for the liquid and solid waste.

Wash out concrete wastes into the temporary pit where the concrete can set, be broken up, and then be disposed of properly. If the volume of water is greater than what will allow concrete to set, allow the wash water to infiltrate and/or evaporate, if possible. Otherwise, allow water to settle, filter it, and then pump it to the sanitary sewer with approval from the Engineer. Remove or vacuum the remaining silt and debris from the ponding or bermed area and dispose of it properly.

Dispose of wastewater from washing of exposed aggregate to dirt area. The dirt area shall be adequate to contain all the wastewater, and once the wastewater has infiltrated, any remaining residue must be removed. If a suitable dirt area is not available, then the Contractor shall filter the wash water through straw bales or other filtering materials meeting ABAG Standards for Erosion and Sediment Control Measures before discharging to the sanitary sewer with approval from the Engineer.

Collect and return sweepings from exposed aggregate concrete to a stockpile or dispose of the waste in a trash container.

7-8.6.7 GRADING AND EXCAVATION OPERATIONS The Contractor shall implement sedimentation and erosion control measures to prevent sediments or excavated material from entering the storm drain system.

The erosion and sedimentation control materials and methods shall be in accordance with ABAG Standards for Erosion and Sediment Control Measures and/or the procedures and methods described in the California Storm Water Best Management Practice Handbook—Construction Activity (latest edition).

At a minimum, the Contractor shall install filter materials (such as sandbags, filter fabric, etc.) at the storm drain inlet(s) located in and downstream of the project site between October 15 and April 15, and when rain is forecast within 24 hours. The Contractor shall install filter materials or seal all surface inlet openings during the dry season if there is potential for sediment or excavated material to be discharged to the storm drain system during the construction operation (e.g., sediments and debris tracked by construction vehicles, wind blown, or transported by other runoff). The storm drain inlets shall be sealed in such a manner that they can be opened in an emergency and unblocked at the end of each working day so that no property is damaged as a result of accidents or other overflows.

Sedimentation and erosion control/filter materials shall be placed in a manner that will prevent any debris or sediment from flowing into the storm drain system. Said materials or control devices shall also be maintained and/or replaced as necessary to ensure effective sediment control and prevent flooding.

SPILL PREVENTION AND CONTROL The Contractor shall take any and all precautions to prevent accidental spills during the work under this contract. However, in the event of a spill:

The Contractor shall immediately contain and prevent leaks and spills from entering the storm drain system, and properly clean up and dispose of the waste and clean up materials. If waste is hazardous, the Contractor shall comply with all federal, state, and local hazardous waste requirements.

The Contractor shall not wash any spilled material into the streets, gutters, storm drains, or creeks.

The Contractor shall report any hazardous materials spills immediately to the San Leandro Fire Department, the Alameda County Hazardous Materials Division, and other state and local agencies as required by state and local regulations.

VEHICLE/EQUIPMENT CLEANING The Contractor shall not perform vehicle or equipment cleaning on-site or in the street using soaps, solvents, de-greasers, steam cleaning equipment, or equivalent methods. The Contractor shall perform vehicle or equipment cleaning with water only in a designated, bermed area that will not allow rinse water to run offsite or into the storm drain system. The rinse water shall be permitted to infiltrate into a dirt area or shall be discharged to the sanitary sewer with the approval of the Engineer.

The Contractor shall dispose of wash water from the cleaning of water based paint equipment and tools in the sanitary sewer.

If using oil based paint, to the maximum extent practicable, the Contractor shall filter the paint thinner and solvents for reuse, and dispose of the waste thinner, solvent, and sludge from cleaning of equipment and tools as hazardous waste.

CONTRACTOR TRAINING AND AWARENESS The Contractor shall train all employees on the water pollution prevention requirements contained in these specifications. The Contractor shall inform all subcontractors of the water pollution prevention contract requirements and include appropriate subcontract provisions to ensure that these requirements are met.

The Contractor shall paint new catch basins, constructed as part of the project, with "No Dumping Drains to Bay." Stencils for this purpose are available from the Engineer.

GOOD HOUSEKEEPING PRACTICES The Contractor shall implement the following applicable good housekeeping practices:

Store materials that have the potential to be transported to the storm drain system, by storm runoff or by a spill, under cover in a contained area or in sealed waterproof containers.

Use tarps on the ground to collect fallen debris or splatters that could contribute to storm water pollution.

Secure opened bags of cement and of other light or powdered materials that can be transported by wind.

Pick up litter, construction debris, and other wastes daily from outside areas including the sidewalk area, gutter, street pavement, and storm drains impacted by the project. All wastes shall be stored in covered containers or disposed of or recycled immediately.

Dispose of wash water to the sanitary sewer with the approval of the Engineer or recycle wash water. Refer to 7-8.6.9.

Inspect vehicles and equipment arriving on-site for leaking fluids, and promptly repair leaking vehicles and equipment. Use drip pans to catch leaks until repairs are made.

Avoid spills by handling materials carefully. Keep a stockpile of spill materials, such as rags or absorbents, readily accessible onsite. Clean up all spills immediately to prevent any material from being discharged to the storm drain system. Refer to 7-8.6.8.

Train employees regularly on good housekeeping practices and BMPs. Assign responsibility to specific employees on BMPs, good housekeeping practices, and what to do in the event of a spill. Refer to 7-8.6.10.

Maintain and replace all sediment and water pollution control devices as necessary to ensure that said controls are working effectively (e.g., inspect all sediment ponds or sandbag sedimentation/filtering

systems after each rain, and remove accumulated sediment and debris, and replace or repair damaged sandbags immediately).

PAYMENT Unless a separate pay item is provided in the bid schedule, full compensation for compliance with this section shall be considered to be included in the contract prices paid for various items of work and no separate compensation will be made therefore.

7-8.6.13 ENFORCEMENT The City has the authority, through various sections of the San Leandro Municipal Code, to enforce any portion of this section. City enforcement may include, but is not limited to: citations, orders to abate, bills for City cleanup costs and administration, civil suits, and criminal charges. Enforcement action by the City does not void or suspend any enforcement actions by other agencies.

7-8.8 SOUND CONTROL REQUIREMENTS The following Section is added to Section 7-8 of the Standard Specifications:

The noise level from the Contractor's operations, between the hours of 9:00 p.m. and 6:00 a.m. shall not exceed 89 dBA at a distance of 50 feet. This requirement in no way relieves the Contractor from responsibility for complying with Section 4-1-1115(b) of the San Leandro Municipal Code concerning construction-related noise near residences.

Said noise level requirement shall apply to all equipment on the job or related to the job, including, but not limited to, trucks, transit mixers, or transient equipment that may or may not be owned by the Contractor. The use of loud sound signals shall be avoided in favor of light warnings, except those required by safety laws for the protection of personnel.

Full compensation for conforming to the requirements of this section shall be considered to be included in the prices paid for the various contract items of work involved and no additional compensation will be allowed therefore.

7-10 PUBLIC CONVENIENCE AND SAFETY

7-10.1 TRAFFIC AND ACCESS The Contractor's attention is directed to Standard Plan 610 showing truck routes in the City of San Leandro.

The following paragraph is added to Section 7-10.1 of the Standard Specifications:

Contractor shall not obstruct public pedestrian pathways with construction material or equipment.

7-10.1.1 PEDESTRIAN ACCESS Pedestrian travel shall be maintained at all times along both sides of the street (or streets) under construction. All temporary pedestrian walkways shall be at least 4 feet wide and fully accessible to handicapped pedestrians in accordance with the Americans with Disabilities Act and California Title 24. In all cases, pedestrian walkways shall be separated from vehicular travel by a clear area of at least 6 feet, or in locations where 6 feet of horizontal separation for pedestrian traffic is not feasible, by raised curb, a raised wooden walkway with standard railings, or by K rails. This condition may be modified or waived by the Engineer upon written request by the Contractor. Provisions to activate pedestrian signal indications will be made in all instances where pedestrian access to the existing pedestrian push-button cannot be maintained. Existing lighting levels in the area prior to construction shall be maintained during construction.

Full compensation for compliance with this section shall be considered to be included in the contract price for traffic control and no separate payment will be made therefore. When the contract does not include a contract pay item for traffic control, full compensation for compliance with this section shall be

considered to be included in the prices for the various contract items of work involved and no additional compensation will be allowed therefore.

7-10.1.2 PUBLIC NOTIFICATION The Contractor shall provide door hangers or flyers to inform adjacent homeowners, tenants, and businesses of any work, no parking zones, street closures, detours, or barricades that are to occur on their street. Door hangers or flyers are to be submitted at the pre-construction meeting in accordance with Section 6-1 for review. Door hangers shall be a minimum of 3 inches by 11 inches and flyers are to be a minimum of 8-1/2 inches by 11 inches. Contractor shall re-notify public immediately upon any cancellation or revision in schedule, including changes caused by inclement weather.

Full compensation for conforming to the requirements of this section shall be considered to be included in the prices paid for the various contract items of work involved and no additional compensation will be allowed therefore.

7-10.2 STORAGE OF EQUIPMENT AND MATERIALS IN PUBLIC STREETS Construction materials shall not be stored in streets, roads, highways, or on public property. All materials or equipment used in construction shall be stored elsewhere by the Contractor at its expense.

Construction equipment shall not be stored at the work site except during its actual use on the work. Excavated material shall not be stored in public streets unless otherwise permitted. All excess material shall be removed immediately from the site.

Full compensation for conforming to the requirements of this section shall be considered to be included in the prices paid for the various contract items of work involved and no additional compensation will be allowed therefore.

7-10.2.1 CONSTRUCTION STAGING/STOCKPILE LOCATION: The Contractor shall secure for use during the duration of the project, property equipment storage for stockpiling materials and other construction related activities. The Contractor shall submit a letter indicating the staging area location, the property owner's name, address, and phone number, and the owner's signed consent for the use of the property for the duration of the project. Prior to property owner granting permission for occupancy, a Use Permit indicating proper zoning shall be obtained from the City's Community Development Department, Planning Division in accordance with Section 7-5 of these Special Provisions. Contractor shall be subject to trespassing laws for non compliance to these provisions.

7-10.3 STREET CLOSURES, DETOURS, AND BARRICADES The following paragraphs are added to Section 7-10.3 of the Standard Specifications:

7-10.3.1 RESTRICTED PARKING The Contractor may establish "No Parking" zones contiguous to the work area by posting signs supplied by the City as follows:

- Only City signs, marked with broad tip marker pen.
- Signs shall be placed at less than 100-foot spacings.
- Signs shall be placed a minimum of 72 hours, and a maximum of 96 hours, in advance of the required restriction period.
- Signs shall be accurately dated ONLY for the actual duration of the specific task(s) at hand.
- Signs shall be placed ONLY along frontages directly affected by the work or as required for public safety.

- Signs shall be re-posted/re-dated immediately due to revisions of schedule, including changes caused by inclement weather.
- Signs and barricades shall be removed immediately upon expiration of the dated duration of the work.

The City will enforce parking restrictions ONLY when the Contractor has properly posted the signs and has notified the Engineer a minimum of 72 hours in advance of the requested restriction period.

7-10.3.2 STREET CLOSURES AND ACCESS Access for local residents and businesses and all private property shall be maintained at all times. Signs shall be placed in front of commercial and industrial driveways to allow continual access. At the end of each working day, these streets shall be reopened to through traffic with proper barricades, warning devices, and temporary striping. The Contractor shall furnish and maintain all signs, lights, barricades, and flaggers necessary as determined by the Engineer. If these streets are closed, the Contractor shall proceed expeditiously and with consideration for public convenience from the start of work to its completion.

Lane closures shall conform to the provisions of the standard Special Provisions, these Special Provisions, and the lane closure chart(s) included in this section.

LANE CLOSURE REQUIREMENTS and HOURS OF WORK

CHART NO. 1

LOCATION: San Leandro Blvd – Davis St to Williams St | **DIRECTION OF TRAVEL: SB**

FROM HOUR to HOUR	a.m. 12	1	2	3	4	5	6	7	8	9	10	11	p.m. 12	1	2	3	4	5	6	7	8	9	10	11
Mondays through Thursdays	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2
Fridays	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2
Saturdays	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2
Sundays	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2

Flashing Arrow Board Required (circle one): YES ☒ NO ☐

LEGEND:

0 - Roadway may be closed in direction of travel.
1 - Provide at least one through lane open in direction of travel.
2 - Provide at least two through lanes open in direction of travel.
3 - Provide at least three through lanes open in direction of travel.
W - No lane closure permitted; work permitted anywhere that does not require lane closure.
X - No lane closure permitted; no work permitted on roadway.

REMARKS: Pedestrian and vehicular access to Bart Station and parking lots to be maintained at all times.

Approved by Traffic Operations Engineer: Richard N. Chan **Date:** 09/04/12

Note: Minor deviations from the requirements of this section concerning lane closure hours that do not change the cost of the work may be permitted upon the written request of the Contractor, if in the sole opinion of the Engineer, public traffic will be better served and the work expedited. These deviations shall not be adopted by the Contractor until the Engineer has approved the deviations in writing.

CHART NO. 2

LOCATION: San Leandro Blvd – Williams St to Davis Street | **DIRECTION OF TRAVEL: NB**

FROM HOUR to HOUR	a.m. 12	1	2	3	4	5	6	7	8	9	10	11	p.m. 12	1	2	3	4	5	6	7	8	9	10	11
Mondays through Thursdays	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2
Fridays	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2
Saturdays	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2
Sundays	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2

Flashing Arrow Board Required (circle one): YES ☒ NO ☐

LEGEND:

0 - Roadway may be closed in direction of travel.
1 - Provide at least one through lane open in direction of travel.
2 - Provide at least two through lanes open in direction of travel.
3 - Provide at least three through lanes open in direction of travel.
W - No lane closure permitted; work permitted anywhere that does not require lane closure.
X - No lane closure permitted; no work permitted on roadway.

REMARKS: Pedestrian and vehicular access to Bart Station and parking lots to be maintained at all times.

Approved by Traffic Operations Engineer: Richard N. Chan **Date:** 09/04/12

Note: Minor deviations from the requirements of this section concerning lane closure hours that do not change the cost of the work may be permitted upon the written request of the Contractor, if in the sole opinion of the Engineer, public traffic will be better served and the work expedited. These deviations shall not be adopted by the Contractor until the Engineer has approved the deviations in writing.

CHART NO. 3

LOCATION: Davis Street @ SLB Intersection (Caltrans ROW) | **DIRECTION OF TRAVEL: All**

FROM HOUR to HOUR	a.m. 12	1	2	3	4	5	6	7	8	9	10	11	p.m. 12	1	2	3	4	5	6	7	8	9	10	11
Mondays through Thursdays	X	X	X	X	X	X	X	W	W	2	2	2	2	2	2	2	W	W	X	X	X	X	X	X
Fridays	X	X	X	X	X	X	X	W	W	2	2	2	2	2	2	2	W	W	X	X	X	X	X	X
Saturdays	X	X	X	X	X	X	X	X	X	2	2	2	2	2	2	2	X	X	X	X	X	X	X	X
Sundays	X	X	X	X	X	X	X	X	X	2	2	2	2	2	2	2	X	X	X	X	X	X	X	X

Flashing Arrow Board Required (circle one): **YES** ☐ **NO** ☐

LEGEND:

0 - Roadway may be closed in direction of travel.
1 - Provide at least one through lane open in direction of travel.
2 - Provide at least two through lanes open in direction of travel.
3 - Provide at least three through lanes open in direction of travel.
W - No lane closure permitted; work permitted anywhere that does not require lane closure.
X - No lane closure permitted; no work permitted on roadway.

REMARKS: Contractor to submit lane closure and traffic control submittal to City and Caltrans for approval prior to commencing work. Work within Caltrans ROW subject to conditions of encroachment permit. Pedestrian access to be maintained at all times.

Approved by Traffic Operations Engineer: Robert N. Chan **Date:** 09/04/12

Note: Minor deviations from the requirements of this section concerning lane closure hours that do not change the cost of the work may be permitted upon the written request of the Contractor, if in the sole opinion of the Engineer, public traffic will be better served and the work expedited. These deviations shall not be adopted by the Contractor until the Engineer has approved the deviations in writing.

CHART NO. 4

LOCATION: Caltrans ROW – East 14th Street | **DIRECTION OF TRAVEL: NB and SB**

FROM HOUR to HOUR	a.m. 12	1	2	3	4	5	6	7	8	9	10	11	p.m. 12	1	2	3	4	5	6	7	8	9	10	11
Mondays through Thursdays	X	X	X	X	X	X	X	W	W	1	1	1	1	1	1	1	W	W	X	X	X	X	X	X
Fridays	X	X	X	X	X	X	X	W	W	1	1	1	1	1	1	1	W	W	X	X	X	X	X	X
Saturdays	X	X	X	X	X	X	X	X	X	1	1	1	1	1	1	1	X	X	X	X	X	X	X	X
Sundays	X	X	X	X	X	X	X	X	X	1	1	1	1	1	1	1	X	X	X	X	X	X	X	X

Flashing Arrow Board Required (circle one): **YES** ☐ **NO** ☐

LEGEND:

0 - Roadway may be closed in direction of travel.
1 - Provide at least one through lane open in direction of travel.
2 - Provide at least two through lanes open in direction of travel.
3 - Provide at least three through lanes open in direction of travel.
W - No lane closure permitted; work permitted anywhere that does not require lane closure.
X - No lane closure permitted; no work permitted on roadway.

REMARKS:
Work on East 14th street limited to replacement of sidewalk ramps and placement of high visibility crosswalks at the intersections with Davis St, Estudillo Ave, Joaquin Ave, and Juana Ave. Contractor to submit lane closure and traffic control submittal to City and Caltrans for approval prior to commencing work. Work within Caltrans ROW subject to conditions of encroachment permit. Pedestrian access to be maintained at all times.

Approved by Traffic Operations Engineer: Robert N. Chan **Date:** 09/04/12

Note: Minor deviations from the requirements of this section concerning lane closure hours that do not change the cost of the work may be permitted upon the written request of the Contractor, if in the sole opinion of the Engineer, public traffic will be better served and the work expedited. These deviations shall not be adopted by the Contractor until the Engineer has approved the deviations in writing.

7-10.3.3 TRAFFIC CONTROL PLAN REQUIREMENTS The Contractor shall submit detailed Traffic Control Plan(s) conforming to the 2012 California Manual on Uniform Traffic Control Devices for Streets and Highways (2012 CA MUTCD), and the requirements of these Special Provisions for acceptance by the Engineer. The submittal of Traffic Control Plans shall conform to the requirements of Section 2.5.3, "Submittals".

At a minimum, the Contractor shall provide:

- Detour plans if any street is temporary closed to traffic
- A minimum of one paved traffic lane, which shall not be less than ten (10) feet in width for use by public traffic unless otherwise approved by the Engineer.
- All work shall be phased to allow adequate parking within 1,000 feet of each residential unit, each industrial unit, and each commercial unit.

Except as otherwise provided in the lane closure chart(s):

- No work that interferes with public traffic on collector and arterial roadways shall be performed between the hours of 6:00 a.m. to 9:00 a.m., nor between 3:00 p.m. and 6:00 p.m., unless approved by the Engineer.
- The traveled way shall be open for use by public traffic on Saturdays, Sundays, and designated legal holidays; after 3:00 p.m. on Fridays, and the day proceeding designated legal holidays; and when construction operations are not actively in progress, unless approved by the Engineer.

7-10.3.4 IMPLEMENT TRAFFIC CONTROL The Contractor shall notify the San Leandro Police Department (510) 577-3208, Alameda County Fire Department (510) 670-5858, American Medical Response (510) 895-7633, Paramedics Plus (510) 746-4711, and, if applicable, A. C. Transit (510) 891-4901, daily of closures, detours, etc.

The Contractor shall furnish and maintain all signs, lights, barricades, and flaggers necessary as determined by the Engineer. Flaggers shall be trained in the proper fundamentals of flagging traffic before being assigned as flaggers and shall perform their duties in accordance with the most current edition of the "Instructions to Flaggers", by the California Department of Transportation.

Traffic control devices shall conform to Part 6 Temporary Traffic Control of the 2006 California Manual on Uniform Traffic Control Devices. Any signs or other protective devices furnished and erected by the Contractor, as above provided, shall not obscure the visibility of, nor conflict in intent, meaning, and function of either existing signs, lights, and traffic control devices for which furnishing of or payment for, is provided elsewhere in the specifications. Signs furnished and erected by the Contractor at Contractor's expense shall be approved by the Engineer as to size, wording, and location. All signs and traffic control devices shall be removed immediately upon completion, and any improvements restored to their original conditions.

Construction equipment shall enter and leave the construction area in the direction of public traffic. All movements of workers and construction equipment on or across lanes open to public traffic shall be performed in a manner that will not endanger the public.

When traffic cones or delineators are used to delineate a temporary edge of traffic lane, the line of cones or delineators shall be considered to be the edge of traffic lane, however, the Contractor shall not reduce the width of an existing lane to less than ten (10) feet without written approval from the Engineer. The

lane closure provisions of this section shall not apply if the work area is protected by permanent or temporary railing or barrier.

When work is not in progress on a trench or other excavation that requires a lane closure, the traffic cones or portable delineators used for the lane closure shall be placed off of and adjacent to the edge of the traveled way. The spacing of the cones or delineators shall be not less than the spacing used for the lane closures.

All barricades shall have operating warning lights. Barricades shall be placed twenty (20) feet center-to-center maximum.

If a hazardous condition is observed and the City notifies the Contractor either directly or by telephone, the Contractor shall correct the condition immediately. If the Contractor fails to correct the hazardous condition immediately, the City reserves the right to install or have installed the necessary traffic control devices. The cost involved shall be deducted from any money due or to become due to the Contractor.

Full compensation for compliance with this section shall be considered as included in the contract price paid for traffic control and/or construction area signs and no separate payment will be made therefore. When the contract does not include a contract pay item for traffic control, and/or construction area signs, full compensation for any necessary traffic control and/or construction area signs shall be considered as included in the prices for the various contract items of work involved and no additional compensation will be allowed therefore.

7-10.4 PUBLIC SAFETY In addition to the requirements of Section 7-10.4 of the Standard Specifications, the following shall also be required of the Contractor:

It is the Contractor's responsibility to provide for the safety of traffic and the public.

Whenever the Contractor's operations create a condition hazardous to traffic or to the public, Contractor shall, at its sole expense, furnish, erect, and maintain such fences, temporary railing, barricades, lights, signs, and other devices, and take such other protective measures as are necessary to prevent accidents, damage, or injury to the public. Such fences, temporary railing, barricades, lights, signs, and other devices furnished, erected, and maintained by the Contractor, at Contractor's expense, are in addition to any construction area traffic control devices for which payment is provided for elsewhere in the Specifications.

In addition to any other measure taken by the Contractor pursuant to the provisions of this section, the Contractor shall install temporary railing (Type K) between any lanes carrying public traffic and any excavation, obstacle, or storage area when the following conditions exist:

1. <u>Excavations.</u> Any excavation the near edge of which is six feet (6') or less from the edge of the lane, except:

   A. Excavations covered with sheet steel or concrete covers of adequate thickness to prevent accidental entry to traffic or the public;

   B. Excavations less than six inches (6") in depth;

   C. Trenches less than one foot (1') wide for irrigation pipe or electrical conduit or other pipelines less than one foot (1') in diameter;

   D. Excavations parallel to the lane for the purpose of pavement widening or reconstruction open for less than seven (7) calendar days;

   E. Excavations in side slopes, where the slope is 4:1 (Horizontal:Vertical) or flatter;

F. Excavations protected by existing barrier or railing.

2. Temporarily Unprotected Permanent Obstacles. Whenever the work includes the installation of a fixed obstacle together with a protective system, such as a sign structure together with protective railing, and the Contractor elects to install the obstacle prior to installing the protective system; or whenever the Contractor, for Contractor's convenience and with permission of the Engineer, removes a portion of an existing protective railing at an obstacle and does not replace such railing complete in place during the same day.

3. Storage Areas. Whenever material or equipment is stored within 12 feet (12') of the lane and such storage is not otherwise prohibited by the specifications.

7-10.4.1 SAFETY ORDERS The following paragraph is added to Section 7-10.4.1 of the Standard Specifications:

Notwithstanding any provisions of the Standard Specifications and the Special Provisions, the Contractor shall be solely responsible for conditions at the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and will not be limited to normal working hours. Safety and sanitary provisions shall conform to applicable Federal, State, County, and local laws, regulations, ordinances, standards, and codes. Where any of these are in conflict, the more stringent requirement shall be followed.

7-10.4.5 INJURY AND ILLNESS PREVENTION PROGRAM The following section is added to the Standard Specifications:

To the fullest extent legally required and applicable, Contactor shall have an Injury and Illness Prevention Program (IIPP) that conforms to all applicable federal, state and local laws, and shall provide a copy of its current version to the City upon request.

SECTION 8 - FACILITIES FOR AGENCY PERSONNEL

Contractor's attention is directed to Section 8, "Facilities for Agency Personnel", of the Standard Specifications.

8-1 GENERAL The following paragraph is added to Section 8-1 of the Standard Specifications:

The Engineer must be given full access to any Contractor-provided facilities located on the project site at all times. The Contractor has no expectation of privacy with respect to these facilities.

SECTION 9 - MEASUREMENT AND PAYMENT

9-3 PAYMENTS

9-3.1 GENERAL

Paragraph 8 of Section 9-3.1 is revised as follows:

All guarantee periods shall commence on the date the Notice of Completion is recorded with the Alameda County Recorder's Office.

Paragraph 10 of Section 9-3.1 is revised as follows:

At the expiration of 35 days from the date of recordation of the Notice of Completion by City, or within the time period specified in Public Contracts Code Section 7107, the amount deducted from the final estimate and retained by the City will be paid to the Contractor, except such amounts as are required by law to be withheld by properly executed and filed notices to stop payment, or as may be authorized by the contract to be further retained.

9-3.2 PARTIAL AND FINAL PAYMENT The following paragraphs are added to Section 9-3.2 of the Standard Specifications:

PARTIAL PAYMENT: No payments shall be required to be made when, in the judgment of the Engineer, the:

- Work is not proceeding in accordance with the provisions of the contract, updated construction schedules, and traffic control plans;
- Updated record drawings are not provided with the application for payment;
- Contractor or subcontractors have not provided proof of valid City of San Leandro Business Licenses;
- Certified Payrolls are not provided per Section 7-2.2.4;
- Total value for the work done since the last payment amounts to less than $1,000;
- Contractor has not submitted a request for payment.

FINAL PAYMENT: After acceptance by the Engineer, pursuant to Section 6-8 of the Standard Specifications, the City shall prepare a proposed Final Agreement of Quantities for the total amount payable to the Contractor, including therein an itemization of said amount, segregated as to contract item quantities, extra work, and any other basis for payment. All prior payments shall be subject to correction in the proposed Final Agreement of Quantities. Within thirty (30) days after said proposed Final Agreement of Quantities has been submitted to Contractor, the Contractor shall submit to the Engineer the written approval of said proposed Final Agreement of Quantities or a written statement of all claims Contractor has arising under or by virtue of the contract. No claim will be considered that was not included in said written statement of claims, nor will any claim be allowed for which a notice or protest is required under the provisions of the contract, unless the Contractor has complied with the notice or protest requirements in said contract.

Thirty-five (35) days after the recordation of the Notice of Completion, the City will pay the entire sum found due based on the proposed Final Agreement of Quantities submitted to the Contractor. Such Final Agreement of Quantities and payment thereon shall be conclusive and binding against both parties to the contract on all questions relating to the amount of work done and the compensation payable therefore.

If the Contractor within said period of thirty (30) days files claims, the Engineer will issue a semifinal estimate in accordance with the proposed Final Agreement of Quantities submitted to the Contractor and pay the sum so found to be due. Such semifinal estimate and payment thereon shall be conclusive and binding against both parties to the contract on all questions relating to the amount of work done and the compensation payable therefore, except insofar as affected by the claims filed within the time and in the manner required.

The claims filed by the Contractor shall be in sufficient detail to enable the Engineer to ascertain the basis and amount of said claims. The Engineer will consider and determine the Contractor's claims and it will be the responsibility of the Contractor to furnish within a reasonable time such further information and details as may be required by the Engineer to determine the facts or contentions involved in the claims. Failure to submit such information and details will be sufficient cause for denying the claims.

The Engineer will make the final determination of any claims that remain in dispute after completion of claim review and make a written recommendation thereon. The Contractor may meet with the Engineer to make a presentation in support of such claims. If any claims remain in dispute, they shall be handled in accordance with Section 3-5, "Disputed Work".

9-3.3 DELIVERED MATERIALS Section 9-3.3 of the Standard Specification is replaced as follows:

<u>The cost of materials and equipment purchased and not incorporated into the work shall NOT be reimbursed.</u>

9-3.4 MOBILIZATION The following paragraphs are added to Section 9-3.4 of the Standard Specifications.

Mobilization shall consist of preparatory work and operations, including, but not limited to, those necessary for the movement of personnel, equipment, supplies, and incidentals to the project site; for the establishment of all offices, buildings, and other facilities necessary for work on the project; and for all other work and operations that must be performed or costs incurred prior to beginning work on the various contract items on the project site.

When the contract has a lump sum price paid for mobilization, it shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in mobilization as specified above. Partial payments for mobilization shall be made as follows:

1. When the monthly partial payment estimate of the amount earned, not including the amount earned for mobilization, is 5 percent (5%) or more of the original contract amount, 50 percent (50%) of the contract item price for mobilization or 5 percent (5%) of the original contract amount, whichever is the lesser, will be included in said estimate for payment.

2. When the monthly partial payment estimate of the amount earned, not including the amount earned for mobilization, is 10 percent (10%) or more of the original contract amount, the total amount earned for mobilization shall be 75 percent (75%) of the contract item price for mobilization, or 7.5 percent (7.5%) of the original contract amount, whichever is lesser, and said amount will be included in said estimate for payment.

3. When the monthly partial payment estimate of the amount earned, not including the amount earned for mobilization, is 20 percent (20%) or more of the original contract amount, the total amount earned for

mobilization shall be 95 percent (95%) of the contract item price for mobilization, or 9.5 percent (9.5%) of the original contract amount, whichever is the lesser, and said amount will be included in said estimate for payment.

4. When the monthly partial payment estimate of the amount earned, not including the amount earned for mobilization, is 50 percent (50%) or more of the original contract amount, the total amount earned for mobilization shall be 100 percent (100%) of the contract item price for mobilization, or 10 percent (10%) of the original contract amount, whichever is lesser, and said amount will be included in said estimate for payment

5. After acceptance of the contract pursuant to Section 6-8 of the Standard Specifications, the amount, if any, of the contract item price for mobilization in excess of 10 percent (10%) of the original contract amount will be included for payment in accordance with said Section 9-3.2 of the Special Provisions.

6. When the contract does not include a contract pay item for mobilization, full compensation for any necessary mobilization required shall be considered to be included in the prices for the various contract items of work involved and no additional compensation will be allowed therefore.

9-3.5 AUDIT AND EXAMINATION OF RECORDS The City may examine and audit at no additional cost to the City all books, estimates, records, contracts, documents, bid documents, bid cost data, subcontract job cost reports, and other project-related data of the Contractor, subcontractors engaged in performance of the work, and suppliers providing supplies, equipment, and other materials required for the work, including computations and projections related to bidding, negotiating, pricing, or performing the work or contract modifications and other materials concerning the work, including, but not limited to, Contractor daily logs, in order to evaluate the accuracy, completeness, and currency of cost, pricing, scheduling, and any other project related data. The Contractor will make available all such project-related data during regular business hours for examination, audit, or reproduction at the Contractor's business office at or near the work site, and at any other location where such project-related data may be kept until three (3) years after final payment under the agreement. Pursuant to California Government Code Section 8546.7, if the amount of public funds to be expended is in excess of $10,000, this agreement shall be subject to the examination and audit of the State Auditor, at the request of the City, or as part of any audit of the City, for a period of three (3) years after final payment under the agreement.

9-4 FALSE CLAIMS ACT CERTFICATION The following section is added to the Standard Specifications.

All requests for payment submitted by the Contractor, and any claim for additional compensation must be accompanied by the following declaration:

"I, _____, being the _____ of _____ (Contractor), declare under penalty of perjury under the laws of the State of California, and do personally certify and attest that: I have thoroughly reviewed the attached request for payment and know its contents, and said request for payment is made in good faith; that it is supported by truthful and accurate data; that the amount requested and accurately reflects the allowable expenses that were incurred; and further, that I am familiar with California Penal Code Section 72 and California Government Code Section 12650, et seq., pertaining to false claims, and further know and understand that submission or certification of a false claim may lead to fines, imprisonment, or other severe legal consequences."

9-5 BID ITEM BREAKDOWN AND MEASUREMENT AND PAYMENT The following sections are added to the Standard Specifications.

9-5.1 ITEMS AND WORK NOT SPECIFICALLY INCLUDED IN A DESCRIPTION

It is specifically pointed out that any and all items and/or work called for on the plans and/or specifications and not included in a description of a specific bid item shall be included by the bidder in one or more of the bid items and no additional compensation will be allowed. The total bid is agreed to contain payment for all work shown on plans or specified in the contract book.

9-5.2 BID ITEM DESCRIPTIONS

The Contract sum paid for each bid item shown below shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals, disposal, and for doing all work involved in such bid item, as shown on the Plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer, unless specifically noted otherwise.

Bid Item 1: Mobilization and General Conditions:

Bid item includes all costs for work described in section 9-3.4.

Bid Item 2: Labor Compliance Monitoring:

Bid item includes all costs for work described in section 7-2.2.4.

Bid Item 3: Clearing and Grubbing:

Bid item includes all costs for work described in section 300-1; except removal and hauling of AC grindings that is included in Bid Item 7, and removal and hauling of AC Dig-Out material that is included in Bid Item 9.

Bid Item 4: Sheeting, Shoring, and Bracing:

Bid item includes all costs for providing and installing sheeting, shoring, and bracing, as required by the Industrial Safety Division of the State of California. Including bracing of excavations as described in section 300-2.10 and section 306-1.1.6.

Bid Item 5: Storm Drain System:

Bid item includes all costs for providing and installing storm drainage facilities shown on the plans and in accordance with the specifications. Work required by section 301-1.6 is included.

Bid Item 6: Sanitary Sewer System:

Bid item includes all costs for providing and installing sanitary sewer facilities shown on the plans and in accordance with the specifications. Work required by section 301-1.6 is included.

Bid Item 7: Mill Asphalt Concrete and Off Haul:

Bid item includes all costs for milling AC paving per section 302-1 and hauling and disposal of removed material except where such work is associated with bid item 9.

Bid Item 8: AC Overlay:

Bid item includes all costs for providing and installing asphalt concrete per Section 302-5; except for asphalt concrete required to fill AC Dig-Outs that is included in Bid Item 9, and asphalt concrete required at utility cover adjustments that is included in Bid Items 23-28.

Bid Item 9: AC Dig Out Removal and Repaving:

Bid item includes all costs for work described in section 302-3.

Bid Item 10: Pavement Fabric:

Bid item includes all costs for providing and installing paving fabric per section 302-7, in accordance with manufacturer specifications, and as indicated on Detail 9 of sheet CD1.

Bid Item 11: Pavement striping and markings:
Bid item includes all costs for providing and installing Thermoplastic Traffic Striping, Pavement Markings, and Curb Markings as shown on sheets SS1 and SS2 of the project plans, and per Specification Section 310-5.6

Bid Item 12: Decorative Crosswalk Imprinting:
Bid item includes all costs for providing and installing stamped asphalt imprinting as indicated on sheets LL1 through LL5, LD1 of the plans, and Specification Section 302-13.

Bid Item 13: Concrete Work:
Bid item includes all costs for providing and installing all concrete work shown on the plans, required by city standard details, and described in Section 303; except for that concrete work included on Bid Items 5 "Storm Drainage System", 6 "Sanitary Sewer System", 14 "East 14th Street Ramp Installations", and 18 "Ornamental Furnishings and Sitework".

Bid Item 14: East 14th Ramp Installations:
Bid item includes all costs for providing and installing all work shown on sheets R1 and R2 of the drawings. Work shall be in accordance with the applicable City standard plans, the standard specifications and these special provisions.

Bid Item 15: Street Light System:
Bid item includes all costs for providing and installing the street lighting system shown on drawings SL1.1 through SL2.4 of the plans and in accordance with Section 307-3. Note that concrete foundation work to be included with Bid Item 13.

Bid item shall also include five (5) each additional complete light poles without foundations of Types DD and DT as shown on the plans for delivery to the City's Maintenance Yard. Lights will be stockpiled at the Yard for use as future replacement stock by the City.

Bid Item 16: Traffic Signal System:
Bid item includes all costs for providing and installing the traffic signal system shown on sheets E1 through E8 of the plans, and all fiber optic work shown on sheets U1-U5; in accordance with Specification Section 307**.** Note that concrete foundation work to be included with Bid Item 13 "Concrete"

Bid Item 17: Street Signs:
Bid item includes all costs for Roadside Signs per Sheets SS1 and SS2 of the plans and in accordance with Specification Section 315-1**.** Note that concrete foundation work to be included with Bid Item 13 "Concrete"

Bid Item 18: Ornamental Furnishings and Sitework:
Bid item includes all costs for the following ornamental furnishes and sitework shown on sheets LL1 through LL5, LD1 through LD5, S1-S2, and WSL1 through WSL 3 of the plans:

- Concrete and granite pavers in accordance with Specification Section 303.9.
- Ornamental concrete trellis, columns, seatwall, and precast caps in accordance with Specification Section 303
- Tree grates per City standard plans and Specification Section 304-5.
- Wayfinding signage in accordance with Specification Section 304-7
- Steel fence in accordance with Specification Section 304-6.
- Stucco per Section 303-10

- Graffiti coating in accordance with Specification Section 310-6.
- Skateboard deterrents per Detail D Sheet LD4 per manufacturer specifications.

Note: Concrete footings including in Bid Item 13.

Bid Item 19: Landscape Planting:
Bid item includes all costs for providing and installing vegetation shown on plans PL1 through PL6 of the plans, in accordance with City standard details and Specification Section 308.

Bid Item 20: Irrigation System:
Bid item includes all costs for providing and installing an irrigation system per sheets IR1 through IR9 of the Plans, and in accordance with Specification Section 308.

Bid Item 21: Plant Establishment / Maintenance:
Bid item includes all costs for providing work described in Specification Section 308-6.

Bid Item 22: Palm Tree Extended Maintenance:
Bid item includes all costs for providing work described in Specification Section 308-9.4 through 308-9.8 inclusive.

Bid Item 23: Adjust Telecommunication Sidewalk Box:
Bid item includes all costs for resetting AT&T and Comcast utility boxes within the concrete sidewalk per Sheets U1-U4 of the plans and in accordance with Specification Section 303-5.1.

Bid Item 24: Adjust EBMUD Sidewalk Box:
Bid item includes all costs for resetting EBMUD meter boxes within the concrete sidewalk to grade Sheets U1-U4 of the plans and in accordance with Specification Section 303-5.1

Bid Item 25: Adjust PG&E Sidewalk Box:
Bid item includes all costs for resetting PG&E utility boxes within the concrete sidewalk area to grade per Section 303-5.1.

Bid Item 26: Adjust EBMUD Street Valve Pots :
Bid item includes all costs to lower and reset EMBUD water valve pots in the asphalt concrete roadway to grade as shown on Sheets U1-U4 of the plans and in accordance with Specification Section 301-1.6.2.

Bid Item 27: Adjust PG&E Street Valve Pots:
Bid item includes all costs to lower and reset PG&E gas valve pots within the asphalt concrete roadway area to grade as shown on Sheets U1-U4 of the plans and in accordance with Specification Section 301-1.6.3.

Bid Item 28: Adjust City Survey Monument:
Bid item includes all costs to adjust City Survey monuments in the asphalt concrete roadway to grade as shown on Sheets U1-U4 of the plans and in accordance with Specification Section 301-1.6.1 and 309.

Bid Item 29: City Survey Monument Reconstruction:
Bid item includes all costs for installing City Survey monuments per City standard plan in the asphalt concrete roadway as shown on Sheets U1-U4 of the plans and in accordance with Specification Section 309.

GENERAL.—The work herein proposed will be financed in whole or in part with Federal funds, and therefore all of the statutes, rules and regulations promulgated by the Federal Government and applicable to work financed in whole or in part with Federal funds will apply to such work. The "Required Contract Provisions, Federal-Aid Construction Contracts, "Form FHWA 1273, are included in this Section 14. Whenever in said required contract provisions references are made to "SHA contracting officer," "SHA resident engineer," or "authorized representative of the SHA," such references shall be construed to mean "Engineer" as defined in Section 1-1.18 of the Standard Specifications.

PERFORMANCE OF PREVIOUS CONTRACT.—In addition to the provisions in Section II, "Nondiscrimination," and Section VII, "Subletting or Assigning the Contract," of the required contract provisions, the Contractor shall comply with the following:

The bidder shall execute the CERTIFICATION WITH REGARD TO THE PERFORMANCE OF PREVIOUS CONTRACTS OR SUBCONTRACTS SUBJECT TO THE EQUAL OPPORTUNITY CLAUSE AND THE FILING OF REQUIRED REPORTS located in the proposal. No request for subletting or assigning any portion of the contract in excess of $10,000 will be considered under the provisions of Section VII of the required contract provisions unless such request is accompanied by the CERTIFICATION referred to above, executed by the proposed subcontractor.

NON-COLLUSION PROVISION.—The provisions in this section are applicable to all contracts except contracts for Federal Aid Secondary projects.

Title 23, United States Code, Section 112, requires as a condition precedent to approval by the Federal Highway Administrator of the contract for this work that each bidder file a sworn statement executed by, or on behalf of, the person, firm, association, or corporation to whom such contract is to be awarded, certifying that such person, firm, association, or corporation has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the submitted bid. A form to make the non-collusion affidavit statement required by Section 112 as a certification under penalty of perjury rather than as a sworn statement as permitted by 28, USC, Sec. 1746, is included in the proposal.

PARTICIPATION BY DISADVANTAGED BUSINESS ENTERPRISES IN SUBCONTRACTING.—Part 26, Title 49, Code of Federal Regulations applies to this Federal-aid project. Pertinent sections of said Code are incorporated in part or in its entirety within other sections of these special provisions.

Schedule B—Information for Determining Joint Venture Eligibility

(This form need not be filled in if all joint venture firms are DBE owned.)

1. Name of joint venture _____

_____

2. Address of joint venture _____

_____

3. Phone number of joint venture _____

_____

4. Identify the firms which comprise the joint venture. (The DBE partner must complete Schedule A.) _____

_____

a. Describe the role of the DBE firm in the joint venture.

_____

b. Describe very briefly the experience and business qualifications of each non-DBE joint venturer: _____

_____

5. Nature of the joint venture's business _____

_____

6. Provide a copy of the joint venture agreement.

7. What is the claimed percentage of DBE ownership? ___

_____

8. Ownership of joint venture: (This need not be filled in if described in the joint venture agreement, provided by question 6.).

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a. Profit and loss sharing.
b. Capital contributions, including equipment.
c. Other applicable ownership interests.

9. Control of and participation in this contract. Identify by name, race, sex, and "firm" those individuals (and their titles) who are responsible for day-to-day management and policy decision making, including, but not limited to, those with prime responsibility for:

a. Financial decisions _____

_____

b. Management decisions, such as:

1. Estimating _____

_____

2. Marketing and sales _____

_____

3. Hiring and firing of management personnel ___

_____

4. Purchasing of major items or supplies _____

_____

c. Supervision of field operations_____

_____

Note.—If, after filing this Schedule B and before the completion of the joint venture's work on the contract covered by this regulation, there is any significant change in the information submitted, the joint venture must inform the grantee, either directly or through the prime contractor if the joint venture is a subcontractor.

Affidavit

"The undersigned swear that the foregoing statements are correct and include all material information necessary to identify and explain the terms and operation of our joint venture and the intended participation by each joint venturer in the undertaking. Further, the undersigned covenant and agree to provide to grantee current, complete and accurate information regarding actual joint venture work and the payment therefor and any proposed changes in any of the joint venture arrangements and to permit the audit and examination of the books, records and files of the joint venture, or those of each joint venturer relevant to the joint venture, by authorized representatives of the grantee or the Federal funding agency. Any material misrepresentation will be grounds for terminating any contract which may be awarded and for initiating action under Federal or State laws concerning false statements."

.....	.....
Name of Firm	Name of Firm
.....	.....
Signature	Signature
.....	.....
Name	Name
.....	.....
Title	Title
.....	.....
Date	Date

Date _____

State of _____

County of _____

On this ____ day of _____, 19 __, before me appeared (Name) _____, to me personally known, who, being duly sworn, did execute the foregoing affidavit, and did state that he or she was properly authorized by (Name of firm) _____ to execute the affidavit and did so as his or her free act and deed.

Notary Public _____

Commission expires _____

[Seal]

Date _____

State of _____

County of _____

On this ___ day of _____, 19 __, before me appeared (Name) _____ to me personally known, who, being duly sworn, did execute the foregoing affidavit, and did state that he or she was properly authorized by (Name of firm) _____ to execute the affidavit and did so as his or her free act and deed.

Notary Public _____

Commission expires _____

[Seal]

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REQUIRED CONTRACT PROVISIONS

FEDERAL-AID CONSTRUCTION CONTRACTS

(Exclusive of Appalachian Contracts)

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ATTACHMENTS

A. Employment Preference for Appalachian Contracts (included in Appalachian contracts only)

I. GENERAL

1. These contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

2. Except as otherwise provided for in each section, the contractor shall insert in each subcontract all of the stipulations contained in these Required Contract Provisions, and further require their inclusion in any lower tier subcontract or purchase order that may in turn be made. The Required Contract Provisions shall not be incorporated by reference in any case. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with these Required Contract Provisions.

3. A breach of any of the stipulations contained in these Required Contract Provisions shall be sufficient grounds for termination of the contract.

4. A breach of the following clauses of the Required Contract Provisions may also be grounds for debarment as provided in 29 CFR 5.12:

Section I, paragraph 2;
Section IV, paragraphs 1, 2, 3, 4, and 7;
Section V, paragraphs 1 and 2a through 2g.

5. Disputes arising out of the labor standards provisions of Section IV (except paragraph 5) and Section V of these Required Contract Provisions shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the U.S. Department of Labor (DOL) as set forth in 29 CFR 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the DOL, or the contractor's employees or their representatives.

6. **Selection of Labor:** During the performance of this contract, the contractor shall not:

a. discriminate against labor from any other State, possession, or territory of the United States (except for employment preference for Appalachian contracts, when applicable, as specified in Attachment A), or

b. employ convict labor for any purpose within the limits of the project unless it is labor performed by convicts who are on parole, supervised release, or probation.

II. NONDISCRIMINATION

(Applicable to all Federal-aid construction contracts and to all related subcontracts of $10,000 or more.)

1. **Equal Employment Opportunity:** Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, and 41 CFR 60) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The Equal Opportunity Construction Contract Specifications set forth under 41 CFR 60-4.3 and the provisions of the American Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the State highway agency (SHA) and the Federal Government in carrying out EEO obligations and in their review of his/her activities under the contract.

b. The contractor will accept as his operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, preapprenticeship, and/or on-the-job training."

2. **EEO Officer:** The contractor will designate and make known to the SHA contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively

administering and promoting an active contractor program of EEO and who must be assigned adequate authority and responsibility to do so.

3. **Dissemination of Policy:** All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minority group employees.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. **Recruitment:** When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minority groups in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minority group applicants. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority group applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, he is expected to observe the provisions of that agreement to the extent that the system permits the contractor's compliance with EEO contract provisions. (The DOL has held that where implementation of such agreements have the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Executive Order 11246, as amended.)

c. The contractor will encourage his present employees to refer minority group applicants for employment. Information and procedures with regard to referring minority group applicants will be discussed with employees.

5. **Personnel Actions:** Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to ensure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with his obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of his avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minority group and women employees, and applicants for employment.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision.

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of minority group and women employees and will encourage eligible employees to apply for such training and promotion.

7. **Unions:** If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use his/her best efforts to obtain the cooperation of such unions to increase opportunities for minority groups and women within the unions, and to effect referrals by such unions of minority and female employees. Actions by the contractor either directly or through a contractor's association acting as agent will include the procedures set forth below:

a. The contractor will use best efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minority group members and women for membership in the unions and increasing the skills of minority group employees and women so that they may qualify for higher paying employment.

b. The contractor will use best efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the SHA and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of minority and women referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minority group persons and women. (The DOL has held that it shall be no excuse that the union with which the contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees.) In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the SHA.

8. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment.

a. The contractor shall notify all potential subcontractors and suppliers of his/her EEO obligations under this contract.

b. Disadvantaged business enterprises (DBE), as defined in 49 CFR 26, shall have equal opportunity to compete for and perform subcontracts which the contractor enters into pursuant to this contract. The contractor will use his best efforts to solicit bids from and to utilize DBE subcontractors or subcontractors with meaningful minority group and female representation among their employees. Contractors shall obtain lists of DBE construction firms from SHA personnel.

c. The contractor will use his best efforts to ensure subcontractor compliance with their EEO obligations.

9. **Records and Reports:** The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the SHA and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women;

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority and female employees; and

(4) The progress and efforts being made in securing the services of DBE subcontractors or subcontractors with meaningful minority and female representation among their employees.

b. The contractors will submit an annual report to the SHA each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data.

III NONSEGREGATED FACILITIES

(Applicable to all Federal-aid construction contracts and to all related subcontracts of $10,000 or more.)

a. By submission of this bid, the execution of this contract or subcontract, or the consummation of this material supply agreement or purchase order, as appropriate, the bidder, Federal-aid construction contractor, subcontractor, material supplier, or vendor, as appropriate, certifies that the firm does not maintain or provide for its employees any segregated facilities at any of its establishments, and that the firm does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The firm agrees that a breach of this certification is a violation of the EEO provisions of this contract. The firm further certifies that no employee will be denied access to adequate facilities on the basis of sex or disability.

b. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, time clocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive, or are, in fact, segregated on the basis of race, color, religion, national origin, age or disability, because of habit, local custom, or otherwise. The only exception will be for the disabled when the demands for accessibility override (e.g. disabled parking).

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c. The contractor agrees that it has obtained or will obtain identical certification from proposed subcontractors or material suppliers prior to award of subcontracts or consummation of material supply agreements of $10,000 or more and that it will retain such certifications in its files.

IV. PAYMENT OF PREDETERMINED MINIMUM WAGE

(Applicable to all Federal-aid construction contracts exceeding $2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural minor collectors, which are exempt.)

1. General:

a. All mechanics and laborers employed or working upon the site of the work will be paid unconditionally and not less often than once a week and without subsequent deduction or rebate on any account [except such payroll deductions as are permitted by regulations (29 CFR 3)] issued by the Secretary of Labor under the Copeland Act (40 U.S.C. 276c) the full amounts of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment. The payment shall be computed at wage rates not less than those contained in the wage determination of the Secretary of Labor (hereinafter "the wage determination") which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor or its subcontractors and such laborers and mechanics. The wage determination (including any additional classifications and wage rates conformed under paragraph 2 of this Section IV and the DOL poster (WH-1321) or Form FHWA-1495) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers. For the purpose of this Section, contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act (40 U.S.C. 276a) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of Section IV, paragraph 3b, hereof. Also, for the purpose of this Section, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in paragraphs 4 and 5 of this Section IV.

b. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein, provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed.

c. All rulings and interpretations of the Davis-Bacon Act and related acts contained in 29 CFR 1, 3, and 5 are herein incorporated by reference in this contract.

2. Classification:

a. The SHA contracting officer shall require that any class of laborers or mechanics employed under the contract, which is not listed in the wage determination, shall be classified in conformance with the wage determination.

b. The contracting officer shall approve an additional classification, wage rate and fringe benefits only when the following criteria have been met:

(1) the work to be performed by the additional classification requested is not performed by a classification in the wage determination;

(2) the additional classification is utilized in the area by the construction industry;

(3) the proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination; and

(4) with respect to helpers, when such a classification prevails in the area in which the work is performed.

c. If the contractor or subcontractors, as appropriate, the laborers and mechanics (if known) to be employed in the additional classification or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the DOL, Administrator of the Wage and Hour Division, Employment Standards Administration, Washington, D.C. 20210. The Wage and Hour Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

d. In the event the contractor or subcontractors, as appropriate, the laborers or mechanics to be employed in the additional classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. Said Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary

e. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 2c or 2d of this Section IV shall be paid to all workers performing work in the additional classification from the first day on which work is performed in the classification.

3. Payment of Fringe Benefits:

a. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor or subcontractors, as appropriate, shall either pay the benefit

as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly case equivalent thereof.

b. If the contractor or subcontractor, as appropriate, does not make payments to a trustee or other third person, he/she may consider as a part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, provided, that the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

4. Apprentices and Trainees (Programs of the U.S. DOL) and Helpers:

a. Apprentices:

(1) Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the DOL, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau, or if a person is employed in his/her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State apprenticeship agency (where appropriate) to be eligible for probationary employment as an apprentice.

(2) The allowable ratio of apprentices to journeyman-level employees on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any employee listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate listed in the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor or subcontractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman-level hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

(3) Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator for the Wage and Hour Division determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

(4) In the event the Bureau of Apprenticeship and Training, or a State apprenticeship agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor or subcontractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the comparable work performed by regular employees until an acceptable program is approved.

b. Trainees:

(1) Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the DOL, Employment and Training Administration.

(2) The ratio of trainees to journeyman-level employees on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

(3) Every trainee must be paid at not less than the rate specified in the approved program for his/her level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman-level wage rate on the wage determination which provides for less than full fringe benefits for apprentices, in which case such trainees shall receive the same fringe benefits as apprentices.

(4) In the event the Employment and Training Administration withdraws approval of a training program, the contractor or subcontractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Helpers:

Helpers will be permitted to work on a project if the helper classification is specified and defined on the applicable wage determination or is approved pursuant to the conformance procedure set forth in Section IV.2. Any worker listed on a payroll at a helper wage rate, who is not a helper under an approved definition, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed.

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5. Apprentices and Trainees (Programs of the U.S. DOT):

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

6. Withholding:

The SHA shall upon its own action or upon written request of an authorized representative of the DOL withhold, or cause to be withheld, from the contractor or subcontractor under this contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements which is held by the same prime contractor, as much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the SHA contracting officer may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

7. Overtime Requirements:

No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers, mechanics, watchmen, or guards (including apprentices, trainees, and helpers described in paragraphs 4 and 5 above) shall require or permit any laborer, mechanic, watchman, or guard in any workweek in which he/she is employed on such work, to work in excess of 40 hours in such workweek unless such laborer, mechanic, watchman, or guard receives compensation at a rate not less than one-and-one-half times his/her basic rate of pay for all hours worked in excess of 40 hours in such workweek.

8. Violation:

Liability for Unpaid Wages; Liquidated Damages: In the event of any violation of the clause set forth in paragraph 7 above, the contractor and any subcontractor responsible thereof shall be liable to the affected employee for his/her unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory) for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer, mechanic, watchman, or guard employed in violation of the clause set forth in paragraph 7, in the sum of $10 for each calendar day on which such employee was required or permitted to work in excess of the standard work week of 40 hours without payment of the overtime wages required by the clause set forth in paragraph 7.

9. Withholding for Unpaid Wages and Liquidated Damages:

The SHA shall upon its own action or upon written request of any authorized representative of the DOL withhold, or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 8 above.

V. STATEMENTS AND PAYROLLS

(Applicable to all Federal-aid construction contracts exceeding $2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural collectors, which are exempt.)

1. Compliance with Copeland Regulations (29 CFR 3):

The contractor shall comply with the Copeland Regulations of the Secretary of Labor which are herein incorporated by reference.

2. Payrolls and Payroll Records:

a. Payrolls and basic records relating thereto shall be maintained by the contractor and each subcontractor during the course of the work and preserved for a period of 3 years from the date of completion of the contract for all laborers, mechanics, apprentices, trainees, watchmen, helpers, and guards working at the site of the work.

b. The payroll records shall contain the name, social security number, and address of each such employee; his or her correct classification; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalent thereof the types described in Section 1(b)(2)(B) of the Davis Bacon Act); daily and weekly number of hours worked; deductions made; and actual wages paid. In addition, for Appalachian contracts, the payroll records shall contain a notation indicating whether the employee does, or does not, normally reside in the labor area as defined in Attachment A, paragraph 1. Whenever the Secretary of Labor, pursuant to Section IV, paragraph 3b, has found that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in Section 1(b)(2)(B) of the Davis Bacon Act, the contractor and each subcontractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, that the plan or program has been communicated in writing to the laborers or mechanics affected, and show the cost anticipated or the actual cost incurred in providing benefits. Contractors or subcontractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprentices and trainees, and ratios and wage rates prescribed in the applicable programs.

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c. Each contractor and subcontractor shall furnish, each week in which any contract work is performed, to the SHA resident engineer a payroll of wages paid each of its employees (including apprentices, trainees, and helpers, described in Section IV, paragraphs 4 and 5, and watchmen and guards engaged on work during the preceding weekly payroll period). The payroll submitted shall set out accurately and completely all of the information required to be maintained under paragraph 2b of this Section V. This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal stock number 029-005-0014-1), U.S. Government Printing Office, Washington, D.C. 20402. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors.

d. Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his/her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) that the payroll for the payroll period contains the information required to be maintained under paragraph 2b of this Section V and that such information is correct and complete;

(2) that such laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in the Regulations, 29 CFR 3;

(3) that each laborer or mechanic has been paid not less that the applicable wage rate and fringe benefits or cash equivalent for the classification of worked performed, as specified in the applicable wage determination incorporated into the contract.

e. The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 2d of this Section V.

f. The falsification of any of the above certifications may subject the contractor to civil or criminal prosecution under 18 U.S.C. 1001 and 31 U.S.C. 231.

g. The contractor or subcontractor shall make the records required under paragraph 2b of this Section V available for inspection, copying, or transcription by authorized representatives of the SHA, the FHWA, or the DOL, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the SHA, the FHWA, the DOL, or all may, after written notice to the contractor, sponsor, applicant, or owner, take such actions as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

VI. RECORD OF MATERIALS, SUPPLIES, AND LABOR

1. On all Federal-aid contracts on the National Highway System, except those which provide solely for the installation of protective devices at railroad grade crossings, those which are constructed on a force account or direct labor basis, highway beautification contracts, and contracts for which the total final construction cost for roadway and bridge is less than $1,000,000 (23 CFR 635); the contractor shall:

a. Become familiar with the list of specific materials and supplies contained in Form FHWA-47, "Statement of Materials and Labor Used by Contractor of Highway Construction Involving Federal Funds," prior to the commencement of work under this contract.

b. Maintain a record of the total cost of all materials and supplies purchased for and incorporated in the work, and also of the quantities of those specific materials and supplies listed on Form FHWA-47, and in the units shown on Form FHWA-47.

c. Furnish, upon the completion of the contract, to the SHA resident engineer on Form FHWA-47 together with the data required in paragraph 1b relative to materials and supplies, a final labor summary of all contract work indicating the total hours worked and the total amount earned.

2. At the prime contractor's option, either a single report covering all contract work or separate reports for the contractor and for each subcontract shall be submitted.

VII. SUBLETTING OR ASSIGNING THE CONTRACT

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the State. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635).

a. "Its own organization" shall be construed to include only workers employed and paid directly by the prime contractor and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor, assignee, or agent of the prime contractor.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid on the contract as a whole and in general are to be limited to minor components of the overall contract.

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2. The contract amount upon which the requirements set forth in paragraph 1 of Section VII is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the SHA contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the SHA contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the SHA has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

VIII. SAFETY: ACCIDENT PREVENTION

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the SHA contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333).

IX. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, the following notice shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

NOTICE TO ALL PERSONNEL ENGAGED ON FEDERAL-AID HIGHWAY PROJECTS

18 U.S.C. 1020 reads as follows:

"Whoever being an officer, agent, or employee of the United States, or any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined not more that $10,000 or imprisoned not more than 5 years or both."

X. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

(Applicable to all Federal-aid construction contracts and to all related subcontracts of $100,000 or more.)

By submission of this bid or the execution of this contract, or subcontract, as appropriate, the bidder, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any facility that is or will be utilized in the performance of this contract, unless such contract is exempt under the Clean Air Act, as amended (42 U.S.C. 1857 et seq., as amended by Pub. L. 91-604), and under the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq., as amended by Pub. L. 92-500), Executive Order 11738, and regulations in implementation thereof (40 CFR 15) is not listed, on the date of contract award, on the U.S. Environmental Protection Agency (EPA) List of Violating Facilities pursuant to 40 CFR 15.20.

2. That the firm agrees to comply and remain in compliance with all the requirements of Section 114 of the Clean Air Act and Section 308 of the Federal Water Pollution Control Act and all regulations and guidelines listed thereunder.

3. That the firm shall promptly notify the SHA of the receipt of any communication from the Director, Office of Federal Activities, EPA, indicating that a facility that is or will be utilized

for the contract is under consideration to be listed on the EPA List of Violating Facilities.

4. That the firm agrees to include or cause to be included the requirements of paragraph 1 through 4 of this Section X in every nonexempt subcontract, and further agrees to take such action as the government may direct as a means of enforcing such requirements.

XI. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

1. Instructions for Certification - Primary Covered Transactions:

(Applicable to all Federal-aid contracts - 49 CFR 29)

a. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause of default.

d. The prospective primary participant shall provide immediate written notice to the department or agency to whom this proposal is submitted if any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the department or agency to which this proposal is submitted for assistance in obtaining a copy of those regulations.

f. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the nonprocurement portion of the "Lists of Parties Excluded From Federal Procurement or Nonprocurement Programs" (Nonprocurement List) which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph f of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion—Primary Covered Transactions

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

b. Have not within a 3-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1b of this certification; and

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d. Have not within a 3-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

2. Instructions for Certification - Lower Tier Covered Transactions:

(Applicable to all subcontracts, purchase orders and other lower tier transactions of $25,000 or more - 49 CFR 29)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "primary covered transaction," "participant," "person," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XII. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

(Applicable to all Federal-aid construction contracts and to all related subcontracts which exceed $100,000 - 49 CFR 20)

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract,

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grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

3. The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed $100,000 and that all such recipients shall certify and disclose accordingly.

Minority Utilization Goals

Economic Area		Goal (Percent)
174	Redding CA: Non-SMSA Counties: CA Lassen; CA Modoc; CA Plumas; CA Shasta; CA Siskiyou; CA Tehama	6.8
175	Eureka, CA Non-SMSA Counties: CA Del Norte; CA Humboldt; CA Trinity	6.6
176	San Francisco-Oakland-San Jose, CA: SMSA Counties: 7120 Salinas-Seaside-Monterey, CA CA Monterey 7360 San Francisco-Oakland CA Alameda; CA Contra Costa; CA Marin; CA San Francisco; CA San Mateo 7400 San Jose, CA CA Santa Clara, CA 7485 Santa Cruz, CA CA Santa Cruz 7500 Santa Rosa CA Sonoma 8720 Vallejo-Fairfield-Napa, CA CA Napa; CA Solano Non-SMSA Counties: CA Lake; CA Mendocino; CA San Benito	 28.9 25.6 19.6 14.9 9.1 17.1 23.2
177	Sacramento, CA: SMSA Counties: 6920 Sacramento, CA CA Placer; CA Sacramento; CA Yolo Non-SMSA Counties CA Butte; CA Colusa; CA El Dorado; CA Glenn; CA Nevada; CA Sierra; CA Sutter; CA Yuba	 16.1 14.3
178	Stockton-Modesto, CA: SMSA Counties: 5170 Modesto, CA CA Stanislaus 8120 Stockton, CA CA San Joaquin Non-SMSA Counties CA Alpine; CA Amador; CA Calaveras; CA Mariposa; CA Merced; CA Toulumne	 12.3 24.3 19.8

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179	Fresno-Bakersfield, CA SMSA Counties: 0680 Bakersfield, CA CA Kern 2840 Fresno, CA CA Fresno Non-SMSA Counties: CA Kings; CA Madera; CA Tulare	 19.1 26.1 23.6
180	Los Angeles, CA: SMSA Counties: 0360 Anaheim-Santa Ana-Garden Grove, CA CA Orange 4480 Los Angeles-Long Beach, CA CA Los Angeles 6000 Oxnard-Simi Valley-Ventura, CA CA Ventura 6780 Riverside-San Bernardino-Ontario, CA CA Riverside; CA San Bernardino 7480 Santa Barbara-Santa Maria-Lompoc, CA CA Santa Barbara Non-SMSA Counties CA Inyo; CA Mono; CA San Luis Obispo	 11.9 28.3 21.5 19.0 19.7 24.6
181	San Diego, CA: SMSA Counties 7320 San Diego, CA CA San Diego Non-SMSA Counties CA Imperial	 16.9 18.2

For each July during which work is performed under the contract, you and each non-material-supplier subcontractor with a subcontract of $10,000 or more must complete Form FHWA PR-1391 (Appendix C to 23 CFR 230). Submit the forms by August 15.

Training

This section applies if a number of trainees or apprentices is specified in the special provisions.
As part of your equal opportunity affirmative action program, provide on-the-job training to develop full journeymen in the types of trades or job classifications involved.

You have primary responsibility for meeting this training requirement.
If you subcontract a contract part, determine how many trainees or apprentices are to be trained by the subcontractor.

Include these training requirements in your subcontract.
Where feasible, 25 percent of apprentices or trainees in each occupation must be in their 1st year of apprenticeship or training.

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Distribute the number of apprentices or trainees among the work classifications on the basis of your needs and the availability of journeymen in the various classifications within a reasonable recruitment area.
Before starting work, submit to the City of San Leandro:

1. Number of apprentices or trainees to be trained for each classification.
2. Training program to be used.
3. Training starting date for each classification.

Obtain the City of San Leandro approval for this submitted information before you start work. The City of San Leandro credits you for each apprentice or trainee you employ on the work who is currently enrolled or becomes enrolled in an approved program.

The primary objective of this section is to train and upgrade minorities and women toward journeymen status. Make every effort to enroll minority and women apprentices or trainees, such as conducting systematic and direct recruitment through public and private sources likely to yield minority and women apprentices or trainees, to the extent they are available within a reasonable recruitment area. Show that you have made the efforts. In making these efforts, do not discriminate against any applicant for training.

Do not employ as an apprentice or trainee an employee:

1. In any classification in which the employee has successfully completed a training course leading to journeyman status, or in which the employee has been employed as a journeyman.
2. Who is not registered in a program approved by the US Department of Labor, Bureau of Apprenticeship and Training.

Ask the employee if the employee has successfully completed a training course leading to journeyman status, or has been employed as a journeyman. Your records must show the employee's answers to the questions.
In your training program, establish the minimum length and training type for each classification. The City of San Leandro and FHWA approves a program if one of the following is met:

1. It is calculated to:

    1.1. Meet your equal employment opportunity responsibilities.

    1.2. Qualify the average apprentice or trainee for journeyman status in the classification involved by the end of the training period.

2. It is registered with the U.S. Department of Labor, Bureau of Apprenticeship and Training and it is administered in a way consistent with the equal employment responsibilities of federal-aid highway construction contracts.

Obtain the State's approval for your training program before you start work involving the classification covered by the program.

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Provide training in the construction crafts, not in clerk-typist or secretarial-type positions. Training is allowed in lower level management positions such as office engineers, estimators, and timekeepers if the training is oriented toward construction applications. Training is allowed in the laborer classification if significant and meaningful training is provided and approved by the division office. Off-site training is allowed if the training is an integral part of an approved training program and does not make up a significant part of the overall training.

The City of San Leandro reimburses you 80 cents per hour of training given an employee on this contract under an approved training program:

1. For on-site training.
2. For off-site training if the apprentice or trainee is currently employed on a federal-aid project and you do

   at least one of the following:

   2.1. Contribute to the cost of the training.
   2.2. Provide the instruction to the apprentice or trainee.
   2.3. Pay the apprentice's or trainee's wages during the off-site training period.

3. If you comply with this section.

Each apprentice or trainee must:

1. Begin training on the project as soon as feasible after the start of work involving the apprentice's or trainee's skill.
2. Remain on the project as long as training opportunities exist in the apprentice's or trainee's work classification, or until the apprentice or trainee has completed the training program.

Furnish the apprentice or trainee:

1. Copy of the program you will comply with in providing the training.
2. Certification showing the type and length of training satisfactorily completed.

Maintain records and submit reports documenting your performance under this section.

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PART 2 - CONSTRUCTION MATERIALS

Materials for all work performed on public property in the City of San Leandro shall conform with the Standard Specifications for Public Works Construction, the "GREENBOOK", the 2006 edition and the 2008 supplement thereto, adopted by the Southern California Chapter of the American Public Works Association; and Sections 84, 85, and 86 of the May 2010 edition of California Department of Transportation (Caltrans) Standard Specifications; the 2012 California Manual on Uniform Traffic Control Devices (MUTCD); and the Special Provisions (Technical Specifications) thereto adopted by the Engineer as follows:

All work within the public Right-of-Way or on public property of the City of San Leandro shall be performed under auspices of either improvement drawings signed and approved by the Engineer or a valid encroachment permit.

Additions or Revisions to the following Green Book Specifications are included in this section:

Section 200- Rock Materials
Section 202 – Cement, Mortar, and Related Materials
Section 202-3 – Unit Pavers
Section 203 – Bituminous Materials
Section 206 – Miscellaneous Metals
Section 209 – Electrical Components
Section 210 – Paint and Protective Coatings
Section 211 – Soils and Aggregate Tests
Section 212 – Landscape and Irrigation Materials
Section 213 – Engineering Fabric
Section 214 – Pavement Markings
Section 215 – Roadside Signs, Construction Area Signs, and Traffic Control Signs
Section 216 – Miscellaneous Landscape Items
Section 217 – Ornamental Concrete
Section 218 – Portland Cement Plaster

SECTION 200 – ROCK MATERIALS

200-1 ROCK PRODUCTS. Rock products shall conform to the provisions of Section 200-1 "Rock Products," of the Standard Specifications, these Special Provisions, and the Standard Plans.

200-1.1 GENERAL. The following is added to Section 200-1.1 "General" of the Standard Specifications: A Certificate of Compliance shall be furnished by the Contractor for all aggregate used under these specifications.

The contractor shall furnish all labor, materials, equipment, and incidentals required to perform all operations in connection with the Street Rehabilitation Project, in accordance with the lines, grades, design and dimensions shown on the plans, the Standard Specifications and these Special Provisions.

200-1.2 CRUSHED ROCK AND ROCK DUST. The following is added to Section 200-1.2 "Crushed Rock and Rock Dust" of the Standard Specifications: percentage of material with fractured faces shall be determined by California Test 205.

Table 200-1.2A is revised as follows for 19 mm (3/4 in) Crushed Drain Rock:

TABLE 200-1.2 (A)

Percentage Passing Sieves	
Sieve Size	19.0 mm (3/4 in)
37.5 mm (1-1/2 in)	-
25.0 mm (1 in)	100
19.0 mm (3/4 in)	90 – 100
12.5 mm (1/2 in)	10 – 60
9.5 mm (3/8 in)	0 – 20
4.75 mm (No. 4)	0 – 5
2.36 mm (No. 8)	-
ASTM C 131 Test Grading	B

200-1.2.1 Screenings The following is added to Section 200-1.2.2 of the Standard Specifications: Screenings shall be medium fine size 8.0 x 2.36 mm (5/16" x No. 8) as shown in Table 200-1.2.1 (A) of the Standard Specifications.

200-1.4 COURSE AGGREGATE FOR CEMENT CONCRETE. Concrete aggregate shall be No. 3 of Table200-1.4 (B)

Sieve Sizes	Percent Passing Sieve
6"	100%
4"	25 – 100%
1"	5 – 25%
¾"	0 – 5%

200-2 UNTREATED BASE MATERIALS Untreated base materials shall conform to the provisions of Section 200-2 "Untreated Base Materials," of the Standard Specifications and these Special Provisions.

200-2.2 Crushed Aggregate Base Crushed aggregate base (CAB) shall conform to the provisions of Section 200-2.2 of the Standard Specifications and these Special Provisions.

A minimum of 25% recycled aggregate (crushed concrete, by weight) shall be used in this project. Contractor to submit tags for verification by Engineer.

200-2.2.1 General The following is added to section 200-2.2 of the Standard Specifications:

Material shall conform with this section or with Section 26-1.02A, Class 2 Aggregate Base, of the Caltrans Standard Specifications.

200-2.2.3 Quality Requirements The following modifications are made to Section 200-2.2.3 of the Standard Specifications:

The percentage wear test shall be waived. R-value shall be 78 minimum. Sand Equivalent shall be 30 minimum.

200-2.4 Crushed Miscellaneous Base Crushed miscellaneous base (CMB) shall conform to the provisions of Section 200-2.4 of the Standard Specifications and these Special Provisions.

200-2.4.1 General The following is added to Section 200-2.4.1 of the Standard Specifications:

Material shall conform with this section or with Section 25-1.02A, of the Caltrans Standard Specifications; material defined as coarse shall conform with class 1, material defined as fine shall conform with class 2.

200-2.4.3 Quality Requirements The following modifications are made to Section 200-2.4.3 of the Standard Specifications:

The percentage wear test shall be waived. R-value shall be 60 minimum. Sand Equivalent shall be 25 minimum.

200-2.5 Processed Miscellaneous Base Processed miscellaneous base shall conform to the provisions of Section 200-2.5, "Processed Miscellaneous Base," of the Standard Specifications and these Special Provisions.

200-2.5.3 Quality Requirements The following modifications are made to Section 200-2.5.3 of the Standard Specifications:

The percentage wear test and R-value shall be waived. Sand equivalent shall be 25 minimum.

200-2.6 Select Subbase Work shall be done per the Standard Specifications.

SECTION 201 – CONCRETE, MORTAR AND RELATED MATERIALS

201-1 PORTLAND CEMENT CONCRETE. Portland cement concrete shall conform to the provisions of Section 201-1, "Portland Cement Concrete," of the Standard Specifications, these Special Provisions and the Standard Plans.

201-1.1.2 CONCRETE SPECIFIED BY CLASS AND ALTERNATE CLASS The second sentence of the second paragraph has been replaced with the following:

The first number is the weight of cementitious material in kg per m^3 (lb. per yd^3), which consists of 75% portland cement conforming to 201-1.2.1, and a minimum of 25% flyash conforming to section 210-1.2.5. Concrete supplier shall submit concrete mix design with quality control test sample results for approval by Engineer.

The following provisions are added to Table 210-1.1.2(A) of the Standard Specifications:

MANHOLE CONSTRUCTION Portland cement concrete for manhole construction including bases, as shown on City Standard Plans for "Type A Concrete Manhole," (Dwg. 214, Case 3101), and "Type B Concrete Manhole," (Dwg. 216, Case 3101), and monument post concrete (Dwg. 134, Case 3101), shall be class 213-C-17, (470-C-2500; 5 sack, 1", 2500psi), unless otherwise indicated. Portland cement concrete for manhole collar construction, as shown on City Standard Plans for "Utility Frame and Cover Adjustment," (Dwg. 222, Case 3101), shall be class 390-C-28, (660-C-4000; 7 sack, 1", 4000psi) with 2.7kg (6lbs) of lampblack per cubic yard, unless otherwise indicated.

201-2 REINFORCEMENT FOR CONCRETE. Work and material shall be per the Standard Specifications.

201-2.3 FIBER REINFORCEMENT. The following is added to City Standard Plan 222, Section 201-2.3 of the Standard Specifications. Concrete for utility frame and cover adjustments shall contain 0.68 Kg (1 ½ lbs) of concrete engineered reinforcing fibers per cubic yard. Fibers shall be Type III, consisting of 100% virgin homopolymer polypropylene, multifilament fibers. Fibermesh 150 from Propex Concrete Systems Corp, Chattanooga, TN, 1-8000621-1273, www.fibermesh.com, or approved equal.

201-3 EXPANSION JOINT FILLER AND JOINT SEALANTS Expansion Joint Filler and Joint Sealants shall conform to the provisions of Section 201-3, "Expansion Joint Filler and Joint Sealants," of the Standard Specifications and these Special Provisions.

201-3.2 PREMOLDED JOINT FILLER The following is added to Section 210-3 of the Standard Specifications:

EXPANSION JOINT FILLER for Portland cement concrete "Concrete Curbs , Walks, Gutters, and Driveways," shall be 6mm (1/4") Nonextruding and Resilient Filler (Bituminous) ASTM 1751.

EXPANSION JOINTS shall be installed in accordance with Section 303-5.4.2 of the Standard Specifications and these Special Provisions.

201-4 CONCRETE CURING COMPOUND. Work shall be done per the Standard Specifications.

201-5 CEMENT MORTAR Cement Mortar shall conform to the provisions of Section 201-5, "Cement Mortar," of the Standard Specifications and these Special Provisions.

The following is added to Section 201-5 of the Standard Specifications:

MANHOLE MORTAR AND PLASTER Mortar and plaster for manhole frame and cover adjustment shown on City Standard Plan for "Utility Frame and Cover Adjustment," (Dwg. 222, Case 3101) shall be Class D conforming to the provisions of Section 201-5, "Cement Mortar," of the Standard Specifications to which ¼ to ½ part hydrated lime or lime putty has been added as specified in Section 202-1.5.1 "Mortar," of the Standard Specifications.

201-6 CONTROLLED LOW STRENGTH MATERIAL (CLSM). Controlled low strength material shall conform with Section 201-6 "Controlled Low Strength Material" of the Standard Specifications and these Special Provisions. The following is added to Section 201-6.1 of the Standard Specifications: Controlled Density Fill (CDF) shall conform with the requirements for CLSM.

201-6.2 MATERIALS The following is added to Section 201-6.2 of the Special Provisions:

CONTROLLED DENSITY FILL (CDF) for excavation backfill shall be a mixture of cement, fly ash, sand, air entraining agent and water batched by a ready mixed concrete plant and delivered to the jobsite by means of transit mixing trucks. Each cubic yard of CDF shall conform to the following requirements in the subsections below:

201-6.2.1 PORTLAND CEMENT
PORTLAND CEMENT Portland Cement for CDF shall be Type II Cement (ASTM C-150) - 14kg – 18 kg (30-40 lbs) **maximum** per cubic yard.

201-6.2.2 AGGREGATES
SAND Sand for CDF shall conform to the gradation for asphalt concrete sand shown in Table 200 – 1.5.5 (A) of the Standard Specifications.

COARSE AGGREGATES – Coarse aggregates for CDF shall conform to gradation for No. 4 aggregates shown in Table 200-1.4(B)

201-6.2.4 ADMIXTURES
AIR ENTRAINING AGENT Air entraining agent for CDF shall conform to ASTM C-260 and shall result in 7% minimum entrained air.

201-6.2.5 FLY ASH
FLY ASH Fly ash for CDF shall be Type F, ASTM C-618, 136kg (300lbs) minimum per cubic yard

201-6.3 PROPORTIONING. CDF for excavation backfill shall be a mixture of cement, fly ash, sand, air entraining agent and water batched by a ready mixed concrete plant and delivered to the jobsite by means of transit mixing trucks. Each cubic yard of CDF shall contain the following:

Type II Cement (ASTM C-150) - 14kg – 18 kg (30-40 lbs) per cubic yard.

Type F Fly Ash (ASTM C-618) - 136 kg. (300 lbs) per cubic yard.

Sand – Conforming to the gradation for asphalt concrete shown in Table 200 – 1.5.5 (A) of the Standard Specifications.

Air Entraining Agent (ASTM C-260) – Entrained air shall be 7% minimum.

Slump – 150 – 200 mm (6" – 8")

Compressive Strength – Unconfined, 28 day compressive strength shall be 345 – 1035 kPa (50 – 150 psi).

The actual mix proportions shall be determined by the producer, subject to prior approval by the Engineer.

201-6.5 TESTING The following is added to Section 201-6.4 of the Standard Specifications:

SLUMP The minimum slump for CDF shall be 150 – 200 mm (6" – 8")

COMPRESSIVE STRENGTH The maximum unconfined, 28 day compressive strength shall be 345 – 1035 kPa (50 – 150 psi).

201-6.6 PLACEMENT Contractor's attention is hereby directed to Section, 306-1.3, "Backfill and Densification," the Standard Specifications and these Special Provisions.

201-7 NON-MASONRY GROUT. The following is added to section 201-6.1 of the Standard Specifications: The grout must be a cementitous, flowable, non-shrink product. Grout shall be Cellcrete or approved equal.

SECTION 202-3 UNIT PAVERS

202-3.1 SECTION INCLUDES

A. Concrete paver units per plans.
B. Granite Sets as shown on Plans
C. Mortar
D. Grout, color as shown on plans.

202-3.2 REFERENCES

A. American Society of Testing and Materials (ASTM):
   1. C 33, Specification for Concrete Aggregates.
   2. C 136, Method for Sieve Analysis for Fine and Coarse Aggregate.
   3. C 140, Sampling and Testing Concrete Masonry Units.
   4. C 144, Standard Specification for Aggregate for Masonry Mortar.
   5. C 936, Specification for Solid Interlocking Concrete Paving Units.
   6. C 979, Specification for Pigments for Integrally Colored Concrete.
   7. D 698, Test Methods for Moisture Density Relations of Soil and Soil Aggregate Mixtures using a 5.5-lb (2.49 kg) Rammer and 12 in. (305 mm) drop.
   8. D 1557, Test Methods for Moisture Density Relations of Soil and Soil Aggregate Mixtures using a 10-lb (4.54 kg) Rammer and 18 in. (457 mm) drop.
   9. D 2940, Graded Aggregate Material for Bases or Subbases for Highways or Airports.

202-3.3 QUALITY ASSURANCE

A. Installation shall be by a contractor and crew with at least one year of experience in placing interlocking concrete pavers on projects of similar nature or dollar cost.
B. Contractor shall conform to all local, state/provincial licensing and bonding requirements.

202-3.4 SUBMITTALS

A. Shop or product drawings, and product data.
B. One full size samples of concrete and granite paving units to indicate color and shape selections.
C. Sieve analysis for grading of bedding and joint sand.
D. Test results from an independent testing laboratory for compliance of paving unit requirements to ASTM C 936 or other applicable requirements.
E. Indicate layout, pattern, and relationship of paving joints to fixtures and project formed details.
F. Manufacturers cut sheets on Mortar and Grout (showing color type).

202-3.5 MOCK-UPS

A. Install a 7 ft. x 7 ft. (2 m x 2 m) paver area of each pattern type.
B. This area will be used to determine surcharge of the bedding sand layer, joint sizes, lines, laying pattern(s), color(s), and texture of the job.
C. This area shall be the standard form, which the work will be judged and shall be incorporated into the work.

202-3.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver concrete and granite paver sets/paving units to the site in steel banded, plastic banded, or plastic wrapped cubes capable of transfer by fork lift or clamp lift. Unload pavers at job site in such a manner that no damage occurs to the product.
B. Cover sand with waterproof covering to prevent exposure to rainfall or removal by wind. Secure the covering in place.
C. Coordinate delivery and paving schedule to minimize interference with normal use of buildings adjacent to paving.

202-3.7 CONCRETE PAVERS

A. Supplied by a member of the Interlocking Concrete Pavement Institute (ICPI).
The ICPI supplier: **Calstone – Interlocking Paving Stones** (or approved equal).
Phone 1-408-686-9627 Fax: 1-408-686-9127 (San Martin, CA)
Or 1-408-984-8800 Fax: 1-408-984-2648 (Sunnyvale, CA)

B. Product: Mission Series 6 x 6 x 2-3/8 inch: (color and finish as shown on plans)

C. Meet the following requirements set forth in ASTM C 936, Standard Specification for Interlocking Concrete Paving Units:
1. Average compressive strength of 8,000 psi (55 MPa) with no individual unit under 7,200 psi (50 MPa).
2. Average absorption of 5% with no unit greater than 7% when tested in accordance with ASTM C 140.
3. Resistance to 50 freeze-thaw cycles when tested according to ASTM C 67.

D. Pigment shall conform to ASTM C 979.

202-3.8 GRANITE PAVERS

A. Supplied as indicated on Detail C, Sheet LD1 of the Plans.

SECTION 203 BITUMINOUS MATERIALS

203-1 PAVING ASPHALT. Paving asphalt shall conform to the provisions of Section 203-1, "Paving Asphalt," of the Standard Specifications and these Special Provisions.

203-2 LIQUID ASPHALT. Liquid asphalt shall conform to the provisions of Section 203-2 "Liquid Asphalt" of the Standard Specifications and these Special Provisions.

203-2.1 GENERAL. The following is added to Section 203-2.1 of the Standard Specifications:

PRIME COAT Prime coat shall be SC-70.

TACK COAT Tack coat used as asphalt binder for pavement reinforcing fabric shall be PG 64-10.

203-3 EMULSIFIED ASPHALT. Emulsified asphalt shall conform to the provisions of Section 203-3 "Emulsified Asphalt" of the Standard Specifications and these Special Provisions.

203.3.1 GENERAL. The following is added to Section 203-3.1 of the Standard Specifications:

FOG SEAL Fog seal shall be SS1h with one part water added to one part emulsified asphalt.

TACK COAT Excepting asphalt binder for pavement reinforcing fabric or mesh, tack coat shall be SS1h with no water added.

203-6 ASPHALT CONCRETE. Asphalt Concrete shall conform to the provisions of Section 203-6, "Asphalt Concrete," of the Standard Specifications and these Special Provisions.

203-6.1 GENERAL. The following is added to Section 203-6.1 of the Standard Specifications:

Asphalt Concrete for base courses shall be PG 64-10 or PG 64-10 RAP (15% maximum reclaimed asphalt pavement), 3/4-inch maximum Caltrans Type A aggregate.

Asphalt Concrete for surface courses shall **ONLY** be PG 64-10, 3/4-inch maximum Caltrans Type A aggregate.

The Engineer may specify PG-70-10 Paving Grade Asphalt to bridge poor subgrade conditions or if air temperatures become hot enough to warrant its use at no additional cost to the City.

CRACK FILLER Asphalt concrete for filling cracks larger than one (1") inch and other uses as directed by the Engineer shall be F-PG-64-10 (channel liner/sheet fines) conforming to Table 203-6.4.3 (A).

TEMPORARY PAVEMENT TRANSITION Asphalt concrete for temporary pavement transitions shall be class D2-SC-800 ("cut back").

TEMPORARY RESURFACING Asphalt concrete for temporary trench resurfacing shall be class D2-SC-800 ("cut back").

203-6.3.2 AGGREGATE Coarse aggregate shall conform to the provision of Section 203-6.3.2 "Aggregate," and these Special Provisions. Coarse and fine aggregate fractured faces shall meet the requirements of 200-1.2 as tested by California Test 205. (Caltrans Type 'A', Coarse, equivalent).

The required grading of the combined aggregates and the percentage of asphalt binder, represented by "B" above, shall conform to the requirements indicated in Section 203-6.4.2, "Composition and Grading," of the Standard Specifications (Type 'A' coarse, Caltrans equivalent).

SECTION 203-7 RECYCLED ASPHALT CONCRETE-HOT MIXED

203-7.1 GENERAL Recycled asphalt concrete (RAC) shall conform to the provisions of Section 203-7, "RECYCLED ASPHALT CONCRETE-HOT MIXED," of the Standard Specifications and these Special Provisions.

The Contractor shall use recycled asphalt concrete (RAC) conforming to Section 203-7 for base courses (lower lifts) and pavement repairs ONLY. All surface or riding courses (final lifts) shall be Asphalt Concrete conforming to Section 203-6.

The amount of recycled asphalt concrete shall be fifteen (15) percent or less of the total mix. The product shall meet both the asphalt grade and gradation specified in these Special Provisions.

The supplier of recycled asphalt concrete shall maintain a job mix formula at the plant. The formula shall be based on current test data and shall conform to Section 203-7.2.2 of the Standard Specifications. RAC mix designs and all test data shall be submitted to the Engineer for his review and approval before the use of any RAC material on the project.

Recycled asphalt concrete shall be PG 64-10 RAC, unless otherwise specified (Caltrans Type A, 3/4" max, course equivalent). The Engineer may specify PG 70-10 Paving Grade Asphalt to bridge poor subgrade conditions or provide resistance to retting or, if air temperatures become hot enough to warrant its use, at no additional cost to the City.

203-8 ASPHALT PAINT. Work shall be done per the Standard Specifications.

SECTION 206 MISCELLANEOUS METAL ITEMS

206-3 GRAY IRON CASTINGS Gray Iron Castings shall conform to the provisions of Section 206-3, "Gray Iron Castings," of the Standard Specifications and these Special Provisions.

206-3.3 MANHOLE FRAME AND COVER SETS. The following is added to Section 203-3.3 of the Standard Specifications: Manhole Frame and Covers shall be as shown on Standard Plan 220. The following suppliers stock frames and covers that meet these specifications:

D&L Supply	Phoenix Iron Works
250 5th Street	888 Cedar Street
Oakland, CA 94606	Oakland, CA 94607
(510) 832-2171	(510) 465-9900

EBMUD VALVE POTS:
EBMUD shall furnish the contractor with EBMUD standard water valve pot grade rings and G-5 valve boxes and covers at no cost to the contractor. The Contractor shall be responsible for the transportation of these water valve pot grade rings, boxes, and covers from EBMUD, Oakport Storage, 5601 Oakport Street, Oakland, CA 94621-4001.

If Additive Bid Item A1 is not incorporated into the contract, then EBMUD shall adjust their own water valve pots and manholes.

SURVEY MONUMENT Survey Monument Frame and Covers shall be adjusted as shown on Standard Plan 134.

206-5.3 PEDESTRIAN BARRICADES. The following is added to Section 206-5, Metal Railings, of the Standard Specifications: Pedestrian barricades shall be Type I per Caltrans Standard Plan ES-7P with R49 sign in the direction indicated on the project plans.

SECTION 207 PIPE

207- GENERAL The following is added to Section 207 of the Standard Specifications:

Pipe material for the 15" pipeline modification at manhole 100+21 shall be vitrified clay pipe.

207-25 CONCRETE MANHOLES This section, 207-25, and the provisions below, are added to Section 207 of the Standard Specifications:

207-25.1 GENERAL Precast concrete manhole sections shall be reinforced and shall conform to ASTM C-478. All manholes sections shall have tongue and groove joints and shall be sealed with preformed mastic (Ramnek, Kent Seal or equal). All manhole sections, including cones and grade rings, shall be PVC T-Lock lined. PVC lining shall be installed in accordance with the manufacturer's recommendations. PVC lining color shall be white.

Manholes which are located at the upstream extent of a main line and have no significant inflow from laterals are excluded from the PVC lining requirement, unless otherwise indicated on the Plans.

207-25.2 MANHOLE BASES AND COLLARS Manhole bases and collars shall be cast-in-place concrete constructed in accordance with the City's Standard Details (**pre-cast bases are prohibited**). The inside of manhole bases shall be coated with corrosion resistant high-build epoxy and/or sealed with

PVC T-Lock lining. Contractor's attention is directed to Section 500-2 and 500-4 of these Special Provisions for the requirements of all epoxy coatings in new and rehabilitated sanitary sewer manholes.

All sewer manholes shall have a shelf and channel constructed per the City's Standard Details.

SECTION 208 PIPE JOINT TYPES AND MATERIALS

208 PIPE JOINT TYPES AND MATERIALS Pipe Joint Types and Materials shall conform to the provisions of Section 208, "Pipe joint Types and Materials," of the Standard Specifications and these Special Provisions.

208-2 Joints for Clay Pipe The following is added to Section 208-2 of the Standard Specifications:

Joints Joints for repairs shall be Type "D" conforming to Section 208-2.2, "Type "D" Joints," of the Standard Specifications.

208-7 Joints for PVC and HDPE Pipe The following Section 208-5, "Joints for PVC Pipes," is added to the Standard Specification.

Joints for PVC Pipe All pipe shall have a home mark on the spigot end to indicate proper penetration when the joint is made. All joints shall be "Elastomeric Gasket Joints" joints shall be manufactured with a socket configuration which will prevent improper installation of the gasket and will ensure that the gasket remains in place during the joint operation. The gasket shall be manufactured from a synthetic elastomer and shall conform to the requirements of 208-1.2 and 208-4.

SECTION 209 – ELECTRICAL COMPONENTS

209-2 REFERENCE SPECIFICATIONS

The following is added to Section 209-2 “Reference Specifications” of the Standard Specifications and these Special Provisions:

All work performed on Traffic Signal systems shall be performed by electricians certified pursuant to Labor Code 3099 et. seq. and California Code of Regulations (CCR) Title 8, Section 230 et. seq. Copies of said certificates shall be provided in accordance with Section 2-5.3.4, Section 6-1, and Section 7-5 of these Special Provisions.

209-2.5 MATERIALS FOR TRAFFIC SIGNAL SYSTEMS

The material furnished for the Traffic Signal System shall conform to the provisions of Section 86, "Signals and Lighting," of the most current edition of the California Department of Transportation (Caltrans) Standard Specifications and as specified below.

Standard Plans referenced in this Section 209, "Electrical Components," for Traffic Signal Systems shall mean the most current edition of the California Department of Transportation (Caltrans) Standard Plans and particularly shall include but not be limited to Drawings:

ES-1A SYMBOLS AND ABBREVIATIONS

ES-1B SYMBOLS AND ABBREVIATIONS

ES-2C SERVICE EQUIPMENT NOTES TYPE III SERIES

ES-2D SERVICE EQUIPMENT AND TYPICAL WIRING DIAGRAM -TYPE IIIA SERIES

ES-3A CONTROLLER CABINET DETAILS

ES-3C CONTROLLER CABINET DETAILS

ES-4A SIGNAL HEADS AND MOUNTINGS

ES-4B SIGNAL HEADS AND MOUNTINGS

ES-4C SIGNAL HEADS AND MOUNTINGS

ES-4D SIGNAL HEADS AND MOUNTINGS

ES-4E SIGNAL HEADS AND MOUNTINGS

ES-5C SIGNAL, LIGHTING AND ELECTRICAL SYSTEMS DETECTORS

ES-6A LIGHTING STANDARDS

ES-7B SIGNAL AND LIGHTING STANDARDS TYPE 1 STANDARDS

ES-7F SIGNAL AND LIGHTING STANDARDS

ES-7M SIGNAL AND LIGHTING STANDARDS DETAIL No.1

ES-7N SIGNAL AND LIGHTING STANDARDS DETAIL No.2

ES-7P PEDESTRIAN BARRICADES

ES-8 PULL BOX DETAILS

ES-10 ISOLUX DIAGRAMS

ES-11 FOUNDATION INSTALLATIONS

209-2.6 EQUIPMENT LIST Unless otherwise permitted in writing by the Engineer, the Contractor shall, within 15 days following approval of the contract, submit to the Engineer for review, a list of equipment and materials which he proposes to install as specified in Section 5-1.02 of the Standard Specifications. The list shall provide the Engineer a means by which to approve partial payments. The list shall be complete as to name of manufacturer, size, and identifying number of each item. In addition, the Contractor shall, in accordance with 2-5.3, submit detailed drawings and wiring diagrams for all electrical equipment to be used. The Agency will not be liable for any material purchased, labor performed, or delay to the Work prior to review of documents required above.

If requested by the Engineer, the Contractor shall submit for review sample articles of the material proposed for use. After review, said sample articles will be returned to the Contractor.

Equipment list and drawings of electrical equipment and material shall conform to the provisions of Section 86-1.03, "Equipment List and Drawing", of the Caltrans Standard Specifications and these Special Provisions.

209-2.7 MAINTAINING EXISTING AND TEMPORARY ELECTRICAL SYSTEMS Existing electrical systems (traffic signal and street lighting and other facilities), or approved temporary replacements thereof, shall be kept in effective operation for the benefit of the traveling public during the progress of the work, except when shutdown is permitted, to allow for alterations or final removal of the systems. The traffic signal shutdowns shall be limited to normal working hours, or shall be as specified in the Special Provisions. Lighting system shutdowns shall not interfere with the regular lighting schedule, unless otherwise permitted by the Engineer. The Contractor shall notify the Engineer 48 hours prior to performing any work on existing systems.

209-2.10 CONDUCTOR IDENTIFICATION All single conductors and cables, except detector lead-in cables, shall have clear, distinctive and permanent markings on the outer surface throughout the entire length showing the manufacturer's name or trademark, insulation type letter designation, conductor size, voltage rating and the number of conductors if a cable. Conductor identification shall conform to the provisions of Section 86-2.08A "Conductor Identification" of the Caltrans Standard Specifications.

209-2.11 SPLICING Splicing shall conform to the provisions of Section 86-2.09 "Wiring" of the Caltrans Standard Specifications.

209-3 COMPONENTS FOR STREET LIGHTING AND TRAFFIC SIGNAL SYSTEMS. The following is added to Section 209-3 "Components for Street Lighting and Traffic Signal Systems" of the Standard Specifications and these Special Provisions:

The material furnished for Traffic Signal Systems shall conform to the provisions of Section 86, "Signal and Lighting", of the May 2010 edition of the California Department of Transportation (Caltrans) Standard Specifications. Standard Plans referenced in this Section 209, "Electrical Components", for Traffic Signal Systems shall mean the most current edition of the California Department of Transportation (Caltrans) Standard Plans.

209-3.5 CONDUIT

Conduits shall be installed as shown on the plans. Materials and installation shall conform to the provisions of Section 86-2.05 "Conduit" of the Caltrans Standard Specifications. At a minimum, all buried conduits shall be provided with a pull rope and tracing conductor.

Conduit shall be 2” minimum rigid non-metallic conforming to the provisions of Section 86-2.05A(3).

Rigid non-metallic conduit shall be furnished with a ground wire conforming to the specifications in Section 209-3.6.1 of these Special Provisions.

209-3.6 CONDUCTORS AND CABLES

209-3.6.1 GENERAL
Conductors, cables and wiring shall conform to the provisions in Section 86-2.8, "Conductors", of the Caltrans Standard Specifications and these Special Provisions.

Except as provided for elsewhere in these Special Provisions, all conductors, No. 12 and smaller, shall be solid copper with type THHN insulation.

GROUND WIRE Ground wire required in rigid non-metallic conduit shall be #8 stranded copper with Type THWN green insulation, or bare.

TRACING CONDUCTOR Tracing conductor shall be No. 12 with THHN insulation.

209-3.7 DETECTORS. The following modifications are made to Section 209-3.7 “Detectors”:

209-3.7.1 GENERAL. Detector handholes shall be installed at all inductive loop locations conforming to the details on Standard Plan ES-5D.

209-3.7.2 INDUCTIVE LOOP DETECTORS. The following is added to Section 209-3.7.2 “Inductive Loop Detectors”.

209-3.7.2.3 CONDUCTORS.

INDUCTIVE LOOP DETECTOR Inductive loop detectors shall be Type 2 conforming to the provisions of Section 86-5.01A(4), “Construction Material” of the Caltrans Standard Specifications.

DETECTOR LEAD-IN CABLE. Detector lead-in cable (DLC) shall be Type B conforming to the provisions of Section 86-5.01A(4), “Construction Material” of the Caltrans Standard Specifications.

209-3.7.2.4 INDUCTIVE LOOP SLOT SEALANT. Sealant for inductive loop detectors shall conform to the provisions of Section 86-5.01A(5), “Installation Details,” for Asphalt Emulsion sealant of the Caltrans Standard Specifications and these Special Provisions.

209-3.9 FOUNDATIONS Foundations shall be as shown on the plans or applicable City of San Leandro Standard Plans and shall conform to the provisions of Section 86-2.03, “Foundations” of the Caltrans Standard Specifications and these Special Provisions.

Portland cement concrete for foundation shall be 285-C-17 (470-C-2500; 5 sack, 1” 2500) except concrete for reinforced pile foundations shall be 330-C-23 (564-C-380; 6 sack, 1”,3250).

209-3.10 PULL BOXES Pull boxes shall be located as shown on the plans.

Pull boxes shall conform to the provisions of Section 86-2.06, "Pull Boxes" of the Caltrans Standard Specifications and these Special Provisions.

Pull boxes and covers shall be precast reinforced concrete conforming to the details shown on Caltrans Standard Plan ES-8. Pull boxes shall be No.5 unless otherwise shown on the plans. Covers shall be marked "Traffic Signal." Covers shall be secured to the pull box in accordance with Section 6-2.06A, "Materials" of the Caltrans Standard Specifications.

209-3.11 STANDARDS, STEEL PEDESTALS, AND POSTS Standards for traffic signals and lighting, and steel pedestals for cabinets and other similar equipment shall be located as shown on the plans. Standards, steel pedestals and posts shall conform to the provisions of Section 86-2.04 "Standards, Steel Pedestals and Posts" of the Caltrans Standard Specifications.

209-3.12 PHOTOELECTRIC CONTROLS Photoelectric controls Type IV, with materials and installation conforming to the provisions of Section 86-6.07 of the Caltrans Standard Specifications shall be furnished and installed by the Contractor. Photoelectric controls shall be oriented to the North and shall be mounted on each pole.

209-3.13 CONTROLLER ASSEMBLY The Contractor shall shall furnish and install Type P Cabinet and NAZTEC Model 980 TS2 Type 1 Ethernet Controller. Contractor shall add any necessary equipment into the controller cabinet for signal operation. The Type P Cabinet and NAZTEC Controller shall meet the requirements of the City. The cabinet shall be fully wired, configured, and equipped, including the MMU, load switches, video detector units, with 32 channel detection capability, Opticom Emergency Vehicle Detection Unit and other appurtenances necessary to operate the signal system as shown on the plans. The controller cabinet shall be aluminum.

The Contractor shall field test the controller assembly in accordance with the City of San Leandro's requirements and as specified in Section 86, "Signals and Lighting" of the standard specifications. The City of San Leandro shall be present during all testing and provide approval of the testing procedure and final results. The traffic signal system will not be considered complete until the City has provided written acceptance of the system.

The Contractor shall furnish and install 3M-opticom or approved equal emergency signal preemption system consisting of 721 series detectors per plan, 752 series phase selectors (minimum two and with one 1560 chassis), and required length of unspliced type M138 cable per plan.

SYSTEM OPERATION AND FINAL SETTING--Upon installation, the Contractor shall demonstrate that all of the components of the preemption system are compatible and will perform satisfactorily as a system. The Contractor shall arrange to have the system vendor test the installed system to the satisfaction to the Engineer and system vendor. The vendor's representative shall furnish an optical emitter assembly for testing that shall be fully compatible with the existing City-owned emitters.

After demonstrating that the detector/discriminator assemblies are capable of working on both Class I (mass transit and Class II (emergency) signals, adjust the range of the Class I signals to minimum distance or maximum intensity on the discriminators (phase selectors) so that no Class I signals from any mass transit can activate the preemption systems at any of the locations of this project.

For work within the existing City owned traffic signal controller cabinet, the Contractor shall retain services of personnel qualified and experienced to make all necessary field connections within the cabinet. Documentation of the qualifications and experiences shall be provided to the City for approval at the pre-construction meeting. The City staff will inspect and test the installed system and prepare a punch list of the corrective measures (if required). The Contractor shall undertake all corrective measures to the satisfaction to the Engineer and staff.

Liability Insurance - The manufacturer of the required signal preemption system will provide a certificate of product liability insurance protection for $5,000,000 assuring the system user that manufacturer is insured against civil damages if proven to be at fault for an accident due to any equipment failure (detector, discriminator, cable, etc.,) within the system. The certificate however need not, and is not meant to, provide liability insurance protection to the system dealer, installer, or user.

209-3.14 FIBER OPTIC CABLE

209-3.14.1 Quality Assurance

All work and material described in this section shall meet or exceed the applicable provisions of the following documents:

- CFR, Title 7, Chapter XVII, Part 1755, Sec. 1755.900, RUS Specification for Filled Fiber Optic Cables
- ANSI/ICEA S-56-434-1983, Polyolefin Insulated Communications Cables For Outdoor Use, Reaffirmed October 18, 1991
- TIA/EIA-598-A, Optical Fiber Cable Color Coding (ANSI/TIA/EIA-598-A-95)
- TIA/EIA-455-28C, FOTP-28 - Method for Measuring Dynamic Tensile Strength and Fatigue Parameters of Optical Fibers by Tension (ANSI/EIA-455-28C-99)
- EIA/TIA-455-82B, FOTP-82 - Fluid Penetration Test for Fluid-Blocked Fiber Optic Cable (ANSI/EIA/TIA-455-82B-92)
- TIA/EIA-455-95, FOTP-95 - Absolute Optical Power Test for Optical Fibers and Cables
- EIA-359-A-1, Colors for Color Identification and Coding (See ANSI C83.1)
- EIA/TIA-455-81A, FOTP-81 - Compound Flow (Drip) Test for Filled Fiber Optic Cable (ANSI/EIA/TIA-455-81A-91)
- TIA/EIA-455-25B, FOTP-25 - Repeated Impact Testing of Fiber Optic Cables and Cable Assemblies (ANSI/TIA/EIA-455-25B-96)
- TIA/EIA-455-41A, FOTP-41 - Compressive Loading Resistance of Fiber Optic Cables (ANSI/TIA/EIA-455-41A-93)
- TIA/EIA-455-33A, FOTP-33 - Fiber Optic Cable Tensile Loading and Bending Test (ANSI/EIA-455-33A-87)
- TIA/EIA-455-104A, FOTP-104 - Fiber Optic Cable Cyclic Flexing Test (ANSI/TIA/EIA-455-100A-89, R99)

209-3.14.2 GENERAL FIBER CHARACTERISTICS The cable manufacturer shall be listed under the (RUS) as being compliant with Specification 1755.900 and any current amendments. Cable provided by a manufacturer not currently on this list at the time of ordering will not be accepted. The Contractor shall provide manufacturer's certification that the offered cable complies with the RUS Specification 1755.900 as currently amended and with the requirements set forth in the special provision. Any deviations from these specifications shall be conspicuously noted in the Contractor's submittal.

Each fiber optic (F/O) cable, unless otherwise indicated, shall be dielectric central membrane, gel filled (or tape water blocked), loose tube, and contain strands of single mode fibers (SM) as indicated and shall conform to these special provisions.

The optical fibers shall be contained within loose buffer tubes. The loose buffer tubes shall be stranded around an all dielectric central member in a Reverse Oscillation Lay with aramid yarn as the primary strength member and a polyethylene sheath for overall protection. The cable shall have six fibers per tube when less than 36 fibers total and 12 fibers per tube when greater than or equal to 36 fibers.

All fiber optic cable on this project shall be from the same manufacturer, who is regularly engaged in the production of this material. The glass used shall be manufactured by Corning or accepted equivalent.

The cable shall be BellCore Certified GR-20-CORE for single-mode.

Each optical fiber shall be glass and consist of a doped silica core surrounded by concentric silica cladding. All fibers in the buffer tube shall be factory tested and usable fibers, and shall be sufficiently free of surface imperfections and inclusions to meet the optical, mechanical, and environmental requirements of these specifications.

Fiber coating shall be layered, UV cured acrylate. The coating shall be mechanically or chemically strippable without damaging the fiber.

The required fiber grade shall reflect the maximum individual fiber attenuation, to guarantee the required performance of each and every fiber in the cable.

Cable shall comply with the optical and mechanical requirements over an operating temperature range of -40 degrees C to +70 degrees C.

The Contractor shall provide a cable with at least the fiber counts shown on the plans. The Contractor at their option and expense may provide cables with additional fibers.

Single mode fibers within the finished cable shall meet the requirements in the following table:

Fiber Characteristics Table	
Parameters	**SM**
Type	Step Index
Core Diameter	8.3 µm (nominal)
Cladding Non-circulatory	125 µm ± 1.75 µm
Core to Cladding Offset	≤ 0.8 µm
Coating Diameter	250 µm ± 15 µm
Cladding Non-Circularity Defined as: [1-(min. cladding dia / max. cladding dia.)]x100	≤ 1.0%
Connector Insertion Loss	0.25 dB (typical)\ 0.4 dB (maximum)
Connector Reflectance	≤ -50 dB at 1310 nm (as measured with OTDR)
Connector Tensile Strength	≤ 0.2 dB change, based on a 10 kg. Load without adhesive
Connector Temperature Resistance	≤ 0.2 dB change, based upon -40°C to 80°C, 100 cycles
Connector Humidity Resistance	≤ 0.2 dB change, based upon 60°C at 95% relative humidity for 500 hours
Connector Durability	≤ 0.2 dB change, based upon 1000 insertions, cleaned every 25th insertion
Connector Undercut / protrusion	± 50 nm
Connector Apex Offset	≤ 50 mm
Proof/Tensile Test	3,500 kg/square mm, min.
Attenuation @ 1,300 nm (MM)/1310 nm (SM) @ 1,550 nm	 ≤ 0.4 dB/km ≤ 0.3 dB/km
Attenuation at the Water Peak	≤ 2.1 dB/km @ 1383 + 3 nm
Chromatic Dispersion Zero Dispersion Wavelength Zero Dispersion Slope	 1301 to 1321.5 nm ≤ 0.092 ps/(nm^2*km)
Maximum Dispersion	3.3 ps/(nm*km) for 1285 - 1330 nm < 18 ps/nm*km) for 1550 nm
Cut-Off Wavelength	< 1,260 nm
Mode Field Diameter (Peterman II)	9.3 ± 0.5 µm at 1300 nm 10.5 ± 1.0 µm at 1550 nm
Fusion Splice Attenuation	0.08 dB / splice

COLOR CODING In buffer tubes containing multiple fibers, each fiber shall be distinguishable from others in the same tube by means of color coding. The colors shall be targeted in accordance with the Munsell color shades and shall meet EIA/TIA-598 "Color Coding of Fiber Optic Cables."

The color formulation shall be compatible with the fiber coating and the buffer tube filling compound and be heat stable. It shall not fade or smear or be susceptible to migration and it shall not affect the transmission characteristics of the optical fibers and shall not cause fibers to stick together.

209-3.14.3 CABLE CONSTRUCTION

BUFFER TUBES The loose buffer tubes shall provide clearance between the fibers and the inside of the tube to allow for thermal expansion without restraining the fiber. The fibers shall be loose or suspended within the tubes. The fibers shall not adhere to the inside of the buffer tube.

The loose buffer tubes shall be extruded from material having a coefficient of friction sufficiently low to allow the fiber free movement. Buffer tubes shall be made of tough abrasion resistant material to provide mechanical and environmental protection of the fibers yet designed to permit safe intentional "scoring" and breakout entry without jeopardizing the internal fibers.

Buffer tube filling compound shall be homogenous hydrocarbon-based gel (with anti-oxidant additives) USRD to prevent water intrusion and migration. The filling compound shall be non-toxic and dermatologically safe to exposed skin. It shall be chemically and mechanically compatible with all cable components, non-nutritive to fungus, non-hygroscope and electrically non-conductive. The filling compound shall be free from dirt and foreign matter and shall be readily removable with conventional non toxic solvents.

Buffer tubes shall be stranded around a central member by the reverse oscillation stranding process.

Each buffer tube shall be distinguishable from other buffer tubes in the cable by means of color coding.

CENTRAL MEMBER The central member which functions as an anti-buckling element shall be a glass reinforced plastic rod with similar expansion and contraction characteristics as the optical fibers. A linear overcoat of Low Density Polyethylene shall be applied to the central member of the main trunk fiber cable to achieve the optimum diameter to provide the proper spacing between buffer tubes during stranding.

FILLER RODS Fillers may be included in the cable to lend symmetry to the cable cross-section where needed. Filler rods shall be solid medium or high density polyethylene. The diameter of filler rods shall be the same as the outer diameter of the buffer tubes.

STRANDING Completed buffer tubes shall be stranded around the overcoated central member using stranding methods, lay lengths and positioning such that the cable shall meet mechanical, environmental and performance specifications. A polyester binding shall be applied over the stranded buffer tubes to hold them in place. Binders shall be applied with sufficient tension to secure the buffer tubes to the central member without crushing the buffer tubes The binders shall be non-hygroscopic, non-wicking (or rendered so by the flooding compound), and dialectic with low shrinkage.

CORE AND CABLE FLOODING The cable core interstices shall be filled with a polyolefin based compound to prevent water ingress and migration. The flooding compound shall be homogenous, free from dirt and other foreign matter, non-hygroscopic, electrically non-conductive, non-nutritive to fungus and readily removable. The compound shall also be non toxic, dermatologically safe and compatible with all other cable components. The compound shall be free from dirt and foreign matter and shall be readily removable with conventional non toxic solvents. A water blocking tape can be substituted for a filling compound.

TENSILE STRENGTH MEMBER Tensile strength shall be provided by high tensile strength aramid yarns and fiberglass which shall be helically stranded evenly around the cable core.

OUTER JACKET The outer jacket material shall be a medium density polyethylene (MDPE) conforming to ASTM D1248, Type II, Class C, Category 4 or 5, Grade J4. The light absorption coefficient, when measured in accordance with ASTM D3349, shall be a minimum of 400 at a wavelength of 375 nm. The jacket shall be free from holes, splits, and blisters with a total minimum jacket thickness of 40 ± 5 mils.

Jacketing material shall be applied directly over the tensile strength members and flooding compound and shall not adhere to the armored strength material. The polyethylene shall contain carbon black to provide ultraviolet light protection and shall not promote the growth of fungus.

The outer jacket or sheath shall be marked with the manufacturer's name, the words "Fiber Optic Cable", date of manufacture, and sequential meter markers. The markings shall be repeated every meter. The actual length of the cable shall be within 0 ± 1 percent of the length marking, The marking shall be in a contrasting color to the cable jacket. The height of the marking shall be approximately 3 mm.

The cable shall contain at least one ripcord under the inner sheath for easy sheath removal.

The finished cable shall be capable of withstanding a pulling tension of 2700 N (600 lb.), minimum.

209-3.14.4 CABLE PERFORMANCE

GENERAL The F/O cable shall withstand water penetration when tested with three foot static head or equivalent continuous pressure applied at one end of a three foot length of filled cable for one hour. No water shall leak through the open cable end. Testing shall be done in accordance with EIA-455-82B, "Fluid Penetration Test for Filled Fiber Optic Cable."

The cable shall exhibit no flow (drip or leak) at 80 degrees C. The weight of any compound that drips from the sample shall be less than 0.05 grams (0.002 ounce). A representative sample of cable shall be tested in accordance with EIA-455-81A, "Compound Flow (Drip) Test for Filled Fiber Optic Cable". The test sample shall be prepared in accordance with Method A.

Crush resistance of the finished F/O cables shall be 220 N/cm applied uniformly over the length of the cable without showing evidence of cracking or splitting when tested in accordance with EIA-455-25A "Repeated Impact Testing of Fiber Cables and Cable Assemblies". The average increase in attenuation for the fibers shall be < 0.10 dB at 1550 nm (single-mode) for a cable subjected to this load. The cable shall not exhibit any measurable increase in attenuation after removal of load. Testing shall be in accordance with EIA-455-41A, "Compressive Loading Resistance of Fiber Optic Cable" except that load shall be applied at the rate of 3 mm to 20 mm per minute and maintained for 10 minutes.

The cable shall withstand 25 cycles of mechanical flexing at a rate of 30 ± 1 Cycles/minute. The average increase in attenuation for the fibers shall be <0.10 dB at 1550 nm (single-mode) at the completion of the test. Outer cable jacket cracking or splitting observed under 10X magnification shall constitute failure. The test shall be conducted in accordance with EIA-455-104A, "Fiber Optic Cable Cyclic Flexing Test," except that the sheave diameter shall be a maximum diameter of 20X the cable OD. The cable shall be tested in accordance with Test Conditions I and III of the EIA-455.

The cable shall withstand a tensile load of 600 lb. without exhibiting an average increase in attenuation of greater than 0.10 dB (single-mode). The test shall be conducted in accordance with EIA-455-33, "Fiber Optic Cable Tensile Loading and Bending Test," using a maximum mandrel and sheath diameter of 24 inches. The load shall be applied for one hour in Test Condition II of the EIA-455 procedure.

QUALITY ASSURANCE All optical fibers shall be proof tested by the F/O cable manufacturer at a minimum load of 3,500 kg/square mm. Documentation of factory results shall be provided to the Engineer prior to shipping.

All optical fibers shall be attenuation tested by the manufacturer. The attenuation of each fiber shall be provided with each cable reel.

Attention is directed to "Testing" elsewhere in these special provisions.

PACKAGING AND SHIPPING The completed cable shall be packaged for shipment on lagged wooden reels. The cable and reel shall be wrapped in water resistant covering.

Each end of the cable shall be securely fastened to the reel to prevent the cable from coming loose during transport. Ten feet of cable length on each end of the cable shall be accessible for testing. Both ends of the cable shall be sealed to prevent the ingress of moisture.

Each cable reel shall have a durable weatherproof label or tag showing the manufacturer's name, the cable type, the actual length of cable on the reel, the Contractor's name, the contract number, and the reel number. A shipping record shall be included in an attached weatherproof envelope showing the above information and shall include the date of manufacture, cable characteristics (size, attenuation, bandwidth, etc.), cable information number and any other pertinent information.

The diameter of the reel shall be at least thirty times the diameter of the cable. The F/O cable shall be in one continuous length per reel with no factory splices in the fiber. Each reel shall be marked to indicate the direction the reel should be rolled to prevent loosening of the cable.

209-3.15 FIBER OPTIC CABLE TESTING For testing, see the testing section under Section 307-6.3.

209-3.16 FIBER TERMINATION PANELS IN CABINETS The Contractor shall furnish and install a fiber termination panel in each traffic signal controller, sign, or other cabinet having fiber installed as shown on the plans. The panel shall have provisions for storage and protection of up to 12 single mode FC/PC fiber terminations/connections.

The termination panel shall consist of one or more connector panels with back-to-back connectors for a total of twelve fibers. The panel shall also include one or more splice trays to accommodate a total of twelve (12) single fusion splices with heat-shrink sleeves. On the inside of the termination panel, field fibers will be fusion spliced onto pre-connectorized pig tails in the splice tray(s). The pig tails connect to the termination panel with FC/PC connectors. Fiber patch cords are then used to connect between the outside of the connector panel and the equipment in the cabinet.

The termination panel shall allow for full access to the splice trays and both sides of the fiber connector panel. The splice trays and connector panel shall be fully enclosed on all sides by the termination panel case. The doors on the termination panel shall be capable of being easily removed. The maximum dimensions of the unit shall be 9" wide by 9.5" high by 3.5" deep.

209-3.17 FIBER OPTIC PIG TAIL UNIT Each Fiber Termination Panel in a cabinet shall include a pig tail unit. The pig tail unit shall be composed of 6 pre-connectorized fiber optic pig tails. All optical fibers shown on the plans to be connectorized shall be terminated with a FC/PC Ultra Polish type nickel plated zinc bayonet, zircona ceramic tip, keyed connector. All cables shall use the same connectors. The connector shall not require a mechanical splice to a factory polished tip. All connectors must be pre-connectorized with pig tails that shall meet all Fiber Optic Cable specifications for this project. The pig tail unit shall be composed of 6-900 micron color coded pig tails. The pig tails shall be two (2) feet long

The surface of the fiber end installed in a connector shall be free of scratches, pits and chips at 200X. No index-matching fluids, gels or anti-reflection coatings shall be applied to the end of the fiber.

Connectorized fibers shall be clearly labeled using a labeling convention approved by the Engineer.

209-3.18 DROP AND INSERT FIBER OPTIC DATA TRANSCEIVERS (FIELD) The Contractor shall furnish & install data transceivers in new or existing controller cabinets where shown on the construction plans, for communications with traffic signal controllers. Data transceivers shall match other

City equipment and shall be '**Etherwan EX96026-2A-1-B' switch with a 'Etherwan UP0351E-12P 60L' power supply**. The Contractor shall furnish and install serial data cables to connect the transceiver to the appropriate port on the traffic signal controller. The Contractor shall be required to install, clearly label, troubleshoot, fine-tune and provide training for the data transceivers, and for demonstrating that communications are established between each controller included in the project, and the central signal server.

209-3.19 FIBER OPTIC CABLE IDENTIFICATION The Contractor shall provide nonmetallic fiberboard or plastic identification tags or labels designed for fastening to cables in vaults, pull boxes, manholes and switchboard rooms, and at all terminations of cable or wire. Labeling convention shall be as directed by Engineer prior to construction.

209-4.10 PEDESTRIAN PUSH BUTTONS **For new signal installations (not 'retrofit' push buttons for accessible ramp retrofits)**, Contractor shall provide Pedestrian Push Buttons in accordance to the following:

SYSTEM REQUIREMENTS - ADA pedestrian push buttons shall be Polara Navigator Accessible Pedestrian Signal, or approved equal, conforming to the following specifications:

A. VOICE MESSAGE
Vendor shall program special voice message onto push button station after receipt of order, before shipping to the City. Custom messages will be specified by City.

B. PUSH BUTTON STATIONS
Shall consist of from 2-12 push button stations (maximum of three (3) per phase) controlled by a single base unit at/in the traffic control cabinet.

C. SYSTEM AUDIBLE FEATURES
System must be able to provide the following audible features:

1. A locating tone.
2. Five (5) walk sound choices (field selectable).
3. Three (3) Ped-clearance sound choices (field selectable).
4. Direction of travel (as standard feature with extended push).
5. Information message (custom feature with extended push).

D. AUDIBLE SOUNDS
All audible sounds must emanate from push buttons station.

E. AUDIBLE FEATURE
Each audible feature must be independently settable minimum and maximum volume limts.

F. AMBIENT NOISE
All sounds must automatically adjust to ambient noise levels over a 60dB range.

G. SYNCHRONIZED
All sounds for all push button stations must be synchronized.

H. AUDIBLE COUNTDOWN
System must be able to provide during audible countdown during ped clearance phase.

I. TRAFFIC CONTROL CABINET

Push button stations must require only two wires coming from the traffic control cabinet for each phase/crosswalk.

J. DIRECTIONAL ARROW
Each push button station must a 2" button with a tactile raised directional arrow on the button. The arrow must be able to be changed to one (1) of four (4) directions.

K. VIBRATE
The arrow/button must vibrate during the walk period, following a button push.

L. FRAME
Push button station frame shall be made of cast aluminum with mounting holes to hold a 5" x 7-3/4" or larger pedestrian sign.

M. HANDHELD INFRARED DEVICE
All volumes and optional features are to be settable using a handheld infrared device with password security.

N. GLOBAL UPDATING
Infrared device shall be capable of setting/updating all push button stations on the intersection from a single push button station (Global Updating)

O. MUTE
System must be able to mute sounds on all crosswalks except activated crosswalk (selectable feature).

P. LANGUAGE CAPABILITY
System must be able to have multiple language capability, selectable by user.

Q. EMERGENCY PREEMPTION
System shall be able to play emergency preemption message.

R. SELF TEST BUTTONS
System shall be able to self test buttons and report any faults to traffic controller.

S. WARRANTY
Vendor shall provide a two (2) year warranty for parts (minimum). Copy must be included with Bid.

T. DEFECTIVE PARTS
Defective parts shall be replaced by vendor at no cost to the City within three (3) working days after being notified of failure by the City. Vendor shall keep parts in stock to allow for overnight or express shipping to City. At least two (2) of each item shall be available for overnight/express shipping for the duration of the agreement.

U. TECHNICAL SUPPORT
Vendor shall provide technical support, via Toll Free number between the hours of 8:00 a.m. – 5:00 p.m.

209-6.0 STREET LIGHTING SYSTEM PRODUCTS

Street lighting system products shall include the following:

a) Conductors: Shall be copper, stranded, crosslink polyethylene insulated, 600V, type USE (underground service cable), type THW, XHHW-2, by Southwire, Phelps Dodge or equal.

b) Conduits: Non-metallic conduit shall be Schedule 40 HDPE, by Carlon, PW Pipe, or approved equal. All conduits entering pull boxes shall have end bells. Metallic conduit shall be galvanized rigid metal conduit, by Allied, Republic or equal

c) Pullboxes: Shall be non-concrete composite plastic with bronze, tamper-proof hold-down bolts, mounted flush with the finished grade of paving, or planting area, mounted on 12" bases of crushed drain rock, by Carson, Quazite, or equal. Vandal resistant locking inserts by McCain, or equal, complete with heavy duty Masterlock padlock.

d) Lighting Fixtures: As shown on Drawings.

e) LED Driver and Dimming Control: Driver with 0-10V dimming capability and universal voltage input from 120-277VAC Input frequency is 50-60Hz, <3kV surge suppression built in, Philips Dynadimmer shall be factory installed for each LED luminaire driver for 0 – 10 volt driver input. There are 9 standard factory-set dimming schedules available. City engineer shall provide specifications for the dimming schedule in advance of fixtures being shipped to site.

f) Ground rods: Shall be copper-clad steel, ¾ "diameter by 10' long, unless otherwise indicated on Drawings, with suitable phosphor bronze clamps, by Blackburn, Ertech, or equal.

g) Service Meter Pedestals: service meter pedestals with enclosed molded case circuit breakers as indicated on the Drawings. Breakers shall be bolt-on style, of the frame size indicated in the Drawings and as manufactured by Square D. The enclosure shall be rain-tight with underground pull section, outdoors, NEMA 3R, and shall be fabricated from sheet metal with a rust-inhibiting phosphate primer and baked enamel finish, or of aluminum with anodized finish, in accordance with UL 98. Enclosure shall be UL listed. Finish per City of San Leandro standards requirements. Service meter pedestals shall meet PG&E's requirements, and shall be as manufactured by TESCO Type IIIAF, Meyers, Peninsula Controls, or equal.

209-6 VIDEO IMAGING VEHICLE DETECTION SYSTEM The following section is added to the Special Provisions.

209-6.1 GENERAL REQUIREMENTS

This specification sets forth the minimum requirements for a Video Imaging Vehicle Detection System (VIVDS), which monitors vehicles on a roadway via processing of video images and provides detector outputs to a traffic signal controller for purposes of stop-bar detection and/or data collection.

The VIVDS shall consist of the following components: Camera assembly(ies), machine vision processor (MVP), detection algorithms, application software, and all associated equipment required to setup and operate in a field environment including a field setup computer, connectors and camera mounting hardware.

The VIVDS provided shall be Gridsmart "Aldis", or City-approved equivalent.

All associated electrical work performed and all materials installed shall be subject to inspection and approval by the Engineer. As a minimum, all work must meet the requirements of the National Electrical Code (NEC) and the National Electrical Safety Code (NESC).

209-6.2 DEFINITIONS

a) VIVDS: One VIVDS system shall be defined as all components required to effectively monitor and provide vehicle detection for a single intersection or data collection site.

b) MVP: The Machine Vision Processor is the electronic unit that converts the video image provided by the cameras and generates vehicle detections for defined zones and collects vehicular data as specified.

c) Field Setup Computer: A portable microcomputer used to set up and monitor the operation of the MVP.

d) Field Communication Link: The communications connection between the camera and the VIVDS processor unit.

e) Remote Communication Link: The communications connection between the VIVDS processor unit and the ATMS.now (Advanced Traffic Management Systems) central control software system.

f) Camera Assembly: The complete camera assembly used to collect the visual image data. The camera assembly consists of a complementary metal-oxide semiconductor (CMOS) camera, minimum 5 megapixels, environmental enclosure, sun shield, temperature control mechanism, and all necessary mounting hardware.

g) Occlusion: The phenomenon when a vehicle passes through the detection zone but the view from the sensor is obstructed by another vehicle or object. Occlusion can result in the vehicle not being accurately detected by the sensor.

h) Detection Zone: The detection zone is an area created by the user in the application software, and monitored through the MVP such that when occupied by a vehicle, sends vehicle detection to the traffic controller or other system. Detection zones also enable the collection of traffic data.

i) Live Video: Video being viewed and/or processed at a minimum rate of 5 frames per second, in high definition (HD) video format.

209-6.3 SYSTEM REQUIREMENTS All materials furnished, assembled, fabricated, or installed shall be new, corrosion resistant, and in strict accordance with the details shown on the Plans and in conformance with these Special Provisions.

VIVDS System

a)The VIVDS shall use camera assembly(ies) to collect video image data for the MVP for purposes of detecting vehicle presence and generating traffic data.

b) The VIVDS shall provide real-time vehicle detection (within 400 milliseconds (ms) of vehicle arrival).

c) The VIVDS shall be able to detect either approaching or departing vehicles in multiple traffic lanes simultaneously.

d) The VIVDS shall provide flexible detection placement anywhere within the field of view of the camera assembly(ies). A single detection zone shall be able to replace one or more conventional detector loops.

e) The VIVDS shall provide complete visibility to the intersection at all times, including the center of the intersection, for situational awareness and incident monitoring.

f) The VIVDS shall incorporate the use of three-dimensional vehicle modeling for purposes of improving system performance across various image perspectives.

g) The VIVDS shall operate at a level of performance comparable to properly operating inductive loops, excluding issues of occlusion due to limitations imposed by camera placement.

h) The VIVDS shall trigger a state of "all call" to the controller in the event of an equipment failure or system malfunction.

i) The VIVDS provides both presence and pulse detection for each detection zone. In presence detection, the detection zone is active as long as a vehicle occupies the zone. In pulse detection, the detection zone provides a momentary, on/off detection that does not remain active, even if the vehicle stays within the zone.

j) The entire VIVDS system must be assembled in the United States of America.

Camera Assembly

a) The camera shall connect to the MVP with a single Power-over-Ethernet (PoE) connection.

b) The camera shall utilize complementary metal-oxide semiconductor (CMOS), minimum 5 megapixels, high definition (HD) digital imagery.

c) The camera, when properly installed and configured, shall be able to simultaneously monitor up to 5 lanes of traffic per approach.

d) The camera shall be able to simultaneously monitor more than one approach.

e) The camera shall feature an ultra-wide-angle lens to maximize field-of-view.

f) The camera shall feature a heater or other mechanism to prevent the formation of ice and condensation. This shall not interfere with the operation of the camera electronics, and it shall not cause interference with video signal.

Machine Vision Processor (MVP)

a) The MVP shall save configurations and zone plans locally to support operation with or without monitoring equipment (monitor, laptop, remote connection) connected.

b) The MVP shall be rack or shelf mountable, measuring no more than 13" wide, 12" deep, and 5" tall.

c) The MVP shall be designed to operate reliably in the adverse environment found in the typical roadside traffic cabinet.

d) The MVP shall operate at 120-240 VAC, requiring 150W or less.

e) The MVP shall feature at least 24 detector outputs.

f) The MVP shall not require shielding from other electronic devices, such as power supplies and communication equipment.

g) The MVP shall feature input/output interface to TS1 type controllers, as well as an SDLC connection for TS2 type controllers

h) The MVP shall feature a USB on the front surface for simple data collection on non-networked systems.

i) The MVP shall feature both LAN and WAN RJ-45 interface ports on the front surface of the unit.

Application Software

a) The application software shall support the creation and modification of at least twenty-four (24) polygonal detection zones within the graphical user interface.

b) The application software will show images of the detection zones superimposed on the video image of traffic.

c)The application software shall support the assignment of a detector output to each zone. These assignments can be modified at any time through the software.

d) The application software shall support direction of travel assignment within detection zones. The vehicle detection zone shall not activate for objects traveling any direction other than the one specified for detection. Cross-street and wrong way traffic shall not cause detection. Programming delay timings (within the MVP or controller) will not be allowed to correct for cross-street or wrong way detection.

e) The application software shall support the import and export of configurations and zone plans.

f) The application software shall change the color of the zone within the graphical user interface as vehicles enter or exit a detection zone, changing its occupancy status. This will be required for real-time or historical monitoring, and may be turned on or off by the user at any time.

g) The application software shall feature the ability to digitally pan, tilt, and zoom within the camera's field of view without physical movement of the camera, lens, or other moving parts.

h) The application software shall maintain a database of current and historical traffic data, and allow for the user to run reports against this data to include traffic counts, turn movements, speed, and classification at a minimum.

i) The application software shall feature the ability to mask objects that occlude the camera field of view and/or disrupt the camera automatic gain and exposure control.

Ethernet Cable

Ethernet cable shall be suitable for outdoor applications and UV shielded. Use Belden 7929A cable or approved equal.

Camera Extension Arm

Camera extension arm shall be a PP450 mount with Olson Sky Bracket or approved equal. See Attachment D.

209-6.4 WARRANTY AND MAINTENANCE

The VIVDS shall be warranted to be free of defects in material and workmanship for at least one (1) year following installation, with proper registration with the manufacturer. During the warranty period, the supplier shall repair with new or refurbished materials, or replace at no charge, any product containing a warranty defect provided the product is returned FOB to the supplier's factory or authorized repair site. Product repair or replaced under warranty by the supplier will be returned with transportation prepaid. This warranty does not apply to products damaged by accident, improper operation, abuse, serviced by unauthorized personnel or unauthorized modification.

The camera shall feature an additional warranty to require no aiming or focusing for a period of five (5) years, following successful installation and configuration by trained and certified installers. This excludes any changes required due to lane shifts or due to extraordinary impact or duress on the camera.

Ongoing software support by the supplier shall include updates of the application software and detection algorithms. These updates shall be provided free of charge during the warranty period or while under an active maintenance contract.

The supplier shall maintain an adequate inventory of parts to support maintenance and repair of all systems under warranty or extended warranty agreement.

209-6.5 ENVIRONMENTAL CERTIFICATIONS

a) The system shall be designed to operate reliably in an operating temperature ranging from -34°C (-30° F) to +74°C (+165°F) degrees Celsius at 0 percent to 95 percent relative humidity, non-condensing.

b) The camera, mounting hardware, and any related material, when properly installed, can withstand 150 mph wind speeds.

c) The camera enclosure shall be waterproof and dust-tight to the latest (National Electrical Manufacturers Association) NEMA-4 specifications.

d) The camera shall meet FCC class B requirements for electromagnetic interference emissions.

e) Vibration and shock resistance shall meet the requirements of Sections 2.1.9 and 2.1.10, respectively, of NEMA TS 2.

f) System components shall comply with the environmental requirements detailed in the NEMA TS 2 standard.

g) Detection system field hardware shall meet the requirements in the Federal Communications Commission (FCC) 2005 Code of Federal Regulation (CFR) Title 47, Part 15, and not interfere with any known equipment.

209-4.9 FIBER OPTIC CABLE IDENTIFICATION The Contractor shall provide nonmetallic fiberboard or plastic indentification tages or labels designed for fastening to cables in vaults, pull boxes, manholes and switchboard rooms, and at all terminations of cable or wire. Labeling convention shall be as directed by the Engineer prior to construction.

209-4.10 PEDESTRIAN PUSH BUTTONS The Contractor shall provide Pedestrian Push Buttons in accordance to the following:

SYSTEM REQUIREMENTS - ADA pedestrian push buttons shall be Polara Navigator Accessible Pedestrian Signal, or approved equal, conforming to the following specifications:

A. VOICE MESSAGE

Vendor shall program special voice message onto push button station after receipt of order, before shipping to the City. Custom messages will be specified by City.

B. PUSH BUTTON STATIONS

Shall consist of from 2-12 push button stations (maximum of three (3) per phase) controlled by a single base unit at/in the traffic control cabinet.

C. SYSTEM AUDIBLE FEATURES

System must be able to provide the following audible features:

6. A locating tone.
7. Five (5) walk sound choices (field selectable).
8. Three (3) Ped-clearance sound choices (field selectable).
9. Direction of travel (as standard feature with extended push).
10. Information message (custom feature with extended push).

D. AUDIBLE SOUNDS

All audible sounds must emanate from push buttons station.

E. AUDIBLE FEATURE

Each audible feature must be independently settable minimum and maximum volume limts.

F. AMBIENT NOISE

All sounds must automatically adjust to ambient noise levels over a 60dB range.

G. SYNCHRONIZED

All sounds for all push button stations must be synchronized.

H. AUDIBLE COUNTDOWN

System must be able to provide during audible countdown during ped clearance phase.

I. TRAFFIC CONTROL CABINET

Push button stations must require only two wires coming from the traffic control cabinet for each phase/crosswalk.

J. DIRECTIONAL ARROW

Each push button station must a 2” button with a tactile raised directional arrow on the button. The arrow must be able to be changed to one (1) of four (4) directions.

K. VIBRATE

The arrow/button must vibrate during the walk period, following a button push.

L. FRAME

Push button station frame shall be made of cast aluminum with mounting holes to hold a 5” x 7-3/4” or larger pedestrian sign.

M. HANDHELD INFRARED DEVICE

All volumes and optional features are to be settable using a handheld infrared device with password security.

N. GLOBAL UPDATING

Infrared device shall be capable of setting/updating all push button stations on the intersection from a single push button station (Global Updating)

O. MUTE
System must be able to mute sounds on all crosswalks except activated crosswalk (selectable feature).

P. LANGUAGE CAPABILITY
System must be able to have multiple language capability, selectable by user.

Q. EMERGENCY PREEMPTION
System shall be able to play emergency preemption message.

R. SELF TEST BUTTONS
System shall be able to self test buttons and report any faults to traffic controller.

S. WARRANTY
Vendor shall provide a two (2) year warranty for parts (minimum). Copy must be included with Bid.

T. DEFECTIVE PARTS
Defective parts shall be replaced by vendor at no cost to the City within three (3) working days after being notified of failure by the City. Vendor shall keep parts in stock to allow for overnight or express shipping to City. At least two (2) of each item shall be available for overnight/express shipping for the duration of the agreement.

U. TECHNICAL SUPPORT
Vendor shall provide technical support, via Toll Free number between the hours of 8:00 a.m. – 5:00 p.m.

SECTION 210 - PAINT AND PROTECTIVE COATINGS

210-1 PAINT. Paint shall conform with Section 210-1 "Paint" of the Standard Specifications and these special provisions.

210-1.6.1 GENERAL. The following is added to Section 210-1.6.1 "General" of the Standard Specifications: Unless otherwise specified or shown on the plans, traffic striping and pavement markings shall be thermoplastic conforming to the provisions of Section 84-2, "Thermoplastic Traffic Stripes and Pavement Markings" of May 2006 edition of the California Department of Transportation (Caltrans) Standard Specifications, these Special Provisions and City Standard Plans.

All pavement marker, markings, and striping shall be done in accordance with Standard Plan 616.

SKID RESISTANT THERMOPLASTIC

Composition	
Binder	20% (18% min)
Glass Beads	20% (15% min)
TiO2 Pigment	10% (7% min)
Filler	35% (37% min)
Cullet	15% (10% min)

The crushed glass cullet in such a mixture shall be produced from cullet of clear glass, with a maximum size of 850 micrometers (100% passing by weight) and minimum size of 425 micrometers (0-5% passing by weight). The skid resistance shall be a minimum of 55 BPN. The maximum thickness shall be 3 mm (1/8").

Skid resistant Thermoplastic can be substituted with Flint Trading, Inc. "Pre-Mark" preformed thermoplastic with VIZIGRIP products, 336-475-6600, www.flinttrading.com. Paint for red curbs shall be Pervo 7000 series red paint or approved equal.

210-6 ANTI-GRAFFITI COATING

210 –6.1 GENERAL
Provide all labor and material necessary for the installation of anti-graffiti coating to all visible structures; metal, precast concrete and stucco finishes as shown on the drawings.

210 – 6.2 MATERIALS:
PRODUCTS OF COVAL MOLECULAR COATINGS, PETALUMA CA (WWW.COVALMOLECULAR.COM) OR APPROVED EQUAL

210-63 Product Requirements

B. Covel Concrete Coat, **and** (applies over sealer)
C. Covel Quick Seal and Enhance

210 – 6.7 SUBMITTALS:
Products:

1. One (4) 24" x 24" inch sample panels showing the sealant applied over the stucco finish coat, texture and color as indicated on plans.

2. One (1) photocopy of manufacturer's descriptive literature for sealant, industrial cleaner and all other required products.

Procedure:

1. Submit the above information to the Engineer ten (10) workdays after Notice to Proceed and prior to performing any work.

210 – 6.8 QUALITY ASSURANCE:

Codes and standards: Perform and provide the work in compliance with all applicable local, state and federal codes, laws and regulations. Product shall meet ada static coefficient.

Supervision: A person who is thoroughly familiar with the materials being installed and the methods for their installation will be present at the job site at all times during the execution of the work defined by this section.

Substitution of materials: Substitution of materials will not be permitted unless authorized in writing by the Engineer. Suggested substitutions must be shown to be equal to the specified material. A written proposal will be considered for the use of the suggested material, which includes a corresponding adjustment in contract price. The proposal will be submitted to the Engineer 10 workdays after Notice to Proceed.

SECTION 211 - SOILS AND AGGREGATE TESTS

211-1 SIEVE ANALYSES. Work shall be done per the Standard Specifications.

211-2 COMPACTION TESTS. Compaction tests shall conform with Section 211-2 "Compaction Tests" of the Standard Specifications and these special provisions.

211-2.1 LABORATORY MAXIMUM DENSITY. The following is added to Section 211-2.1 "Laboratory Maximum Density" of the Standard Specifications: Relative compaction tests will be performed in accordance with California Test Methods 216 and 231 for soils and aggregates, and California Test Methods 308, 309 and 375 for asphalt concrete.

211-3 SAND PERMEABILITY TEST. Work shall be done per the Standard Specifications.

211-4 PERMEABILITY TEST. Work shall be done per the Standard Specifications.

SECTION 212 - LANDSCAPE AND IRRIGATION MATERIALS

212-0.0 LANDSCAPING: Landscaping shall conform to plans and Section 212 of the Standard Specifications and including the following special provisions.

212-0.0.1 RELATED DOCUMENTS:

Reference Documents:

Bay-Friendly Scorecard for New Commercial and Civic Landscapes for this project (included at the end of these specifications).

Bay-Friendly Rating Manual for New Civic and Commercial Landscapes: serves as a guide in describing the requirements and verification procedures for each practice in the scorecard.

Model Bay-Friendly Landscape Maintenance Specifications: serves as a reference document to provide language as needed to improve the environmental standards of ongoing landscape maintenance contracts.

Bay-Friendly Landscape Guidelines: fully describes the seven Bay-Friendly principles, offering 55 practices in sustainable landscape design, construction, and maintenance.

Additional Bay-Friendly resources found at www.BayFriendly.org

212-0.0.1 SUMMARY

This project has been designed as a Bay-Friendly Rated Landscape. Bay-Friendly Landscaping is a whole systems approach to the design, construction and maintenance of landscapes that contributes to the health to the San Francisco Bay Watershed. A Bay-Friendly Rated Landscape is one where the Project Team, including the developer, Landscape Architect, Engineer General Contractor and Landscape Contractor are working together to achieve clearly understood Bay-Friendly goals. A Bay-Friendly Rated Landscape will earn a minimum of 60 points and meet all of the 9 required practices that are on the Bay-Friendly Landscape Scorecard and is verified by a third party, a "Bay-Friendly Rater". The specifications and plans for this project implement the required practices and earn points on the Bay-Friendly Landscape Scorecard. The Bay-Friendly Landscape Scorecard and Guidelines are based on 7 guiding Principles:

1. Landscape Locally
2. Landscape for Less to the Landfill
3. Nurture the Soil
4. Conserve Water
5. Conserve Energy
6. Protect Water & Air Quality
7. Create Wildlife Habitat

The Contractor shall comply with all requirements as shown on the plans and specified herein:

212-0.0.2 Section Includes:

1. Definitions
2. General Requirements
3. Materials Quality Assurances
4. Supplies and Equipment
5. Root Barrier

212-0.0.3 Related Sections:

1. Clearing and Grubbing – Section 300-1
2. Asphalt Removal – Section
3. Concrete Removal – Section

4. Soils Analysis - Section 212.0
5. Imported Top Soil - Section 212-1.1.2
6. Stockpiled Soil – Section 212-1.1.5
7. Soil Amendments – Section 212-1.2.4
8. Weed Barrier (Sheet Mulch) – Section 212-1.2.5 (g)
9. Mulch –Section 212-1.2.5 (h)
10. Irrigation - Section 212-2
11. Plant Material – Section 212-1.4.2
12. Tree Staking – Section 212-1.5.3
13. Root Barrier – Section 212-1.6
14. Integrated Pest Management – Section 212-1.11
15. Plant Establishment & Maintenance – Section 308-6
16. Landscape Header and stakes – Section 212-1.5.2

212-0.0.4 DEFINITIONS

Bay-Friendly Landscape Rater – is a person designated as a third party reviewer for completion of Bay-Friendly practices for this project and that has current status as a Qualified Bay-Friendly Rater either through the Bay-Friendly Landscape & Gardening Coalition or through StopWaste.Org.

Compost – is the product of controlled biological decomposition of organic materials, often including urban plant debris and food waste. It is an organic matter resource that has the unique ability to improve the chemical, physical and biological characteristics of soils or growing media. It contains plant nutrients but is typically not characterized as a fertilizer. *(Excerpted from US Compost Council , Field Guide to Compost Use)*

Integrated Pest Management – is a holistic approach to mitigating insects, plant diseases, weeds, and other pests. It involves the use of many strategies for managing, but not eliminating pests. Integrated Pest Management (IPM) uses cultural, mechanical, physical, and biological control methods before using pesticides to control pests and diseases in the landscape. Chemical controls are applied only when monitoring indicates that preventative and non-chemical methods are not keeping pests below acceptable levels. When pesticides are required, the least toxic and the least persistent pesticide that will provide adequate pest control is applied.

The Organic Materials Research Institute (OMRI) is a national nonprofit organization founded in 1997 to support the organic community. OMRI reviews products to determine their suitability for producing, processing and handling organic food and fiber under the USDA National Organic Program Rule (OMRI General Materials List)

Pesticide – As defined in Section 12753 of the California food and Agricultural Code, a pesticide includes any of the following: "(a) Any spray adjuvant. (b) Any substance, or mixture of substances which is intended to be used for defoliating plants, regulating plant growth, or for preventing, destroying, repelling, or mitigating any pest, which may infest or be detrimental to vegetation, man, animals, or households, or be present in any agricultural or nonagricultural environment whatsoever". Antimicrobial agents are excluded from the definition of pesticide.
Sheet mulching – uses a layer of paper or cardboard underneath the mulch to enhance weed suppression and soil building benefits. This layered mulch system is often used during landscape construction to optimize mulch benefits and encourage plant establishment.

212-0.0.5 General Requirements

The following shall be considered landscape-related work:

- Any work related to the trimming, relocating, and pruning of trees, bushes, and hedges;
- Any root removal of trees, bushes, and hedges, regardless of size, type, and shape;
- Any work related to the planting of trees and ground cover; and,
- Any work related to any of the Type 1, Plant Establishment Period (1 year).

Full compensation for any landscape related work as shown on the plans, as specified herein, and as directed by the Engineer, shall be considered included in the various items of work and no separate payment will be allowed therefor.

The Contractor shall furnish the Engineer with a statement from the vendor that the order for the plants required for this contract has been received and accepted by said vendor. The statement from said vendor shall also include the scientific names, sizes, and quantities of plants ordered and the anticipated date of delivery.

Planting shall include but is not limited to the furnishings of all materials and equipment and performing all operations necessary for and incidental to accomplishing:

1. Soil preparation including excavation and disposal of excess excavated materials, and finish grading including imported topsoil, soil amendments and cultivation.
2. Planting including furnishing and installing of ground covers and trees, deep watering tubes, drain rock, filter fabric, root barriers, slow release fertilizer, compost, sheet mulching, mulch, tree stakes, ties, imported topsoil and soil amendments.
3. Plant Establishment and Maintenance Period shall extend for a 1 year period and will commence after the City Engineer accepts the project in its entirety.

212-0.0.6 Material Quality Assurances

A. Contractor must have a valid California A or C-27 Contractor's license authorized by the State of California.

B. Contractor shall provide evidence of sufficient experience with similar projects. Provide list including a minimum of five recently installed projects with location, date completed, owner, contact person and phone number.

C. Contractor must have assigned to the project at least one employee possessing a California State Chemical Applicator's License for the control of weeds, plant diseases and other pests.

D. The contractor shall assign to the project at least one employee who has successfully completed the Pollution Prevention Training & Certification Program For Surface Cleaners issued by the Bay Area StormWater Management Agencies Association (BASMAA).

E. The Contractor shall assign to the project at least one employee who is a Certified Irrigation Contractor (Irrigation Association).

F. The Contractor shall assign to the project at least one employee who has experience or training in Integrated Pest Management (IPM) techniques.

G. The Contractor shall assign to the project at least one employee who is a Bay-Friendly Qualified Landscape Professional.

Plant materials: provide plants as specified in the documents including size, genus, species and variety. Any request for substitution must be reviewed and approved by City for conformance to the Bay-Friendly Landscape Scorecard requirements and points.

212-0.0.7 SUPPLIES AND EQUIPMENT

A. Fuel conservation and low emission equipment. The Contractor will implement strategies in work operations to reduce fossil fuel consumption and emissions, such as:
   Use hand-powered equipment when feasible.
   Minimize use of gas-powered blowers, especially on planting beds.
   Select smallest, most fuel efficient equipment to accomplish task.
   Consider vehicles that operate on natural gas or biodiesel.
   Maintain all equipment properly and keep them well tuned.
   Emphasize employee carpooling to Project Site.

B. Use local products and suppliers. Bay-Friendly Rated Landscapes encourage the use of local materials. Points are awarded if 100% of any stone and non-hardscape material is produced within 500 miles of the project site. The Contractor shall source materials as specified and is encouraged to suggest substitutions in favor of local materials where appropriate to be approved by City's Representative. The Contractor shall use local products and suppliers for all other landscape items to the extent possible to minimize fuel consumption and emissions.

C. Use recycled and salvaged materials. Bay-Friendly Rated Landscapes encourage the use of recycled content and salvaged materials. The Contractor shall use salvaged and recycled-content products as specified and is encouraged to suggest substitutions in favor of recycled content or salvaged materials where appropriate to be approved by City's Representative. Materials for reuse may be found by contacting the CalMax website at www.ciwmb.ca.gov or at www.stopwaste.org. For recycled content materials visit the Green Product Directory at: http://accessgreen.builditgreen.org/

D. Equipment refueling and repair. The Contractor shall refuel and repair equipment in a safe manner to protect against accidental spills. Limit refueling to specific areas on a site. Measures shall be taken to prevent, control, and clean-up spills. Clean-ups should be immediate, automatic and routine and performed by a trained staff member or a licensed cleaning company.

212-0.0.8 SUBMITTALS

A. Note: Many of these submittals are required to verify compliance with the Bay-Friendly Landscape Scorecard, including product data, delivery tags and Accountability Forms. Contractor shall refer to Section 212-0.0.1 Bay-Friendly Landscaping Requirements Civic Projects in these specifications for additional information and direction.

B. As many of the specified items are required to comply with the Bay-Friendly Landscape Scorecard, no substitutions will be allowed without prior written approval of the City's Representative.

C. Product Data: For each of the following:

   Pesticides and Herbicides: the use of Pesticides and Herbicides are not allowed.
   Synthetic chemical pre-emergents are not allowed.
   Tree Staking and Tying: Refer to section 212-1.5.3

Mulch verifying recycled content and source of material.

D. Samples for Verification: For each of the following:

Amendments: 1 cubic foot minimum volume of each amendment in sealed plastic bag or container. Submittal shall be labeled with weight and source of each item. Each submittal shall represent a true sample of material to be provided at the project site.

Imported Planting Soils: 1 cubic foot minimum volume of each mulch in sealed plastic bag or container. Submittal shall be labeled with weight and source of each item. Each submittal shall represent a true sample of material to be provided at the project site.

Mulch: 1 cubic foot minimum volume of each mulch in sealed plastic bag or container. Submittal shall be labeled with weight and source of each item. Each submittal shall represent a true sample of material to be provided at the project site.

Tree Staking materials: Refer to section 212-1.5.3

Landscape Edging and Accessories: Manufacturer's standard size, to verify color and material selected.

Sheet Mulch Materials: Sample of 100% Recycled B Flute Cardboard

Root Barrier: Width of panel by 12 inches (300 mm).

Lab Analysis Reports: For each of the following:

Soil analysis report and recommendations

Compost technical data sheet including compost laboratory report.

Imported planting topsoil report and recommendations.

Other Product Certificates or Material Test Reports: Refer to specific sections.

For standard packaged products, the manufacturer’s guaranteed analyses will be acceptable. For all other materials, analyses shall be by a recognized laboratory in accordance with the current methods of the Association of Official Agricultural Chemists (AOAC) and paid for by the Contractor.

Contractor shall submit to the Engineer a list of all materials proposed to be furnished and installed under this section; demonstrating conformance with the requirements specified. Submit samples and certified analysis of drain rock, stakes, tree ties, fertilizers, root barrier, filter fabric, deep watering tubes, imported topsoil and soil amendments stating sources, physical and chemical composition.

The Contractor shall furnish the Engineer with a statement from the vendor (nursery) that the order for the plants required for this contract has been received and accepted and all applicable deposits paid. The statement from said vendor shall also include the botanical and common names (including variety or cultivar indication), sizes, and quantities of plants ordered and the anticipated date of delivery.

Deliver all items to the jobsite in their original containers, with all labels intact and legible at time of inspection.

212-0.0.9 FINAL BFL DOCUMENTATION

BFL documentation is required to verify compliance with the BFL scorecard and must be submitted in addition to project submittals. If a documentation item is identical to that submitted to comply with other project requirements submit duplicate copies in a separate BFL documentation submittal. (On the submittal list below, the numbers such as "C.7.a.i" references the numbering of practices on the BFL Scorecard for Civic and Commercial Landscapes.) Submit the following:

1. C.1.a. Submit soils analysis report and accompanying recommendations showing compost and natural fertilizers from the accredited soil laboratory.
2. C.4.a. Submit accountability form signed by landscape contractor after construction verifying soil has been aerated to a minimum of 12”

3. C.5.a. Submit an accountability form signed by landscape contractor after construction confirming Fertilizers prohibited by OMRI are not allowed in the construction of this project.
4. C.6.a. Submit tags or receipts for mulch the amount purchased/delivered and/or submit photos of removed trees being chipped for use as mulch on site and estimated quantity chipped for use on-site.
5. C.7.a i and ii- Submit tags or receipts for compost indicating the amount and source of compost delivered/ purchased and submit receipts showing quantity of compost in topsoil.
6. C.8.a- Submit tags or receipts for sheet mulch cardboard.
7. C.8.b Submit an accountability form signed by the landscape contractor after construction confirming synthetic chemical pre-emergents were not used during construction
8. D.1.a- Submit tags or receipts showing recycled content of headers
9. D.1.b- Submit tags or receipts showing recycled aggregate percentage.
10. D.1.c- Submit tags or receipts showing fly ash or slag percentage in concrete mix.
11. D.2.a,b,c- Submit Pre Construction Debris Recovery Plan in the planning stages of construction and submit Post Construction Debris Recovery Plan and documentation of results (i.e. hauler facility gate tags, builders waste tabulation supplied by local waste authority) and diversion rate from the C&D facility.
12. D.1a.- Submit receipts for all stone indicating sources and/or submit cut sheets for non-hardscape materials indicting where they were produced.
13. D.7.a. Submit accountability form signed by landscape contractor after construction verifying IPM was used during construction
14. F.2.a Submit tags/ receipts for the irrigation controller.

212-1 LANDSCAPE MATERIALS

212-0 SOIL ANALYSIS REPORT & RECOMMENDATIONS

Contractor shall arrange and pay for soil testing by an accredited soils laboratory such as Soil and Plant Lab, 352 Matthew Street, Santa Clara, CA 95050 (408) 727-0330 (or approved equal by the City's Representative). Laboratories that participate in the North American Proficiency Testing Program (NAPT) are recommended. See www.usual.usu.edu/napt/ for participating laboratories.

Existing soil submitted for testing should be of individual samples taken from six locations as shown on the plans. If the topsoil is removed and stored for later use or imported soil is used, stored topsoil or imported planting soil shall be tested per the following:

Take samples from 6 locations as shown on the plan. At each sampling spot dig a spades width hole at least 8 inches deep, and excavate 2 cups of soil. (some tests may require more soil, confirm with laboratories.) Label each soil sample in a clean sealable plastic bag for testing Label the bag with site information area of sample plus name of person who took the sample and contact information.

At a minimum the soil analysis shall include:

1. soil texture
2. infiltration rate determined by laboratory test or soil texture infiltration rate table;
3. pH
4. total soluble salts
5. sodium
6. essential nutrients
7. percent organic matter

8. recommendations- request that the laboratory make recommendations for amending the soil with compost to bring the soil organic matter to a minimum of 5% by dry weight and incorporating natural, non-synthetic fertilizers to recommended levels for planting area.

The amendments, and fertilizer rates and quantities listed are to be used for bid basis only. The base bid shall include cost of testing site soil and organic amendments noted in this specification section. Adjust the quantities of soil amendments and fertilizer per soil lab written report recommendation. Adjustments to project costs resulting from the soil report recommendations shall be submitted as a modification to the base bid. Submit soil lab report and any proposed soil amendments and cost adjustments to City's Representative for written approval. After review and written approval by the City's Representative, amend the soils according to said laboratory's recommendations. The approved soils laboratory recommendations shall be considered a part of this specification.

Full compensation for soil testing shall be considered as included in the contract unit prices paid for the plants involved and no separate payment will be made therefor.

212-1.1 TOPSOIL

Topsoil shall conform to the provisions of Section 212-1.1, "Topsoil" of the Standard Specifications and these Provisions.

212-1.1.1 GENERAL

212-1.1.2 CLASS "A" TOPSOIL

The following paragraph is inserted after the second paragraph of Section 212-1.1.2, "Class "A" Topsoil," of these Special Provisions.

All topsoil shall conform to Class "A" topsoil as indicated in the Standard Specifications.

Contractor shall provide imported planting soil where specified in the plans and details. Use topsoil mix that a minimum of 5% and up to 10% organic matter (with 20% or more compost content). Soil portion must be sandy loam as defined by USDA. Submit soil analysis report per section 212.0.

All material shall be free of trash and debris, or any other deleterious materials, and shall be subject to the approval and acceptance of the City's Representative. The Contractor shall designate their proposed import sources in advance and shall provide source samples and soils test of material to the City's Representative. Material shall be free of seeds.

Contractor to submit tags/ receipts indicating type and amount of compost purchased. Contractor to also submit receipts for purchased topsoil showing quality and amount of compost.

212-1.1.5 STOCKPILED EXISTING TOPSOIL

Contractor shall utilize all horticulturally suitable soil from on-site topsoil stockpile if available and shall be confirmed with City Representative.

212-1.2 SOIL FERTILIZING AND CONDITIONING MATERIALS

212-1.2.3 COMMERCIAL FERTILIZER

Subsection 212-1.2.3. "Commercial Fertilizer" is revised as follows:

Commercial Fertilizers: Synthetic, quick-release fertilizers shall not be permitted. Fertilizers prohibited in the Generic Materials List by the Organic materials Review Institute (OMRI) are prohibited in the project. Contractor shall utilize non-synthetic fertilizers as recommended by the soils report.

212-1.2.4 ORGANIC SOIL AMENDMENT

Subsection 212-1.2.4. "Organic Soil Amendment" is revised as follows:

Soil amendments prohibited by Organics Material Research Institute (OMRA) in its generic materials list as not allowed.

Compost shall be Grover Environmental WonderGrow Organic Compost (OMRI Listed) Phone: (209) 545-4401 or 1-800-585-4401; agricultural crop residues or herbivore animal manures or food waste or urban plant debris. It shall not contain mixed solid waste. The product shall contain no substances toxic to plants, will possess no objectionable odors and shall not resemble the feedstock (the original material from which it was derived). Compost shall be tested through the US Composting Councils USCC Seal of Testing Assurance Program (STA). A lab analysis shall be performed by a STA certified laboratory using the test methods used in the Seal of Testing Assurance program found in the Test Methods for Examination of Compost and Composting Manual (TMECC). Verifying current participation in the STA program can be confirmed by logging onto the USCC website at www.compostingcouncil.com. The compost lab analysis shall be submitted as part of the "Compost Technical Data Sheet" before delivery of compost. The compost laboratory report shall confirm the following compost parameters

Parameters [1, 6]	**Reported as (units of measure)**	**General Range**
pH[2]	pH units	6.0-8.5
Soluble Salt Concentration	dS/m (mmhos/cm)	Maximum 10, less than 4 preferred
Boron	Ppm	Soluble shall be <2.5
Moisture Content	% wet weight basis	30-60 %
Organic Matter Content	% dry weight basis	30-65%
Carbon Nitrogen Ratio	ratio of Carbon to nitrogen	25:1
Bulk Density	dry lbs/cubic yard	Between 500-1,100
Particle Size	% pass in a select mesh size, dry weight basis	98% pass through 3/4" screen or smaller
Stability[3] Carbon Dioxide Evolution Rate	Mg CO2-Cper g OM per day	<8
Maturity[3] (Bioassay) Seed Emergence and Seed Vigor	%, relative to positive control %, relative to positive control	Minimum 80% Minimum 80%
Physical Contaminants (inerts)	% dry weight basis	<1%
Chemical Contaminants[4]	mg/kg (ppm)	Meet or exceed USEPA Class A standard, 40CFR: 503.13, Tables 1 and 3 levels
Biological Contaminants [5] Select Pathogens Fecal Coliform Bacteria, or Salmonella	MPN per gram per dry weight MPN per 4 grams per dry weight	Meet or exceed US EPA Class A standard, 40 CFR, 503.32(a) levels

(Table modified from the US Composting Council Landscape Architectural Specifications)

1. Recommended test methodologies are provided in Test Methods for the Examination of Composting and Compost (TMECC, The US Composting Council)
2. It should be noted that the pH and soluble salt content of the amended soil mix is more relevant to the establishment and growth of a particular plant, than is the pH or soluble salt content of a specific

compost (soil conditioner) used to amend the soil. Each specific plant species requires a specific pH range. Each plant also has a salinity tolerance rating, and maximum tolerable quantities are known. Most ornamental plants and turf species can tolerate a soil/media soluble salt level of 2.5 dS/m and 4 dS/m, respectively. Seeds, young seedlings and salt sensitive species often prefer soluble salt levels at half the afore mentioned levels. When specifying the establishment of any plant or turf species, it is important to understand their pH and soluble salt requirements, and how they relate to existing soil conditions.

3. Stability/Maturity rating is an area of compost science that is still evolving, and as such, other various test methods could be considered. Also, never base compost quality conclusions on the result of a single stability/maturity test.
4. US EPA Class A standard, 40 CFR § 503.13, Tables 1 and 3 levels = Arsenic 41ppm, Cadmium 39ppm, Copper 1,500ppm, Lead 300ppm, Mercury 17ppm, Molybdenum 75ppm, Nickel 420ppm, Selenium 100ppm, Zinc 2,800ppm.
5. US EPA Class A standard, 40 CFR § 503.32(a) levels = Salmonella <3 MPN/4grams of total solids or Fecal Coliform <1000 MPN/gram of total solids.
6. Project engineers may modify the allowable compost specification ranges based on specific field conditions and plant requirements.

212-1.2.5 MULCH

Subsection 212-1.2.5 "Mulch" is revised as follows:

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(g) Type 7 Sheet Mulch (WEED BARRIER) (Cardboard)
Cardboard for sheet mulch shall be 100% recycled B flute cardboard or approved equal. Rolls of recycled cardboard are available through North Bay Paper in Petaluma, 800-734-2772 or Monahan Paper in Oakland, 510-835-4670 or approved equal.

Contractor to submit tags/receipts for cardboard layer

(h) Type 8 Mulch
Mulch shall be provided from on-site chipping of demolished trees and vegetation (excluding self sowing weeds or seeds) and supplemented, as needed, by "Arborist Mulch" recycled from local, organic materials such as, tree trimmings, plant or clean wood waste or. Other recycled mulch materials including peach pits, grape seeds can be found at www.BayFriendly.org and shall be approved by Owners Representative.

Contractor to submit tags/receipts for "Arborist Mulch"

212-1.4 PLANTS

212-1.4.1 GENERAL
Add the following after the last paragraph 212-1.4.1
It is the intent of the Drawings and Specifications to provide planting with trees and shrubs in vigorous growth, ready for the Owner's use. Any items not specifically shown in the Drawings or called for in the Specifications, but normally required to conform to such intent, are to be considered as part of the work.

All plant material shall be shipped and stored in their original containers as furnished by the nursery/supplier. Plant material shall not be stored on the site and shall be delivered only when planting operations are to commence. Plant material shall be protected during transit, plants in broken containers and plants with broken branches or injured trunks will be rejected.

The plants listed on the plans have been selected to comply with recommendations and requirements of the Bay-Friendly Landscaping scorecard. Plants have been selected for low water use, diversity of

species, appropriate spacing, and percent native species. Plants have also been carefully grouped into hydrozones. No substitutions will be allowed without prior written approval of the City Engineer.

Protect Other Planting Areas and Improvements Adjacent To Work Area
The contractor shall inspect the condition of existing plantings in areas adjacent to the work area with the Engineer prior to beginning work. Record in writing any previously damaged or unhealthy plants. Repair or replacement of damaged facilities caused by the work specified shall be completed within 10 working days of the damage at no additional cost to the City. Landscaping and improvements outside construction areas are to be protected against all construction activities.

212-1.4.2 TREES
The last sentence in paragraph 1 of Section 212-1.4.2 "Trees," is revised to read as follows:
The plants listed shown on the plans have been selected and spaced to comply with recommendations and requirements of the Bay-Friendly Landscaping scorecard. A requirement of the Bay-Friendly Landscape Scorecard is that plants shall be able to reach mature size without shearing. Adjustments to plant placement and spacing shall be reviewed and approved in the field by the City Engineer.

Trees shall be container stock, delivered in containers in which they have been grown for at least 8 months, and shall not be root bound. Plants that are found to be in a root bound condition or have an underdeveloped root ball as determined by the Engineer shall not be acceptable.

All plants shall be first quality and not park grade materials unless otherwise specified. Immediately remove from the site all plants that are not true to name or do not comply with the specified requirements. The Tree shall stand erect without support.

212-1.5.2 Header and Stakes

Headers and Stakes shall be a green product, 100% recycled material (recycled plastic) "Benda Board Plastic Header" 2 x 4 size "brown color" manufactured by Epic Plastics or approved equal.

Contractor to submit tags/receipts for purchased products.

14.86.6 14 Deep Watering Tubes
Deep watering tubes shall be 100 mm {4-inch} diameter by 900 mm {3 feet} length schedule 40 perforated PVC pipe (with approximately 6mm {1/4-inch} holes a minimum of 150 mm {6 inches} on center on four sides), filled with 20 mm {3/4-inch} uniform, round drain rock, capped with solid plastic cap and wrapped with filter fabric. Filter fabric shall be Mirafi 140N by Mirafi Geotechnical Products (704) 523-7477, TRS R040 by TNS Advanced Technologies (800) 767-5181, Typar 33001 by Dupont Geotextiles, or approved equal.

212-1.5.3 Tree Stakes
All tree stakes shall be as specified in the Standard Specifications and per the City Standard Plans, Detail 434.

Tree stakes shall be 50 mm {2-inch} diameter by 10 feet long untreated Lodgepole Pine with tapered driving point and chamfered top.

Tree ties shall be Spring-loaded "Wonder Tree Ties" by Alden Enterprises (818) 579-7115, recycled bicycle inner tube or approved equal. See tree staking detail on plans.

Stake trees per detail shown on the plan, driving all stakes into the native soil prior to backfilling hole. Secure trees with tree ties at the lowest point that prevents them from flopping over.

Full compensation for furnishing and installing tree stakes and ties shall be considered as included in the contract unit prices paid for the various plants involved and no separate payment will be made therefor.

Watering basins shall be formed around trees after planting and backfilling operations are completed and prior to the distribution of mulch. Water basins shall be installed in accordance with the details shown on the plans.

Full compensation for forming watering basins shall be considered as included in the contract unit prices paid for the plants involved and no separate payment will be made therefor.

212-1.6 ROOT BARRIER

General: Black, molded, modular panels manufactured with 50 percent recycled polyethylene plastic with ultraviolet inhibitors, 85 mils (2.2 mm) thick, with vertical root deflecting ribs protruding 3/4 inch (19 mm) out from panel, and each panel 24 inches (610 mm) wide.

Root Barrier - Manufactured by Deep Root Corp. 15040 Golden West Circle, Westminster, CA 92683, (714) 898-0563 "DeepRoot" 24" Universal Guide (UB 24-2) or approved equal.

212 – 1.7 ANTI-DESSICANT

Anti-desiccants for retarding excessive loss of plant moisture and inhibiting wilt shall be non-toxic, non-aerosol spray, and water insoluble to produce a moisture-retarding barrier not removable by rain. Wilt-proof Formula NCF as manufactured by Nursery Specialty Products, Greenwich, Connecticut, or equal.

212–1.8 WATER

Domestic, potable water; free of substances harmful to plant growth. Hoses or other methods of transportation shall be furnished by Contractor.

212–1.9 SUBMITTALS

Furnish copies of manufacturer's literature or laboratory analytical data for the following items:

1. Organic planting fertilizer(s)
2. Written verification of procurement of all trees from suppliers
3. Anti-desiccant spray
4. Drainage Fabric
5. Root Barrier

All submittals shall be forwarded in a single package to the Engineer within 30 days of award of the Contract.

Submit Contractor Qualifications.

Submit Certificates of Inspection of plant materials.

212-1.10 PALM TREES

Contractor shall be responsible for the selection, purchase, delivery and installation of the Palm Trees. Contract to schedule work such that the Palm Trees are delivered to the site and planted during the months of June and July.

Limit the storage time for the Palms at project site to prevent exposure to weathering, vandalism or damage from work of other trades. Damaged materials will be rejected. Remove all damaged materials from the job site immediately, and replace at no cost to Owner.

212-1.11 INTEGRATED PEST MANAGEMENT

Contractor shall utilize integrated pest management (IPM) practices during installation and maintenance to control pests and disease in the landscape. IPM uses cultural, mechanical, physical, and biological control methods before using pesticides. Chemical controls are applied only when monitoring indicates that preventative and non-chemical methods are not keeping pests below acceptable levels. When pesticides are required, the least toxic and the least persistent pesticide that will provide adequate pest control is applied. Refer to BFL Guidelines and Maintenance Specification for more information.

Controls

Cultural/Mechanical/physical methods will be used as the first choice in weed management. Monitor planting areas frequently to identify and eradicate weeds early in the growth stage prior to their setting seed. Contractor to utilize Organic Pest Management practices.

Cut or pull weeds using hand operated equipment where possible. Mulches shall be maintained at all times over soil surface that is not covered by vegetation. (see also Section 212-1.2.4, Incorporate Organic Soil Amendments)

If allowed on this project, Contractor shall apply all chemicals in a safe manner and according to label instructions and Agency, State and Federal requirements. A California Chemical Applicators license is required by the Contractor for chemical applications. The Contractor shall mix and apply chemicals to protect against accidental spills and drift to non-target areas, and to insure safety of the applicator. Any spilled chemicals, as well as contaminated soil, water, and/or landscape materials must be removed from the Project and disposed of in accordance with the Agency requirements. The Contractor shall maintain applicator's licenses and records of applications as required by the State.

A Chemical Work Report shall be completed for each chemical application. The Contractor is responsible for submitting chemical usage reports to the City Agricultural Department.

Contractor shall maintain records of all pest management activities. Each record shall include the following information:

A) target pest
B) type and quantity of pesticide used
C) site of the pesticide application;
D) date the pesticide was used;
E) name of the pesticide applicator;
F) application equipment used;
G) prevention and other non-chemical methods of control used.

Contractor shall submit the pest management record to City on a monthly basis.

Herbicides

Least toxic herbicides may be employed by Contractor as a last resort. (Trade names are used only as examples and are not intended as an endorsement) Examples are:

A) Fatty acid potassium salts (herbicidal soaps e.g. Safer's Superfast Weed and Grass Killer® Dr. Bronner's Peppermint Anti-Bacterial Soap)
B) Acetic and citric acids (e.g. Nature's Glory Weed and Grass Killer RTU®)
C) Clove, citrus, mint and thyme oil (e.g. Matran II®, Xpress®)
D) Corn gluten
E) Low-toxic, low-residual herbicide [e.g. glyphosate (Round-up®), glufosinate-ammonium (Finale®), pelargoic acid (Scythe®)

Restricted herbicides that may not be used because they have been identified as ground water contaminants are (trade names in parentheses):

A) Atrazine (Aatrex)
B) Simazine (Princep)
C) Bromacil (Hyvar, Krovar)
D) Prometon (Pramitol)
E) Bentazon (Basagran)
F) Norflurazon (Solicam, Predict, Zorial)

Restricted herbicides that may not be used because they have been identified as a compost contaminant are:

A) Picloram
B) Clopyralid

CLEANUP AND PROTECTION

Contractor shall exercise caution to avoid washing or sweeping dirt and debris into the storm drain system.

DISPOSAL

Recycle all waste per Construction and Demolition waste requirements elsewhere in these specifications. Reuse or return unused items such as palettes, flats and pots. All plant debris shall be separated from other refuse and taken to a facility where it will be recycled i.e., to produce compost or mulch.

212-2 IRRIGATION SYSTEM MATERIALS

Irrigation components shall conform to the provisions of Section 212-2, "Irrigation Systems Materials" of the Standard Specifications and these Special Provisions and as specified on the drawings and details.

212-2.1.3 PLASTIC PIPE FOR USE WITH SOLVENT WELD SOCKET OR THREADED FITTINGS

All mainline (pressure) and lateral lines (non-pressure) pipe and fittings with solvent weld connections shall be polyvinyl chloride (PVC), Schedule 40, Type 1, Grade 1, 1120/1220, conforming to ASTM D 1784, ASTM D 1795 and ASTM D 2466.

All mainline and lateral pipe and fittings with threaded connections shall be polyvinyl chloride (PVC), Schedule 80, Type 1, conforming to ASTM D 1784, ASTM D 2464, and ASTM D 2467.

212-2.2.1 GENERAL

Valve and valve boxes shall conform to the provisions of Section 212-2.2, "Valve and Valve Boxes" of the Standard Specifications and these Special Provisions.

212-2.2.2 GATE VALVES

Ball valves shall be KBI PVC sized per lateral as shown on plans, City Standard Plans detail 414 or approved equal.

212-2.2.4 REMOTE CONTROL VALVES

Electric remote control valves shall be as shown on plans, per City Standard Plans detail 418 or approved equal.

212-2.2.6 QUICK COUPLING VALVES AND ASSEMBLIES

Quick coupler valves shall be Buckner QB44LRC-10, 25mm (1"), 2-piece brass with locking top per City Standard Plans detail 416 or approved equal.

212-2.2.7 VALVE BOXES

The provisions of Section 212-2.2.7 "Valve Boxes" are amended as follows:

Use 10-5/8" x 17-1/4" x 12" rectangular reinforced concrete electrical pull box with bolt down reinforced concrete cover, for electrical service connections, Christy N9 or approved equal. Box to be bolt lockable, marked "Electric."

Use 10" diameter round x 10" deep plastic valve box with extension and bolt down cover, including bolts, for all quick coupling valves, Carson Industries 910-12B or approved equal. Box to be bolt lockable.

In landscape areas, use 10" x 17" rectangular plastic box with plastic bolt down cover, including bolts, for all ball valves, electrical control valves and splice/pull boxes for low voltage conductors, Christy Fibrelyte FL9BOX with FL9T (bolt-down lid) or approved equal and shall conform to City standards detail "Remote Control Valve" (Dwg. No. 408, Case 3101). And per City Standard Plans detail 412.

In paved areas, use 10" by 17" x 12" rectangular reinforced Portland cement concrete (PCC) box with PCC bolt down cover, including bolts, for all ball valves, electrical control valves and splice/pull boxes for low voltage conductors, and shall comply with City standard detail "Remote Control Valve" (Dwg. No. 418, Case 3101). Box to be bolt lockable.

All boxes shall have bolt down lids that are permanently marked "Irrigation."

Drain rock for rock sump shall be per 200-1.2 "Crushed Rock and Rock Dust."

212-2.3 BACKFLOW PREVENTER ASSEMBLY

Backflow preventer shall be a reduced pressure backflow preventer, Watts 909 with wye strainer sized as shown on plans and City Standard Plans, detail 409 or approved equal.

Backflow preventer enclosure shall be insulated "Strong Box" Model SBBC-ALI by VIT Products Inc., (1-800-729-1314) sized per backflow preventer, and City Standard Plans, detail 410 or approved equal.

212-2.4 SPRINKLER EQUIPMENT

Sprinkler equipment shall conform to the provisions of Section 212-2.4, "Sprinkler Equipment" of the Standard Specifications and these Special Provisions.

All irrigation heads and nozzles shall be of plastic construction. Riser nipples for all irrigation heads shall be the same size as the riser opening in the irrigation head body. All irrigation heads of the same type shall be as shown on the plans. All Toro sprinklers shall have Check-O-Matics.

DRIP EMITTERS, (for Palm Tree Irrigation): Polyethylene or polypropylene plastic pressure compensating, self-flushing emitter with a silicone elastomer diaphragm, UV inhibitor and operating pressure of between 10-50 PSI, Pepco Quadra Bubblers, or approved equal. See legend for flow rate.

BUBBLERS: Plastic body, fixed flow and pressure compensating nozzles by Toro "500 Series" flood bubblers or approved equal. Install bubblers as shown on plans, including in drain tubes if shown.

212-3 ELECTRICAL MATERIALS

212-3.2.1 CONDUIT

Section 212-3.2.1, "Conduit" is revised as follows:

Conduit for low voltage control wire shall be a minimum of one and one-half inch (1-1/2") diameter, UL standard for Rigid Non-Metallic conduit (Publication UL 651). Low voltage, as used in this Section shall mean 36 volts or less. Conduit shall increase in size per National Electric Code as required to allow for easy pulling of wire bundles through conduit sections without hang-ups. Install a pull rope and spire wire in addition to remote control valve conductor in each section of conduit run between boxes. Conduit runs

shall terminate in a valve box installed next to remote control valve boxes as shown on the details. Conduit runs shall not exceed 100 feet between boxes.

Conduit for all other purposes shall conform to the provisions of Section 212-3.2.1 of the Standard Specifications.

Sand for sand envelope shall be course, clear, river run sand.

212-3.2.2 CONDUCTORS
Conductors shall conform to the provisions of Section 212-3.2.2 "Conductors" of the Standard Specifications and these Special Provisions.

Conductors shall be copper.

Low voltage, as used in this section, shall mean 36 volts or less.

Low voltage conductors shall be #14 with a #12 common ground conductor. Spare conductor shall be #12.

Splice connectors for low voltage conductors shall be Ewing DS 400 Dri-splice connectors, or approved equal per City Standard detail "Remote Control Valve" Dwg. No. 418, Case 3101. Splice connections for low voltage conductors shall be done in a splice/pull box. Contractor shall furnish and install splice/pull box for splice connections as required as part of the Contract.

The provisions of the second paragraph of Section 212-3.2.2 is amended as follows:

Low voltage control conductors shall be THW or THWN and supplied in the sizes shown on the Plans or in accordance with the control equipment manufacturer's recommendations. A unique and separate insulation color shall be provided for each RCV Station. The color of low voltage neutral and control and spare conductor insulation shall be homogeneous throughout the entire thickness of the insulation. The neutral conductor shall have a white insulating jacket.

212-3.3 CONTROLLER UNIT Irrigation controller and enclosure shall conform to the provisions of 212-3.3, "Controller Unit" of the Standard Specifications and these Special Provisions.

ENCLOSURE As shown on City Standard Plan for "Irrigation Controller Enclosure" (Dwg.402, Case 3101) shall be Nema 3R rated, stainless steel enclosure. Strong Box, Model #SB-18SS by VIT Products, Inc., (1-800-729-1314), or approved equal. Enclosures shall include RGVRSS Rain Switch Enclosure, CSA subassembly; 120 volt 15 amps disconnect switch, duplex GFI receptacles, locking switch, removable pre-drilled backboard, flexible conduit, conduit and terminal strips. Cabinet door shall be lockable with a padlock.

CONTROLLER Shall be as indicated on the drawings.

213-3 PAVEMENT REINFORCEMENT MESH

213-3.1 General. This section applies for furnishing high strength pavement reinforcement grid in accordance with the details shown on the plans and the requirements of these specifications to prevent reflective cracking and extend pavement life.

Pavement Reinforcement Mesh shall be "Regular".

213-3.2 Physical Properties.

1) Physical Requirements. Reinforcement mesh shall be a knitted, fiberglass strand grid with an elastomeric polymer coating and a pressure sensitive self-adhesive backing in a stable construction with the following characteristics:

SPECIFICATIONS FOR USE IN ASPHALT REPAIRS	**REGULAR**		**HEAVY DUTY**	
	Imperial	**Metric**	**Imperial**	**Metric**
TENSILE STRENGTH* Across Width Across Width BASED ON COMPONENT STRAND STRENGTH TEST METHOD G.R.I. GG 1-87	560 lbs/in. 560 lbs/in.	100 kN/m 100 kN/m	1120 lbs/in. 560 lbs/in.	200 kN/m 100 kN/m
ELONGATION AT BREAK MAXIMUM G.R.I GG 1-87	3%	3%	3%	3%
MELTING POINT MINIMUM TEST METHOD ASTM D 276	>425°F	>218°C	>425°F	>218°C
MASS/UNIT AREA TEST METHOD D5261-92 (Minimum Values)	11 oz/yd²	370 g/m²	16 oz/yd²	560 g/m²
ROLL LENGTH (min.)	200 ft.	100m	190 ft.	60m
ADHESIVE BACKING	Self-Adhesive		Self-Adhesive	
COATING-Modified Elastomeric Polymer (Modified ASTM 4963)	Minimum Dry Pick up (DPU) – 20%			

All values represent certifiable average minimum roll values in the weakest principal direction of the mesh. Manufacturer must supply test certificate of the above properties prior to the start of mesh placement to the Engineer. The number and frequency of testing shall conform to 213-1.3. Data must be signed by the quality assurance principal at the manufacturing facilities and be representative of all product on the project.

2) Manufacturer. The mesh shall be GlasGrid or approved equal. GlasGrid is manufactured by Bayex, Inc., 14770 East Avenue, Albion, New York 14411-0390, 1-800-263-5715.

213-3.2 **Quality Assurance.**

1) Documentation (with contact names and phone numbers) that the mesh has been utilized on projects totaling a minimum of 100,000 square yards worldwide.

2) Manufacturer's signed certification by an authorized representative of the quality control department that the mesh components meet all of the requirements of this specification.

213-3.3 **Storage and Handling**

1) Packaging Requirements. The mesh shall be packaged in standard-width rolls of specified lengths. Each roll of mesh shall be packaged individually in a suitable wrapper to help protect the mesh from damage due to ultra-violet light and moisture during normal storage and handling.

2) Storage Requirements. The material must be stored in dry, covered conditions free from dust, and should be stocked vertically to avoid misshaped rolls.

3) Identification Requirements. Each roll shall be labeled or tagged in such a manner that the information for product identification and other quality control purposes can be read from the label without opening the roll packaging. Each roll shall be identified by the manufacturer in a manner that the following can be retrieved for quality/auditing purposes; job number; loom number; production date and shift; weight of packaging material, width and length of fabric on the roll, and net weight of the mesh.

4) Safety Precautions shall be delivered with the product.

SECTION 214 PAVEMENT MARKERS

214-1 GENERAL. Pavement Markers shall conform to Section 82 and 85 of the Caltrans Standard Specifications and applicable Caltrans Standard Plans, and City Standard Plans.

214-2 TYPE OF MARKERS. The following is added to Section 85-1.02 "Type of Markers" of the Caltrans Standard Specifications:

Type I – Two-Way Blue Reflective Markers

214-7 BITUMINOUS ADHESIVE. The following modification is made to Section 85-1.055 "Adhesives" of the Caltrans Standard Specifications: Epoxy adhesives shall not be used. All markers shall be secured with hot melt bituminous adhesives.

SECTION 215 ROADSIDE SIGNS, CONSTRUCTION AREA SIGNS AND TRAFFIC CONTROL SIGNS

Section 215 "Roadside Signs, Construction Area Signs and Traffic Control Signs" is added to the Standard Specifications and these Special Provisions.

215-1 ROADSIDE SIGNS

Section 215 "Roadside Signs, Construction Area Signs and Traffic Control Signs" is added to the Standard Specifications and these Special Provisions.

215-1.1 SIGN PANEL MATERIALS

- All signs shall be 0.080" gauge aluminum alloy 6061-T or 5052-H38.
- Reflective sheeting shall be Type IIIA.
- All signs shall conform to the appropriate California department of Transportation sign specification sheet.

215-1.2 SIGN PANEL FASTENING HARDWARE Back braces for signs shall be of commercial quality, mild metal, hot-dip galvanized after fabrication.

Straps and saddle brackets for mounting sign panels on electroliers, sign structure posts and traffic signal standards shall be corrosion-resisting chromium nickel steel conforming to the specifications of ASTM Design: A167, Type 302. Theft-proof bolts shall be stainless steel with chromium content of at least 17 percent and a nickel content of 8 percent.

Lag screws, bolts (except theft-proof bolts), metal washers and nuts shall be of commercial quality steel, hot-dip galvanized after fabrication.

Fiber washers shall be of commercial quality.

215-2 CONSTRUCTION AREA SIGNS

215-2.1 GENERAL.

All construction area signs shall be install and maintained throughout the duration of the projects at the locations shown on the plans and as directed by the Engineer in accordance with the 2006 CA MUTCD and these Special Provisions. This requirement will apply continuously and will not be limited to normal working hours. All construction area signs shall conform to the nominal dimensions, color and legend requirements of the plans, the 2006 CA MUTCD. All sign panels shall be the product of a commercial sign manufacturer.

Construction Area Signs shall meet the requirements of Section 7-10, "Public Convenience and Safety" of the Standard Specifications and these Special Provisions.

Sign panels for all Construction Area Signs shall be visible at 152 m (500') and legible at 91 m (300'), at noon on a cloudless day and at night under illumination of legal low beam headlights, by persons with vision of or corrected to 20/20. Sign panels for construction area signs shall consist of 3M Scotchlite Diamond Grade VIP Reflective Sheeting, Series 3990 applied to an aluminum or plywood sign substrate.

Signs shall be the size indicated in the following table:

Description	Size
W20-1 "Road Work Ahead"	1.22 m (48") x 1.22 m (48") minimum

G20-2 “End Road Work”	1.5m (60”) x 0.6m (24”) minimum
W8-8 “Rough Road”	0.75 m (30”) x 0.75 m (30”) minimum
W8-7 “Loose Gravel”	0.75 m (30”) x 0.75 m (30”) minimum
W21-2 “Fresh Oil”	0.6 m (24”) x 0.6 m (24”) minimum
Type P “Steel Plates Ahead”	0.9 m (36”) x 0.9 m (36”) minimum

Used signs with the specified sheeting material will be considered satisfactory if they conform to the requirements for visibility and legibility and the colors conform to the requirements above. A significant difference between day and night-time reflective color will be grounds for rejecting signs.

All construction area signs shall have the Contractor’s name and telephone number labeled on the back of the sign panel.

Grant funding signs shall be provided by the City. Contractor shall pick up the grant funding signs at the City of San Leandro Public Works corporation yard located at 14200 Chapman Road in San Leandro. These signs shall be returned to the San Leandro Public Works corporation yard after construction is completed.

215-3 TRAFFIC CONTROL SIGNS

215-3.1 GENERAL. Traffic control shall meet the requirement of Section 7-10, “Public Convenience and Safety” of the Standard Specifications and these Special Provisions.

All traffic control signs shall conform to the nominal dimensions, color and legend requirements of the plans, the 2006 CA MUTCD. All sign panels shall be the product of a commercial sign manufacturer.

Sign panels for all traffic control signs shall be visible at 152 m (500’) and legible at 91 M (300’), at noon on a cloudless day and at night under illumination of legal low beam headlights, by persons with vision of or corrected to 20/20. Sign panels for traffic control shall consist of 3M Scotchlite Diamond Grade VIP Reflective Sheeting applied to an aluminum or plywood substrate.

Used signs with the specified sheeting material will be considered satisfactory if they conform to the requirements for visibility and legibility and the colors conform to the requirements above. A significant difference between day and night-time reflective color will be grounds for rejecting signs.

All traffic control signs shall have the Contractor’s name and telephone number labeled on the back of the sign panel.

If any component in the traffic control systems is displaced, or ceases to operate or function specified, from any cause, during the progress of the work, the Contractor shall immediately repair said component to its original condition or replace said component and shall restore the component to its original location.

When lane closures are made for work periods only, at the end of each work period, all components of the traffic control system, except portable delineators placed along open trenches or excavation adjacent to the traveled way shall be removed for the traveled way. If the Contractor so elects, said components may be stored at selected central locations, approved by the Engineer, within the limits of the street right-of-way.

Contractor is hereby directed to the presence of high volume of pedestrians in the vicinity of the project site. The city will require that the Contractor provide clear pedestrian access within the construction limit. The Contractor shall at all times be responsible for the safety of all pedestrians within construction

limit through the duration of this project. Contractor equipment shall not obstruct automobile line of sight to pedestrians. The Contractor's attention is directed to Section 7-10.1.1 "Pedestrian Access".

215-4 WAYFINDING SIGNAGE

217 – 4.1 GENERAL

Contractor shall be responsible for the furnishing and installation of all site wayfinding; poles, signage and concrete installation, as indicated on the plans. All paint shall be factory applied powder coat finish, color as indicated on plans. Conform to Section 310-2 Surface Preparation for Painting Steel Structures of the Standard Specifications, per plans, manufacturer's specifications and these Special Revisions.

This section specifies exterior identification, directional and other informational signs as indicated in the project sign type drawings. Provide all submittals, drawings, documentation, engineering, materials and labor as necessary for the fabrication and installation of the specified sign program.

215-4.2 SUBMITTALS

A. Shop Drawings: Provide shop drawings indicating the manufacture and installation details of all sign types including but not limited to sign structures, footings, mounting, attachments, typography, layouts, lighting, colors and finishes. Shop drawings are to provide information detailed beyond what is indicated in the construction documents, and indicate completely the contractor's intended construction of the sign components and installation to the architectural conditions. **Provide stamped and signed structural engineering drawings and supporting calculations by engineer licensed in the State of California for all sign structures.** .

B. Color and Finish Samples: Provide five 8" x 10" samples of each color and material finish called for in this specification, until final approval is received.

C. Manufacturer's Data: Provide manufacturer's specifications, data, installation details, maintenance instructions and other information for complete products specified within this section.

D. City Provided Electronic Artwork: The City will provide the sign type drawings and electronic artwork to the contractor upon their request, for use in preparation of shop drawings. Use of these drawings in no way absolves the contractor's responsibility for engineering, quality, workmanship and coordination.

E. Completeness of Submittals: Submit thorough and complete submittals including shop drawings and samples at one time. Incomplete or partial submittals will be rejected and returned to the contractor without review comments.

F. Quantity of Submittals – The designer will review two complete submittals on this project. For any re-submittals beyond the allotted two, the contractor will pay the designer for the review on a time and materials basis.

G. LEED Environmental Requirements – Submit Appendices A, B, C & D and all supporting documentation, as required in specifications section 01352.

215-4.3 CLOSEOUT SUBMITTALS

Unless otherwise noted, utilize the most recent publications of the referenced standards and publications.

A. California Building Code (CBC 2010)

B. ATBCB Design Guidelines for Signage in relation to the Americans With Disabilities Act.

C. California Administrative Code, Titles 19 and 24.

D. American National Standards Institute (ANSI)

E. American Society for Testing & Materials (ASTM)

F. Office of the State Architect – Division of Access Compliance

G. Underwriters Laboratories (UL) – Guidelines for Electrical Construction Practices

H. U.S Green Building Council (USGBC) LEED Rating System For New Construction & Major Renovations. Current Version.

I. All other applicable Federal, State and Local Codes and Ordinances

215-4.4 CONTRACTOR QUALIFICATIONS

A. Sign Manufacturer: Not less than 5 years' experience in the production of specified products and a record of successful in-service performance. Submit examples of similar projects completed successfully within the last year with bids. No more than one-third of the contract value may be subcontracted to outside vendors.

B. Installer: Engage an installer who has no less than 3 years' experience in installation of systems similar in complexity to those required for this project. Submit examples of similar projects completed successfully within the last year with bids. No more than one-third of the contract value may be subcontracted to outside vendors.

215-4.5 QUALITY ASSURRANCE

A. The sign contractor is responsible for the quality of all materials and workmanship required for execution of the work specified in this section, whether executed by their own firm or firms subcontracting of supplying on their behalf. Sign contractor is responsible for providing their subcontractors with all pertinent project documents, information and coordination.

215-4.6 RELATED WORK

A. Construction outlined in this section interrelates to work described throughout this project specification. Careful coordination is required to anticipate and resolve issues prior to them affecting project cost or schedule.

B. Overview: Provide graphics elements as completed units produced by a single manufacturer, including necessary and incidental mounting accessories, fittings and connectors.

C. Contractor Responsibility: The sign contractor, by commencing work on this section, assumes overall responsibility in determining and assuring that materials, components, assemblies and installations as shown or required as a part of the work within this section or other related sections complies with the requirements of the contract documents and as a part of the warranty of the work. The contractor shall further warrant, that all components specified or incidentally required are compatible with each other and adjoining installation conditions, that there are no conditions which will cause materials or assemblies not to perform to their full life expectancy, that materials are compatible to

adjoining substrates, finishes, materials and work by other trades, and that the individual parts and overall systems are effectively integrated and correct.

D. Interpretations of Contract Drawings: Do not scale drawings for dimensions. Use only written dimensions provided on drawings, unless they are discrepancies found. Contractor is responsible for verifying all dimensions and conditions shown on drawings. The Designer is to be notified of any discrepancy in drawings or conditions that require changes, constitute a dangerous condition, or prevent a proper installation of the graphics elements.

215-4.7 STANDARDS

A. Typography:
1. Palatino Regular, Helvetica Neue 77
2. Letterspacing - Utilize letterspacing as indicated in sign type drawings. Provide full size samples of layouts for sign types specified in submittal section of this specification.

B. Colors:
1. "P-1" RED PAINT to match PMS1815c
2. "P-2" BLACK PAINT to match PMS Process Black c
3. "P-3" TAN PAINT to match PMS7520c
4. "P-4" BEIGE PAINT to match PMS7499c
5. "P-5" WHITE PAINT
6. "V-1" ARLON HP VINYL A9582-0
7. "V-2" ARLON HP VINYL 02 White
8. "V-3" ARLON HP VINYL 03 Black

C. Finishes: Standard Paint Finishes, Satin (low-sheen)

D. Maps: Custom. Designer will provide electronic artwork for the contractor's use.

E. Symbols: Custom. Designer will provide electronic artwork for the contractor's use.

215-4.8 SIGN TYPES

A. Signtype DR.03: Primary Vehicular Directional - Fabricated aluminum frame, non-illuminated, single faced panel sign. Background color surface painted, Graphics are surface applied. Bracket mounted on light posts.

C. Signtype DR.06: Pedestrian Directional – Fabricated aluminum, non-illuminated, double or single faced post and panel sign. Background color surface painted, Graphics are surface applied. Bracket mounted on posts. Posts to match City of San Leandro lighting posts. Flush mount into concrete footings.

215-4.9 SIGN PRODUCTS

A. Panel Signs

1. All aluminum fabrications, as specified.

B. Vinyl Letters

1. Follow manufacturer's specifications for cutting, weeding, surface preparation and application of vinyl letters to specified surface material.

2. Letterforms are to be true to the specified typeface, utilizing specified letterspacing. Do not condense or extend typograph typography unless it is specifically called for in the contract documents.

215-4.10 MATERIALS

A. Aluminum

1. Sheet and Plate: Utilize 6061 alloy, ASTM B221 unless otherwise notified, or other alloy as required to fulfill performance requirements. Utilize sizes, alloys, tempers and gauges as necessary to fulfill performance requirements, and to provide proper characteristics for fabrication, assembly and finishing as called for in the contract documents.

2. Extrusions and Tubing: Utilize 6061 alloy, ASTM B221 unless otherwise notified, or other alloy as required to fulfill performance requirements. Utilize sizes, alloys, tempers and gauges as necessary to fulfill performance requirements, and to provide proper characteristics for fabrication, assembly and finishing as called for in the contract documents. Minimum wall thickness is .125 inch unless otherwise specified.

B. Paint

1. Acrylic Polyurethane: Multi-component Low VOC catalytic opaque coating material consisting of pigmented base and activator. Follow manufacturer's specifications for ingredient ratios, surface preparation, priming, application methods, drying and handling of finishes.

2. Paint finish shall be smooth and consistent, free of surface imperfections, orange peel texture, scratches, gouges, drips, bubbles, uneven coating application, overspray or other surface imperfections.

3. Utilize Matthews Satin Ultra-Low VOC (MAP-LV).

4. Surface coatings are to be compatible with adhesives and other materials utilized to apply graphics or other elements to their surface, with no discoloration or other deterioration.

C. Fasteners

1. Unless otherwise specified, utilize stainless steel fasteners (316 alloy) for mechanical connections.

D. Vinyl Film

1. Provide high performance cast vinyl film with integral color and a minimum of 5 to 7 year manufacturer's rating. 3M Scotchcal or Calon High Performance vinyl.

2. Vinyl is to be installed per manufacturer's specifications with not bubbles, tears, blisters, distortions or other surface imperfections in installed film.

E. Foam Tape

1. Double sided acrylic adhesive closed cell urethane foam tape, 3M Series A20, #4016 or equal. Preparation of sign and mounting surface and installation techniques to be in accordance with manufacturer's specifications.

F. Silicone Sealant

1. Clear silicone based commercial grade adhesive GE Silpruf SCS 2000 as manufactured by General Electric. Preparation of sign and mounting surface and installation techniques to be in accordance with manufacturer's specifications.

I . Engineered Adhesives

1. Two-part, construction grade structural epoxy adhesive, Rezi-Weld 1000 state or approved equal.
2. Lords Engineered Adhesives, 400 series for metal, 300 series for other applications, or approved equal.

SECTION 216 – MISCELLANEOUS LANDSCAPE ITEMS; METAL FENCE, METAL TREE GRATES, METAL TRELLIS, METAL SKATEBOARD DETERANTS

Section 216 "Miscellaneous Landscape Items" is added to the Standard Specifications and these Special Provisions.

216 – 1.1 MATERIALS

WATER: Clean and potable, free of alkali, organic matter and other materials to be provided by the Contractor.

METAL FENCE: size and finish per drawings.

METAL TREE GRATES: size and finish per drawings.

METAL TRELLIS AT WEST JOAQUIN GATEWAY: size and finish per drawings.

SKATEBOARD DETERRENTS: manufacturer, model, type and finish per plans.

216 - 1.2 SUBMITTALS:

Products:

1. One (1) Shop Drawing of each metal component (metal fence and trellis)
2. One (1) RAL cut sheet of powder coat of each color/type per plans.
3. Manufacturer cut-sheet of pre cast concrete cap and color.
4. Manufacturer cut-sheet of Tree Grates with finished and size noted as specified per drawings.
5. One manufacturer cut sheet of skateboard deterrent.
6. One manufacturer cut sheet of all other miscellaneous products.

Baked-Enamel, Powder-Coat Finish: Factory applied manufacturer's standard, baked, polyester-TGIC, powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness.

Anchor Bolts shall be ASTM A307 grade A hot-dipped galvanized, with powder coat black finish unless otherwise specified.

217 - 1.2 SUBMITTALS

Product Data: Submit materials list of items proposed under this Section, manufacturer's product literature and specifications for each specified manufactured item, and manufacturer's recommended installation procedures.

Shop Drawings: Indicate pertinent dimensioning, clearances, general construction, anchorage locations, typical details, finishes and hardware.

- Custom Metal Fence as indicated on drawings with powder coated finish, per plan.

SECTION 217 – ORNAMENTAL CONCRETE

Section 217 "Ornamental Concrete " is added to the Standard Specifications and these Special Provisions.

Contractor shall be responsible for the furnishing and installation of all poured in place concrete columns and seat walls with precast concrete caps, as specified on the drawings. Finish and color shall be as indicated on the drawings.

217 – 1.1 MATERIALS

a) Poured in Place Gateway Pilasters/Columns
b) Poured in Place Concrete Seat Wall
c) Precast Concrete Seat Wall and Column Caps

217 - 1.2 SUBMITTALS

One (1) Shop Drawing of pre-cast concrete cap showing finish, color and method of attachment as indicated on plans with manufacturer's recommended installation procedures.

Shop Drawings:
Indicate pertinent dimensioning, clearances, general construction, structural elements, anchorage locations, typical details, finishes and hardware.

217- 1.3 DELIVERY, STORAGE AND HANDLING

Deliver all precast concrete and fountain materials to project site in appropriate protective packaging as furnished by manufacturer.

Store units at project site to prevent exposure to weathering, vandalism or damage from work of other trades. Damaged materials will be rejected. Remove all damaged materials from the job site immediately, and replace at no cost to Owner.

217 - 1.4 EXISTING CONDITIONS

Contractor shall become familiar with existing site conditions, verify dimensions, and obtain other information as may be necessary for a complete installation. Notify the Engineer of unsatisfactory conditions prior to commencement of work.

217 - 1.5 SUBSTITUTIONS

Written Acceptance: Specific reference to manufacturer's names and products specified in these sections are used as standards; this implies no right to substitute other materials or methods without written acceptance of the Engineer.

Contractor's Responsibility: Installations of accepted substitutions are the Contractor's responsibility. Changes required for installation of accepted substitutions must be made to the satisfaction of Engineer and without additional cost to Owner.

SECTION – 218 PORTLAND CEMENT PLASTER (STUCCO FINISH)

Section 218 "Portland Cement Plaster" is added to the Standard Specifications and these Special Provisions.

218 –1 SCOPE

This specification covers the stucco finish of the fountain concrete walls.

218 - 3 TERMINOLOGY

Stucco Adhesive - Weldcrete Bonder and adhesive between the concrete surface and the stucco.

Finish Coat: A decorative and protective textured coating applied to the base coat and over the brown coat of Portland Cement Plaster.

Skim Coat: A decorative and protective textured coating applied to the concrete surface.

Deleterious Effects: No cracking, checking, crazing, erosion, rusting, blister, peeling or delamination.

218 - 4 SUMMARY

Provide all labor and material necessary for the installation of stucco finish and sealant as shown on the drawings and as specified herein.

218 - 5 SUBMITTALS:

Products:

1. One (4) 24" x 24" inch sample panels showing the stucco finish coat texture and color (to match existing finish and color of columns at West Estudillo, San Leandro).
2. One (1) photocopy of manufacturer's descriptive literature for Stucco.

218 - 6 QUALITY ASSURANCE:

Supervision: A person who is thoroughly familiar with the materials being installed and the methods for their installation will be present at the job site at all times during the execution of the work defined by this section.

218 - 7 MATERIALS:

Portland Cement: ASTM C150, Type 11.
Integral color per plans.

Sand: ASTM C144.
Stucco Adhesive: Weldcrete Bonder available through Weston Building Supply.

218 - 8 DELIVERY AND STORAGE:

Keep cement dry, stored off the ground, under cover and away from damp surfaces. Remove wet and deteriorated materials from project site.

218 - 9 PROJECT CONDITIONS:

Environmental Requirements:

Cold-Weather Requirements: Do not apply cement plaster, unless minimum ambient temperature of 50 degrees F. has been and continues to be maintained for a minimum of 48 hours prior to application and until plaster is cured.

Hot-Weather Requirements: Protect cement plaster from uneven and excessive evaporation during hot, dry weather.

Protection:Protect finished surfaces installed prior to plastering as required to prevent damage to the finished surfaces.

PART 3 - CONSTRUCTION METHODS

Methods of construction for all work performed on public property in the City of San Leandro shall conform with the Standard Specifications for Public Works Construction, the "GREENBOOK", the 2006 edition and the 2008 supplement thereto, adopted by the Southern California Chapter of the American Public Works Association; and Sections 84, 85, and 86 of the May 2006 edition of California Department of Transportation (Caltrans) Standard Specifications; and the Special Provisions (Technical Specifications) thereto adopted by the Engineer as follows:

All work within the public Right-of-Way or on public property of the City of San Leandro shall be performed under auspices of either improvement drawings signed and approved by the Engineer or a valid encroachment permit.

Additions or Revisions to the following Green Book Specifications are included in this section:

Section 300- Earthwork
Section 301- Treated Soil, Subgrade Preparation, Placement of Base Materials
Section 302 – Roadway Surfacing
Section 303 – Concrete and Masonry Construction
Section 304 – Metal Fabrications
Section 307 – Street Lighting and Traffic Signals
Section 308 – Landscape and Irrigation Materials
Section 309 – Monuments
Section 310 – Painting
Section 312 – Pavement Marker Placement and Removal
Section 315 – Roadside Signs, Construction Area Signs, and Traffic Control

SECTION 300 - EARTHWORK

300-1 CLEARING AND GRUBBING Clearing and Grubbing shall conform to the provisions of Section 300-1, "Clearing and Grubbing" of the Standard Specifications and these Special Provisions.

300-1.1 GENERAL. The following is added to Section 300-1.1 "General" of the Standard Specifications: Roots and stumps shall be removed to a minimum depth of 600 mm (24") below finish grade. Unless otherwise shown on the plans or directed by the Engineer, existing trees shall be protected and remain in place.

300-1.3.1 GENERAL. The following is added to Section 300-1.3.1 "General" of the Standard Specifications: Burning of material is not permitted. All sawcut residues shall be collected concurrent with the sawcutting operation by vacuum or other method approved by the Engineer and disposed of by the Contractor.

All overlapping asphalt, concrete, slurry seal, etc. shall be removed from gutters and driveways that are adjacent to cold mill, keycut, or pavement removal work and shall be considered included work required by Section 300-1 and/or 302-1.

Any damaged curb or gutter shall be replaced at Contractor's sole expense.

Unless otherwise noted on the plans, clearing and grubbing shall be performed within the entire right of way area. All twigs, branches or plant material (excluding self sowing weeds or seeds) on site indicated to be removed shall be chipped to 1" maximum size and salvaged for future mulch on site. Chemicals, herbicides or burning of material will not be allowed

EXISTING FOOTINGS The project plan calls for the removal of existing streetlight and signal pole footings. Such footing shall be removed to a minimum depth of 4 feet below finished grade. Where such footings are in conflict with new improvements, existing footings shall be removed in their entirety.

TREE REMOVAL The project plan calls for significant tree and stump removal. All trees and stumps within the project area shall be cut in a safe manner and chipped to 1" maximum size and salvaged for future mulch on site. All trees to be removed shall be marked and approved by the Engineer prior to removal.

As part of the permitting requirements, pre-construction nesting bird surveys must be completed prior to tree removal. The Contractor shall notify the Engineer at least seven (7) working days before planned tree removal is to begin so that nesting bird surveys can be conducted. Tree removal shall not begin until the Contractor received written approval from the Engineer.

WATERING

Contractor shall give particular attention to maintaining the project in as dust-free condition as possible while performing the various items of work, and during non-working periods, including weekends. Excavation areas shall be watered prior to excavating and/or during material loading, as necessary; dusty imported aggregates shall be watered prior to or immediately after placing on the subgrade; and subgrades shall be watered frequently, as directed by the Engineer.

REMOVE WEEDS The Contractor shall remove all weeds between the gutter lip and the existing street pavement after grinding operation is complete.

REMOVE PAINT AND THERMOPLASTIC PAVEMENT MARKING Existing paint and thermoplastic traffic stripes and pavement legends within the limit of work not shown as existing to

remain shall be removed by grinding. Pavement markings in areas which are not to be subsequently resurfaced shall be ground in a rectangular pattern to completely obliterate the original message. The Contractor shall remove and dispose of the grinding material. All areas not subsequently resurfaced shall be fog sealed and sanded in accordance with Section 302-12 of these Special Provisions.

REMOVE PAVEMENT MARKERS AND TRAFFIC STRIPING Existing pavement markers, lane striping, and traffic bars within the limits of work not shown as existing to remain shall be removed and disposed of.

300-1.3.1.1 TREE PROTECTION

The Contractor shall not wash equipment in the root zone area of trees. The leakage or spillage of toxic materials such as fuels or paints can be fatal for trees and is prohibited. Unnecessary fill, concrete washout, and construction debris must be removed.

The trunk and crown of trees shall not be disturbed. Common forms of damage include stripped bark and cambium, split trunks, wounds on the trunk, and broken limbs. Damage also occurs from the posting of signs, such as building permits, or survey markers on trees.

1. The Engineer shall report any such injury to the Landscape Architect who may recommend the services of an independent Certified Arborist that, in their opinion, may cause adverse injury to trees. This cost shall be paid for by the Contractor with no cost to the client. If, in the opinion of the Arborist, the Contractor has caused injury to any of the trees, remedial measures shall be required to the satisfaction of the Arborist and City Engineer.
2. No pruning, fertilizing, or wound treatments will be allowed without obtaining approval in advance by the Arborist.

\Most trees can tolerate only a small percentage of critical root zone loss. If encroachment is anticipated within the critical root zones of trees, the following preventive measures shall be employed:

1. Clearing activities: Trenches shall be cut along trench boundaries with a root-pruning machine so as to cut, rather than tear roots. If trenching cannot be done by a root-pruning machine, roots greater than 75 mm in diameter that must be cut are to be excavated by hand so that they can be cut with a hand-held saw. Damage to the root flair at the base of the tree is to be avoided.
2. Soil compaction: Where compaction might occur due to traffic or materials storage, the tree protective zone must first be mulched or covered with plywood.
3. Trenching: The installation of utilities through a protective zone should occur by way of tunneling rather than trenching. Trenching for installation of utilities may be utilized if the Contractor's procedure is approved by the Arborist and City Engineer. If roots must be cut, proper root pruning procedures must be employed. The procedure shall be approved in advance by the Arborist.
4. Where the Arborist has determined that irreparable damage has occurred to trees within tree protective zones, the trees must be removed and replaced with one 0.9 meter box specimen of the same species and variety for each tree removed, at the Contractor's expense.

Remedial site reclamation and tree care procedures shall be implemented at the direction of the Arborist when encroachment within protective zones has caused damage to either the tree or the tree's growing site, and that damage is repairable.

Removal of branches, if required, is to be done in accordance with International Society of Arboriculture Pruning Standards. All branches to be removed shall be chipped to 1" maximum size and salvaged for future mulch on site.

All tree protection measures shall be installed prior to grading. Contractor shall install protective fencing per the plans.

The root zone area or Tree Protective Zone Area is an area extending from the tree trunk with a radius of approximately 10 times the trunk diameter. Actual area will be determined in the field by the Arborist and or the City Engineer.

300-1.3.2 REQUIREMENTS. The following modifications are made to Section 300-1.3.2 "Requirements" of the Standard Specifications:

a) Existing AC improvements shall be sawcut to a minimum depth of 150 mm (6").
b) Existing PCC improvements shall be sawcut to a minimum depth of 150 mm (6"). PCC improvements to be removed shall be sawcut along existing scorelines.

AC Pavement to be removed for trenches shall be initially sawcut even with the trench walls. **Final sawcut for 300 mm (12") "T" sections on each side of the trench wall shall be made immediately prior to paving** (see Standard Plans, drawings 122A and 122B, "Trench Resurfacing" and "Trench Resurfacing Notes," respectively). Sawcut residue shall be vacuumed concurrently with the sawing operations. Sawcut "overcuts" shall be sealed with an approved crack sealer. If gutter lip, existing trench edge, cold joint, cracked or failed AC pavement, etc., is within an additional 600 mm (24"), AC shall be replaced in kind to that gutter lip, existing trench edge, cold joint, cracked or failed AC pavement, etc.

Excavation shall be done to the line and grade shown on the Plans or marked in the field.

Temporary resurfacing shall be immediately installed in accordance with Section 302-5.2.5, "Pavement Transitions," of the Standard Specifications and these Special Provisions.

Unless otherwise shown on the plans or directed by the Engineer, existing trees shall be protected and remain in place. Tree roots larger than 51 mm (2") in diameter which are removed during the course of work shall be sealed using an approved sealant.

300-2 UNCLASSIFIED EXCAVATION. Unclassified excavation including roadway excavation, shall conform to the provisions of Section 300-2, "Unclassified Excavation" of the Standard Specifications and these Special Provisions.

300-2.1 GENERAL The following is added to Section 300-2.1 "General" of the Standard Specifications :

300-2.1 UNCLASSIFIED EXCAVATION Unclassified excavation shall conform to the provisions of Section 300-2,10 "Unclassified Excavation" of the Standard Specifications and these Special Provisions.

The Contractor's attention is directed to Section 7-8, "Project Site Maintenance" of the Standard Specifications and these Special Provisions.

Excavation shall be done to the lines and grades shown on the plans or marked in the field and shall include excavation under PCC improvements for placement of base materials.

Excavation equipment shall be approved by the engineer prior to its use. Preferred method of roadway excavation for street rehabilitation shall conform to Sections 302-1 "Cold Milling Existing Pavement" of the Standard Specifications and these Special Provisions.

All streets shall be cleaned of all excavated material grinding residue immediately following the grinding machine and before opening the street to traffic.

The Contractor shall remove all weeds between the gutter lip and the existing street pavement after grinding operation is complete. All AC, concrete, slurry seal, etc. shall be removed from the gutters and driveways in accordance with Section 300-1.3.1 of these Special Provisions.

300-2.2 UNSUITABLE MATERIAL. The following is added to Section 300-2.2 "Unsuitable Material" of the Standard Specifications:

After scarification and cultivation is completed in accordance with Section 301-1 and when the subgrade material cannot be compacted to a firm, hard, unyielding condition under heavy construction equipment by the methods specified in Section 301-1, "Subgrade Preparation" through no fault of the Contractor, the material shall be considered as Unsuitable Subgrade Material. Scarification and cultivation of the top six (6) inches of subgrade shall be required prior to determination of Unsuitable Subgrade Material.

Unsuitable Subgrade Material shall be removed and disposed of, and suitable material shall be placed and compacted to the planned subgrade as directed by the Engineer and shall be paid for in accordance with Section 3-2.4 "Agreed Prices" of the Standard Specifications.

300-2.6 SURPLUS MATERIALS. The following is added to Section 300-2.6, "Surplus Materials", of the Standard Specifications.

Excess material shall become the property of the contractor and shall be removed and legally disposed of by the Contractor. This material may be a mixture of AC and/or AB materials mixed with routine soil materials. There is no guarantee implied as to the recyclability and/or resale value of grading residue/excavated materials. Adequate tests shall be performed at the Contractor's expense to determine the profile of waste materials to determine appropriate disposal locations. Class 3 disposal sites shall be considered in the bid item price. Class 1 or 2 materials shall be paid for in accordance with Section 3-2.4 "Agreed Prices" of the Standard Specifications. The Contractor shall be responsible for any storage or stockpiling of materials as necessary for the profile testing.

300-2.9 PAYMENT. The following is added to section 300-2.9 "Payment" of the standard specifications: Payment for all work described in section 300-2 "Unclassified Excavation" is included in the contract price paid for the bid item for which the unclassified excavation is performed and no separate payment will be made therefore.

300-2.10 SHEETING, SHORING AND BRACING. The following Section is added to the Standard Specifications.

Prior to any excavation five (5) feet or more in depth, the Contractor shall submit for the acceptance of the Engineer:

1. A detailed plan showing the design of shoring, bracing, sloping, or other provisions to be made for worker protection from the hazard of caving ground during excavation of any trench or trenches five (5) feet or more in depth. If the plan varies from the shoring system standards established by the construction safety order, the plan shall be prepared by a registered Civil or Structural Engineer.

2. The permit required by Labor Code Section 6700-6708 from the Division of Industrial Safety.

Shoring or other provisions to support said excavations will not be inspected by the City. Contractor shall obtain the permit required by Labor Code Section 6464 from the Division of Industrial Safety and submit copies to the Engineer prior to any excavation operations.

All trenches shall be warranted through a one-year maintenance/warranty period against settling. Contractor is responsible to come back and repair at his expense.

SECTION 301 – TREATED SOIL, SUBGRADE PREPARATION, AND PLACEMENT OF BASE MATERIALS

301-1 SUBGRADE PREPARATION. Subgrade preparation shall conform to the provisions of Section 301-1, "Subgrade Preparation" of the Standard Specifications and these Special Provisions.

301-1.2 Preparation Of Subgrade. The following is added to Section 301-1.2 "Preparation of Subgrade" of the Standard Specifications:

301-1.3 Relative Compaction. The following is added to Section 301-1. "Relative Compaction" of the Standard Specifications: After compaction and trimming, the subgrade shall be firm, hard and unyielding under the load of heavy construction equipment.

The subgrade relative compaction shall not be less than 95 percent in all areas **EXCEPT** where curb, gutter, driveway, curb ramp or sidewalk is to be placed.

The subgrade relative compaction shall not be less than 90 percent in all areas where curb, gutter, driveway, curb ramp or sidewalk is to be placed.

Relative compaction tests of the subgrade may be made by the City. Contractor shall make the work available for such testing. Relative compaction tests will be performed in accordance with California Test Method No.'s 216 and 231.

301-1.6 ADJUSTMENT OF MANHOLE FRAME AND COVER SETS TO GRADE. Adjustment of Manhole Frame and Cover Sets shall conform to the provisions of Section 301-1.6, "Adjustment of Manhole Frame and Cover Sets to Grade" of the Standard Specifications and these Special Provisions.

All utility frames and covers shall be adjusted to grade in conformance with the details shown on City Standard Plan "Utility Frame and Cover Adjustment" (Dwg. 222, Case 3101).

Contractor is responsible for referencing out all manholes, valves, monuments, etc. and for locating them after the paving work. The locations of manholes, valves, monuments, etc., shown on the plans are general locations intended to assist contractor with the bid. The City does not expressly or by implication agree that the actual locations shall be as shown on the plans, or that all manholes, valve or monuments that are on the streets are shown on the plans. Contractor is responsible for locating and adjusting all manholes, valves, monuments, etc., and shall notify the City of any discrepancies found in the field. If existing manholes, etc. are not properly referenced, the City will deduct the cost of researching and locating manholes, etc. from monies due the Contractor.

The Contractor shall lower all frames and covers for manholes, monuments, clean-outs, splice boxes, etc and Utility Company manholes and valves below the lowest grading plane in all streets prior to beginning of any grinding/excavation operations. This work is not limited to removal of riser rings and shall include cutting, chipping, or sawing of collars, cones, barrels, bricks, metallic valve pot/riser sections, etc. to provide on unobstructed grading plane. Facilities below shall be protected from damage and debris from entering. False bottoms shall be installed in all manholes and storm water inlets to prevent debris from entering. Such false bottoms shall be immediately removed upon completion of adjustment to grade operations. The Contractor may arrange with the appropriate Utility Company to perform this work on their facilities or use his own forces. The Contractor shall keep affected utilities notified daily of the progress of work.

Unless shown otherwise on the plans, Utility Company manholes, valve covers and risers etc., shall be adjusted by the utility company after the paving work is completed unless the utility company provides

the necessary labor, materials, tools, equipment, and incidentals to make the adjustments during the paving operation. Utility Company manholes, valve covers, etc., that are not adjusted during the paving operation shall have a rake hole left over the casting exposing the entire cover to provide emergency access.

Utility Company valve covers shall be masked or otherwise protected from tack coat. All covers shall be cleaned and restored to their original condition, including repainting if necessary, regardless of the condition of the manhole covers prior to construction.

Two inch (2") rake hole shall be provided on all other manholes, monuments, cleanouts, etc., to be adjusted after paving.

Manhole frames and covers etc. shall be adjusted to grade to conform within 1/8 inch of the adjusted pavement elevation within three (3) days after paving operation is completed on each street. All City owned manhole frames and covers that do not match Standard Plan 220, Case 1301shall be replaced with new fames and covers. Where existing manhole castings are to be raised to new street elevation, the Contractor shall remove all new and old asphalt concrete from the cover and rim. The Contractor shall also mark or index each cover to its respective frame ("matched pairs") prior to beginning work. Contractor shall notify the City of any frames and covers which are found to rock or are noisy prior to lowering of iron. Otherwise, the Contractor is responsible for the replacement of any rocking or noisy frames and covers. Any valve boxes, splice boxes, etc. that are damaged shall be replaced at the Contractor's expense.

The Contractor shall complete the adjustment to final grade of all manholes, etc., in accordance with the following requirements:

1. Coordinate work among subcontractors to avoid cutting through new traffic stripes and vehicle detector loops. Contractor shall be responsible for the reinstallation of all damaged detector loops and traffic stripes caused by poor coordination work.
2. All traffic lanes to be opened by 4:30 p.m. or as otherwise noted on Lane Closure Charts.
3. No depressions after traffic lanes are open. Protect newly poured collars subject to vehicular traffic with trench plates until concrete has sufficiently set to withstand damage.
4. No more than five (5) manholes may be opened at any one time on any one street.
5. All work must be confined to one traffic lane at a time in each direction. Traffic is not to weave to avoid adjustments.

301-1.6.1 ADJUST SURVEY MONUMENT FRAME AND COVER TO GRADE. The following section is added to the Standard Specifications.

Survey monument frames and covers shall be lowered prior to roadway excavation/milling and adjusted to final grade after paving work is completed, to conform within 1/8 inch of the adjusted pavement elevation in accordance with Section 301-1.6 .

301-1.6.2 ADJUST EBMUD WATER VALVE POT TO GRADE. Water valve pot frames and covers shall be lowered prior to roadway excavation/milling and adjusted to final grade after paving work is completed, to conform within 1/8 inch of the adjusted pavement elevation in accordance with Section 301-1.6.

EBMUD shall be contacted immediately if any EBMUD facilities are damaged or disturbed during construction.

301-1.6.3 ADJUST GAS VALVE FRAME AND COVER TO GRADE. The following section is added to the Standard Specifications.

Gas valve frames and covers shall be lowered prior to roadway excavation/milling and adjusted to final grade, after paving work is completed, to conform within 1/8 inch of the adjusted pavement elevation in accordance with Section 301-1.6.

301-2 UNTREATED BASE Untreated Base shall conform to the provisions of Section 301-2, "Untreated Base" of the Standard Specifications and these Special Provisions.

301-2.1 GENERAL Work shall be done per the Standard Specifications.

301-2.2 SPREADING Work shall be done per the Standard Specifications.

301-2.3 COMPACTING The following is added to Section 301-2.3 of the Standard Specifications:

The relative compaction of each layer of a compacted aggregate base shall be not less than 95 percent in all areas EXCEPT areas where curb, gutter, driveway, curb ramp or sidewalk is to be places.

The relative compaction of each layer of compacted aggregate base shall be not less than 90 percent in all areas where curb, gutter, driveway, curb ramp or sidewalk is to be placed.

Relative compaction tests of each layer of the aggregate base will be made by the City when requested in writing by the Contractor. Relative compaction tests will be performed in accordance with California Test Method No's 216 and 231.

301-2.4 Measurement and Payment. Section 301-2.4 is replaced with the following:
Payment for all work described in section 301-2 is included in the contract price paid for the bid item for which the base is placed

SECTION 302 ROADWAY SURFACING

302-1 COLD MILLING OF EXISTING PAVEMENT. Pavement grinding shall conform to the provisions of Section 302-1, "Cold Milling Asphalt Concrete Pavement" of the Standard Specifications and these Special Provisions and City Standard Plans 126 and 128.

Existing asphalt concrete pavement shall be removed by milling or grinding to the lines and grades shown on the plans and as directed by the Engineer. The contractor shall immediately notify the Engineer if the existing subgrade grading planes and/or the pavement surface plane (existing or cold milled) will affect the Contractor from meeting the specified tolerance. Failure to notify prior to completion of grinding operations and/or commencement for paving operation shall be considered as Contractor's concurrence that existing surface is suitable for compliance to tolerances stated.

All asphalt concrete, concrete, slurry seal emulsion, etc., up to 75 mm (3") wide shall be removed from the concrete gutter after grinding operation is complete and shall be considered included work required by Section 300-1 and/or Section 302-1. Asphalt concrete, slurry seal emulsion and other residue on concrete gutters to be removed, may be intermittent throughout the project: Some concrete gutters when exposed after such milling work may require the use of new asphalt concrete to provide smooth flow line to adjacent concrete gutter surfaces.

Contractor shall off-haul and recycle millings in accordance with Section 7-8.1.1 of the General Provisions.

302-1.2 MILLING MACHINE. Pavement grinding equipment shall conform to the provisions of Section 302-1.2 "Milling Machine" of the Standard Specifications and these Special Provisions shall be approved by the Engineer prior to use.

A diamond blade pavement grinder (Caltrans designation PGD1A shall be used to grind to specified tolerance any high areas of pavement. Contractors attention is directed to Section 302-5.6.2 "Density and Smoothness" of these Special Provisions.

302-1.7 WORK SITE MAINTENANCE. The Contractor shall clean the street of all grinding residue as provided for in Section 302-1.7 "Work Site Maintenance", of the Standard Specification immediately following the grinding machine and prior to opening the street to traffic. Grinding residue shall be disposed of as provided for in Section 300-2.6 "Surplus Materials" of these Special Provisions.

302-1.10 PAVEMENT TRANSITIONS. The following is added to Section 302-1.10 "Pavement Transitions" of the Standard Specifications.

The Contractor shall immediately construct Pavement Transition in accordance with Section 203-6.1 "Pavement Transition" of these Special Provisions conforms at private property to provide continual access.

Areas which have been cold milled or excavated that are subject to pedestrian traffic, including but not limited to marked and un-marked crosswalks, and at all driveways, where the offset equals or exceeds 3/8 inch shall be immediately overlaid with Pavement Transition two (2) feet in width and the length of crosswalk or driveway prior to opening the area to pedestrian or vehicle traffic.

At pavement conforms or excavations where the offset equals or exceeds 3/8 inch shall be immediately overlaid with Pavement Transition six (6') feet minimum in width or a slope of 1:8 maximum prior to opening the street to traffic.

Longitudinal cold mill or excavated joints where the offset equals or exceeds 3/8 inch shall be overlaid with Pavement Transition two (2) feet in width prior to opening the street to traffic.

302-3 AC Dig Outs. The following sections are added to the Standard Specifications:

302-3.1 General
The Engineer will mark existing pavement for dig out after it has been cold milled. Contractor shall remove and replace the road material within the marked areas to a depth of 6" below the milled surface. Removal shall be done in accordance with section 302-1, removal includes off hauling per section 7-8.1. Installation of new material shall be done in accordance with section 302-5. Dig out depths may be modified in the field at the direction of the Engineer.

302-5 ASPHALT CONCRETE PAVEMENT. Asphalt concrete pavement shall conform to the provisions of Section 302-5, "Asphalt Concrete Pavement", of the Standard Specifications and these Special Provisions.

302-5.1 GENERAL. The following is added to Section 302-5.1, "General", of the Standard Specifications:

The Contractor shall use Reclaimed Asphalt pavement (RAP) conforming to Section 203-6 of these Special Provisions for base courses (lower lifts).

The final lift, surface or riding course, shall be Asphalt Concrete conforming to Section 203-6 of these Special Provisions.

302-5.3 PRIME COAT. The following is added to Section 302-5.3, "Prime Coat", of the Standard Specifications: Unless otherwise noted on the plans, prime coat shall not be required.

302-5.4 TACK COAT. The following is added to Section 302-5.4, "Tack Coat", of the Standard Specifications :

Prior to the application or tack coat on existing pavement, the pavement shall be power broomed to remove all dirt, rocks, leaves water or other foreign material and shall be done to the satisfaction of the Engineer.

Tack coat shall be applied where AC is to be installed directly on any existing hard surfaced pavement or improvement or to the surface of any course over 12 hours old or when the Engineer determines that the surface condition of the course will prevent a satisfactory bond between it and the succeeding course.

302-5.5 DISTRIBUTION AND SPREADING. The following is added to Section 302-5.5, "Distribution and Spreading", of the Standard Specifications:

Asphalt concrete shall be placed only upon the specific approval of the Engineer. The Engineer's decision regarding satisfactory paving conditions shall be final. Open graded asphalt concrete shall not be placed when atmospheric temperature is less than 70 degrees Fahrenheit.

Asphalt concrete shall be spread and compacted in the number of layers of the thicknesses indicated in the following table:

Total Thickness	No. of	Top Layer	Next Lower Layer	All Other Lower

Shown on Plans	Layers	Thickness (ft)		Thickness (ft)		Layer Thickness (ft)	
		Min.	Max.	Min.	Max.	Min.	Max.
0.20' or less	1	-	-	-	-	-	-
0.21' – 0.29'	2*	0.12	0.15	0.12	0.15	-	-
0.30' – 0.40'	2	0.15	0.20	0.15	0.25	-	-
0.41 – 0.45'	2 (min)	0.15	0.20	0.15	0.25	0.15	0.33
0.46' – 0.78'	3 (min)	0.15	0.20	0.15	0.25	0.15	0.33
0.79' or more	4 (min)	0.15	0.20	0.15	0.25	0.15	0.33

*At the option of the Contractor, one layer 0.25-foot thick may be placed.

Asphalt concrete shall only be placed by the methods described in this section. Blade lay by a motor grader is not permitted.

Asphalt concrete may be deposited by transfer trucks in a windrow on the roadway in advance of the paving operation for pick-up and depositing into the self-propelled paving machine subject to the following conditions:

1. Transfer trucks must be capable of backing up.
2. Double bottom dump trucks are prohibited.
3. The pick-up machine shall not transmit loads to the paving machine that adversely affect the finished surface.
4. The windrow shall not be placed at intersections or block side streets
5. The maximum windrow length in front of the paving machine shall be 200 feet.
6. The Contractor shall furnish a "Dump Man" whose sole responsibility shall be for the control of windrow distribution.

Asphalt concrete distribution shall commence at the roadway gutter lip or the low edge of the roadway. Unless operations have been suspended for the day, subsequent asphalt concrete distribution passes shall be placed adjacent to the previous pass while the previous asphalt concrete distribution pass is still hot. The maximum distribution pass shall be 1,000 feet.

The tracks or wheels of spreading equipment shall not be operated on the new asphalt concrete pavement until final compaction has been completed. Trucks, loaded or empty, shall not be allowed on the new roadway surface until the asphalt concrete reaches ambient temperature.

The Contractor shall have the option of providing the extra manpower and equipment necessary to work under low over hanging branches or to hire a licensed arborist to trim trees for adequate clearance. A list of proposed trees to be trimmed shall be submitted for Engineer approval prior to proceeding. Written permission shall be obtained from the property owner for any trees on private property prior to proceeding.

In areas inaccessible to the paving equipment spreading and compacting of asphalt shall be performed by any method which will produce an asphalt concrete pavement of uniform smoothness, texture and density. Said area shall not exceed 20 square feet each without approval of the Engineer.

<u>Failed Existing AC Pavement Repairs (Dig Outs),</u>
The Engineer will mark the dig out areas on San Leandro Blvd following AC milling operations. Contractor shall remove the road material 6" beneath the bottom of the 4" AC mill & replace section and install asphalt concrete pavement per Section 302-5 of these Special Provisions and the Standard Specifications. Dig out depths may be modified in the field at the direction of the Engineer.

302-5.6 ROLLING. Rolling shall conform to the provisions of Section 302-5.6, "Rolling", of the Standard Specifications and these Special Provisions.

302-5.6.1 GENERAL. The following is modifications are made to Section 302-5.6.1, "General" of the Standard Specifications:

Base courses at all conforms, and any areas deemed inaccessible to rollers by the Engineer such as around manholes, water valves, etc. shall be mechanically compacted with a rammer or tamper with particular attention to the edges and corners of the excavations.

The first coverage of initial or breakdown compaction shall be performed when the temperature is not less than 250 degrees Fahrenheit and all breakdown compaction shall be completed before the temperature of the machine drops below 200 degrees Fahrenheit.

Open graded asphalt concrete shall be placed at temperatures between 200 degrees and 250 degrees Fahrenheit and shall be compacted as soon as possible after placement.

Use of a pneumatic-tired roller shall not be required.

302-5.6.2 DENSITY AND SMOOTHNESS. The following is added to Section 302-5.6.2, "Density and Smoothness" of the Standard Specifications:

The Contractor shall immediately notify the Engineer in writing if the existing subgrade grading plane and/or the pavement surface plane (existing or cold milled) will affect the contractor from meeting the specified grade tolerance. Failure to notify prior to completion of grinding operations and/or commencement for paving operation shall be considered as Contractor's concurrence that existing surface is suitable for compliance to tolerance stated.

Low areas for pavement not meeting smoothness tolerances shall be ground to 37.5 mm (1 1/2") or 2 times the maximum size of the aggregate minimum depth and repaved. High areas shall be ground to tolerance with diamond blade pavement grinder. (Caltrans designations PGD1A) and fog sealed in accordance with Section 302-12 of these Special Provisions. All corrective work shall be at Contractor's sole expense.

All new asphalt concrete pavement to be subsequently resurfaced and/or Chip or Slurry Sealed and parking lots shall be fog sealed in accordance with Section 302-12 of these Special Provisions.

302-5.7 Joints. Work shall be done per the Standard Specifications.

302-5.8 Manholes (and other structures). The following is added to Section 302-5.8 "Manholes (and other structures)" of the Standard Specifications:

All City owned manhole frames and covers within limit of work that do not match Drawing 220, Case 3101 shall be replaced with new frames and covers; All other frames and covers shall be either punched or marked "Matched Pairs" prior to removal, cleaning and reuse. Contractor shall install false bottom on all manholes prior to roadway excavation to prevent debris from entering.

Structures shall be reset in accordance with section 301-1.6.

The Contractor's attention is directed to Section 301-1.6 "Adjustment of Manhole Frame and Cover Sets to Grade and Section 302-5.8 "Manholes (and Other structures)" of these Special Provisions.

Manholes, monuments, water valves, clean-outs, etc. within keycut and repair/rehab areas shall be lowered below the grinding plane prior to grinding. Grinding shall be done to the grinding plane required, chipping and/or jack hammering is strictly prohibited. All utility frame and covers shall be adjusted to grade in conformance with the details shown of City Standard Plan 222 "Utility Frame and Cover Adjustment".

302-5.10 COMPENSATION ADJUSTMENT FOR ASPHALT CONCRETE. Section 302-5.10 "Compensation Adjustment for Asphalt Concrete" is added to these Special Provisions:
The provisions of this Section shall apply only to all bid Asphalt Concrete:

The compensation payable for asphalt concrete bid items will be increased or decreased in conformance with the provisions of this Section for price fluctuations exceeding 10 percent (Iu/Ib is greater than 1.10 or less than 0.90) in the California Statewide Crude Oil Price Index which occur during performance of the work.

The adjustment in compensation will be determined in conformance with the following formula when the item of asphalt concrete bid items is included in a monthly estimate:

A. Total monthly adjustment – AQ
B. For an increase in crude oil price index exceeding 10 percent:

A = 0.90 (Iu/Ib – 1.10) Ib.

C. For a decrease in crude oil price index exceeding 10 percent:

A = 0.90 (Iu/Ib – 0.90) Ib.

D. Where:

A = Adjustment in dollars per ton of paving asphalt used to produce asphalt concrete and/or asphalt concrete base rounded to the nearest $0.01.

Iu = The California Statewide Crude Oil Price Index for the month in which the quantity of asphalt subject to adjustment was placed in the work

Ib = The California Statewide Crude Oil Price Index for the month in which the bid opening for opening for the project occurred.

Q = Quantity in ton of paving asphalt that was used in producing the quantity of asphalt concrete bid items included on the monthly estimate using the submitted weighmaster's certificate

Q = (Tons of AC placed during subject month) x [Xa / (100 + Xa)]

Xa is the theoretical asphalt content from the job mix formula expressed as percentage of the weight of the dry aggregate.

The adjustment in compensation will also be subject to the following:

A. The compensation adjustments provided herein will be shown separately on payment estimates.

B. Compensation adjustments made under this Section will be taken into account in making adjustments in conformance with the provisions in the contract for increased or decreased quantities.

C. In the event of an overrun of contract time, adjustment in compensation for paving asphalt included in estimates during the overrun period will be determined using the California Statewide Crude Oil Price Index in effect on the first business day of the month within the pay period in which the overrun began.

The California Statewide Crude Oil Price Index is determined each month on or about the first business day of the month by Caltrans using the average of the posted crude oil prices in effect for the previous month as posted by Chevron, Exxon Mobil and ConocoPhillips for the Buena Vista, Huntington Beach, and Midway Sunset fields. This information can be found online at:

http://www.dot.ca.gov/hq/construc/crudeoilindex/

302-11 Not used

302-12 Not used

302-13 DURATHERM SURFACE IMPRINTING

COORDINATION: Contractor to be responsible for the coordination of all subcontractors and the work.

The Contractor shall follow the latest DuraTherm Application Procedures as issued by Flint Trading Company. The pattern shall be created in accordance with the design as agreed by the Owner or Owner's representative. Patterning shall begin once the asphalt has reached its final density and while there is still sufficient heat in the asphalt to permit imprinting. Patterning shall be of consistent depth.

Layout and imprint the pattern into the surface of the HMA shall be as per the drawings. Imprinting can proceed immediately after the hot asphalt has been placed and compacted, while the asphalt is still in a warm to hot pliable state. Alternatively, imprinting can be carried out at a later stage, on existing asphalt, by applying heat to the asphalt surface to make the upper portion of the asphalt surface pliable enough to accept the imprint of the template. The application of heat to existing asphalt surface shall be done using re-heating equipment, such as infrared heaters or hot air heaters. Overheating of the asphalt shall not be permitted. Direct flame heaters shall not be allowed to be used for the purpose of heating the asphalt. For proper imprinting success, the asphalt pavement must be adequately heat soaked (softened) to a depth of at least ½ inch (12.5mm), without burning the asphalt. The asphalt surface temperature shall not exceed 300° F (150°C). If smoke is visible, that is an indication that the asphalt is burning and the pavement may spall or crumble at a later date. It is recommended that the temperature of the asphalt surface be regularly monitored during the reheating process, to avoid overheating and degradation of the asphalt cement.

302-13.1 DURATHERM SURFACE IMPRINTING SURFACING SYSTEM

The Contractor shall apply the StreetBond Surfacing System only when the air temperature is at least 50°F (10°C) and rising, and will not drop below 50°F (10°C) within 8 hours of application of the coating. There should be no precipitation expected within 2 hours after applying StreetBond SP150 topcoat.

Installation shall be in accordance with the latest DuraTherm Surfacing System Installation Instructions as issued by Flint Trading Company.

Prior to application of coatings, the asphalt surface shall be free of all dirt, mud, oil, or anything that will affect coating bond. If dirt has to be removed, the asphalt surface shall be power washed and allowed to dry completely before coating is applied.

302-13.2 QUALITY ASSURANCE

DURATHHERM - All DuraTherm projects shall have on site a foreman, supervisor or lead hand that is registered with Flint Trading Company, as a Level 1 Accredited DuraTherm Installer.
Accredited DuraTherm Installers:

Accredited Installers: EARTHWORKS Paving Contractors, Inc. (831) 475-1223,
Contact Rick at Top Grade Construction (925) 449-5764. Or approved equal.

SECTION 303 CONCRETE AND MASONARY CONSTRUCTION

303-1 CONCRETE STRUCTURES Concrete structures shall conform to the provisions of Section 303-1 "Concrete Structures" of the Standard Specifications and these Special Provisions.

303-1.2 Subgrade for Concrete Structures The following is added to section 303-1.2 of the Standard Specifications:

Subgrade shall be firm, leveled and free from standing ground water. Subgrade shall be compacted to 95% relative compaction.

303-1.3 Forms The following is added to section 303-1.3 of the Standard Specifications:

Forms shall conform to the provisions of Section 303-1.3, "Forms," of the Standard Specifications, these Special Provisions, ACI 301 Chapter 4, and ACI 347.

Vertical and horizontal tolerances for installed forms shall be within ¼ inch.

303-1.4 Removal of Forms The following is added to section 303-1.4 of the Standard Specifications:

Forms for special manholes shall remain in place for a minimum of 7 days after pouring concrete.

303-1.7 Placing Reinforcement The following is added to section 303-1.7 of the Standard Specifications:

Reinforcing steel shall be placed center to center as shown on the Plans. Placement tolerances shall comply with ACI 301 Chapter 5, ACI 318 Chapter 7 and CRSI Manual of Standard Practice Chapter 8.

Reinforcing steel shall be installed in place, spaced, and rigidly and securely tied with wire at all splices, at crossing points, and intersections in the position indicated. Rebending of reinforcing steel on the job site to fit site conditions will not be allowed without approval from the Engineer. Point end of wire ties away from forms.

303-1.7.2 SPLICING The following is added to Section 303-1.7.2 of the Standard Specifications.

Splice length not shown on the Plans shall be 1.2 times longer than standard splice length.

303-5 CONCRETE CURBS, WALKS, GUTTERS, CROSS GUTTERS, ALLEY INTERSECTIONS, ACCESS RAMPS, AND DRIVEWAYS Concrete curbs, walks, gutters, cross gutters, alley intersections, access ramps, and driveways shall conform to the provisions of Section 303-1 "Concrete curbs, walks, gutters, cross gutters, alley intersections, access ramps, and driveways" of the Standard Specifications and these Special Provisions.

303-5.1.1 General The following is added to section 303-5.1.1 of the Standard Specifications:

303-5.1 PLACING CONCRETE The following is added to Section 303-5.1 of the Standard Specifications:

Existing utility boxes and lids shall be protected during construction and reset to be flush with the finished sidewalk grades within 1/8 inch tolerance on all edges.

All PCC improvements shall be doweled to adjacent PCC improvements using 12" long #3 or #4 reinforcing steel dowels at 3' spacing. Drill for drive tight fit or epoxy in place.

303-5.1.3 Concrete Driveway The following is added to section 303-5.1.3 of the Standard Specifications:

Concrete driveway shall be constructed according to the details shown on the City of San Leandro Standard Plan for "Concrete Driveway", (Dwg. 102, Case 3101) or Rolled Curb Modified Driveway, (Dwg. 110 Case 3101) if rolled curb exists, and the specifications shown on the City of San Leandro Standard Plan for "General Concrete Notes", (Dwg. 104, Case 3101).

Commercial and/or Industrial Driveways shall be eight (8) inches thick.

303-5.4.2 Expansion Joints The following is added to Section 303-5.4.2 of the Standard Specifications:

Expansion joints in longitudinal sections of curb, gutter and sidewalk shall be at intervals of 16 to 20 feet, where directed by the Engineer, or where designated on the plans.

303-5.4.3 WEAKENED PLANE JOINTS The following is added to Section 303-5.4.3 of the Standard Specifications:

Weakened plane joints shall be constructed according to the details shown on the City of San Leandro Standard Plan for "General Concrete Notes," (Dwg. 104, Case 3101).

303-5.5.2 Concrete Curb and Gutter The following is added to Section 303-5.5.2 of the Standard Specifications:

Concrete curb and gutter shall be constructed according to the details shown on the City of San Leandro Standard Plans "Concrete Curb, Gutter and Sidewalk", (Dwg. 100, Case 3101) and "General Concrete Notes" (Dwg. 104, Case 3101).

Mortar shall not be applied to any part of the curb.

303-5.5.3 Sidewalk The following is added to Section 303-5.5.3 of the Standard Specifications:

Concrete sidewalk shall be constructed according to the details shown on the City of San Leandro Standard Plans "Concrete, Curb, Gutter, Sidewalk", (Dwg. 100, Case 3101) and "General Concrete Notes", (Dwg. 104, Case 3101).

303-5.5.4 Concrete Valley Gutter The following is added to Section 303-5.5.4 of the Standard Specifications:

Concrete Valley Gutter shall be constructed according to the details shown on the City of San Leandro Standard Plans "Valley Gutter", (Dwg. 114, Case 3101) and "General Concrete Notes", (Dwg. 104, Case 3101).

303-5.5.5 Concrete Curb Ramps The following is added to Section 303-5.5.5 of the Standard Specifications:

Concrete Curb Ramps of the type shown on the plans shall be constructed according to the details shown on the City of San Leandro Plans "Standard Curb Ramps", (Dwg. 106, Case 3101) and "General Concrete Notes" (Dwg. 104, Case 3101).

Concrete curb ramps shall be of the types shown on the plans.

Add the following section:

303.9 UNIT PAVERS

303.9.1 Unit Paver Base Preparation

- Compact subgrade to the density and elevations to conform to the specifications and drawings.
- Install aggregate base materials to the thickness, compaction, surface tolerances, and elevations
- to conform to the specifications.

- Install concrete base per the drawings.
- Install mortar and grout according to specifications, drawings and manufactures recommendation.
- Ensure that base is dry, uniform, even, and ready to support sand, pavers, and imposed loads.

303.9.2 Concrete and Paver Installation

A. Prepare subgrade.
B. Place concrete base.
C. Ensure that pavers are free of foreign material before installation.
C. Lay the pavers in the pattern(s) as shown on the drawings. Maintain straight pattern lines and average joint shall be 1/2 in. wide.
D. Install Grout Joints between the pavers. Fill gaps at the edges of the paved area with cut pavers or edge units.
F. Cut pavers to be placed along the edge with a [double blade paver splitter or] masonry saw.
G. The final surface elevations shall not deviate more than 3/8 in. (10 mm) under a 10 ft. (3 m) long straightedge.
H. The surface elevation of pavers shall be 1/8 to 1/4 in. (3 to 6 mm) above adjacent drainage inlets, concrete collars or channels.

303-9.2 FIELD QUALITY CONTROL

A. After removal of excess sand, check final elevations for conformance to the drawings. Remove protective coating as recommended by protective coating manufacturer. Trap and remove coating to prevent it from clogging drains.

303-9.3 QUALITY ASSURANCE

Installation shall be by a contractor and crew with at least one year of experience in placing concrete pavers and interlocking concrete pavers on projects of similar nature or dollar cost.

Contractor shall conform to all local, state licensing and bonding requirements.

303-9.4 MOCK-UPS/SUBMITTALS

Install a 12-SF paving area of each type of installation pattern for approval by Engineer. This area will be used to determine joint sizes, lines, laying pattern(s), color(s), and texture of the job. This area shall be the standard from, which the work will be judged and shall be incorporated into the work. Mock-ups shall be secured throughout construction for reference.

303-9.5 DELIVERY, STORAGE, AND HANDLING

Deliver concrete pavers to the site in steel banded, plastic banded, or plastic wrapped cubes capable of transfer by forklift or clamp lift. Cover sand with waterproof covering to prevent exposure to rainfall or removal by wind. Secure the covering in place. Unload pavers at job site in such a manner that no damage occurs to the product. Coordinate delivery and paving schedule to minimize interference with normal use of buildings adjacent to paving.

303-9.6 ENVIRONMENTAL CONDITIONS

Install under favorable conditions only.

303-10 PORTLAND CEMENT PLASTER (STUCCO FINISH)

Section includes: installation of Stucco finish as specified on the plans. No Substitutions will be allowed. Contractor to insure work meets the following standards:

1. C143: "Test Method for Slump of Portland Cement Concrete."
2. C144: "Specification for Aggregate for Masonry Mortar."
3. C897: "Specifications for Aggregate for Job-Mixed Portland Cement Plasters."
4. Western Lath/Plaster/drywall Industries Association (WLPDIA): "Plaster and Drywall Systems Manual."

303-10.1 SUBMITTALS:

Contractor to provide one 12" x 12" inch sample panel showing the stucco finish coat texture and color and one (1) photocopy of manufacturer's descriptive literature for Stucco.

303-10.2 QUALITY ASSURANCE:

Codes and standards: Perform and provide the work in compliance with all applicable local, state and federal codes, laws and regulations.

All work to be performed by a person who is thoroughly familiar with the materials being installed and the methods for their installation will be present at the job site at all times during the execution of the work defined by this section.

Substitution of materials: Substitution of materials will not be permitted unless authorized in writing by the Landscape Architect. Suggested substitutions must be shown to be equal to the specified material. A written proposal will be considered for the use of the suggested material, which includes a corresponding adjustment in contract price. The proposal will be submitted to the Landscape Architect 10 workdays after Notice to Proceed.

303-10.3 MATERIALS:

A. Portland Cement: ASTM C150, Type 11.
B. Sand: ASTM C144.

303-10.4 DELIVERY AND STORAGE:

Keep cement dry, stored off the ground, under cover and away from damp surfaces. Remove wet and deteriorated materials from project site. Protect metallic materials and accessories from dampness or wetting.

303-10.5 PROJECT CONDITIONS:

Cold-Weather Requirements: Do not apply cement plaster, unless minimum ambient temperature of 50 degrees F. has been and continues to be maintained for a minimum of 48 hours prior to application and until plaster is cured.

Hot-Weather Requirements: Protect cement plaster from uneven and excessive evaporation during hot, dry weather.

303-10.6 EXAMINATION

Verify that surfaces to be plastered are free of dust, loose particles, oil, and other foreign matter, which would affect the bond of plaster coast.

Examine substrate prior to installation of lath and cement plaster to ensure that the substrate is acceptable. All surfaces to be true to line, level and plumb, without requiring additional thickness of plaster. Do not proceed with cement plaster until the substrate is acceptable.

Apply protective coverings to prevent application or spilling of plaster on surfaces not intended to receive plaster.

303-10.7 APPLICATION OF CEMENT COATS

GENERAL:

Apply adhesive bonding to help stucco adhere to concrete surface.

303-10.7 SKIM COAT OVER CONCRETE SURFACE

Do not apply finish coat until base coats have been allowed to dry for a minimum of 24 hours or skim coat until concrete walls have been allowed to dry for a minimum of 72 hours. Prior to application, surface irregularities in base coat, such as trowel marks, board lines, and reinforcing mesh laps shall be corrected. Apply in accordance with manufacturer's instructions.

Maintain a wet edge at all times to obtain a uniform appearance. All applicators shall use the same tools, equipment and techniques to achieve uniformity. Finish coat shall be applied and textured continually over a wall surface. Work to corners or joints, and do not allow the material to set up within a distinct wall area. Sufficient staging and workmen must be employed to accomplish a uniform appearance. Textures and colors of finish shall be as selected by Architect and shall match approved control samples.

303-10.8 SEALANT

Install graffiti concrete sealer and graffiti coating coating per section 310-6 of these special provisions.

SECTION 304 – METAL FABRICATION

304-1 STRUCTURAL STEEL

304-1.1 GENERAL All steel fabrication, finishing and erection shall conform to Section 304-1, "Structural Steel" of the Standard Specifications and "Specifications for the Design, Fabrication and Erection of Structural Steel for buildings" of the American Institute for Steel Construction (AISC) and per the plans, details and specifications located on the Structural Plans.

304-5 TREE GRATES INSTALLATION

Tree Grate frames shall be laid out and installed per plans and details.

Tree Grates to be installed after the installation and approval of all street trees. Contractor shall be responsible to install all tree grates flush with adjacent new or existing pavement and secured in place. All rough edges shall be smooth and any damage during delivery or installation shall be retouched with paint or replaced in full, at the discretion of the Engineer. All trees grates shall be secured with anti-theft locking mechanisms to prevent unauthorized removal.

304-6 STEEL FENCE INSTALLATION

Steel Fence and concrete footings shall be laid out and installed per plans and details.

CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, VERIFY DIMENSIONS, AND OBTAIN OTHER INFORMATION AS MAY BE NECESSARY FOR A COMPLETE INSTALLATION. NOTIFY THE ENGINEER OF UNSATISFACTORY CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

304-6.1 INSTALLATION

Contractor shall be responsible to install all steel fence plumb and true adjacent to new or existing pavement and secured in place. All rough edges shall be smooth and any damage during delivery or installation shall be retouched with paint or replaced in full, at the discretion of the Engineer. Finish work shall be firm, well anchored, in true alignment, properly squared, with smooth clean uniform appearance, without holes, cracks, discoloration, distortion, stains, or marks. Provide all miscellaneous metal items required for completion of the work, even though not shown or specified.

304-7 WAYFINDING SIGNAGE INSTALLATION

304-7.1 FABRICATION

A. Design, fabricate and install components to allow for expansion and contraction within a minimum of a 100 degree F temperature range, without causing excessive opening, buckling or overstressing of joints, adhesives, welds and fasteners.

B. Form work to specified sizes, shapes and profiles, with true curves, lines and angles. Provide necessary brackets, lugs and mounting points as required for assembly. Use concealed fasteners wherever possible.

C. Shop fabricate as much as is practical, minimizing field fabrication. Fasten joints flush to conceal attachments, or weld, grind smooth and finish joints where possible.

D. Shop and field assembled joints are to be true and tight, with minimal use of filling compounds. Finish hollow sign elements with matching material on all faces, tops, bottoms and ends, so that elements have the appearance of solid material.

E. Signs shall have a consistent, smooth surface, with even texture, straight edges and flat panel surfaces. Panel surfaces are to be flat and true with a maximum surface tolerance is 1/8 inch for 10 feet in length. Lines, joints and miters are to be smooth and sharp, with profiles accurate and ornament true to pattern.

F. Extruded members are to be free of extrusion marks.

G. Pre-drill holes for bolts and screws. Exposed ends and edges of panels are to be milled smooth with slightly eased edges.

H. All painted surfaces are to have proper surface preparation and priming prior to application of finish coatings. Finish is to be even with no light application allowing substrate or primer to show.

I. All moveable parts, including hardware are to be assembled and finished to allow for smooth operation without binding, deformation or distortion of adjoining members. All contact surfaces are to fit tight without forcing or warping components.

304-7.2 INSTALLATION

A. Protect products against damage during field handling and installation. Protect adjacent existing materials, finishes and landscaping as necessary to prevent damage. Touch up exposed hardware to match color and finish of surrounding surface after installation.

B. Mount signs in proper alignment, level and plumb in accordance with the contract documents, where otherwise not specified, signs shall be installed where best suited to provide a consistent appearance throughout the project.

C. Contractor shall own and be responsible for all signs that are damaged, lost or stolen while materials are on the job site and until the final acceptance of the job by the owner.

D. Correct or remove signs or installation work deemed by the owner as unsafe immediately upon notification.

E. Upon completing installation, clean all sign surfaces and adjacent building surfaces affected by sign installation prior to calling for inspection. Replace any damaged landscaping materials to match condition prior to installation.

304-7.3 SIGN SCHEDULE – See SHEET WSL.01

SECTION 307 - STREET LIGHTING AND TRAFFIC SIGNALS

307-1 GENERAL

Standard Plans referenced in this Section 307, "Street Lighting and Traffic Signals", for Traffic Control System shall mean the California Department of Transportation (Caltrans) Standard Plans most current edition, and the City of San Leandro Standard Plans (Dwg. 500A, 500B, 500C, 500D).

307-1.1 DESCRIPTION The work shall consist of furnishing and installing, modifying, or removing electrical systems, all as shown on the Plans and in the Specifications.

All work shall conform to the provisions of Section 86, "Signal and Lighting", of the May 2010 edition of the California Department of Transportation (Caltrans) Standard Specifications.

All materials furnished and used shall be new, except materials specified to be reused.

All incidental parts which are not shown on the Plans or in the Specifications, and which are necessary to complete or modify the existing systems, shall be furnished and installed as though such parts were shown on the Plans or specified herein. All systems shall be in satisfactory operations at the time of completion of the Work.

307-1.2 REGULATIONS AND CODES The street lighting and traffic signal work shall conform to Section 307-1.2, "Regulations and Codes", of the Standard Specifications and the latest edition of the Electrical Code, City of San Leandro Standard Drawings and Specifications, the latest rules and regulations of the Safety Orders issued by the Division of Industrial Safety, the National Board of Fire Underwriters and all applicable State and Local Codes issued by authorities having jurisdiction.

The Contractor shall coordinate with the serving utility to complete all lighting and traffic signal service installations in accordance with the requirements of the serving utility. The Contractor shall be solely responsible to obtain approval of the lighting and traffic signal service from the service utility company.

307-1.3 EQUIPMENT LIST Equipment list and drawings of electrical equipment and material shall conform to the provisions of Section 307-1.3, "Equipment List and Drawings", of the Standard Specifications and these Special Provisions.

Unless otherwise permitted in writing by the Engineer, the Contractor shall, within 15 days following approval of the contract, submit to the Engineer for review, a list of equipment and materials, which he proposes to install as specified in Section 5-1.02 of the Standard Specifications. The List shall provide the Engineer a means by which to approve partial payments. The list shall be complete as to name of manufacturer, size, and identifying number of each item. In addition, the Contractor shall, in accordance with 2-5.3, submit detailed drawings and wiring diagrams for all electrical equipment to be used. The Agency will not be liable for any material purchased, labor performed, or delays to the Work prior to review of documents required above.

If ordered by the Engineer, the Contractor shall submit for review sample articles of the material proposed for use. After review, said sample articles will be returned to the Contractor.

Upon completion of the Work, the Contractor shall submit one complete set of corrected Plans showing in detail all construction changes.

In addition to the list of equipment and materials which the Contractor proposes to install, the Contractor shall furnish a maintenance manual for all controller units, auxiliary equipment, and control units. The maintenance manual and operation manual may be combined into one manual. The maintenance manual

or combined maintenance and operation manual shall be submitted upon project completion. The maintenance manual shall include, but need not be limited to, the following items:

A. Specifications
B. Designs characteristics
C. General operation theory
D. Function of all controls
E. Trouble shooting procedure (diagnostic routine)
F. Block circuit diagram
G. Geographical layout of components
H. Schematic diagrams
I. List of replaceable component parts with stock numbers
J. Reduced "As Built" Record Drawing of the entire system, laminated in plastic and placed in the service enclosure

307-1.4 WARRANTIES, GUARANTIES, AND INSTRUCTION SHEETS Manufacturers' warranties, guarantees and instruction sheets shall conform to the provision of Section 307-1.4, "Warranties, Guarantees and Instruction Sheets", of the Specifications and these Special Provisions, except the video vehicle detection system shall be warranted per Section 209-6.4 of these Special Provisions.

The Contractor shall deliver the executed Guaranty form contained in the Proposal Section of the Contract Book to the Engineer prior to initial acceptance of the work. The guaranty period shall be twelve (12) months after the date the Notice of Completion is recorded by the City.

The Contractor's attention is directed to the provisions of Section 2-4, "Contract Bonds", of these Special Provisions.

307-1.5 MAINTENANCE OF EXISTING SYSTEMS. The following is added to Section 307-1.5, "Maintenance of Existing Systems", of the Standard Specifications: Existing electrical systems (traffic signal and street lighting and other facilities), or approved temporary replacements thereof, shall be kept in effective operation for the benefit of the traveling public during the progress of the work, except when shutdown is permitted, to allow for alterations or final removal of the systems. The traffic signal shutdowns shall be limited to periods allowed for lane closures listed, or shall be as specified in the Special Provisions. Lighting system shutdowns shall not interfere with the regular lighting schedule, unless otherwise permitted by the Engineer. The Contractor shall notify the Engineer prior to performing any work on existing systems.

Maintaining existing temporary Signal systems shall conform to the provisions in Section 86-1.05, "Maintaining Existing and Temporary Electrical Systems", of the Caltrans Standard Specifications and these Special Provisions.

The Contractors attention is directed to Section 7-10.1 "Traffic and Access" of the Standard Specifications and these Special Provisions.

At least two (2) working days prior to performing any work on existing City systems, the Contractor shall notify the City Public Works Service Center Traffic Supervisor at (510) 577-3451.

Traffic signal system shutdown shall conform to the provisions of Section 315-3, "Traffic Control System, Lane Closures, and Detours", of these Special Provisions.

307-1.5.2 SCHEDULING OF WORK.

Scheduling of Work shall conform to the provisions in Section 86-1.06, "Scheduling of Work", of the Caltrans Standard Specifications, the Standard Specifications, and these Special Provisions.

The Contractor shall not begin any work which will interfere with the operation of the existing traffic signal systems and/or lighting systems until all related items which will not interfere have been completed, or unless otherwise directed by the Engineer.

307-2 CONSTRUCTION GENERAL. General construction shall conform to the provisions of Section 307-2, "Construction General", of the Standard Specifications and these Special Provisions.

307-2.1 EXCAVATION AND BACKFILL Trench excavation and backfill shall conform to the provisions of Section 307-2.1 "Excavation and Backfill", of the Standard Specifications and these Special Provisions, City Standard Plan "Trench Backfill" (Dwg. 120A and 120B, Case 3101) and "Trench Resurfacing" (Dwg. 122A and 122B, Case 3101). Contractor has option to horizontal directional drill where applicable or mandatory.

Removing and replacing Traffic Signal improvements shall conform to Section 86-2.02 "Removing and Replacing Improvements"' of the Caltrans Standard Specifications and these Special Provisions.

Trench backfill shall be crushed aggregate base conforming to Section 200-2.2 and Section 306 of these Special Provisions and as detailed on City Standard Plan "Trench Backfill" (Dwg. 120A & 120B, Case 310) as shown on the plans. Crushed aggregate base backfill shall be compacted to 95% relative compaction (90% under curb, gutter, sidewalk and driveway).

At the Contractor's option and sole expense, trenches, may be backfilled with Control Density Fill (CDF) as detailed on City Standard Plans "Trench Backfill" (Dwg. 120A & 120B, Case 3101) conforming to the provisions of Section 306-1.3 of these Special Provisions.

Trench resurfacing shall conform to the provisions of Section 306-1.5, "Trench Resurfacing," of the Standard Specifications, these Special Provisions, and the conform to the details shown on the City Standard Plans "Trench Resurfacing" (Dwgs. 122A and 122B, Case 3101).

307-2.4 PULL BOXES Pull box installation for Traffic Signal Systems shall conform to the provisions of Section 86-2.06 of the Caltrans Standard Specifications, these Special Provisions, and the details shown on the Caltrans Standard Plan ES-8.

Pull Boxes shall be located as shown on the plans and shall be Type 5 unless otherwise noted on the plans.

Where practical, pull boxes shall be installed adjacent to the back of curb with the long side parallel with the curb. Pull boxes shall not be located within the limits of curb ramps.

Pull boxes shall rest on 12 inches of crushed drain rock as specified in Section 200-1.4. The top of the pull box shall be set flush with surface of the surrounding sidewalk or to the finished grade specified by the Engineer.

All existing pull boxes and/or pull box lids, which are cracked or broken, shall be replaced with new. All new pull boxes shall be reinforced concrete with concrete sidewalk type lids. Lids shall be marked Traffic Signal, Interconnect, Electric Service, Phone Service or loop detector as appropriate.

Grout shall not be placed in the bottom of new or existing pull boxes.

307-2.5 CONDUIT

Conduit installation shall conform to the provisions in the Section 86-2.05, "Conduit", of the Caltrans Standard Specifications and Section 209-3.5 of these Special Provisions.

Conduits shall be installed as shown on the plans.

Conduit shall be laid to a minimum depth of 42 inches in Arterial streets, 36 inches in Collector and Minor streets, and 24 inches in all other areas.

Bedding for rigid non-metallic conduit shall be four (4) inches of sand conforming to Section 200-1.5 of these Special Provisions, where opened trenched.

Trench backfill shall be Crushed Aggregate Base conforming to Section 200-2.2 and Section 306 of these Special Provisions and as detailed on City Standard Plan "Trench Backfill" (Dwg. 120A and 120B, Case 3101). Aggregate Base backfill shall be compacted to 95% relative compaction (90% under curb, gutter and sidewalk).

At the Contractor's option and sole expense, trenches may be backfilled with Control Density Fill (CDF) as detailed on City Standard Plan "Trench Backfill" (Dwg. 120A and 120B, Case 3101) conforming to the provisions of Section 306-l.3.7, "Imported Backfill", of the Standard Specifications.

Conduit entering or leaving pull boxes shall be angled up at least 45 degrees. After conductors have been installed, the ends of conduits terminating in pull boxes and controller cabinets shall be sealed with an approved type of sealing compound.

307-2.6 WIRING.

Conductors, cables and wiring for Signal Systems shall conform to the provisions in Section 86-2.08, "Conductors", and Section 86-2.09 "Wiring" of the Caltrans Specifications and Section 209-3.6 of these Special Provisions.

CONDUCTOR IDENTIFICATION shall conform to the provisions of Section 86-2.08A, "Conductor Identification", of the Caltrans Standard Specifications and these Special Provisions. All single conductors and cables, except detector lead-in cables, shall have clear, distinctive and permanent markings on the outer surface throughout the entire length showing the manufacturer's name or trademark, insulation type letter designation, conductor size, voltage rating and the number of conductors if a cable.

SPLICES FOR TRAFFIC SIGNAL SYSTEMS The following is added to Section 86-2.09D, "Splicing and Terminations" of the Caltrans Standard Specifications: Splices shall be "Method B".

307-2.7 BONDING AND GROUNDING

Bonding and grounding shall conform to the provisions in Section 86-2.10, "Bonding and Grounding", of the Caltrans Standard Specifications and these Special Provisions.

Grounding jumper shall be attached by a 3/16 inch or larger brass bolt in the signal standard or controller pedestal and shall run continuously to the conduit, ground rod, or bonding wire in the adjacent pull box. Grounding jumper shall not be visible after cap is poured on the foundation.

307-4 TRAFFIC SIGNAL CONSTRUCTION

307-4.1 TRAFFIC SIGNAL SYSTEMS The materials furnished for Traffic Signal System shall conform to Section 86, "Signals and Lighting," of the Caltrans Standard Specifications and these Special Provisions.

Standard Plans referenced in Section 209, "Electrical Components," of these Special Provisions shall mean the most current edition of the California Department of Transportation (Caltrans) Standard Plans.

The Controller cabinet schematic wiring diagram and intersection sketch shall be combined into one drawing, so that, when the cabinet door is fully open, the drawing is oriented with the intersection.

The Contractor shall furnish a maintenance manual for all controller units, auxiliary equipment, vehicle detector sensor units, control units and amplifiers. The maintenance manual or combined maintenance and operation manual shall be submitted at the time the controllers are delivered for testing or if ordered by the Engineer, previous to purchase. The maintenance manual shall include, but need not be limited to, the following items:

A. Specifications
B. Designs characteristics
C. General operation theory
D. Function of all controls
E. Trouble shooting procedure (diagnostic routine)
F. Block circuit diagram geographical components
G. Geographical layout of components
H. Schematic diagrams
I. List of replaceable component parts with stock numbers
J. Reduced laminated in plastic “As Built” Record Drawing

307-4.3 CONTROLLER CABINET WIRING DIAGRAM The controller cabinet schematic wiring diagram and intersection sketch shall be combined into one drawing, so that, when the cabinet door is fully open, the drawing is oriented with the intersection.

307-4.6 SIGNAL HEADS The installation of signal heads shall conform to the provisions of Section 86-4, “Traffic Signal Faces and Fittings”, of the Caltrans Standard Specifications and the details shown on Standard Plan ES-3A, ES-3B, ES-3C, ES-3D and ES-3E and these special provisions.

All 12” vehicle signal heads, pedestrian signals, full circle visors and steel backplates shall conform to the provisions of Section 86-4, “Traffic Signal Faces and Fittings”, of the Caltrans Standard Specifications.

307-4.7 SIGNAL HEAD MOUNTINGS The installation of signal head mountings shall conform to the provisions of Section 86-4.06, “Signal Mounting Assemblies”, of the Caltrans Standard Specifications and the details shown on applicable Caltrans Standard Plans and these Special Provisions.

307-4.9 VIDEO IMAGING VEHICLE DETECTION SYSTEM

307-4.9.5 VIDEO DETECTOR SYSTEM
A video detection system shall be supplied and installed for each intersection as shown on the plans, and as specified in these Special Provisions.

The video detector system shall include equipment and software that monitors vehicles on a roadway via processing by machine vision images and provides detector outputs to a traffic signal controller. The system shall consist of four Econolite "Solo Terra" Machine Vision Processors (MVP), and have the capability of providing a video image of the field of view on a personal computer display. System shall be Econolite "Solo Terra" or City approved equivalent.

Video Detection System Hardware

Machine Vision Processor

The video image detection system shall use medium or high resolution, color machine vision processors (MVP's) as the video source for real-time vehicle detection. Images shall be output as a video signal conforming to RS 170, RS 170A, NTSC, or CCIR specifications.

The MVP's shall be enclosed in an environmental enclosure with a sunshield. All hardware used to secure the MVP shall not require proprietary tools, but shall accept industry standard tools. Mounting brackets shall be commercially available, non-proprietary items to enable the user to use the sensor in a variety of mounting sites. Mounting shall enable the MVP to be adjusted for vertical and horizontal aim, and to be locked in place.

The supplier shall conduct a site-investigation in order to determine the optimum MVP mounting locations for proper operation.

Cable Conductors and Wiring

Terminations of individual conductors shall conform to Section 86-3.07C, "Cabinet Wiring," of the Standard Specifications.

Video Detection System Software

User interface for the installation and operation software shall be a graphical user interface (GUI) such as a Windows based interface.

The system shall be able to detect in multiple lanes of traffic. Detection zones shall be user-definable through interactive graphics by placing detectors on an image on a VGA monitor. The user shall be able to re-define previously defined detection zones locally by use of a PC, or remotely through the use of a data/telephone modem to a PC.

The following parameters shall be selectable/reprogrammable by the user:

- Number of detection zones
- Shape/location of each detection zone
- Detector functions: Presence, count, and incident detection. Traffic data that can be polled include volume, occupancy, speed, density, headway, and 5 classifications plus Boolean functions (AND, OR, NAND, NOT, or N of M)
- Time intervals for vehicle counts, occupancy, and average speed data.

The system shall be capable of storing a minimum of 1 MB worth of data in memory and downloading the data in ASCII format to a PC.

Video Detection Communications Protocol

Communications shall operate in RS 232 accommodating baud rates up to 19.2 Kbps.

Video Detection Functional Capabilities and Operation

The system shall meet the environmental requirements set forth by the NEMA (National Electrical Manufactures Association) TS1 and TS2 standards as well as the environmental requirements for Type 170 and Type 179 controllers. Operating temperatures shall be from -35 to +74 degrees C at 0% to 95% relative humidity, non-condensing.

The system shall be able to detect licensed vehicles in multiple lanes of traffic.

No periodic calibration shall be required after initial calibration and set-up.

The overall performance of the system shall be comparable to inductive loops. When installed, the system will detect 93% of vehicles through the detection zones.

Video Detection Installation and Training
The supplier of the video detection system shall supervise the installation and testing of the video detection system and computer equipment. A factory certified representative from the supplier shall be on-site during installation.

The Contractor shall provide two days of training to personnel designated by the Engineer. The training shall cover the operation, setup and maintenance of the video detection system. Instruction and materials shall be provided for a maximum of ten (10) persons and shall be conducted at a location approved by the Engineer.

Video Detection Warranty, Maintenance and Support
The video detection system shall be warranted by the supplier for a minimum of two years.

Technical support by telephone shall be provided by the supplier 24 hours per day, reasonable exceptions being national holidays.

Ongoing software support by the supplier shall include updates of MVP and supervisor software. These updates shall be provided free of charge during the warranty period.

The Video Detection System shall include Machine Vision Processors with medium resolution cameras, a Communications Interface Panel, a Minihub Port Master and software and setup devices as recommended by the manufacturer.

307-4.9.6 EMERGENCY VEHICLE PRE-EMPTION Emergency vehicle pre-emption installation and equipment shall conform to the provisions of Section 86-3.08, "Auxiliary Equipment", of the Caltrans Standard Specifications and these Special Provisions.

Emergency vehicle pre-emption equipment shall conform to the provisions of Section 209, "Electrical Components", of these Special Provisions.

The new traffic signal controller cabinet shall be equipped with an Opticom 721 Emergency Vehicle detection unit. The 752 units shall have a 2-channel detection capability. All cables, wiring, and appurtenances necessary to operate the receivers with the new emergency detection unit shall be included with the unit and installed per the manufacture's standard. No substitute will be allowed.

307-4.10 PEDESTRIAN PUSH BUTTONS Pedestrian push buttons shall be installed in accordance with Section 86-5.02, "Pedestrian Push Buttons", of the Caltrans Standard Specifications and the details shown on Standard Plan ES-5C.

307-4.11 CONTROLLER AND SERVICE CABINET FOUNDATION Controller assembly and service cabinet foundations and foundation shall conform to the provisions of Section 307-4.11 of the

Standard Specifications and with Section 86-2.03 of the Caltrans Standard Specifications and the details shown on Standard Plan ES-2D and ES-3C.

307-4.12 FOUNDATIONS Traffic Signal foundations shall conform to Section 86-2.03, "Foundations", of the Caltrans Standard Specifications.

307-4.13 STANDARDS, STEEL PEDESTALS, AND POSTS Standards for traffic signals, steel pedestals for cabinets, posts and other similar equipment shall be located as shown on the plans. Standards, steel pedestals and posts shall conform to the provisions of Section 86-2.04 "Standards, Steel Pedestals and Posts" of the Caltrans Standard Specifications.

307-4.14 CONDUIT Conduits shall be installed as shown on the plans. Materials and installation shall conform to Section 86-2.05, "Conduit", of the Caltrans Standard Specifications

307-4.15 PULL BOXES Pull boxes shall be located where shown on the plans and shall be Type 5 unless noted otherwise. Pull box material and installation shall conform to Section 86-2.06, "Pull Boxes", of the Caltrans Standard Specifications

307-4.16 CONDUCTORS Conductors, cables and wiring shall conform to Section 86-2.08, "Conductors", of the Caltrans Standard Specifications.

307-4.17 CONDUCTOR IDENTIFICATION All single conductors and cables, except detector lead-in cables, shall have clear, distinctive and permanent markings on the outer surface throughout the entire length showing the manufacturer's name or trademark, insulation type letter designation, conductor size, voltage rating and the number of conductors if a cable. Conductor identification shall conform to Section 86-2.08A, "Conductor Identification", of the Caltrans Standard Specifications

307-4.18 CONTROLLER ASSEMBLY The Contractor shall purchase and deliver new Type P Cabinets and NAZTEC Model 980 TS2 Type 1 Ethernet Controllers to the City of San Leandro Maintenance Yard, 14200 Chapman Road, San Leandro, 30 days before the scheduled installation date of the cabinet.

The Type P Cabinets and NAZTEC Model 980 TS2 Type 1 Ethernet Controllers shall meet the requirements of the City. The cabinet shall be fully wired, configured, and equipped with the MMU, load switches, video detector units with 32 channel detection capability, Opticom Emergency Vehicle Detection Unit and other appurtenances necessary to operate the signal system as shown on the plans. The Contractor shall pick up the cabinet at the City Yard after notify the City 48 hours before the need to install the cabinet.

307-4.19 SPLICING Splicing shall conform to the provisions of Section 86-2.09 "Wiring" of the Caltrans Standard Specifications.

307-4.20 SERVICE Service shall conform to the provisions of Section 86-2.11, "Service", of the Caltrans Standard Specifications, Section 209-3.13 of these Special Provisions.

Service installation shall be Type III CF free-standing enclosure. Service Equipment enclosure shall be wired according to the details shown on the plan. The cabinet shall be aluminum.

Contractor shall arrange with the serving utility to complete all service installations in accordance with the requirements of the serving utility and shall pay all fees, furnish all materials and perform all the work required to complete the service installation.

307-5 INSPECTION AND TESTING

307-5.2 TESTING Testing shall conform to the provisions in Section 86-2.14, "Testing", of the Caltrans Standard Specifications and these Special Provisions.

307-5.2.5 CONTROLLER TESTING Controller assembly shall conform to the provisions of Section 86-3.05, "Controller Assembly Testing", of the Caltrans Standard Specifications.

As provided for in Section 86-2.14A of the Caltrans Standard Specifications, the Contractor shall deliver each new controller unit or controller assembly to the test site at 14200 Chapman Road, San Leandro, California for testing prior to installation. Working days have been included in the working days for the contract to allow thirty (30) days for City testing. When the equipment being tested has been rejected for failure to comply with the specifications, the Contractor shall allow thirty (30) days for City retesting. The retesting period shall begin when the corrected equipment is made available at the test site. No additional working days will be allowed for retesting.

When testing by the City is the controlling item of work, working day shall be suspended.

All testing subsequent to rejection of the equipment for failure to comply with the specification requirements will be at the expense of the Contractor. Deductions to cover the cost of such testing will be made from any moneys due or which may become due the Contractor under this contract.

The Contractor will be notified when testing of the equipment has been completed and it shall be his responsibility to deliver said equipment to the site of work.

307-5.2.6 EMERGENCY VEHICLE PRE-EMPTION EQUIPMENT TESTING The Contractor shall demonstrate that all of the components of each system are compatible and will perform satisfactorily as a system. Satisfactory performance shall be determined by having the manufacturer's representatives verify that the system is properly installed per the manufacturer's recommendations and by performing the following test:

1. The Contractor shall arrange to have two manufacturer representatives present at the time the equipment is energized and tested for operation. At least one of the manufacturer representatives shall be qualified to work on and install auxiliary equipment to the controller unit.

2. The manufacturer representative shall have their own vehicle equipped with a Class II (emergency) optical emitter assembly, and two-way radios to perform the test.

1. The test shall be conducted at a distance between 300 to 1,800 feet between the emitter and the detector as directed by a representative of the Fire Department and the Engineer.

2. The equipment shall be adjusted and retested until compliance with the specifications is demonstrated.

307-6 FIBER OPTIC CABLE

307-6.1 FIBER OPTIC CABLE

General.--Installation procedures and technical support information shall be furnished at the time of delivery. Installation procedures shall be in conformance with the procedures specified by the cable manufacturer for the specific cable being installed.

During cable installation, the bend radius shall be maintained at a minimum of twenty times the outside diameter of the cable. After installation, the bend radius shall be maintained at a minimum of ten times the outside diameter of the cable.

When installing fiber optic cable (12 strand), the Contractor shall also install a pull rope and one (1) #8 AWG THW stranded copper locating/ground wire.

F/O cable shall be installed without splices except where specifically allowed on the plans or described in these special provisions.

If the fiber cable reel is left outside overnight during installation, the Contractor must provide their own security for the cable.

The cable shall be clearly marked with a permanent plastic yellow tag in each pull box it passes through. During installation the Contractor must keep a log that notes the meter marking on the cable at every pull box. This will help determine the exact location of problems along the cable run during the OTDR testing. The Contractor must submit the log to the City of their records.

307-6.2. RESTORATION OF EXISTING CABLE AND WIRES At locations where the Contractor must remove existing conductors to install the new fiber cable or new signal conductors, the Contractor is responsible for ensuring that existing cable and wiring is reconnected exactly as found or as specified in the plans and is left fully functional after new cables are installed. The Contractor shall conduct tests, in the presence of the Engineer, to record the operational condition of existing wires and cables prior to removal if it is suspected that such wires or cables are not currently fully functional.

307-6.3 MAKE AND TEST ALL F/O SPLICES AND CONNECTOR INSTALLATIONS The Contractor shall notify the Engineer no less than five (5) working days prior to beginning any splicing and/or connectorization operations.

All splices shall be made in a controlled, weather-proof, dust-proof environment. No open air splices shall be permitted.

The Contractor shall make splices and terminations at locations shown on the plans and as approved by the Engineer.

The F/O cable splices shall be the fusion type and shall not exceed 0.08 dB loss per splice.

Splices shall be housed in splice trays, within in a splice closure or Fiber Termination Units. All splices shall be protected with a thermal shrink sleeve.

The Contractor shall coil a minimum of ten (10) feet of each cable entering an underground splice closure and sufficient additional length to allow the splice to be performed above ground in a vehicle specifically equipped for such work. Such coiled cable shall be located adjacent to the splice enclosure. A segment of cable routed between two splice enclosures shall have a minimum of ten (10) feet of cable coiled at each end, for a total of twenty (20) feet. Cable routed through a splice chamber or fiber-optic pull box without being spliced shall have twenty (20) feet of cable left coiled within that pull box to accommodate future splicing. Ten feet of cable shall be coiled in cabinets. Different lengths of coiled cable shall be provided where shown on the plans.

In non-fiber optic pull boxes, the cable shall be routed as needed to avoid exceeding the minimum bending radius.

Only those fibers that are to be spliced shall be removed from the cable and buffer tubes. All other fibers shall remain in their tubes and shall be suitably protected. The Contractor shall seal all cables where the cable jacket is removed. The cable shall be sealed per the cable manufacturer's recommendation with an approved blocking material.

The Contractor shall submit to the Engineer for approval the resumes with references of people who will be performing splices. Splices shall be performed only by experienced personnel with experience including successful completion of no less than 2000 fusion splices. Only those individuals approved by the Engineer shall be allowed to make fiber optic splices.

Splices shall be made as shown on the Splicing Details in the Plans. Intermediate splices may be made for convenience to connect cable segments between designated splice locations, but no such splices shall be less than 3,000 feet apart, and will not be separately paid for. The Contractor must receive written approval from the Engineer before performing any splices that are not indicated on the plans. The Contractor shall install an additional fiber optic pull box at intermediate splice locations if not already shown on the plans, and the cost of any such intermediate splices and pull boxes shall be incidental to and included in the bid price for "Make & Test All FO Splices & Connector Installations".

The Contractor shall keep accurate detailed records of each splice and each splice location. These records shall include the date each splice was made, the name of the splicer, splice location, splice loss, fiber and tube color codes, splice tray number and position of the fiber within the tray. For each splice enclosure, the Contractor shall provide the Engineer with a chart indicating the source and destination of every fiber spliced in that enclosure, and indicating the tray and position within each tray. This also applies to fibers terminated in patch panels.

To log the fiber routes, terminations and splices, the Contractor shall use a series of numbers and letters to describe the cable, tube, fiber and location of the termination or splice. The exact procedure used to log the splicing must be approved by the engineer before the splicing begins.

FIBER OPTIC CABLE TESTING The fiber optic cable plant shall consist of fiber optic cables, fiber patch cords and pigtails. The Contractor shall perform fiber continuity and attenuation testing and fiber backscatter measurements at several stages in the system construction.

Testing shall be performed with an OTDR (optical time domain reflectometer) and/or optical power meter and light source, as directed below, and testing shall be done at the following stages in the system construction:

1. OTDR test at cable delivery (reel test)
2. OTDR test following cable installation prior to connectorization, termination or splicing
3. OTDR **and** power meter/light source post-connectorization test, following installation of all splices, pigtails, connectors and termination devices. This test shall be performed end-to-end, on all strands that are spliced or onto which optical equipment is terminated.

Each test at each stage of construction shall be performed at the 1310 nm and the 1550 nm wavelengths.

The Contractor shall submit written documentation of each test result, at each stage of testing. The written documentation, in order to be considered for acceptance, **shall include** the parameter measurements as specified herein. The Contractor must submit all results to the Engineer, with a transmittal letter indicating which test results are being submitted. The Contractor shall receive written approval from the Engineer to proceed with any further testing for subsequent stages.

All fibers shall be tested end to end. The end to end total attenuation shall not exceed the sum of the maximum allowable attenuation for the component cable segments, splices and typical loss for connectors.

Nor shall the attenuation from an individual connector or splice exceed the maximum allowable losses. If the fibers in the cable installed under this project exceed the allowable loss, the Contractor shall take corrective measures to bring the cable's total attenuation below the allowable limit, including replacement of the cable at the Contractor's expense.

The Contractor shall perform all OTDR testing in the presence of the Engineer. The Engineer shall attach their written mark to all test documentation made by the Contractor at the time of the test. Testing performed by the Contractor and not witnessed by the Engineer shall not be accepted, re-testing will be required.

The Contractor shall verify that the attenuation and optical continuity of each active and spare optical fiber in the cable plant satisfies the specified requirements.

Attenuation shall be calculated by the insertion method. Calibration between the light source and the power meter shall be performed at the beginning of each day of testing.

The Contractor shall record the attenuation of each optical link. Optical links shall be identified in the test results by identifying the label identifier on each drop cable and by identifying the field cabinet at which light was launched and at which it was received.

An acceptable OTDR shall be used to measure the backscattered light profile of the designated optical links. The OTDR shall include all necessary hardware to couple it to either a connectorized or non-connectorized fiber. While performing backscatter measurements, the end of the fiber link that is not connected to the OTDR shall be capped to prevent the ingress of infrared radiation. The OTDR used shall be provided with certification of its most recent calibration and shall not be more than 12 months old.

A 3000 foot launch cable or launch cable box set for a 3000 foot fiber cable shall be inserted between the OTDR and the optical link to overcome the initial "dead zone" on the fiber trace.

The OTDR testing shall be done at a scale of at least 1 dB per division on the vertical scale. It shall have a dynamic range of at least 30dB at 1310nm and distance measurement accuracy of ±0.01%.

The Contractor shall record each optical link measured for attenuation by means of an electronic data file of the OTDR trace. The Contractor shall supply a licensed software package (installed on the Network Management Computer) to read, store, compare, and analyze the electronic data files created by the OTDR instrument. A hard copy printout of each trace shall also be provided, which shall include the measurements listed below. The OTDR traces shall be compared with this software following each testing stage of the installation. Documentation of this comparison shall be provided to the Engineer, as specified above. Optical links shall be designated in the test results by indicating the label identifier on each drop cable and by identifying the field cabinet at which light was launched.

The OTDR traces shall be marked noting the physical location of each splice or connector. The notation shall be clear and understandable.

The OTDR shall be of a manufacture recommended by the cable supplier. The OTDR operator shall hold a current operators certificate for the equipment used. This certificate shall represent not less than 16 hours of training from the equipment manufacture. This certificate shall be presented to the Engineer at the start of testing.

The test results shall include the following measurements:

- **total measured length of the optical link (m)**
- **total end-to-end attenuation of the optical link (dB), not including launch cable**
- **end-to-end attenuation per unit length (dB/km), not including launch cable**

- **mean attenuation of each splice in the optical link under test (dB)**
- **wavelength of the measurement (nm)**

Attenuation shall be measured in decibels.

The Contractor shall demonstrate that each fiber and splice satisfies the specified requirements.

307-6.4 INSTALL FIBER TERMINATION PANEL IN CABINET The Contractor shall securely mount the termination unit to the top shelf of the cabinet, or to the side of the cabinet above the top shelf. Alternate locations shall be coordinated with, and approved by, the Engineer. It shall be mounted such that there is easy access to the fibers and connections yet they are protected and do not interfere with access to other cabinet equipment. Any doors on the termination unit must be able to open without interfering with other equipment in the cabinet.

The termination panel or associated device shall have provision for securely fastening the terminated fiber optic cable jacket and strength members.

307-6.5 INSTALL FIBER OPTIC PIG TAILS The optical fiber shall not be bent less than a two (2) inch radius during installation or after final assembly in the splice tray. Each bare fiber shall be individually restrained in the splice tray. The placement and attachment of optical fibers in the splice tray shall be such that there is no discernible tensile force on the optical fiber. The raw fiber coming from the field cable shall have two complete wraps in the splice tray.

Installation of fiber optic pig tails shall include all required splicing.
Field connectorization is not allowed.

307-6.6 INSTALL SPLICE CLOSURE The optical fiber shall not be bent less than a two (2) inch radius during installation or after final assembly in the splice tray. Each bare fiber shall be individually restrained in the splice tray. The placement and attachment of optical fibers in the splice tray shall be such that there is no discernible tensile force on the optical fiber. The raw fiber coming from the field cable shall have two complete wraps in the splice tray.

Location of the splice enclosures shall be as shown on the plans or as described in these special provisions or as directed by the Engineer. Splice enclosures shall be provided in buildings as shown on the plans for transitioning from outdoor to indoor rated cable inside the building.

307-6.7 CABLING All cabling shall be installed as shown on the plans, and installed in a location approved by the Engineer. All new cable entering the cabinet shall be secured to the cabinet wall with channel-mounted or otherwise-wall-mounted clamps. Groups of wires shall be bundled together with solderless connectors (cable ties) to avoid interfering with other equipment.

All conductors and splices shall meet the requirements set forth in the latest edition of the Caltrans Standard Plans and Specifications.

307-6.8 INSTALLATION OF DATA TRANCEIVERS The data transceivers shall be installed at the cabinet locations shown on the plans. The Contractor shall verify the desired physical space for the data transceivers with the Engineer prior to installation. The Contractor shall be responsible for providing all necessary cables and connectors to make the connections to the controller, and for power to the transceiver. The Contractor shall ensure that the serial data cable is terminated with the appropriate size connectors for the transceiver and the controller, and that the cable is built such that pins on each device are mapped appropriately.

Prior to installation, the operation of all equipment shall be verified using the same type cable it is to be installed with. The fiber optic path for each data link shall have been tested and verified in accordance with the contract prior to the data transceiver installation.

The Contractor shall furnish and install single mode fiber optic patch cords to connect the transceivers to the fiber termination panels. The patch cords shall have FC-PC connectors. The Contractor is responsible for ensuring the connectors on the patch cords are fully compatible with those on the fiber termination panel and the transceivers. The Contractor shall neatly route the patch cord from the transceiver to the termination panel. No cables shall be installed with a bend radius less than the manufacturer's minimum recommended bending radius.

The Contractor is responsible for all testing and documentation required for approval and acceptance of the production, installation and operation at these materials and equipment. All indicators shall be verified to function correctly.

Attention is directed to "System Testing and Documentation," elsewhere in these special provisions regarding testing the data transceivers.

307-6.9 SYSTEM TESTING AND DOCUMENTATION

(a) Description - The system testing and documentation shall cover pre-installation testing, subsystem testing, acceptance testing, physical inspection, functional testing. Performance testing, final acceptance and system documentation that is required to validate the operational performance of the system and described elsewhere in these special provisions.

(b) Test Plan - The Contractor shall develop and submit within 30 working days to the Engineer an installation and test plan for approval, which details the method of installation and all testing for all material, equipment, and cable and the associated schedule of activities, based on these special provisions, plans, the manufacturer's recommended test procedures, and industry standard practices. Five copies of the test plan shall be submitted to the Engineer for approval. The Engineer will review then approve or disapprove the plan within four weeks. If the Engineer rejects the test plan the Contractor shall submit a revised test plan within 10 working days for review and approval by the Engineer. No testing shall be performed until Contractor's test plan has been approved by the Engineer. The tests shall quantitatively demonstrate that the design and production of material and equipment meet the requirements of these special provisions and plans. All test results, including results of failed test or re-tests, shall be submitted and delivered to the Engineer and a copy placed with the equipment at the site. All test equipment shall be supplied by the Contractor. All testing shall be done in the presence of the project manager and signed off by the project manager.
The Contractor shall notify the Engineer of their intent to proceed with functional and subsystem testing 48 hours prior to commencement of each test. Full environmental conditions shall be tested as part of the functional tests for field equipment. Subsystem testing and inspections shall include visual inspection for damaged or in correct installation, adjustments and alignment, and measurement of parameters and operating conditions.

(c) Pre-Installation Testing - Pre-inspection testing shall include testing of all material, equipment and cables in a laboratory environment prior to delivery to the site. Use of laboratory facilities, shall be arranged by the Contractor. The tests shall either be conducted at the equipment manufacturer's premises or at a laboratory arranged by the Contractor.

All material, except test equipment and special tools, shall be bench tested in accordance with the following paragraphs, which include those items described elsewhere requiring pre-installation testing for each individual item where applicable.

All active equipment shall be connected to normal operating power, energized and subjected to normal operating conditions for a continuous period of time in the laboratory of not less than 48 hours.

Functional testing shall be performed by the manufacturer on all material prior to delivery to the site. The functional tests shall be performed in accordance with an approved test plan. Any material or equipment which fails to meet the requirements of the contract shall be repaired or replaced and the test shall be repeated until satisfactory. All functional test results, including results of failed tests or re-tests, shall be submitted and delivered with all material and equipment delivered to the site.

Full performance tests shall be performed by the manufacturer or by the Contractor on not less than 5 percent or at least one unit of material selected at random from the normal production run. The full performance test shall be performed in accordance with a test plan developed by the Contractor and approved by the Engineer.

(d) Subsystem Testing - Subsystem testing shall encompass the testing of all material, equipment and cable after installation, but prior to acceptance tests. These tests shall be done in accordance with the performance testing called out under each individual item in these special provisions.

Equipment and hardware shall be installed in accordance with the plans and special provisions. All material, equipment and cable shall be tested after installation at the site. Subsystem testing and inspections shall include visual inspection for damaged or incorrect installation, adjustments and alignment, and measurement of parameters and operating conditions. The Contractor shall notify the Engineer of their intent to proceed with subsystem testing 48 hours prior to commencement of each test.

Installation documentation and test results shall be provided for all material, equipment and cable prior to commencement of acceptance tests. Installation documentation shall be in accordance with these special provisions and shall include the following as appropriate:

- Model, part number and serial number for all material and equipment.
- Test equipment model number, serial number, settings, and date of last calibration.
- All strap and switch settings.
- Record of all adjustments and levels.
- Alignment measurements.
- Identification of interconnections.
- All factory, laboratory and site test results.

(e) Acceptance Testing - The acceptance testing shall be conducted in accordance with the approved test plan. The acceptance testing shall include conducting acceptance tests and subsequent re-tests, and documentation of the test results.

Final acceptance tests shall be conducted after the site and subsystem test results have been reviewed and accepted by the Engineer. These tests include the complete system in normal operations. The test plan shall address the full testing requirements of the specifications. The test plan shall detail all tests to be performed, the test results which are expected and the test schedule. The acceptance test plan shall include the following major test and acceptance categories:

- Physical inspection
- Functional tests
- Performance tests

The Contractor shall test the communications system according to the approved acceptance test plan and shall provide all test equipment, labor and ancillary items required to perform the testing. The test

equipment shall be certified to be calibrated to the manufacturer's specifications. The model and part numbers and date of last calibration of all test equipment shall be included with the test results.

Acceptance testing shall not commence until all material required by these special provisions and plans are delivered, installed, and aligned and all production test and site test documentation and results have been approved by the Engineer.

All acceptance test results shall be fully documented and such documentation provided as a condition of acceptance.

(f) Physical Inspection - The Contractor shall provide documentation to prove delivery of all material, equipment, cable and documentation. If any material or documentation is outstanding or have been replaced under pre-acceptance warranty a physical inspection and documentation shall be provided for this material. The physical inspection shall consist of inspecting all installed material to ensure workmanship satisfies the specified requirements.

(g) Functional Tests - The Contractor shall test all system functions to demonstrate that all data circuits and all equipment satisfies the functional requirements of the specifications.

The connectivity of each data channel shall be demonstrated. The Contractor shall document all functional test results. In the event that any aspect of the functional tests are determined by the Engineer to have failed, the Contractor shall cease all acceptance testing and determine the cause of the failure and make repairs to the satisfaction of the Engineer. Acceptance testing shall, at the discretion of the Engineer, be repeated beginning from the start of functional tests.

(i) Performance Tests - The Contractor shall conduct operational performance tests on the following:

- Response to alarm inputs
- System diagnostics

If any circuit or element fails to satisfy the specified performance requirements the Contractor shall determine the cause and correct the failure to the satisfaction of the Engineer. The full performance tests shall be repeated under operating conditions as determined by the Engineer.

(j) System Documentation - The Contractor shall submit a draft copy of all documentation for review and approval prior to production of documentation. The Engineer will review and approve or reject the draft documentation within four weeks of receipt.

The Contractor shall modify the documentation if required and submit provisional documentation. The Engineer will approve or reject the provisional documentation within three weeks of receipt. The Contractor shall arrange for re-submission in a timely manner to meet the schedule in the case that the documents are rejected.

Draft documentation shall be submitted eight weeks prior to the start of installation. The draft documentation shall show the general approach in preparing the final manuals.

Upon approval of the draft documentation provisional documentation shall be supplied 3 weeks prior to the start of site testing. The provisional documentation shall be of the same format as the final manuals but with temporary insertion for items which cannot be finalized until the system is completed tested and accepted. Final documentation shall be submitted no later than 4 weeks after completion of the acceptance tests and shall incorporate all comments made during the approval stages. The Contractor shall be responsible for all delay caused by non-compliance to the specified requirements.

Final documentation shall be approved prior to its production. Ten copies of all final documents shall be delivered. The copies shall be 8½ inch x 11 inch paper and bound in three-ring hard-covered binders complete with dividers. Also the documentation shall be furnished electronically in "Word" format on 3½ inch disks. System documentation shall be arranged in an operation and maintenance (O & M) manual format providing all the information necessary to operate, maintain and repair the equipment and cable to the lowest module or component level. The operation and maintenance manual shall as a minimum consist of the following sub-section as described below:

Master Items Index. -- This shall be the first section of the O & M manual. The section shall describe the purpose of each manual and brief description to the directory of the manual. It shall also reference equipment manuals as required for additional and support material.

System Description and Technical Data. -- This section shall contain an overall description of the system and associated equipment and cables with illustrative block diagrams. This section shall identify all equipment and cables in the system stating the exact module and option number that are employed in the system. Technical data specification and settings for every type of equipment or cable shall be provided. Any modification that has been done on the equipment shall be clearly described.

Theory of Operation. -- The manual shall contain a functional description of each element of the system, explaining how each function is being achieved separately and how each element works together to form the complete system.

Software Documentation. -- Proper documentation for all software shall be provided. The software documentation shall include a clear description of the system's functionalities and specifications. Description of each software module and program shall be provided. The Contractor shall supply related programming and system user manuals, application and utilities software user manual and all associated proprietary software manuals. Software listing of all custom programs shall also be provided, as well as a copy of any software source code.

Operations. -- The manual shall describe how to operate the system and each particular type of equipment and software. Equipment layout, layout of controls, displays, software operating procedures and all other information required to correctly operate the system and each functional unit shall be provided. Procedures shall also be provided for initial tune-up of the system and adjustment and checkout required to ensure that the system is functioning within the performance requirements. Warning of special procedures shall be given. The functions and setting of all parameters shall be explained.

Corrective Maintenance. - The manual shall include fault diagnostic and repair procedures to permit the location and correction of faults to the level of each replaceable module. Procedures shall include alignment and testing of the equipment following repair, the test equipment, tools, diagnostic software required and the test set up.

Preventative Maintenance. - The manual shall include procedures for preventative maintenance in order to maintain the performance parameters of the system, equipment and cables within the requirements of the specifications.

Parts List. -- The manual shall include a list of all replaceable parts with exact parts description and number and a directory of recommended suppliers with correspondence address, telephone and fax numbers.

Test Results. -- This section shall include a copy of the results for all the tests that have been conducted for the contract.

System schematic drawings shall be provided to identify the type of equipment at each location and the function of all equipment. The drawings shall also show how the system is interconnected. A comprehensive list of cabling and wiring shall be provided to clearly identify the interconnection and labeling.

The Contractor shall cooperate and coordinate with Contractors performing related contracts, to the extent feasible, to facilitate overall system testing.

307-7.1 SALVAGE Salvaging and reinstalling or stockpiling electrical equipment shall conform to the provisions in Section 86-7, "Salvaging and Reinstalling or Stockpiling Electrical Equipment", of the Caltrans Standard Specifications and these Special Provisions.

Salvaged electrical equipment not to be reused shall be delivered to the City of San Leandro Service Center at 14200 Chapman Road, San Leandro, California.

The Contractor shall provide equipment as necessary to safely load, transport, unload, and stockpile salvaged material. The Contractor shall notify the City's Electrical Maintenance Supervisor at (510) 577-3445, three (3) days to schedule delivery of salvaged material.

307-9 VIDEO IMAGING VEHICLE DETECTION SYSTEM

307-9.1 INSTALLATION AND COMPLETION The Contractor shall be responsible for furnishing all training, labor, materials, cables, connectors, tools, equipment, shipping, and incidental items necessary to complete the installation of the video imaging vehicle detection system. Installation of the video imaging vehicle detection systems shall include the installation of any and all associated equipment, including, but not limited to, the items listed under Section 209-6.3, System Requirements, of these Special Provisions.

The camera assemblies shall be mounted at the locations shown on the plans with camera extension arms to place the cameras closer to the center of the intersection. The cameras shall be connected to the MVP with a single Power-over-Ethernet (PoE) connection through existing conduits and pullboxes.

Installation of the camera will require no aiming or focusing of the camera assembly. The minimum VIVDS set-up system, as needed for detector setup and viewing of vehicle detections, shall consist of a field setup computer with application software and/or a video monitor with interface software built-in to the VIVDS processor unit. The field-setup computer as a minimum, shall have an Ethernet port for connection to the MVP.

The camera assembly shall be capable of accurate detection when mounted greater than 30 feet above the road surface and up to 150 feet from the stop bar.

The system installation shall be done or supervised by technicians that have been trained and certified by the manufacturer.
All equipment shall be installed and wired in a neat and orderly manner in conformance with the manufacturer's instructions. The camera shall be affixed to the support structure in accordance with the manufacturer's instructions to provide the optimal field of detection.

Cable to be installed in conduit shall be pulled with a minimum of dragging on the ground or pavement. This shall be accomplished by means of reels mounted on jacks or approved devices conveniently located for unreeling cable directly into the conduit. Powdered soapstone, talc, or other approved lubricants shall be used when inserting cable into the conduit. Cable shall be pulled through conduit by means of a cable or cables. Wiring within junction boxes and cabinets shall be neatly arranged.

When conductors and cables are pulled into conduits, all ends of conductors and cables shall be taped to exclude moisture, and shall be so kept until they are properly connected inside the traffic control cabinet.

Conductors entering the traffic control cabinet shall be neatly dressed and laced along the base and back of the traffic cabinet to the Video Detector Communications Interface Panel. Spare conductors (if any) shall be tied together with their ends taped. At least 2 feet of slack shall be left for each conductor in the traffic cabinet at the Video Detector Communications Interface Panel.

Routing of the Video Detector Cable shall provide a drip loop for protection of the camera and connector. The Video Detector Cable shall be installed continuous with no splices from the Camera/Integrated Machine Vision Processor (MVP) to the Video Detector Communications Interface Panel in the traffic control cabinet.

Removal and disposal or abandonment of existing inductance loop wiring and lead-in wiring will be considered incidental to other Contract items.

307-16 STREET LIGHT CONSTRUCTION

Add the following section:

307-16.9 INSTALLATION AND TESTING

a) Contractor shall furnish and install the lighting fixtures per the requirements of the City of San Leandro, and as indicated on the Drawings. Arms and brackets for luminaires shall be securely fastened in place. Banner arm attachments shall be factory welded to pole.

b) All in-grade fixtures shall be installed level and accurately aimed to light median palm trees. Use concrete backfill about base of fixture to stabilize and secure fixture. Nighttime aiming of fixtures is required, in the presence of, and satisfaction to, the City engineer.

c) Street lights shall be installed perfectly plumb on their concrete bases, secured to anchor bolts with double sets of washers and nuts. Install non-shrink ground under base plate, minimum 1" thick. Adjust final position of pole base plates so that twin-arms are perfectly aligned with face of curbs, and with the other pole lights on street.

d) Contractor shall keep poles protected during installation with paper wrapping, Any mars, nicks or scratches in paint finish shall be repaired by Contractor using factory supplied touch up paint..

e) Contractor shall connect all lighting fixtures to lighting controls in new meter service pedestals as indicated on Drawings.

f) All conductor splices shall be completely watertight, utilizing Scotchcast 85 series electrical splicing kits with molds, resin and tapes; or by using Method "B" splice method per Standard Specifications. Splices shall be prepared as recommended by the manufacturer.

g) All conduits entering underground pullboxes shall have wide flange end bells. Upon completion of the installation of the wire in the conduits, all conduit ends shall be sealed watertight with non-hardening, non-oxidizing and non-corrosive sealing compounds, Permagum, or equal.

h) Contractor shall test the complete installation in the presence of the City Engineer or his representative, upon completion of the project, including tests for ground continuity, unintended grounds, operation and adjustment of lighting controls, and conductor insulation.

Nighttime photometric testing shall be required of street and sidewalk to demonstrate to City Engineer that lighting performs in accordance with computer based photometric scans. Maximum deviations allowed shall be +/- 15%

308-2 EARTHWORK AND TOPSOIL PLACEMENT

308-2.2 TRENCH EXCAVATION AND BACKFILL

Trench excavation and backfill shall conform to the provisions of Section 308-2.2, "Trench Excavation and Backfill," of the Standard Specifications and these Special Provisions, City Standard Plans "Trench Backfill," (Dwg. 120A, Case 3101) and "Irrigation Trench," (Dwg. 400, Case 3101). Unless shown otherwise on the Plans, the minimum depth of cover over pipelines and conduits shall be as follows:

Street Classification	Pressure Mains	Non-Pressure Irrigation Laterals	Electrical Conduits
Arterial	42"	42"	42"
Collector	36"	36"	36"
Local & Parking Lots	36"	36"	36"
Sidewalks	24"	24"	24"
Elsewhere	24"	18"	24"

Pipe bedding shall be common sand conforming to the provisions of Section 308-5.2.1, "General," of the Standard Specifications.

All irrigation facilities shall be installed in a 100 mm (4") min. PVC sleeve under all paved areas.

Rocks in native material over 40 mm in size shall not be permitted in backfill. Backfill shall be mechanically compacted in accordance with Subsection 306-1.3.2. Jetting or flooding of trench or excavation backfill shall not be permitted.

Where it is necessary to excavate adjacent to existing trees, the Contractor shall use all possible care to avoid injury to tree roots. Excavation in areas where 50 mm (2") and larger roots occur shall be done by hand. Roots 25 mm (1") and larger in diameter shall be painted with two coats of tree seal, or equal. Trenches adjacent to trees shall be closed within twenty-four (24) hours; and when this is not possible, the side of the trench adjacent to the tree shall be kept shaded with burlap or canvas.

Return within one year after completion of work to repair any settled areas over trenches in paved areas and fill settled areas over trenches with topsoil in landscaped areas, to match adjacent finish grade.

308-2.3 TOPSOIL PREPARATION AND CONDITIONING

308-2.3.2 FERTILIZING AND CONDITIONING PROCEDURES

Fertilizing and conditioning procedures shall conform to the provisions of Section 308-2.3.2, "Fertilizing and Conditioning Procedures", of the Standard Specifications and these Special Provisions.

Imported planting topsoil at Medians and other areas where soil level is not at proper grade.

a. Scarify or till subgrade to 6" to achieve 12" of loosened soil after topsoil and amendment are placed. Entire surface should be disturbed by scarifications. Do not scarify within drip line of existing trees to be retained. Do not scarify when soil is wet.

b. Place 6" of imported planting topsoil in 3" lifts. Mix each lift into 2" of soil below it.

Soil Preparation: Amend Existing Site Soil:

c. Test soil per section 212-0

d. Scarify or till subsoil or topsoil subgrade to a depth needed to achieve 12" of loosened soil after amendment is placed. Entire surface should be disturbed by scarification. Do not scarify or till within drip line of existing trees to be retained. Do not scarify or till when soil is wet.

e. Amend to meet required organic matter content: Apply non-synthetic fertilizers and other amendments, including appropriate quantities of compost to bring soil organic matter content to a minimum of 5%, as specified in the soils analysis report, to the surface of the aerated soil/subgrade. For bid purposes assume 2" quality compost applied to all areas to receive planting. Mix to the depth required to achieve 8 inches of settled soil/amendment mix.

308-2.3.3 STOCKPILED EXISTING TOPSOIL

f. Remove and store horticulturally suitable topsoil: Identify areas to be paved as a place to store topsoil. Remove at least the top 6 inches of horticulturally suitable topsoil before grading. Do not remove and store subsoil. Store in piles less than or equal to 6 feet high. Protect stored topsoil from erosion.

g. Contractor shall provide soil test and recommendations per section 212-0.

h. Scarify or till subgrade to depth needed to achieve 12" of loosened soil after stockpiled topsoil and amendment are placed. Entire surface should be disturbed by scarifications. Do not scarify within drip line of existing trees to be retained. Do not scarify when soil is wet.

i. Place stockpiled topsoil as required.

j. Amend as specified in the soil analysis report to meet required organic matter content. Apply non-synthetic fertilizers and other amendments, including appropriate quantities of compost to bring soil organic matter content to 5%, as specified in the soils analysis report, to the surface of the aerated soil/subgrade. For bid purposes assume 2" quality compost applied to all areas to receive planting. Mix to the depth required to achieve 8 inches of settled soil/amendment mix.

308-2.4 Finish Grading:
Add the following:
Rake beds to smooth and remove surface rocks larger than 1 inch diameter. Topsoil consisting of amended native topsoil and imported topsoil, shall be placed, as needed, to bring existing grades to final grades, and all areas shall be hand-graded and smoothed. Finished surfaces shall be uniform and smooth as directed by the Engineer.

Topsoil shall be obtained from sources within the project and supplemented with imported topsoil as required to provide adequate amounts of topsoil as shown on the drawings. Native topsoil shall comply with Section 212.1.1.5 "Stockpiled Soil," of the Standard Specifications and be utilized only if approved by the Engineer. Native topsoil shall be amended in accordance to these special provisions. Imported topsoil shall comply with Section 212-1.1.2, "Import Topsoil," of the Standard Specifications.

Finished grades shall provide for surface drainage of planting areas and shall be twenty-five millimeters (25 mm) {1-inch} below adjacent pavement or tops of curbs after settlement.

Grade soil surface at edges of planting areas within 2' of adjacent to hardscape and drain inlets to an elevation of 3-4" below the finished surface of adjacent hardscape to allow adequate room for mulch.

Finish grading shall direct water away from all structures and walkways. Contractor shall obtain approval by Engineer for finish grades before any planting begins.

Full compensation for furnishing and mixing Imported Topsoil and any associated work related to Imported Topsoil shall be considered as included in the contract price paid for the various plants involved and no additional compensation will be allowed therefor.

308-4 PLANTING Planting shall conform to the provisions of Section 308-4, "Planting," of the Standard Specifications and these Special Provisions.

308-4.1 GENERAL

The following paragraphs are inserted after the second paragraph of Section 308-4.1, "General," of the Standard Specifications.

308-4.1.1 SITE CONDITIONS

Environmental Requirements:

1. Perform actual planting during those periods when weather and soil conditions are suitable in accordance with locally accepted horticultural practice.
2. Perform grading and soil preparation only during the period when beneficial and optimum results may be obtained. If the moisture content of the soil should reach such a level that working it would destroy soil structure, suspend spreading and grading operations until the moisture content is increased or reduced to acceptable levels and the desired results are likely to be obtained.

Field Measurements:

1. Scaled dimensions are approximate. Before proceeding with planting, carefully check and verify dimensions and immediately inform the Engineer of discrepancies between the Contract Documents and actual conditions.

308-4.1.2 EXISTING CONDITIONS

Protect existing improvements and existing trees unless they are scheduled to be removed.

308-4.1.3 CLEAN UP

Keep all areas of work clean, neat and orderly at all times. Keep all paved areas clean during planting and maintenance operations. Clean up and remove all deleterious materials and debris from the entire work area prior to beginning of landscape maintenance period to the satisfaction of the Engineer.

308-4.1.4 WORK SCHEDULE

In general, the work shall proceed as rapidly as possible, consistent with seasonal limitations for planting work.

308-4.7 SAMPLES AND TESTS

The Engineer reserves the right to take and analyze samples of materials for conformity to specifications at any time. Contractor shall furnish samples upon request by the Engineer. Rejected materials shall be immediately removed from the site at Contractor's expense. The cost for testing materials not meeting the requirements of the Contract Documents shall be paid by Contractor.

The Contractor's attention is directed to the provisions of Section 6-8, "Completion and Acceptance," of these special provisions. "Partial Acceptance" shall not relieve the contractor of his responsibility for the condition of all plantings until acceptance.

308-4.2 PROTECTION AND STORAGE Protection and storage shall conform to the provisions of Section 308-4.2, "Protection and Storage," of the Standard Specifications and these Special Provisions.

Contractor shall protect improvements installed under this Contract from all damage including vandalism, throughout the Contract period. Damaged items shall be repaired or replaced at the Contractor's expense and to the satisfaction of the Engineer.

308-4.3 LAYOUT AND PLANT LOCATION Layout and Plant Location shall conform to the provisions of Section 308-4.2, "Layout and Plant Location," of the Standard Specifications and these Special Provisions.

Paragraph 1 of Section 308-4.3, "Layout and Plant Location," is revised as follows:

Detailed layout within the planting areas shall be performed by the Contractor and approved by the Engineer prior to installation of irrigation system and before planting. Any required adjustments to plant locations and associated irrigation equipment shall be made at this time.

308-4.5 TREE & SHRUB PLANTING Tree and shrub planting shall conform to the provisions of Section 308-4.2, "Tree and Shrub Planting," of the Standard Specifications and these Special Provisions.

Paragraphs 1 and 4, and sub-paragraphs 5-1 and 5-3 of Section 308-4.5 are revised as follows:
Use all means necessary to protect plant materials before, during and after installation. Protect plants from sun, wind and dehydration during transport to site and prior to planting. No planting shall occur under unfavorable weather conditions as determined by the Engineer.

Trees: Carefully remove all canned stock from containers, taking care not to break or crack the root ball. Loosen bottom and sides of root ball to prevent root bound condition. Trim damaged, broken or encircling roots. Set tree in hole so that it is upright, plumb and faced to give the best appearance and relationship to the sidewalk and street. Place backfill mix in 150 mm {6-inch} layers. Firm each layer to settle and eliminate all air pockets. Hand water thoroughly immediately after planting to help settle in backfill.

Prepare Planting Holes

Planting holes for plants shall be excavated to the minimum dimensions shown on the plans. Holes shall be dug by hand. Locate planting holes per planting plans and confirm final locations with Engineer in the field. Bring any conflict, such as underground utility lines, to the attention of the Engineer prior to excavating holes or planting for review and or adjustment.

In the event that underground construction work or obstructions are encountered in any plant pit excavation work, alternate locations may be selected by the Engineer. Where these locations cannot be changed, contractor shall coordinate the relocation or removal of the obstruction with the City to a depth of not less than 1 m {3 feet} below grade and no less than 150 mm {6-inch} below the bottom of the root ball when the plant is properly set at the required grade.

Test each planting hole for drainage by filling holes with water. Let holes drain for at least 4 hours. Any holes not free of standing water shall be brought to the attention of the Engineer. Do not proceed with planting operations until the planting hole drainage has been approved by the Engineer. All planting holes shall be protected per OSHA Standards at the end of each work day.

Just prior to planting, roughen the bottom and sides of the plant hole so that there is not a slick interface.

Full compensation for preparing planting holes including the excavation coordination for the relocation of planting materials if obstructions are found, and drainage testing for each planting hole shall be considered as included in the contract unit prices paid for the various plants involved and no separate payment will be made therefor.

Planting Preparation

The plants listed shown on the plans have been selected and spaced to comply with recommendations and requirements of the Bay-Friendly Landscaping scorecard. A requirement of the Bay-Friendly Landscape Scorecard is that plants shall be able to reach mature size without shearing. Adjustments to plant placement and spacing shall be reviewed and approved in the field by the City Engineer.

Contractor shall incorporate compost with excavated soil from the plant pit at a ratio of 1 part compost to 2 parts soil, or as recommended by the soils report which shall take precedence. Include other amendments as recommended by the soils report per section 212.0.

Rough grades shall be approved by the Engineer prior to commencing planting preparation work. All ground areas to be planted shall be cleaned of all weeds and debris prior to any soil preparation or grading work. Noxious weeds and grasses shall be removed by the roots whenever they are found at any stage of the work. Weed debris shall be disposed of off the site.

Do not perform any planting preparation work in areas where the soil is contaminated with cement, chemicals or other construction debris. Bring such areas to the attention of the Engineer and do not proceed until the contaminated soil is removed. Contractor shall remove contaminated soil to the Engineer's satisfaction at no additional cost to the City.

Soil shall not be worked on when moisture content is so great that excessive compaction will occur, nor when it is so dry that dust will form in air or that clods will not break readily. Water shall be applied, if necessary, to bring soil to an optimum moisture content for tilling and planting.

Dig circular pits to the width and depth, as shown on plans with slightly sloping sides. Excavate pit so that the crown of the root ball after planting is 25 mm (1") above finish grade for the 1-gallon plants. After pits are dug, scarify the sides and bottom of pit 75 mm (3") for root penetration. Any plant with a broken or cracked root ball before or during planting shall not be planted.

Incorporate compost with excavated soil from the plant pit at a ratio of 1 part compost to 2 parts soil, or as recommended by the soils report, or as recommended by the soils report which shall take precedence. Include other amendments as recommended by the soils report per section 212.0.

Deep Watering Tubes

Deep watering tubes shall be installed in tree planting holes in accordance with the details shown on the plans. Deep watering tubes shall be installed vertically and aligned with the curb and sidewalk.
Full compensation for furnishing and installing deep watering tubes including drain rock, plastic cap, filter fabric, excavation and backfill shall be considered as included in the contract unit prices paid for the various plants involved and no separate payment will be made

Headers and Stakes

Headers (2 x4) and stakes shall be of a recycled plastic (brown color) as manufactured by Epic Plastics or Approved equal. www.epicplastic.com

Tree Stakes

Plant staking and guying shall conform to the City Standard Plan, "Street Tree Planting and Staking", (Dwg. 434, Case 3101).

Root Barrier
Root barriers shall be installed in all areas where trees are planted within 60" of paving or other hardscape elements such as walls, curbs, and walkways unless otherwise shown on drawings. Root barriers shall be installed in a linear fashion closest to the hardscape edge and shall not wrap around tree root ball and limit root growth. Install per manufacturer's instructions.

In a defined tree well, the root barrier shall wrap around the perimeter of the tree well, placed adjacent to the paved surface or back curb. It is the intent that the tree well size be left available for maximum root development.

In a linear planting strip, the root barrier shall be placed in a linear fashion next to the paved surface and at back of curb for a minimum length of 8'.

308-4.7 GROUND COVER, AND SHRUB PLANTING Ground cover planting shall conform to the provisions of Section 308-4.7, "Ground Cover and Shrub Planting," of the Standard Specifications and these Special Provisions.

Paragraph two (2) of Section 308-4.7 is revised as follows:
Groundcovers shall be from 1-gallon containers and shall be installed at the spacing indicated on the drawings. Evenly spaced and stagger in rows. Place each plant in a pit so the root lies free without doubling and so the roots are planted vertically. Firm the soil around each plant and water the area immediately to avoid drying out.

Paragraph four (4) of Section 308-4.7 is revised as follows:
Following planting, ground cover and areas shall be regarded to restore smooth finish grade and to ensure proper surface drainage. A 75 mm (3") inches minimum layer of mulch shall be spread over the planted areas. Watering shall begin immediately following mulching.

Paragraph six (6) of Section 308-4.7 is deleted.

308-4.8.5 MULCHING Mulching shall conform to the provisions of Section 308-4.9.3, "Seeding and Mulching," of the Standard Specifications and these Special Provisions.

CARDBOARD SHEET MULCH; After the soil preparation has occurred and 5 gallon and larger plant materials have been planted the "sheet mulch" shall be installed. Apply a minimum of two layers of 100% recycled B flute cardboard as a biodegradable weed barrier to the entire planting area, completely covering all existing soil and remaining herbaceous vegetation, if any. Wet cardboard while applying to prevent it from blowing away. Sheets of cardboard shall overlap a minimum of 8".Cardboard shall abut directly against edge of pavement, curbs, boulders or other site features. Cardboard shall not cover tree and shrub root crowns. Excess cardboard shall be folded under itself when abutting against hardscape objects or root crowns areas, as opposed to being cut, avoid excessive cardboard scraps. This folding under process is greatly aided when the cardboard is wet. All cardboard scraps shall remain separated from other construction debris and shall be disposed at the local recycling facility.

Full compensation for weed barrier sheet mulch furnishing and installation shall be considered as included in the contract unit prices paid for the plants involved and no separate payment will be made therefor.

Mulch Application
Apply 3" minimum depth of mulch on top of the cardboard layer in all planting areas. Keep root crowns of all plants clear of compost, mulch and debris.

Full compensation for mulch furnishing and installation shall be considered as included in the contract unit prices paid for the plants involved and no separate payment will be made therefor.

Mulch shall be fibrous enough to create interlocking mass to prevent pieces from being blown by the wind or displaced by rainwater. When installed, mulch layer shall be of uniform depth, equally distributed over planting bed, and have a level surface without clumps. If installed mulch is blown by wind or displaced by rainwater, the mulch shall be replaced with a mulch material acceptable to the Engineer at the Contractor's expense and to the satisfaction of the Engineer.

308-4.9 MAINTENANCE PERIOD

Contractor shall provide maintenance for all trees planted under this Contract for 180 calendar days beginning after the Final Planting Inspection.

Maintenance of new planting shall consist of watering, cultivating, applying pre-emergence weed controls, and weeding, mulching and resetting plants to proper grades or upright position. Replace, without cost to the Owner, all dead trees and all trees not in a vigorous, thriving condition, as determined by the Engineer during and at the end of the Maintenance Period.

308-4.10 WARRANTY PERIOD

Contractor shall warrant that all trees planted under this Contract will be healthy and in flourishing condition of active growth one year from date of Final Acceptance.

Any delay in completion of planting operations, which extends the planting into more than one planting season, shall extend the Warranty Period correspondingly.

Replace, without cost to the Owner, all dead trees and all trees not in a vigorous, thriving condition, as determined by the Engineer during and at the end of Warranty Period. Trees shall be free of dead or dying branches and branch tips, and shall bear foliage of a normal density, size and color. Replacement shall closely match size and habit of adjacent specimens of the same species and shall be subject to all requirements of the Contract Documents.

Trees exhibiting conditions, which are determined by the Engineer as being unacceptable due to actions during planting and maintenance operations, shall be replaced by Contractor at no additional cost to the Owner.

Contractor shall not be held responsible for failures due to neglects by the Owner, or vandalism, abuse or damage by others, or unusual phenomenon or incidents above and beyond the Contractor's control, during Warranty Period. Report such conditions to the Engineer in writing.

308-5 IRRIGATION SYSTEM INSTALLATION Irrigation system installation shall conform to the provisions of Section 308-5, "Irrigation System Installation," of the Standard Specifications and these Special Provisions.

308-5.1 GENERAL

Paragraphs 2, 3, 4 and 5 of Section 305-5.1, are revised as follows:

Stake location of all plant material shown on planting plans for approval by Engineer prior to installation of irrigation system. Any required adjustments to plant locations and associated irrigation equipment shall be made at this time. Full compensation for any required adjustments to irrigation system to accommodate changes in plant locations shall be included in the prices for the various Contract Items of work involved. No additional compensation will be allowed therefore.

Due to scale of the drawings, it is not possible to indicate all offsets, fittings, sleeves, etc. which may be required. Carefully investigate the structural and finished conditions affecting all of this work accordingly. Furnish such fittings, etc., as may be required to meet such conditions. Drawings are generally diagrammatic and indicative of the work to be installed. The work shall be installed in such a manner as to avoid conflicts between existing and Contract Installation of irrigation systems, planting, existing trees, architectural features, above and below grade utilities, hydrants, drainage system, etc. Modify irrigation system to prevent blockage of sprinkler irrigation patterns; to prevent over spray and excessive runoff onto walkway and parking areas; and to provide uniform and full irrigation coverage of areas to be irrigated prior to planting.

Trim and/or add heads as required to spray around light poles, signposts and other objects, which obstruct spray pattern. Adjust heads as required as a result of plant relocations to accommodate clearances from utility structures, streetlights, etc. Modifications shall be reviewed by the engineer prior to installation. All costs associated with modifications to the irrigation system and verification of utility and underground structure locations including potholing shall be included in the prices for the various Contract items of work involved and no additional compensation will be allowed therefore. Damage to utility lines, underground structures, etc., shall be repaired at the Contractor's expense to the satisfaction of the Engineer.

Water service connections shall be coordinated with the local utility company and shall be made at locations shown on plans and shall be included in the prices for the various Contract items of work involved. No additional compensations will be allowed therefore.

Electrical service connections shall be coordinated with the local utility company and shall be made at locations shown on the plan. Contractor shall verify location of electrical service in the field with the Engineer and a representative from the local utility company. Contractor shall furnish and install conduit in sand envelope, and line voltage conductors for electrical service connection between irrigation controller and utility service connection point. Cover shall be 600 mm (24") minimum in planted areas and 900 mm (36") minimum under roads and parking lots. Line voltage conductors shall conform to Subsection 212-3.2.2, "Conductors," of these Special Provisions. Notify the Engineer at least four (4) weeks prior to the time the electrical services are required. Furnish all labor and materials required to make the electrical service connection. Full compensation for the electrical service connection shall be included in the prices for the various Contract items of work involved and no additional compensation will be allowed therefore.

Where applicable, subgrade for trench resurfacing in paved areas shall conform to Section 301 and the pavement reconstruction shall comply with the applicable provisions of Section 302, and conform to the City standard details "Trench Backfill," (Dwgs. 120A and 120B, Case 3101), "Trench Resurfacing," (Dwgs. No. 122A and 122B, Case 3101) and "Irrigation Trench," (Dwg. No. 400, Case 3101).

Trenches through paved areas shall be resurfaced in accordance with Standard Plans. Unless permanent pavement is placed immediately, temporary resurfacing shall be placed in accordance with the provisions of Section 306-1.5.1, "Temporary Resurfacing," of the Standard Specifications. The lump sum price bid for Landscaping and Irrigation shall include full compensation for placing, maintaining, removing and disposing of temporary resurfacing.

A reduced, color-coded per station "As Built" record drawing, laminated in plastic, shall be placed in the Irrigation Controller Enclosure.

308-5.2 IRRIGATION PIPELINE INSTALLATION Irrigation pipeline installation shall conform to the provisions of Section 308-5, "Irrigation System Installation," of the Standard Specifications and these Special Provisions and City Standard Plan "Irrigation Trench," (Dwg. 400, Case 3101).

Pipe shall be bedded in 100 mm (4") of sand on all sides of the pipe, 100 mm (4") clearance shall be maintained between all pipes and/or conduits, stacking of pipes strictly prohibited.

308-5.2.3 PLASTIC PIPELINE Plastic pipeline shall conform to the provisions of Section 212-2.1.3, "Plastic Pipe For Use with Solvent Weld Socket or Threaded Fittings," of the Standard Specifications and these Special Provisions.

All PVC pipe 1-1/2 inch diameter and smaller shall be cut with "PVC CUTTERS." Sawing of said pipe will not be allowed.

308-5.3 INSTALLATION OF VALVES, VALVE BOXES AND SPECIAL EQUIPMENT
Installation of valves, valve boxes and special equipment shall conform to the provisions of Section 308-5.3, "Installation of Valves, Valve Boxes, and Special Equipment," of the Standard Specifications Standard Plans and these Special Provisions, and City Standard Plans "Water Valve Installation," (Dwg. 414, Case 3101) and "Remote Control Value," (Dwg. 418, Case 3101), "Quick Coupler Valve with Ball Valve," (Dwg. 416, Case 3101), and "Backflow Preventer Assembly, (3" and Smaller)," (Dwg. 408, Case 3101), and "Backflow Preventer Enclosure," (Dwg. 410, Case 3101).

Gate valves, ball valves, and remote control valves shall be installed in a covered valve box conforming to the provisions of Section 212-2.2.7, "Valve Boxes," of these Special Provisions.

Remote control valves shall be isolated by a ball valve as detailed on City Standard Plan "Remote Control Valve" (Dwg. 418, Case 3101).

Quick-coupler valves shall be set to the grades shown on the plans. Quick-coupler valves shall be isolated by a ball valve installed on a triple-swing joint in a valve box as detailed on Standard Plan (Dwg. 416, Case 3101).

Backflow Preventer shall be EBMUD certified tested at the Contractor's expense.

Valve and valve box covers shall be identified as follows:

Remote control valves shall be identified by the appropriate letters and numbers (controller and station number). The labels shall consist of integrally molded or heat embossed letters and numbers on an ultraviolet resistant polyurethane tag. The letters and numbers shall be black on yellow polyurethane material. The polyurethane tag labels shall be connected to valve stem with nylon cable ties.

The labels shall be minimum of 50 mm (2 inches) by 75 mm (3 inches) by 3 mm (1/8 inch) thick. The letters and numbers shall be a minimum 28 mm (1-1/8 inch) high. Polyurethane tags shall be neatly trimmed into rectangular shapes.

308-5.4.2 LOCATION, ELEVATION AND SPACING
Paragraph 2 of Section 308-5.4.2 is revised as follows and paragraphs 3 and 4 are deleted.

Irrigation sprinkler heads shall be installed in accordance with City Standard Plan, "Swing Joint Irrigation Sprinkler Head," (Dwg. No. 420, Case 3101)

308-5.5 AUTOMATIC CONTROL SYSTEM INSTALLATION Automatic control system installation shall conform to the provisions of Section 308-5.5, "Automatic Control System Installation," of the Standard Specifications and these Special Provisions, and City Standard Plan.

Control, neutral and spare conductors between the controller and remote control valves shall be installed in conduit. Conduit shall be installed in a 100 mm (4") PVC sleeve pipe along with pressure supply or

lateral lines under paved areas. If conduit needs to be installed separate, it shall be protected by its own sleeve and occupy the same trench along with pressure supply or lateral lines. No stacking of pipe or conduit is permissible. Conduit shall be installed in accordance with Section 308-2.2, of the Standard Specifications, these Special Provisions and the City Standard Plan "Irrigation Trench," (Dwg. 400, Case 3101).

Direct burial of conductors shall not be permitted.

Low voltage as used in this section shall mean 36 volts or less.

Low voltage conductors shall be #14 with a #12 common ground conductor. A spare conductor shall be supplied to each RCV.

Each low voltage neutral and control conductor in each pull box and each valve box and each irrigation controller terminal shall be marked as follows:

Conductors terminations and splices shall be marked with adhesive backed paper markers or adhesive cloth wrap around markers, with clear heat shrinkable sleeves sealed over the markers.

The identification on the markers for control conductors shall be the appropriate irrigation controller station number and the appropriate number or letter designation of the irrigation controller. The identification on the markers for neutral conductors shall be the appropriate number or letter designation of the irrigation controller.

An expansion curl shall be provided within 900 mm (36") of each wire connection and within each splice/pull box. Expansion curls shall be formed by wrapping at least 900 mm (36") of conductor around a 25 mm (1") diameter pipe, then withdrawing pipe. Expansion curl shall be of sufficient length at each splice connection at each electric control valve, so that in case of repairs, the valve bonnet may be brought to the surface without disconnection of the control and neutral conductors. Control, neutral and spare conductors shall be installed loosely in conduits without stress or stretching of conductors.

Field splices between the automatic controller and electrical control valves will not be allowed without approval of the Engineer. Boxes for splices must be installed in earth area.

Splices for low voltage control, neutral and common conductors shall be made in a splice/pull box with Ewing DS400 Dri-splice connectors or approved equal per City Standard Plan "Valve/Pull/Splice Box Intallation" (Dwg. 412, Case 3101). Use one splice per connector sealing pack.

LOW VOLTAGE CONDUCTORS

A single neutral conductor shall be installed from the controller to the control valves in series.

For each control valve, install separate control conductors from the controller to each control valve serviced by the controller.

A single spare conductor shall be installed from the controller and stubbed into each valve box in series. The spare conductor is not to be connected to any equipment at the time of installation.

HIGH VOLTAGE WIRING FOR AUTOMATIC CONTROLLER

Prior to acceptance of project by Engineer, Contractor shall install a reduced color coded per station "As-Built" record drawing laminated in plastic, mounted to inside door of irrigation controller cabinet. Do not cover operational data printed on equipment enclosure.

308-5.6.2 PIPELINE PRESSURE TEST Pipeline pressure tests shall conform to the provisions of Section 308-5.6.2, "Pipeline Pressure Test," of the Standard Specifications and these Special Provisions.

Pressure tests of mains shall be six (6) hours in duration and read 862 kPa (125 psi) and pressure tests of laterals shall be two (2) hours in duration and read 689 kPa (100 psi).

The following paragraphs are added to Section 308-5.6.2 "Pipeline Pressure Test," of the Standard Specifications:

Pressure test all piping under paving prior to the paving work.

All exposed pipe, fittings, valves and joints shall be carefully examined during the pressure test. Any cracked or defective pipe, fittings, or valves discovered during the test shall be removed and replaced with sound material and test repeated until the system is proved satisfactory to the Engineer.

Sprinkler heads and bubblers shall be installed only after flushing of the system and pressure testing has been accomplished to the complete satisfaction of the Engineer.

308-5.6.4 OPERATIONAL TEST Operational tests of the automatic control system shall conform to the provisions of Section 308-5.6.4, "Operational Test," of the Standard Specifications and these Special Provisions.

The functional test for each irrigation controller and associated automatic irrigation control system shall be performed prior to planting of trees, shrubs and ground cover.

Prior to acceptance of the work, the Contractor shall cause the following tests to be made:

1) For continuity of each circuit.
2) For grounds in each circuit.
3) A functional test in which it is demonstrated that each and every part of the system functions as specified or intended herein.

The functional test shall consist of not less than 5 consecutive working days during which time each irrigation controller shall have completed at least 10 complete cycles automatically for each station controlled by said controller. Length of the watering cycles shall be determined by the Engineer. If unsatisfactory performance of the system develops, the condition shall be corrected and the test repeated until continuous satisfactory operation for 5 consecutive working days is obtained.

308-6 MAINTENANCE AND PLANT ESTABLISHMENT

Paragraph five (5) of the Standard Specifications shall be amended as follows:

Landscape and landscape irrigation systems shall be fully maintained for a period of 180 calendar days after acceptance by the City Council or Engineer as provided in Section 6-8, "Completion and Acceptance," of these Special Provisions.

The plant establishment period shall begin upon acceptance and approval of the entire project by the City Engineer. Maintenance shall be in conformance with Section 308-6, "Maintenance and Plant Establishment," of the Standard Specifications with the following amendments:

The Plant Establishment Work shall consist of: maintenance and replacement of landscaping and landscape irrigation equipment including; watering, weeding, spraying, pruning, fertilizing, treatment of diseases, insects and pests, repair of erosion and vandalism and incidental work necessary to establish the

landscaping to the satisfaction of the Engineer and per the Bay Friendly Model Maintenance Specifications included in these specifications.

Contractor shall meet with the Engineer on a quarterly basis during the Plant Establishment Period to review the work. Contractor shall submit semi-annual reports within 10 working days following every second field meeting. The Plant Establishment Work may be extended by the City if planted areas are improperly maintained, or other corrective work is not completed per the following. Periodic unscheduled inspections may be made by the Engineer to ensure that proper maintenance is being conducted. Contractor will be given three (3) calendar days to complete any corrective action.

Contractor shall record all maintenance activities and observations in a monthly maintenance log book that shall be available for review at all meetings. The log book shall be submitted to the City on an annual basis. Log book shall be organized and shall as a minimum requirement include, but not be limited to the following information:

Plant Conditions: Contractor shall examine conditions of each plant, planting basin, staking, watering tubes, weed growth and mulch. Contractor shall record all replanting of plants and pest or disease control measures.

Watering: Contractor shall examine the soil moisture around each plant to ensure adequate moisture. Contractor shall record all watering applications and include an approximation of amounts applied. Modifications to the watering schedule shall be recorded.

Weed and Debris Control: Keep all planting areas free from weeds, paper, glass, debris and trash during the entire duration of the contract. Contractor shall clear the planting areas a minimum of once a week. (Refer to BFL Guidelines for the removal and disposal)

Pruning: Selective pruning. Plants shall be pruned selectively to remove individual stems or branches that extend beyond the natural conformation of the plant to a lateral branch or at the point of attachment. Woody groundcovers shall be selectively pruned to control growth towards pavements rather than edged.

Hedging and shearing. Contractor shall not sheer plants into formal shapes as this destroys the natural form of the plant and generates excessive waste.

Tree pruning shall be performed only by trained, experienced personnel. An I.S.A. Certified Arborist or Tree Worker is to be present at all times during pruning.

Utilize Integrated Pest Management- see section 212-1.11

Adjustments: Fill in any soil subsidence that may occur, replant trees and or shrubs that may have settled. Replace mulch materials and restore plant saucers. Adjust and repairing tree staking materials. Perform other operations as required to establish healthy viable plantings.

Water Management: All plants shall be irrigated to provide adequate water to maintain an attractive, green, healthy and moderate growth rate during its growing season. The Contractor shall comply with the water budget approach to irrigation scheduling to match plant need with water application and avoid over-irrigation.

Mulching: Contractor shall maintain a minimum of 3” of mulch at all times over soil surface that is not covered by vegetation. Keep mulch 6” away of tree trunks and 4” away from shrub stems. Restore plant basins.

Watering: Contractor shall provide water as needed for plant health. Watering of plant materials should encourage deep rooting by watering in a manner that the soil profile is wetted to a continuous depth of at least three inches when tested with a soil probe.

Period and Frequency of Watering	Normal Year ET for Area (Oakland CIMIS data)		
	cm / month	Water Requirement ñ cm/ month (50% of ET)	
Summer season (May-Aug)	Twice a week	12.95-15.24	6.35-7.62
Fall until rains (Sep - Nov)	Once a week unless sufficient rainfall	10.16-3.56	6.10-3.05
Rainy season (Nov - Apr)	Every other week unless sufficient rainfall	2.29-9.91	1.27-5.08

The Contractor shall recognize that these guidelines are provided for his convenience and shall be responsible for watering plants in a manner that will maintain plant health and vigor and promote plant establishment growth. Frequency of watering is subject to reduction if plants appear to be suffering from excessive water or increase if the majority of the plants appear to be stressed and in danger of perishing as determined by the Engineer. Contractor shall monitor evapotranspiration (ET) rate as provided through the State California Irrigation Management Information System (CIMIS) and increase or decrease the rates of watering appropriately.

Pruning: Do not top trees. All pruning shall be to the standards set by the International Society of Arboriculture (ISA) and American National Standards Institute (ANSI) to maintain adequate clearance for vehicles, as well as upon directed by the Engineer. All pruning shall be reviewed by the Engineer prior to work being done. All pruned vegetation shall be chipped on site and used to supplement the existing mulch areas.

Contractor shall replace the plant stakes with a larger diameter/ longer height stake to provide adequate support to the plants during the plant establishment period as directed by the Engineer. All stakes shall be removed at the end of the Plant Establishment Period. Plant stakes shall be removed at any time during the plant establishment period when ordered by the Engineer. All nursery stakes and ties shall be removed from the plant materials at time of installation.

Weeds within planter strips and planting areas shall be controlled by hand pulling. Keep all planted areas clean and free of weeds, rubbish, and debris at all times. The use of chemical weed killers is not allowed without prior approval by the Engineer.

Trim all groundcovers at the edge of sidewalk, curb and driveways using appropriate tools. No gas powered edgers or leaf blowers will be operated before 9:00 AM and after 4:00 PM. All debris trash, branches, green waste and ground cover trimmings generated by contractor's activities shall be hauled away from the site and disposed of properly.

Monitor all plant materials for insects, pests and disease on a weekly basis and establish acceptable levels of Integrated Pest Management with the Engineer. Utilize the least toxic method of effective control. All use of chemicals shall be by qualified, licensed personnel following State regulations and manufacturer's instructions and safety recommendations.

Planting shall be reviewed/maintained on a minimum of a weekly basis. More frequent maintenance may be required in order to maintain the healthy condition of the plants. Contractor shall at the end of maintenance work day inspect and clean sidewalks and other areas within the limits of work of soil, other debris or materials originating from the landscaped area or resulting from their plant establishment maintenance activities.

Thirty calendar days prior to the end of the Plant Establishment Period, Contractor shall request in writing a final review of the work by the City. If upon review, the plant material is in good healthy condition of

active growth, and all landscaped areas are weed free, and in a neat and orderly condition, final acceptance shall be given effective at the end of the designated period.

308-7 GUARANTEE

The Contractor's attention is directed to the provisions of Section 2-4, "Contract Bonds," of the Standard Specifications.

Contractor shall return within one year of completion of work to repair any settled areas over trenches in paved areas and fill settled areas over trenches with topsoil in landscaped areas, to match adjacent finished grade.

308-9 PALM TREE INSTALLATION

308-9.1- PALM TREE PLANTING Palm tree planting shall conform to the plans and the following Special Specifications.

308-9.2 GENERAL

Prior to any excavation or other work on the site, it shall be confirmed that there are no cables, conduits, utility lines, structures, features or conditions below or above ground that will be adversely affected or damaged in any way as a result of the installation. The following are recommendations; however it will be the contractor's responsibility to insure the survival of the Palm.

308-9.3 INSTALLATION The planting pit shall be dug with a minimal radius of 1 ft. greater than the radius of the rootball on all sides. Depth shall be a minimum of 1 ft. greater than the depth of the rootball.

Sides of planting pit shall be scarified before installation to eliminate glazing and facilitate rooting into the surrounding soil.

To monitor drainage needs a U-shaped 4 in. PVC perforated drainpipe wrapped in filter fabric shall be installed in the planting pit of each palm to a depth of approximately 1 ft. below the bottom of the rootball. The two openings of the pipe shall rise to just above grade and shall be equipped with removable grated covers (painted to match color of sand).

A vertical 18 in. diameter hole shall be augered in the center of the planting pit to a minimal depth of 3 ft. below the bottom of the pit. Fill the augered hole with ¾-inch drain rock to the level of the bottom of the plant pit.

Irrigation shall be provided by Drip System: Ten replaceable emitters (1 gal. per hr. each) shall be spaced evenly along a single loop of irrigation tubing located 3 in. away from the trunk on the soil surface. Bury the tubing and emitters under mulch or rocks if necessary.

Headers shall be installed per manufacturer's recommendations and as shown on the plans, to maintain a separation between the organic planting soil and the sand planting mixes.

Rootballs shall be backfilled with washed, sharp concrete sand, which has a minimum 0.50 mm particle size and minimum 200 in. per hr. infiltration rate after compaction. Sand shall be backfilled in layers and thoroughly settled with water to eliminate air pockets. Water shall be applied by means of a water-jet outlet at the end of an extension pipe long enough to reach the bottom of the planting pit.

Sufficient water shall be applied to supply each palm thoroughly with its irrigation needs at the time of planting. If the specified irrigation system is not in place at the time of installation, immediate provisions shall be made for the palm to be hand watered. The irrigation schedule shall be in accordance with details given in the maintenance specifications provided by the project palm specialist.

No fertilizers or amendments shall be applied at the time of installation.

Palm shall be planted with the tops of its rootball 2 in. above grade.

After the rootball have been backfilled, a 20 gal. fungicidal soil drench shall be applied to each palm. The drench shall be applied uniformly to the surface of all soil areas within 12 inches of the trunk. A berm shall be constructed to prevent runoff.
The drench shall contain a mixture of the following 2 fungicides:

a) Subdue
b) Cleary's 3336 (Fungo Flo can be used as a substitute for Cleary's 3336 if as necessary).

All label recommendation instructions and precautions shall be followed carefully.

If necessary to stabilize palm and prevent them from leaning or toppling, rigid supports or guys shall be installed. Guys or supports may not block the public sidewalk or street. No nails, screws or any other hardware, which requires wounding of the palm, shall be employed for this purpose.

Palm shall be installed plumb. Any adjustments necessary to straighten palm due to settling or shifting shall be made by the installation contractor at no charge to the City within 12 months after planting.

Finish planting as detailed on drawings with wood headers, berms, crushed rock, mulch etc. Finished grade shall drain a minimum of 2% away from trunk.

308-9.4 PLANT ESTABLISHMENT FOR PALM TREE

Plant Establishment period will extend for a period of 2 years beyond the final project acceptance. If any palm begins to lean due to settling or for any other reason, necessary adjustments must be made by the Contractor to straighten it as soon as possible.

Drainage within the root zone must be monitored by determining the presence or absence of water at the bottom of drainage inspection tubes installed at a depth of 1 ft. below the bottom of the rootball. **No standing water must be present in the tube. If standing water persists, it must be pumped out and monitored. Adjustment of irrigation run times may be necessary.**

Irrigation: Proper irrigation requires monitoring the following: Soil moisture content, Drainage (inspection tubes), Components of the irrigation system and how they are functioning.

Monitoring soil moisture content:

> The amount of water required by a palm tree varies with the season, temperature, wind, soil type and other factors. The frequency and volume of irrigation applications must be determined by monitoring drainage and soil moisture content for each palm. Field tests must be made for soil moisture content in both the rootball and backfill sand.
>
> Irrigation is required when the soil is still slightly damp. If it is too dry, too much time has elapsed since the last irrigation. If it is very wet, it is too early to irrigate. Bear in mind that the 2 leading causes for palm decline and death are insufficient and excessive irrigation. A proper medium between the two must be achieved. It must be noted, however, that when an approved

sand has been used as backfill and when there is no standing water in the bottom of inspection tubes, under irrigation is more likely to be a problem than over irrigation.

308-9.5 Monitoring the irrigation system:
Contractor shall closely monitor the irrigation system to ensure proper watering conditions.

308-9.6 Irrigation components:
The irrigation system must conform to the recommendations detailed in the installation specifications.

Water from spray heads, which may be irrigating other nearby plants, must not be allowed to strike the trunks or bases of the palm.

308-9.7 Fertilization: (Soil and Plant Lab Shall take precedence)
Do not apply fertilizers or soil amendments at the time of planting or for a period of 3 months thereafter. After 3 months, fertilize all palms on or around the 15th of every April, July and October with a palm special fertilizer, which has an approximate ratio of 3-1-3 plus secondary, and micronutrients (Scotts Landscape Palm Fertilizer 14-5-14 Plus Minors is recommended. Available through Target Specialty Products, Tel: 800 / 767-0719.)

During the establishment period, the rate must be 3 lbs. per tree. A uniform application must be made in a circular band 12 inches wide surrounding each palm, beginning 12 in. away from the trunk. Do not apply fertilizer directly against the trunks or aerial root initiation zones. The fertilizer must be surface applied, worked into the soil and thoroughly watered in by hand. A berm must be constructed to avoid runoff if necessary. (Hand watering must be repeated a minimum of once per month to insure adequate soil infiltration.) In the first application (only), a micronutrient fertilizer must be included. Peters Soluble Trace Element Mix [S.T.E.M] made by Scotts Company is recommended. (Available through Target Specialty Products, Tel: 800 / 767-0719.) The rate must be ¼ cup per tree applied as specified above.

Many fertilizers (especially those containing iron and manganese) stain masonry and other hardscape surfaces. Precautions must be taken to avoid such staining. Oxalic acid is sometimes effective as a stain remover.

The soil surrounding the bases of palm must be maintained clear of groundcovers and weeds to a distance of 18 in.

All weeds must be hand pulled. The use of herbicides for a radius of 12 ft. is not allowed.
No additional soil may be added over the rootball or the backfill sand.

During the establishment period do not place mulch over the rootball. Mulch must be porous, should not exceed 3 in. in depth and must not be placed within 6 in. of the trunk. Irrigation drip emitters must not be visible at the mulch surface to allow for adequate monitoring.

Injury of any kind to the trunks or bases of palm must be avoided. Trunk injuries that result from practices such as placing nails, screws or bolts into the trunk invite disease pathogens and structural weaknesses. Injuries from lawn mowers, string trimmers, and other landscaping tools can have the same effect.

308-9.8 Pruning:

The palm must not be pruned during the establishment period other than to remove dead and broken leaves as they may periodically appear. Live leaves must not be removed. (Removal of dead and broken leaves is necessary only for appearance and hazard reduction, not for the health of the palm.)

When leaves are removed, cut them back to the level of the pineapple from which they emerge.

All inflorescences (flower and fruit stalks) must also be removed at that time. (Removal of inflorescences encourages more rapid development of the root system and foliage.) If inflorescences cannot be removed in their entirety, as much should be removed as possible.

The spear leaf in the center of the crown must never be pruned or disturbed in any way; serious decline or death of the palm can result.

If pruning is scheduled at the same approximate time as a fungicidal spray application, the pruning must be completed first. This will allow more thorough spray coverage and will help protect pruning wounds from infection.

Before pruning any individual tree, sterilize all pruning tools by soaking them in a solution of 1 part Clorox bleach and one part water for a minimum of 5 minutes. All portions of cutting blades must be submerged. Non-mechanized pruning tools or reciprocal saws with replaceable blades are recommended. Chain saws may not be used.

It is imperative that all pruning tools be sterilized each time before pruning each individual tree. Non-sterilized pruning tools can transmit Fusarium wilt, a disease that is both fatal and incurable.

Do not use climbing spurs on palm trees for pruning or for any other reason. If the crown of a palm tree cannot be reached by an aerial lift trunk or device, it should be climbed with the aid of a ladder, with both the ladder and the climber securely tied in. There are also climbing techniques that involve the use of climbing lines in such a way that neither ladders nor spurs are necessary

Any pruning operations that are not specified above must adhere to the general recommendations of the following publications:

a) American National Standard for Tree Care Operations: Tree, Shrubs and Other Woody Plant Maintenance – Standard Practices. (ANSI A300 – 1995) American National Standards Institute. New York.

b) International Society of Arboriculture: Tree-Pruning Guidelines. (1995) International Society of Arboriculture, Savoy, Illinois.

c) American National Standard for Tree Care Operations: Pruning, Trimming, Repairing, Maintaining, and Removing Trees, and Cutting Brush – Safety Requirements. (ANSI Z133.1 – 1994) American National Standards Institute. New York.

Fungicide Applications:

Six weeks after installation, make the following 2 fungicide applications:

A foliar spray application should be made at the crown. The fungicide applied should be, Cleary's 3336-F or WP (or an approved equivalent such as Fungo Flo), plus a spreader-sticker adjuvant. Thorough coverage must be made to all leaves, recent pruning wounds and the terminal bud.

Apply a 20 gal. soil drench to each palm. The drench should be applied uniformly to the surface of all soil areas within 12 inches of the trunk. A berm must be constructed to prevent runoff. The drench should contain a mixture of the following 2 fungicides:

1) Subdue-2E
2) Cleary's 3336-F (or an approved equivalent such as Fungo Flo).

Do not mix fungicides with fertilizers or any other applications unless it is known that all products involved are compatible and that phytotoxicity will not result.

All label recommendations; instructions and precautions must be followed carefully. If any of the above recommendations conflict with recommendations as stated on the label at the time of application, follow the recommendations given by the label.

SECTION 309 MONUMENTS

309 REPLACE SURVEY MONUMENTS The following is added to Section 309, "Monuments", of the Standard Specifications:

Contractor shall not disturb existing found monuments outside of proposed project limits as shown on the plans. When Contractor's work displaces existing found monuments, the existing monument shall be completely removed and disposed of and reset with a new survey monument at the Contractor's expense.

Replaced survey monuments shall be installed in accordance with Section 2-9.1, "Permanent Survey Markers' of the Standard Specifications and these Special Provisions, and the details shown on the City Standard Plan "Survey Monument" (Dwg. 134, Case 3101).

Survey Monument frames and covers shall be adjusted to final grade after paving work is completed, to conform within 1/8 inch of the adjusted pavement elevation in accordance with Section 301-1.6.

309-3.1 MONUMENTS WITHIN 4" AC MILL & REPLACE AREA

Contractor shall remove the frame, cover, and concrete collar to below the grinding plane for monuments within areas where 4" of AC will be milled and replaced. Contractor shall protect the monument disk and post and restore monument well per City Standard Plan No. 134 after final AC paving.

309-3.2 MONUMENTS WITHIN STREET RECONSTRUCTION AREA

Contractor shall remove survey monuments in their entirety, including concrete posts, for monuments located within street areas to be reconstructed prior to soil stabilization operations. City will set straddler points after final AC paving to mark the locations of the removed monuments. Contractor shall rebuild monuments per City Standard Plan No. 134.

SECTION 310 PAINTING

310-1 GENERAL. Work shall be done per the Standard Specifications.

310-5 PAINTING VARIOUS SURFACES. Painting various surfaces shall conform with section 310-5, "Painting Various Surfaces", of the Standard Specifications and these special provisions.

310-5.6.1 GENERAL Traffic striping shall conform to the provisions of Section 82, "Markers and Delineators", Section 84, "Traffic Stripes and Pavement Markings" and Section 85, "Pavement Markers" of the May 2010 California Department of Transportation (CALTRANS) Specifications and Standard Plans; these Special Provisions, and City Standard Plans.

Unless new striping plans are included, Contractor shall, prior to the actual work, inventory and reference all existing striping, pavement markings, delineator, etc. and provide a copy to the Engineer. If existing striping is not recorded prior to the work, the City will deduct the cost of researching and redesigning striping plans from the money due or become due from the Contractor.

Existing stripes and markings within 50 feet of the Limit of Work shall be re-striped or touched up. Damaged or marred markers within 50 feet of Limit of Work shall be replaced.

Pavement marking, including all arrows, symbols, words, speed bumps, crosswalks, and stripes shall be thermoplastic or skid resistant thermoplastic in accordance with City Standard Plan Dwg. Nos. 131 and 616. Skid Resistant Thermoplastic may be substituted with flint Trading, Inc. "PreMark" Preformed Thermoplastic with ViziGRIP products as applicable, (336) 475-6600, www.flintrading.com.

Temporary traffic markings, centerlines, lane lines, and temporary 8 inch white tape stop bar at each stop sign shall be installed immediately after their removal and prior to road being open to traffic.

Striping layout lines shall be installed within twenty-four (24) hours after the street is opened to traffic. Layout lines shall be "Cat Track" type markings. Paint drip lines are not acceptable as layout lines.

Before permanent markings are installed, the layout "Cat Track" marking lines shall be inspected and approved by the Engineer. A smooth transition shall be made on streets where widths of the street changes. The contractor shall allow 3 days for review. No compensation will be made for this delay.

Permanent pavement markers and thermoplastic striping and pavement markings shall be applied within 15 working days after final paving is completed.

A project schedule and traffic control plan shall be submitted to the Engineer for approval prior to the commencement of work. Contractor shall notify the Engineer **FIVE WORKING DAYS** prior to removal of pavement stripes, markings and markers. Sand, paint and thermoplastic residue, or other materials used in the Contractor's operations shall be contained, removed from the project site, and legally disposed of. Under no circumstances shall sand or other materials be permitted to enter the storm drain system.

Pavement markings including all arrows, symbols, words, crosswalks and 8 inch stripes shall be thermoplastic.

Blue pavement markers shall be installed opposite all fire hydrants 6 inches off center of the centerline striping nearest the fire hydrant.

CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 6-9 REGARDING LIQUIDATED DAMAGES FOR FAILURE TO INSTALL WITHIN SPECIFIED TIME TEMPORARY STRIPES AND MARKINGS, LAYOUT LINES AND PERMANENT TRAFFIC STRIPES, MARKINGS, ETC. PER ABOVE. CONTRACTOR SHALL COORDINATE WITH THE RAISING OF MANHOLES, AND TRAFFIC DETECTOR LOOP INSTALLATION.

Add the following section:

310-6 ANTI-GRAFFITI TREATMENT

Anti-graffiti treatment shall be installed by a licensed applicator in accordance with manufacturer specifications.

The following architectural surfaces shall receive anti-graffiti application:

a) All exposed stucco surfaces on Concrete Columns and Seat Walls.

SECTION 312 PAVEMENT MARKER PLACEMENT AND REMOVAL

312-1 PLACEMENT. The following is added to Section 312-1 "Placement" of the Standard Specifications:

Pavement markers shall be removed and installed in accordance with the provisions of: Section 82, "Markers and Delineators", Section 84, "Traffic Stripes and Pavement Markings", and Section 85, "Pavement Markers" of the May 2006 edition of the California Department of Transportation (Caltrans) Specifications, and Standard Plans; and these Special Provisions, and City Standard Plans.

All markers shall be secured with bituminous adhesives. Epoxy adhesives shall not be used.

SECTION 315 ROADSIDE SIGNS, CONSTRUCTION AREA SIGNS AND TRAFFIC CONTROL

The following Sections are added to the Standard Specifications:

315-1 ROADSIDE SIGNS Permanent roadside signs shall be installed in accordance with details shown on City Standard Plan "Sign Installation and Mounting Detail", (Dwg. 136 Case 3101) and these Special Provisions.

Signal mastarm mounted traffic signs shall be installed according to the details shown on City Standard Plan "Street Name Sign, Signal Mastarm", (Dwg. 138, Case 3101).

315-2 CONSTRUCTION AREA SIGNS.
Except as shown on the plans, locations where construction activities lasting less than five (5) working days, Temporary Mounted Construction Area Signs may be mounted on portable supports or barricades in conformance to the provisions in Section 315-2.1.1.

For locations where construction activities last five (5) or more working days, Stationary Mounted Construction Area Signs in conformance to the provisions in Section 315-2.1.2 shall be used.

315-2.1 GENERAL.
Contractor shall maintain signs so that they are legible and accurately reflect the limits of work. This requirement will apply continuously and will not be limited to the normal days and/or working hours (24 hour/day; 7 days/week).

Type W20-1 and G20-2 construction area signs shall be installed at the locations shown on the plans. Contractor shall coordinate exact sign locations with the Engineer.

Construction Area Signs W8-7 "Loose Gravel", W21-2 "Fresh Oil", W8-8 "Rough Road" or "Uneven Pavement" signs shall be installed and maintained at all conforms, intersections and approaches to streets to be sealed, overlaid or reconstructed. Additional signs shall be installed along both sides of streets every 91 m (300 feet) O.C. W8-8 "Rough Road" or "Uneven Pavement" signs shall be installed at all streets to be overlaid or reconstructed. W21-2 "Fresh Oil" shall be required for streets to be slurry sealed. W8-7 "Loose Gravel" signs shall be required for streets to be ship sealed. The requirement will apply continuously and will not be limited to normal working days and/or working hours (24 hours/day; 7 days/week).

Construction Area Sign Type P "Steel Plates Ahead" signs shall be installed and maintained at all steel plated excavations. This requirement will apply continuously and will not be limited to normal working days and/or working hours (24 hours/day; 7 day/week).

Signs shall be covered whenever there is cessation of work for three (3) consecutive working days. Covers for construction area signs shall be of sufficient size and density to completely block out the message so that it is not visible either during the day or at night. Covers shall be fastened securely to prevent movement caused by wind action.

The Contractor shall clean all construction area signs panels at the time of installation and as often thereafter as the Engineer determines to be necessary, but at least once every four (4) months.

To properly provide for changing traffic conditions and damage caused by public traffic or otherwise, the Contractor shall be prepared to furnish on short notice additional construction area sign panels, posts and

mounting hardware. The Contractor shall maintain an inventory of commonly required items at the jobsite or shall make arrangements with a supplier who is able, on a daily basis, to furnish such items on short notice.

315-2.1.1 TEMPORARY MOUNTED CONSTRUCTION AREA SIGNS.

Each Temporary Mounted Construction Area Sign shall consist of a base, framework and a sign panel and shall be mounted on a portable support or appropriately sized barricade. The support or barricade shall be in good condition, capable of staying in position under anticipated traffic or weather conditions. The unit shall be capable of being delivered to the site o fuse and placed in immediate operation and removed after construction.

Sign panels shall conform to the provisions in Section 215-2, "Construction Area Signs". Size, color, and legend shall be the same as stationary construction area signs.

The height to the bottom of the sign panel above the edge of traveled way shall be at least one foot and be visible to traffic. Signs may be placed on both sides of the roadway and within the roadway. Sign supports shall be placed in such a way as not to interfere with pedestrians or bicyclists. A minimum 4-foot of lateral width shall be maintained for pedestrian pathways.

If temporary mounted signs are displaced or overturned, from any cause, during the progress of the work, the contractor shall immediately replace the signs in their original locations.

W21-2, W8-7 and W8-8 or "Uneven Pavement" or Type P signs shall be placed on Type I barricades with operating flashers immediately prior to the work and along streets per above.

315-2.1.2 STATIONARY MOUNTED CONSTRUCTION AREA SIGNS.

Stationary Mounted Construction Area Signs may be installed on above ground temporary platform sign supports as approved by the Engineer, or signs may be installed on existing lighting standards or other supports as approved by the owner of the support. When stationary Mounted Construction Area Signs are installed on existing lighting standards, holes shall not be made in the standards to support the sign. Contractor shall be liable for any damage caused by the attachment to existing facilities. Contractor shall supply and install temporary posts as necessary.

The height to the bottom of the sign panel above the edge of traveled way shall be at least 1.5 m (5 feet), except when the sign is located in the path of pedestrians or bicycles the height to the bottom of the sign panel shall be at least 2.1 m (7 feet). Temporary sign supports or posts shall provide a minimum of 4-foot lateral width for pedestrian access.

Contractor shall install all funding signs, including the 'Measure B' sign to be provided by the City and as shown on the plans.

All Stationary Mounted Construction Area Signs and supplemental signs shall be removed immediately upon substantial completion of the work. If the Contractor fails to remove said signs in a timely manner, the City shall proceed with removal and deduct the cost thereof from money due or to become due from the Contractor.

315-3 TRAFFIC CONTROL SYSTEM, LANE CLOSURES AND DETOURS

315-3.1 GENERAL.

The Contractor shall submit a Traffic Control Plan(s) for acceptance by the City's Traffic Engineer prior to performing any work affecting public traffic. Flashing arrow boards shall be use at all intersections of the streets listed in City Standard Plan 608A and 608B and 608C.

Traffic shall be directed through the construction zone by certified flagpersons as required by 2006 CA MUTCD or as directed by the Engineer. Flagpersons shall perform their duties and shall be provided with the necessary equipment in accordance with said manual and shall be certified in accordance with California Code of Regulations (CCR) Title 8, Section 1599 et seq.

When lane closures are made for work periods only, at the end of each work period all components of the traffic control system, except portable delineators used to direct traffic away from the work area, shall be removed from the traveled way. If the contractor so elects, said components may be stored at selected central locations approved by the Engineer within the right-of-way.

If any component in the traffic control system is displaced or ceases to operate or function as specified, said component shall be immediately replaced or repaired to its original condition and restored to its original location by the Contractor.

During traffic stripe operations, traffic shall be controlled with lane closures, as provided for under "Traffic Control system" of these Special Provisions, or by use of an alternative traffic control plan proposed by the Contractor. The Contractor shall not start traffic stripe operations using an alternative plan until he has submitted his plan to the Engineer and has received written approval of said plan.

Alternative traffic control plans for striping operations shall conform to the provisions in section 7-10 "Public Convenience and Safety" of the Standard Specifications and these Special Provisions. Attention is directed to Section 214, "Pavement Markers" of these Special Provisions in regard to placing pavement markers with bitumen adhesive.

Unless otherwise indicated, Traffic Signal System shutdown shall be limited to periods between the hours of 9:00 a.m. and 2:30 p.m. no shut down shall occur on Friday. The Contractor shall notify the City's Public Works Service Center, Electrical Section, (510) 577-3445, forty-eight (48) hours in advance of any traffic signal system shutdowns.

The Contractor shall place W3-4 "Be Prepared to Stop" and R1-1 "Stop" signs to direct vehicles and pedestrian traffic through the intersection during traffic signal shutdown. Temporary "Stop Ahead" and "Stop" signs shall be either covered or removed when the system is turned on.

"Be Prepared to Stop" and "Stop" signs shall be furnished by the Contractor. The minimum size of "Be Prepared to Stop" and "Stop" signs shall be 900 mm (36 feet).

For single lane approaches, one "Be Prepared to Stop" and one "Stop" sign shall be placed for each single lane approach. For multiple lane approaches, two "Be Prepared to Stop" and two "Stop" signs shall be placed for each multiple lane approach.

315-4 TRAFFIC CONTROL SYSTEM, LANE CLOSURES AND DETOURS The Traffic Control System shall conform to the provisions of Section 7-10, "Public Convenience and Safety" of the Standard Specifications; the State of California "Manual of Traffic Controls" and these Special Provisions.

The Contractor shall install all traffic control devices according the Stage Construction Plans. The Contractor shall obtain the approval from the City's Traffic Engineer if approved Stage Construction Plans need be altered. At all intersections of the streets listed in Section 7-10.3, Contractor shall use flag persons to control traffic during construction. Flashing arrow boards shall be used at all intersections.

Traffic shall be directed through the construction zone by flag persons as recommended by Manual on Uniform Traffic Control Devices (MUTCD), 2003 edition and the MUTCD 2003 California supplement, Part 6, Temporary Traffic Control, as directed by these Special Provisions or as directed by the Engineer. Flag persons shall perform their duties and shall be provided with the necessary equipment in accordance with Manual on Uniform Traffic Control Devices (MUTCD), 2003 edition and the MUTCD 2003 California supplement, Part 6, Temporary Traffic Control.

When lane closures are made for work periods only, at the end of each work period all components of the traffic control system, except portable delineators used to direct traffic away from the work area, shall be removed from the traveled way. If the Contractor so elects, said components may be stored at selected central locations approved by the Engineer within the right-of-way.

For single lane approaches, one "Stop Ahead" and one "Stop" sign shall be placed for each single lane approach. For multiple lane approaches, two "Stop Ahead" and two "Stop" signs shall be placed for each multiple lane approach.

All components of the traffic control system, except portable delineators used to direct traffic away from the work area, shall be removed from the traveled way. If the Contractor so elects, said components may be stored at selected central locations approved by the Engineer within the right-of-way.

If any components in the traffic control system is displaced or ceases to operate or function as specified, said component shall be immediately replaced or repaired to its original condition and restored to its original location by the Contractor.

TRAFFIC CONTROL FOR TRAFFIC STRIPING AND PAVEMENT MARKINGS During traffic stripe operations, traffic shall be controlled with lane closures, as provided for under "Traffic Control System" of these Special Provisions, or by use of an alternative traffic control plan proposed by the Contractor. The Contractor shall not start traffic stripe operations using an alternative plan until he has submitted his plan to the Engineer and has received written approval of said plan.

Alternative traffic control plans for striping operations shall conform to the provisions in Section 7-10 "Public Convenience and Safety" of the Standard Specifications and these Special Provisions. Attention is directed to Section 214, "Pavement Markers" of these Special Provisions in regard to placing pavement markers with bitumen adhesive.

315-5 PEDESTRIAN ACCESS Pedestrian travel shall be maintained at all times along the street side where existing sidewalk exists, throughout the parking lot for access to and from the parking stalls and to and from the parking lot to the existing businesses. All temporary pedestrian walkways shall be at least 4 feet wide fully accessible to handicap pedestrians. In all cases, pedestrian walkways shall be separated from vehicular travel by a clear area of at least 6 feet, or in location where the 6 feet of horizontal separation of pedestrian traffic is not feasible, by a raised curb, a raised wooden walkway with standard railings, or by K rails. This condition may be modified or waived by the Engineer upon request by the Contractor. Provisions to activate pedestrian signal indications will be made in instances where pedestrian

access to the existing pedestrian push button cannot be maintained. Existing lighting levels in the area prior to construction shall be maintained during all construction.

PART 5 SYSTEM REHABILITATION

Materials and Methods for System Rehabilitation all work performed on public property in the City of San Leandro shall conform with the Standard Specifications for Public Works Construction, the "GREENBOOK", the 2006 edition with the 2008 supplement thereto, adopted by the Southern California Chapter of the American Public Works Association; and Sections 84, 85, 86 of the most current edition of California Department of Transportation (Caltrans) Standard Specifications; and the Special Provisions (Technical Specifications) thereto adopted by the City Engineer as follows:

SECTION 500 PIPELINE

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500-1.1.7 MISCELLANEOUS The following is added to Section 500-1.1.7 of the Standard Specifications:

(e) FLOW CONTROL AND BYPASS

The Contractor may utilize bypass pumping and in-system storage to manage the flows. The Contractor shall submit a Sewage Flow Management Plan to the Engineer for approval before starting construction. Approval of the Plan by the Engineer shall in no way be construed as relieving the Contractor of any responsibility under this contract as related to protection of the interests of the City and the public as described in Section 7, "Responsibility of the Contractor," in the Standard Specifications and these Special Provisions. The Contractor shall provide complete flow control regardless of flow rate.

If in-system storage is used, the Plan shall address the available storage capacity (size), anticipated flow rates and maximum time the service may be off-line. A reasonable factor of safety must be considered in any calculations. The Plan shall also how each service will be checked and a routine to continuously measure and document the storage levels. Should the storage area become full before the construction is finished, the Plan shall provide a method to relieve the system, such as bypass pumping. Should the system overflow, identify a containment and cleanup method.

If bypass pumping is used to manage sewage flows, the Plan shall determine the necessary pumping requirements, temporary piping sizes, and routes. All bypass pumps must have an in-line backup pump and generator connected at all times. All bypass piping must be leak free and all joints restrained. Should the system leak or overflow, identify a containment and cleanup method. Identify all discharge points. No manhole is to be left open or lid ajar and unattended. The Contractor shall design the bypass pumping system with a minimum factor of safety of 1.5.

Bypass-pumping plans shall be coordinated with the traffic management plans. The Contractor's attention is directed to Section 7-10, "Public Convenience and Safety," of the Standard Specifications and these Special Provisions. Contractor shall identify how temporary bypass piping will cross driveways and intersections without interfering with traffic flow. If traffic ramps (speed bumps) are used on the surface, drawings must be submitted to the Engineer for prior approval. The submittal shall include dimensions of piping and ramps, material descriptions and recommended speed reductions and signing locations.

If bypass piping is placed below ground by trenchless methods, a trenching or horizontal directional drilling (HDD) plan shall be submitted to the Engineer for prior approval. The Contractor is responsible for designing any underground bypass pumping alternatives including the locating of adjacent underground utilities. The Contractor is also responsible for obtaining any necessary permits or permissions from regulatory agencies.

All temporary bypass piping shall be removed upon completion of the work and the work area restored to its original condition or better.

When flow in a sewer line is plugged, blocked, or bypassed; sufficient precaution shall be taken to protect the sewer lines from damage that might result from sewer surcharging. Further, precautions shall be taken to insure that sewage from controlled operations do not cause flooding or damage to public or private property being served by the sewers involved. See Section 5-2, PROTECTION.

Bypassing of untreated sewage into storm drainage facilities and waterway is strictly prohibited. Under no circumstances shall the dumping of raw sewage onto private property or City streets or any location other than an approved sanitary sewer will be allowed.

The Contractor shall provide all water and power required to perform the work.

500-1.2.4 SEWER BYPASSING AND DEWATERING The following is added to Section 500-1.2.4 of the Standard Specifications:

The Contractor shall conduct his operation as to cause the least possible obstruction and inconvenience to the public. All pipe replacements, point repairs and service lateral replacements shall be done with no interruption of services to residents. Sewage flow shall be bypassed to the downstream manhole by mean of pumping devices. Bypassing of untreated sewage to storm drainage system or waterway will not be permitted.

500-2 MANHOLE AND STRUCTURE REHABILITATION

500-2.1 REQUIREMENTS Manhole and Structure Rehabilitation work shall conform to the provisions of Section 500-2 "Manhole and Structure Rehabilitation," of the Standard Specifications and these Special Provisions.

500-2.1.1 GENERAL The following is added to Section 500-2.1.1 of the Standard Specifications:

The transition between the pipeline and manhole shall be smooth. No hydraulic obstacles, dips, or bumps shall be allowed that could impede flow.

500-2.1.5 REMOVAL AND DISPOSAL The following is added to Section 500-2.1.5 of the Standard Specifications:

All construction waste materials shall be removed from the manholes and site. No materials or debris shall be swept or deposited in any manner into the sewer.

ATTACHMENT A

CALTRANS ENCROACHMENT PERMIT

RECEIVED
CITY OF SAN LEANDRO
JUL 19 2012

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

ENCROACHMENT PERMIT

TR-0120

Permit No. 0412-NMC0099	
Dist/Co/Rte/PM 04-ALA-61/185 1.4/5.5	ENG / TRANS.
Date June 18, 2012	
Fee Paid $	Deposit $
Performance Bond Amount (1) $	Payment Bond Amount (2)
Bond Company	
Bond Number (1)	Bond Number (2)

In compliance with (*Check one*):

☒ Your application of January 24, 2012

☐ Utility Notice No. _____ of _____

☐ Agreement No. _____ of _____

☐ R/W Contract No. _____ of _____

TO: City of San Leandro
835 East 14th Street
San Leandro, CA 94577

Attn: Mark Goralka
Phone: (510) 577-3329

, **PERMITTEE**

And subject to the following, **PERMISSION IS HEREBY GRANTED** to:

Build pedestrian bulbouts at the four corner of the Davis (SR61)/ San Leandro Blvd. intersection, addition of new ramps and pedestrian push bottoms, and adjust free right turn on northbound Davis Street and southbound San Leandro Blvd. to conform with the new street lane configuration, on State Highway 04-ALA61 /185, Post Miles 1.4 /5.5, in the City of San Leandro.

A minimum of one week prior to start of work under this permit, notice shall be given to, and approval of construction details, operations, public safety, and traffic control shall be obtained from State Representative Sunny Mantravadi, 600 Lewelling Boulevard, San Leandro, CA 94579, (510) 614-5951, weekdays, between 7:30 AM and 4:00 PM.

All permitted work requires the permittee to apply for and obtain a work authorization number prior to start of work. See the attached "Encroachment Permit Project Work Scheduling Procedures" and the attached "Permit Project Work Scheduling Request Form". Additional time beyond the minimum seven days advanced notice required in the above paragraph may be required for obtaining the traffic control approval.

The following attachments are also included as part of this permit (*Check applicable*):

☒ Yes	☐ No	General Provisions
☐ Yes	☒ No	Utility Maintenance Provisions
☐ Yes	☒ No	Storm water Special Provisions
☐ Yes	☒ No	A Cal-OSHA permit required prior to beginning work: # _____

In addition to fee, the permittee will be billed actual costs for:

☐ Yes	☒ No	Review
☐ Yes	☒ No	Inspection
☐ Yes	--------	Field Work

(If any Caltrans effort expended)

☐ Yes ☒ No The information in the environmental documentation has been reviewed and considered prior to approval of this permit.

This permit is void unless the work is completed before June 30, 2013.

This permit is to be strictly construed and no other work other than specifically mentioned is hereby authorized.
No project work shall be commenced until all other necessary permits and environmental clearances have been obtained.

SM

CC: BK, SM
J. Richardson, F. Brojeni

APPROVED:

BIJAN SARTIPI, District Director

BY: for RSthillon

MICHAEL D. CONDIE, District Permit Engineer

The Contractor for the permittee shall apply for an Encroachment Permit for the work authorized therein, and the application shall be accompanied by a check in the amount of $820.00, to cover the permit fee. Permittee shall be billed for any additional inspection cost at the current Caltrans rate of $82.00

Certain details of work authorized hereby are shown on permittee's plan, submitted with request for permit and all work within State right of way shall conform to current State Standard Plans and Specifications.

Changes to the Plans, Specifications, and Permit Provisions are not allowed without Prior approval from the State Representative.

On Davis Street, provide at least one 11' minimum width thru traffic lane to accommodate all traffic movements between 9:00PM – 5:00AM. Sunday – Thursday. Shoulder, if applicable, may be closed between 9:00AM-3:00PM Monday-Friday.

Excavation made within the limits of the highway shall be backfilled before leaving the work for the night unless otherwise authorized by State's representative. After backfilling the trench, temporary surfacing shall be placed if required by State's representative.

Proposed improvement shall be maintained by the City and/ or County at no charge to the State.

Permittee or the contractor shall submit a completed list of material to be used (HC-30) for approval.

Upon completion of the work provided herein, the permittee shall provide a set of as built plan to State representative.

All pavement markings on the State R/W shall be thermoplastic material.

Permittee's personnel shall wear protective hard hats and high visibility reflectorized vests.

Suitable barricades, signs and lights, as approved by State's representative, to warn and protect traffic effectively shall enclose the site of the work.

Before any work is begun, which will interrupt the normal flow of public traffic, approval shall be obtained from State's Representative. Lane closures shall be as shown in the attached copy of Standard Plan Sheet T-10.

If an accident or other incident (related to or not related to the permitted activity) occurs within, or close to the permitted activity, the permittee shall immediately stop work and remove traffic controls from the highway unless public health, welfare and safety is endangered by unfinished work. Only traffic control to protect open excavations may remain in place. After free traffic flow is restored, work in accordance with the conditions of the permit may be returned.

Any damage to existing facilities, landscaping or irrigation within the State's Right of Way shall be replaced in kind by the permittee at permittee's expense.

Immediately following completion of the work permitted herein, the permittee shall fill out and mail the Notice of Completion attached to this permit.

1. **AUTHORITY:** The Department's authority to issue encroachment permits is provided under, Div. 1, Chpt. 3, Art. 1, Sect. 660 to 734 of the Streets and Highways Code.

2. **REVOCATION:** Encroachment permits are revocable on five days notice unless otherwise stated on the permit and except as provided by law for public corporations, franchise holders, and utilities. These General Provisions and the Encroachment Permit Utility Provisions are subject to modification or abrogation at any time. Permittees' joint use agreements, franchise rights, reserved rights or any other agreements for operating purposes in State highway right of way are exceptions to this revocation.

3. **DENIAL FOR NONPAYMENT OF FEES:** Failure to pay permit fees when due can result in rejection of future applications and denial of permits.

4. **ASSIGNMENT:** No party other than the permittee or permittee's authorized agent is allowed to work under this permit.

5. **ACCEPTANCE OF PROVISIONS:** Permittee understands and agrees to accept these General Provisions and all attachments to this permit, for any work to be performed under this permit.

6. **BEGINNING OF WORK:** When traffic is not impacted (see Number 35), the permittee shall notify the Department's representative, two (2) days before the intent to start permitted work. Permittee shall notify the Department's Representative if the work is to be interrupted for a period of five (5) days or more, unless otherwise agreed upon. All work shall be performed on weekdays during regular work hours, excluding holidays, unless otherwise specified in this permit.

7. **STANDARDS OF CONSTRUCTION:** All work performed within highway right of way shall conform to recognized construction standards and current Department Standard Specifications, Department Standard Plans High and Low Risk Facility Specifications, and Utility Special Provisions. Where reference is made to "Contractor and Engineer," these are amended to be read as "Permittee and Department representative."

8. **PLAN CHANGES:** Changes to plans, specifications, and permit provisions are not allowed without prior approval from the State representative.

9. **INSPECTION AND APPROVAL:** All work is subject to monitoring and inspection. Upon completion of work, permittee shall request a final inspection for acceptance and approval by the Department. The local agency permittee shall not give final construction approval to its contractor until final acceptance and approval by the Department is obtained.

10. **PERMIT AT WORKSITE:** Permittee shall keep the permit package or a copy thereof, at the work site and show it upon request to any Department representative or law enforcement officer. If the permit package is not kept and made available at the work site, the work shall be suspended.

11. **CONFLICTING ENCROACHMENTS:** Permittee shall yield start of work to ongoing, prior authorized, work adjacent to or within the limits of the project site. When existing encroachments conflict with new work, the permittee shall bear all cost for rearrangements, (e.g., relocation, alteration, removal, etc.).

12. **PERMITS FROM OTHER AGENCIES:** This permit is invalidated if the permittee has not obtained all permits necessary and required by law, from the Public Utilities Commission of the State of California (PUC), California Occupational Safety and Health Administration (Cal-OSHA), or any other public agency having jurisdiction.

13. **PEDESTRIAN AND BICYCLIST SAFETY:** A safe minimum passageway of 4' shall be maintained through the work area at existing pedestrian or bicycle facilities. At no time shall pedestrians be diverted onto a portion of the street used for vehicular traffic. At locations where safe alternate passageways cannot be provided, appropriate signs and barricades shall be installed at the limits of construction and in advance of the limits of construction at the nearest crosswalk or intersection to detour pedestrians to facilities across the street. Attention is directed to Section 7-1.09 Public Safety of the Department Standard Specifications.

14. **PUBLIC TRAFFIC CONTROL:** As required by law, the permittee shall provide traffic control protection warning signs, lights, safety devices, etc., and take all other measures necessary for traveling public's safety. While providing traffic control, the needs and control of all road users [motorists, bicyclists and pedestrians, including persons with disabilities in accordance with the Americans with Disabilities Act of 1990 (ADA)] shall be an essential part of the work activity.

    Day and night time lane closures shall comply with the California Manual on Uniform Traffic Control Devices (Part 6, Temporary Traffic Control), Standard Plans, and Standard Specifications for traffic control systems. These General Provisions are not intended to impose upon the permittee, by third parties, any duty or standard of care, greater than or different from, as required by law.

15. **MINIMUM INTERFERENCE WITH TRAFFIC:** Permittee shall plan and conduct work so as to create the least possible inconvenience to the traveling public; traffic shall not be unreasonably delayed. On conventional highways, permittee shall place properly attired flagger(s) to stop or warn the traveling public in compliance with the California Manual on Uniform Traffic Control Devices (Chapter 6E, Flagger Control).

16. **STORAGE OF EQUIPMENT AND MATERIALS:** The storage of equipment or materials **is not** allowed within State highway right-of-way, **unless specified** within the Special Provisions of this specific encroachment permit. If Encroachment Permit Special Provisions allow for the storage of equipment or materials within the State right of way, the equipment and material storage shall comply with Standard Specifications, Standard Plans, Special Provisions, and the Highway Design Manual. The clear recovery zone widths must be followed and are the minimum desirable for the type of facility indicated below: freeways and expressways - 30', conventional highways (no curbs) - 20', conventional highways (with curbs) – 1.5'. If a fixed object cannot be eliminated, moved outside the clear recovery zone, or modified to be made yielding, it should be shielded by a guardrail or a crash cushion.

17. **CARE OF DRAINAGE:** Permittee shall provide alternate drainage for any work interfering with an existing drainage facility in compliance with the Standard Specifications, Standard Plans and/or as directed by the Department's representative.

18. **RESTORATION AND REPAIRS IN RIGHT OF WAY:** Permittee is responsible for restoration and repair of State highway right of way resulting from permitted work (State Streets and Highways Code, Sections 670 et. seq.).

19. **RIGHT OF WAY CLEAN UP:** Upon completion of work, permittee shall remove and dispose of all scraps, brush, timber, materials, etc. off the right of way. The aesthetics of the highway shall be as it was before work started.

20. **COST OF WORK:** Unless stated in the permit, or a separate written agreement, the permittee shall bear all costs incurred for work within the State right of way and waives all claims for indemnification or contribution from the State.

21. **ACTUAL COST BILLING:** When specified in the permit, the Department will bill the permittee actual costs at the currently set hourly rate for encroachment permits.

22 **AS-BUILT PLANS:** When required, permittee shall submit one (1) set of folded as-built plans within thirty (30) days after completion and approval of work in compliance with requirements listed as follows:

1. Upon completion of the work provided herein, the permittee shall send one vellum or paper set of As-Built plans, to the State representative. Mylar or paper sepia plans are not acceptable.
2. All changes in the work will be shown on the plans, as issued with the permit, including changes approved by Encroachment Permit Rider.
3. The plans are to be stamped or otherwise noted AS-BUILT by the permittee's representative who was responsible for overseeing the work. Any original plan that was approved with a State stamp, or Caltrans representative signature, shall be used for producing the As-Built plans.
4. If As-Built plans include signing or striping, the dates of signing or striping removal, relocation, or installation shall be shown on the plans when required as a condition of the permit. When the construction plans show signing and striping for staged construction on separate sheets, the sheet for each stage shall show the removal, relocation or installation dates of the appropriate staged striping and signing.
5. As-Built plans shall contain the Permit Number, County, Route, and Post Mile on each sheet.
6. Disclaimer statement of any kind that differ from the obligations and protections provided by Sections 6735 through 6735.6 of the California Business and Professions Code, shall not be included on the As-Built plans. Such statements constitute non-compliance with Encroachment Permit requirements, and may result in the Department of Transportation retaining Performance Bonds or deposits until proper plans are submitted. Failure to comply may also result in denial of future permits, or a provision requiring a public agency to supply additional bonding.

23. **PERMITS FOR RECORD PURPOSES ONLY:** When work in the right of way is within an area under a Joint Use Agreement (JUA) or a Consent to Common Use Agreement (CCUA), a fee exempt permit is issued to the permittee for the purpose of providing a notice and record of work. The Permittee's prior rights shall be preserved without the intention of creating new or different rights or obligations. "Notice and Record Purposes Only" shall be stamped across the face of the permit.

24. **BONDING:** The permittee shall file bond(s), in advance, in the amount set by the Department. Failure to maintain bond(s) in full force and effect will result in the Department stopping of all work and revoking permit(s). Bonds are not required of public corporations or privately owned utilities, unless permittee failed to comply with the provision and conditions under a prior permit. The surety company is responsible for any latent defects as provided in California Code of Civil Procedures, Section 337.15. Local agency permittee shall comply with requirements established as follows: In recognition that project construction work done on State property will not be directly funded and paid by State, for the purpose of protecting stop notice claimants and the interests of State relative to successful project completion, the local agency permittee agrees to require the construction contractor furnish both a payment and performance bond in the local agency's name with both bonds complying with the requirements set forth in Section 3-1.02 of State's current Standard Specifications before performing any project construction work. The local agency permittee shall defend, indemnify, and hold harmless the State, its officers and employees from all project construction related claims by contractors and all stop notice or mechanic's lien claimants. The local agency also agrees to remedy, in a timely manner and to State's satisfaction, any latent defects occurring as a result of the project construction work.

25. **FUTURE MOVING OF INSTALLATIONS:** Permittee understands and agrees to relocate a permitted installation upon notice by the Department. Unless under prior property right or agreement, the permittee shall comply with said notice at his sole expense.

26. **ARCHAEOLOGICAL/HISTORICAL:** If any archaeological or historical resources are revealed in the work vicinity, the permittee shall immediately stop work, notify the Department's representative, retain a qualified archaeologist who shall evaluate the site, and make recommendations to the Department representative regarding the continuance of work.

27. **PREVAILING WAGES:** Work performed by or under a permit may require permittee's contractors and subcontractors to pay appropriate prevailing wages as set by the Department of Industrial Relations. Inquiries or requests for interpretations relative to enforcement of prevailing wage requirements are directed to State of California Department of Industrial Relations, 525 Golden Gate Avenue, San Francisco, California 94102.

28. **RESPONSIBILITY FOR DAMAGE:** The State of California and all officers and employees thereof, including but not limited to the Director of Transportation and the Deputy Director, shall not be answerable or accountable in any manner for injury to or death of any person, including but not limited to the permittee, persons employed by the permittee, persons acting in behalf of the permittee, or for damage to property from any cause. The permittee shall be responsible for any liability imposed by law and for injuries to or death of any person, including but not limited to the permittee, persons employed by the permittee, persons acting in behalf of the permittee, or for damage to property arising out of work, or other activity permitted and done by the permittee under a permit, or arising out of the failure on the permittee's part to perform his obligations under any permit in respect to maintenance or any other obligations, or resulting from defects or obstructions, or from any cause whatsoever during the progress of the work, or other activity or at any subsequent time, work or other activity is being performed under the obligations provided by and contemplated by the permit.

The permittee shall indemnify and save harmless the State of California, all officers, employees, and State's contractors, thereof, including but not limited to the Director of Transportation and the Deputy Director, from all claims, suits or actions of every name, kind and description brought for or on account of injuries to or death of any person, including but not limited to the permittee, persons employed by the permittee, persons acting in behalf of the permittee and the public, or damage to property resulting from the performance of work or other activity under the permit, or arising out of the failure on the permittee's part to perform his obligations under any permit in respect to maintenance or any other obligations, or resulting from defects or obstructions, or from any cause whatsoever during the progress of the work, or other activity or at any subsequent time, work or other activity is being performed under the obligations provided by and contemplated by the permit, except as otherwise provided by statute.

The duty of the permittee to indemnify and save harmless includes the duties to defend as set forth in Section 2778 of the Civil Code. The permittee waives any and all rights to any type of expressed or implied indemnity against the State, its officers, employees, and State contractors. It is the intent of the parties that the permittee will indemnify and hold harmless the State, its officers, employees, and State's contractors, from any and all claims, suits or actions as set forth above regardless of the existence or degree of fault or negligence, whether active or passive, primary or secondary, on the part of the State, the permittee, persons employed by the permittee, or acting on behalf of the permittee.

For the purpose of this section, "State's contractors" shall include contractors and their subcontractors under contract to the State of California performing work within the limits of this permit.

29. **NO PRECEDENT ESTABLISHED:** This permit is issued with the understanding that it does not establish a precedent.

30. **FEDERAL CIVIL RIGHTS REQUIREMENTS FOR PUBLIC ACCOMMODATION:**
A. The permittee, for himself, his personal representative, successors in interest, and assigns as part of the consideration hereof, does hereby covenant and agree that:
1. No person on the grounds of race, color, or national origin shall be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities.
2. That in connection with the construction of any improvements on said lands and the furnishings of services thereon, no discrimination shall be practiced in the selection and retention of first-tier subcontractors in the selection of second-tier subcontractors.
3. That such discrimination shall not be practiced against the public in their access to and use of the facilities and services provided for public accommodations (such as eating, sleeping, rest, recreation), and operation on, over, or under the space of the right of way.
4. That the permittee shall use the premises in compliance with all other requirements imposed pursuant to Title 15, Code of Federal Regulations, Commerce and Foreign Trade, Subtitle A. Office of the Secretary of Commerce, Part 8 (15 C.F.R. Part 8) and as said Regulations may be amended.
5. That in the event of breach of any of the above nondiscrimination covenants, the State shall have the right to terminate the permit and to re-enter and repossess said land and the land and the facilities thereon, and hold the same as if said permit had never been made or issued.

31. **MAINTENANCE OF HIGHWAYS:** The permittee agrees, by acceptance of a permit, to properly maintain any encroachment. This assurance requires the permittee to provide inspection and repair any damage, at permittee's expense, to State facilities resulting from the encroachment.

32. **SPECIAL EVENTS:** In accordance with subdivision (a) of Streets and Highways Code Section 682.5, the Department of Transportation shall not be responsible for the conduct or operation of the permitted activity, and the applicant agrees to defend, indemnify, and hold harmless the State and the city or county against any and all claims arising out of any activity for which the permit is issued.

The permittee understands and agrees to comply with the obligations of Titles II and III of the Americans with Disabilities Act of 1990 in the conduct of the event, and further agrees to indemnify and save harmless the State of California, all officers and employees thereof, including but not limited to the Director of Transportation, from any claims or liability arising out of or by virtue of said Act.

33. **PRIVATE USE OF RIGHT OF WAY:** Highway right of way shall not be used for private purposes without compensation to the State.

The gifting of public property use and therefore public funds is prohibited under the California Constitution, Article 16.

34. **FIELD WORK REIMBURSEMENT:** Permittee shall reimburse State for field work performed on permittee's behalf to correct or remedy hazards or damaged facilities, or clear debris not attended to by the permittee.

35. **NOTIFICATION OF DEPARTMENT AND TMC:** The permittee shall notify the Department's representative and the Transportation Management Center (TMC) at least 7 days before initiating a lane closure or conducting an activity that may cause a traffic impact. A confirmation notification should occur 3 days before closure or other potential traffic impacts. In emergency situations when the corrective work or the emergency itself may affect traffic, TMC and the Department's representative shall be notified as soon as possible.

36. **SUSPENSION OF TRAFFIC CONTROL OPERATION:** The permittee, upon notification by the Department's representative, shall immediately suspend all lane closure operations and any operation that impedes the flow of traffic. All costs associated with this suspension shall be borne by the permittee.

37. **UNDERGROUND SERVICE ALERT (USA) NOTIFICATION:** Any excavation requires compliance with the provisions of Government Code Section 4216 et. seq., including, but not limited to notice to a regional notification center, such as Underground Service Alert (USA). The permittee shall provide notification at least 48 hours before performing any excavation work within the right of way.

NOTES:
1. California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.
2. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
3. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.

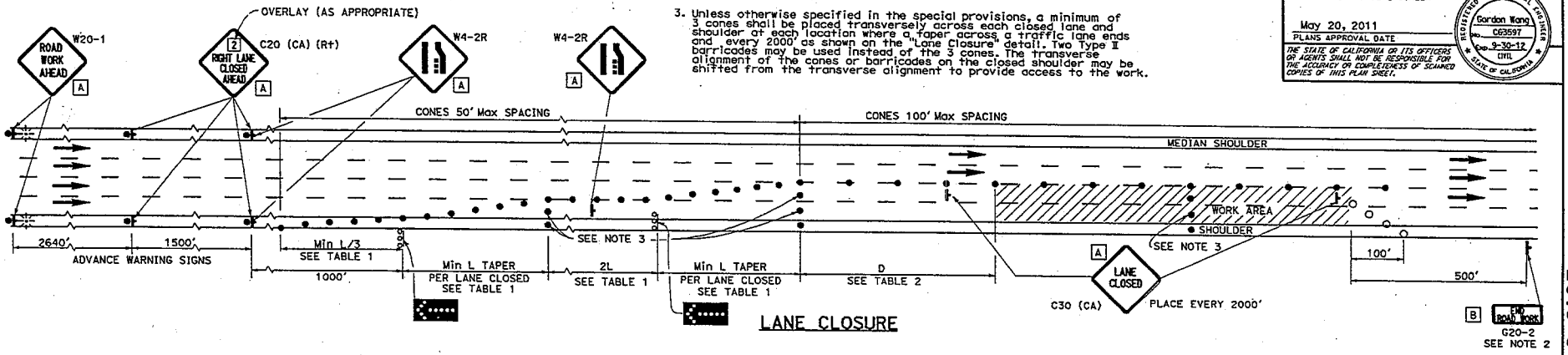
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

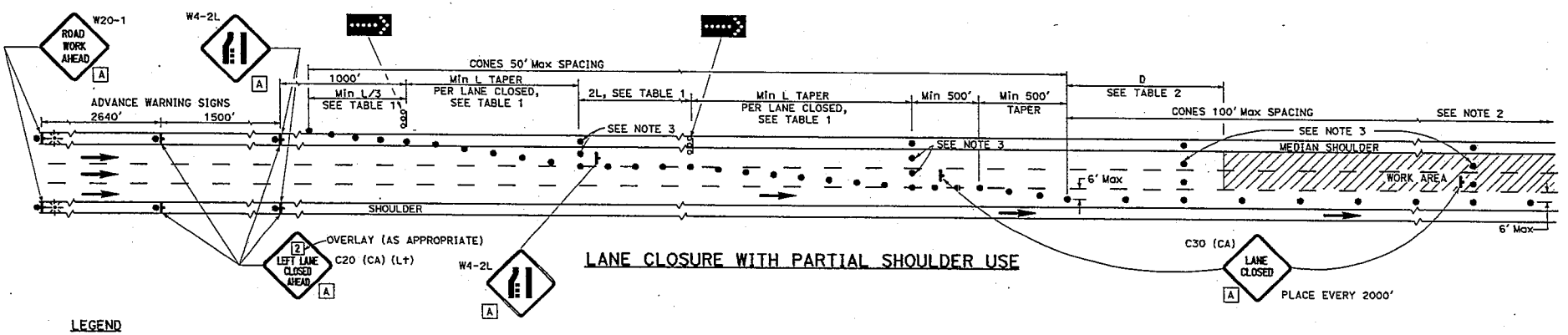
May 20, 2011
PLANS APPROVAL DATE

Gordon Wang
C63597
Exp. 9-30-12
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



LANE CLOSURE



LANE CLOSURE WITH PARTIAL SHOULDER USE

LEGEND

- ● TRAFFIC CONE
- ○ TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- DIRECTION OF TRAVEL
- PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 48" × 48"
- B 48" × 24"

TABLE 1

APPROACH SPEED	Min L	Min 2L	Min L/2	Min L/3
mph	ft	ft	ft	ft
55	660	1320	330	220
60	720	1440	360	240
65	780	1560	390	260
70	840	1680	420	280

* USE L FOR LANE WIDTHS LESS THAN OR EQUAL TO 12'.

TABLE 2

APPROACH SPEED	Min D	DOWNGRADE Min D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

T10

TABLE 1

APPROACH SPEED	* Min L	* Min L/2	Max SPACING OF CONES
mph	ft	ft	ft
20 AND BELOW	80	40	10
25	125	65	12
30	180	90	15
35	245	125	17
40	320	160	20
45	540	270	22
50	600	300	25
55	660	330	27
60	720	360	30
65	780	390	32

* USE L FOR LANE WIDTHS LESS THAN OR EQUAL TO 12'.

TABLE 2

APPROACH SPEED	Min D	DOWNGRADE Min D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

TABLE 3

DISTANCE BETWEEN SIGNS			
ROAD TYPE	Min A (ft)	Min B (ft)	Min C (ft)
URBAN (SPEED 25 mph OR LESS)	100	100	100
URBAN (SPEED 30 mph OR MORE)	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

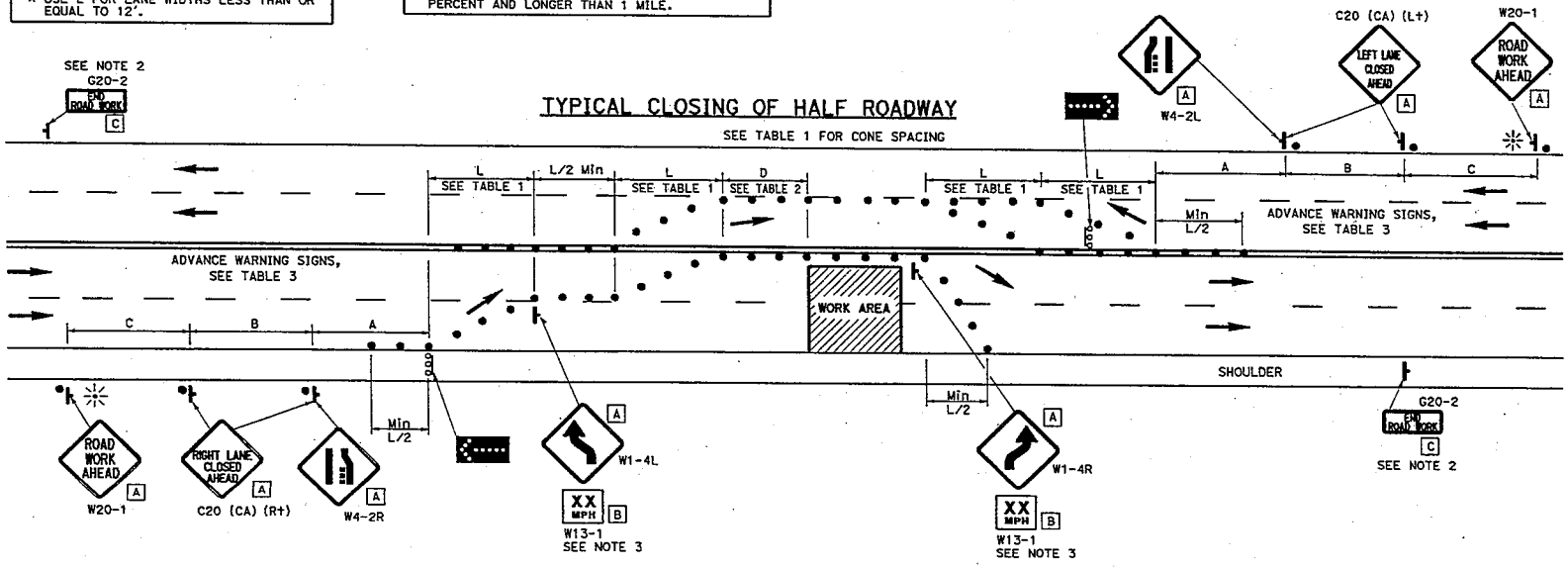
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER Gordon Wong C63597 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

TYPICAL CLOSING OF HALF ROADWAY



LEGEND

- TRAFFIC CONE
- TEMPORARY SIGN
- DIRECTION OF TRAVEL
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- [A] 48" x 48" - SPEED OF 45 mph OR MORE
  36" x 36" - SPEED LESS THAN 45 mph
- [B] 30" x 30" - SPEED OF 45 mph OR MORE
  24" x 24" - SPEED LESS THAN 45 mph
- [C] 48" x 24" - SPEED OF 45 mph OR MORE
  36" x 18" - SPEED LESS THAN 45 mph

NOTES:

1. California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.
2. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
3. Advisory speed will be determined by the Engineer. The W13-1 Sign will not be required when advisory speed is more than the posted or maximum speed limit.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR HALF ROAD CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS AND EXPRESSWAYS

NO SCALE

T12

10-26-10

Encroachment Permit Work Scheduling Request Form

Submit request to schedule traffic control weekly, 7 days in advance, using this form. Submit to Permit Duty Station by FAX, **510-286-3960**, or E-mail: *Permit_Duty_Engineer@dot.ca.gov*. ***Reminder!*** - Notify Inspector listed on page 1 or 2 of your Permit. Check Permit Special Provisions for authorized **work hours**. Any deviation from the Permit must be requested in writing.

INSTRUCTIONS AND ABBREVIATIONS: See Procedures on reverse of this form (page 2).

1. Permit No.: _____ 2.Expiration Date: _____ 3. Request Date: _____

4. Caltrans Inspector: _____ 5. Requested Work Week: _____ to _____

6. Route: _____ 7. County: _____ 8. City or township: _____

9. ☐ Post Miles From: _____ To: _____ 10. Existing Lanes (in each Dir): Dir_____ Lns_____ / Dir_____ Lns_____

11. Describe Location (use landmark if necessary): From: _____ To: _____

12 Name of Conventional Highway or Surface St: _____

13. (a through k) Fill in or 'x' if applicable: (a) ☐ Divided Hwy *or* ☐ Undivided Hwy (b) ☐ Full-Closure ☐ 1 dir or ☐ both dir

(c) ☐ One-way Traffic Control: Only on "Undivided" Hwy (*Alternate use of same lane for both directions--hold trfc 5 –10 min w/flaggers*)

(d) ☐ Connector Ramp: (*State Highway #*) _____ to (*State Highway #*) _____ Closed ☐ *or* Lane # _____

(e) ☐ Off/ramp: *(Freeway to City St)* Ramp Name: _____ Off/ramp Closed ☐ *or* Lane#: _____

(f) ☐ On/ramp: *(City St to Freeway)* Ramp Name: _____ On/ramp Closed ☐ *or* Lane#: _____

(g) ☐ Divert Trfc or Contra Flow: Reconfigure lanes/divert trfc to Lane# ___ in the ___ Direction; ___ Lane(s) open ea direction.

(h) ☐ Intermittent Traffic Control (i) ☐ Various Locations (j) ☐ Long-Term (24+ hours continuous) ETO _____

(k) Year:			Time		Dir		* * * * * * Restricted Lanes * * * * * *																	Brks		Closure ID#
From DATE	To DATE	DAY(S) SU-M-T-W-TH-F-SA	24-HR CLOCK Start (10-97)	Finish (10-98)	NB EB	SB WB	Full Closure See Detour	SHLDR L	SHLDR R	1	2	3	4	5	6	V L	Aux or Coll	CD or Med	TURN PCKT(S) L	TURN PCKT(S) R	Park Strip	5 to 15 Min	Roll -ing	*Caltrans will complete & return*

14. Description of work/comments: _____

15. Detour (*Required for full closure*): _____

16. Contingency Plan: _____

17. On-site during work (*circle if applicable*) CHP / PD / Other: _____

18. Name:	Permittee or Permittees Representative/Contractor:	
	Address including zip code:	
On-site Personnel Contact Name of person in responsible charge & phone number(s).	Name:	
	Email:	
	Office:	FAX:
	Cell:	Emergency phone number 24/7:

19. **"REAL-TIME" STATUS INSTRUCTIONS – PLEASE MAKE YOUR FIELD PERSONNEL AWARE & RESPONSIBLE!**
Permittee shall **STATUS** scheduled work **DAILY** via Caltrans 24-Hour Communication Center at **510-286-6359.** Status using Closure ID No(s) at the start of work, **(10-97),** and again when work is finished for the day, **(10-98).** To cancel **(10-22),** phone **510-286-6359** or fax to **510-286-6358** before the scheduled 10-97 time, but no later than 1 hour prior to the scheduled 10-98 time. Any **delay** in picking up your closure must be reported immediately to **510-286-6359** or Permit Inspector. See item 9 on reverse/page 2.

ENCROACHMENT PERMIT WORK SCHEDULING PROCEDURES

1. **INSTRUCTIONS:** Fill in blanks or check appropriate boxes. Attach maps or diagrams, if available. Enter **beginning day** through **ending day of work week** (M-T-W-TH-F-SA-SU). **Month/Day:** Enter month (1-12) and day (1-31) of requested week. **Start & Finish Time:** Use 24 hour clock format. **Read page 2** of your Permit Special Provisions for **hours** & days allowed. Separate lane closure #'s are required for each direction and facility. Use separate line for each. **Lanes are numbered in direction of travel from left to right,** excluding turn pockets; left being #1 or "fast lane". Check boxes under **RESTRICTED LANES** to indicate lanes or parts of highway to be closed. **"VL"(Various Lanes)** may be checked with note in Comments Section stating number of lanes to remain open at all times.
2. **ABBREVIATIONS:** **Aux**=auxiliary, **CD**=Center Divide; **Coll**=Collector; **Conn**=Connector; **Contra Flow**=Close 1 direction of traffic and divert to lane(s) in opposite direction or a turn lane. **Day of Week**=(M-T-W-TH-F-SA-SU); **Dir**=Direction (**NB**=North, **SB**=South,**WB**=West, or **EB**=East); **F/L**=fog line; **Lns**=Lanes; **L**=Left; **Med**= Median; **Off/R**=Off-Ramp; **On/R**=On-Ramp; **Park Strip**=Parking area parallel to lane; **Pckt**=Pocket; **Roll**=Rolling (for closure such as sweeping); **R**=Right; **Shldr**=Shoulder; **SR**=State Route; **V/L**=Various Lanes; **V/Loc**=Various Locations.
3. Requests for scheduling shall be submitted on this form via FAX to 510-286-3960, or, via E-Mail to *Permit_Duty_Engineer@dot.ca.gov*, or, through the designated State Representative (page 1 of permit).
4. All permitted work (**with or without traffic control**) is subject to advance scheduling on this form, seven (7)days in advance of the work week requested. Submittals and approvals shall continue on a weekly basis.
5. If work begins weekly on Sunday, the work week shall be Sunday through Saturday. If work week begins on Monday, the work week shall be Monday through Sunday.
6. Incomplete, illegible, or inaccurate requests may be returned for correction. Assistance for completing the request may be obtained from the designated State Representative.
7. Every attempt will be made to return timely requests with closure ID or work authorization numbers, to the Permittee by close of business on Thursday, prior to the scheduled work week. When deemed necessary to ensure public convenience, Caltrans may deny and/or reschedule the request.
8. All requests must include a contingency plan for restoring public traffic (i.e. reopening of a closed lane, ramp and/or shoulder) in the event of (1) CHP or the local authority requires opening due to an unforeseeable incident in the nearby vicinity, or (2) permitted experiences an equipment breakdown, shortage of or lack of production materials or any other failure which would otherwise delay restoring public convenience within the time limits specified in the permit. The contingency plan shall include availability of any proposed standby equipment and stockpiled materials that can be utilized for the immediate opening of closures when ordered by the State representative. Acceptance of the contingency plan by the Engineer shall not relieve the Contractor from the requirement of opening the restricted travel way to accommodate public traffic as specified in the lane closure hour's section of the permit provisions.
9. Caltrans will review and process the request by entering all information into the State-wide Lane-Closure System (LCS). This process generates a work authorization number*. This number will be entered on the request form and returned to Permittee as approval to proceed AND will be used to **"Real-Time Status"** on a daily basis. Permittee shall communicate with Caltrans 24-hour District Communication Center (DCC) via telephone at **510-286-6359** twice daily when working, or once daily if cancelled.
   a. When work begins (first cone down), Permittee shall contact Caltrans DCC and relay: **"(Closure ID #*) is 10-97".**
   b. When work ends (last cone removed), Permittee shall contact Caltrans DCC and relay: **"(Closure ID #*) is 10-98".**
   c. If the work is cancelled on any scheduled day, Permittee shall contact Caltrans DCC and relay; **"(Closure ID #*) is 10-22".** A "10-22" (cancellation) can be phoned at anytime before the scheduled "10-97" time, but no later than 1 hour prior to scheduled "10-98" time. You may be asked to fax confirmation of "10-22" to the **DCC FAX** at **510-286-6358.**
   d. During the work, any unexpected occurrences including delayed openings, accidents, etc., shall be communicated to Caltrans DCC @ **510-286-6359,** immediately.

Avoid possible miscommunication when calling status. Use the **PHONETIC ALPHABET** to state your Closure ID:
A = Adam, **B** = Boy, **C** = Charles, **D** = David, **E** = Edward, **F** = Frank, **G** = George, **H** = Henry, **I** = Ida, **J** = John, **K** = King, **L** = Lincoln, **M** = Mary, **N** = Nora, **O** = Ocean, **P** = Paul, **Q** = Queen, **R** = Robert, **S** = Sam, **T** = Tom, **U** = Union, **V** = Victor, **W** = William, **X** = X-ray, **Y** = Yellow, **Z** = Zebra. *Example:* P82CA="Paul 82 Charles Adam"

10. The intent of these procedures is to help ensure public convenience by identifying planned closures on the State Highway system, resolving potential conflicts, and disseminating all available **"REAL-TIME"** information, via the traffic media to all motorists, including but not limited to the public, CHP, local police and sheriffs' office, and emergency fire and rescue personnel.

**** "closure ID number" is the same as "work authorization number"***

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

CUSTOMER SERVICE QUESTIONNAIRE

TR-0164 (REV 2/2001)

PERMIT NUMBER 0412-NMC 0099

Dear Customer,

Our goal is to provide the best service possible to our customers. Please take a few minutes to complete this questionnaire. Your comments will enable us to see how we are doing overall and any areas which may need improvement.

PLEASE TELL US HOW WE'RE DOING

INSIDE THE OFFICE	EXCELLENT	VERY GOOD	GOOD	POOR
Staff courteous and helpful	☐	☐	☐	☐
Staff quick and efficient	☐	☐	☐	☐
Explanations and instructions clear	☐	☐	☐	☐
TELEPHONE ANSWERING				
Timely response	☐	☐	☐	☐
Receiving information or answers	☐	☐	☐	☐
INSPECTION				
Inspector courteous and helpful	☐	☐	☐	☐
Pre-construction meeting set and held in a timely manner	☐	☐	☐	☐
Inspector at job site frequently	☐	☐	☐	☐
Inspector able to answer questions and deal with problems	☐	☐	☐	☐
OVERALL PERFORMANCE				
What would you say is our overall performance?	☐	☐	☐	☐
Is there a staff person you would like to commend?	STAFF'S NAME:			

COMMENTS:

NAME (Optional)	BUSINESS PHONE NUMBER	DATE

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

PLEASE FOLD HERE AND STAPLE

Caltrans
CALIFORNIA DEPARTMENT OF TRANSPORTATION

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES

BUSINESS REPLY MAIL
FIRST- CLASS MAIL PERMIT NO. 1763 OAKLAND, CA

POSTAGE WILL BE PAID BY ADDRESSEE

State of California
DEPARTMENT OF TRANSPORTATION
P.O.Box 23660
Oakland, CA 94623-0660
Attn: Office of Encroachment Permit

ATTACHMENT B

BART ENCROACHMENT PERMIT
AND
INSURANCE REQUIREMENTS

Note that work on this project within BART property requires a BART encroachment permit (obtained by the City). Contractor shall obtain the required insurance for this work as in the attached encroachment permit, and comply with all permit conditions.

SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT
300 Lakeside Drive, P.O. Box 12688
Oakland, CA 94604-2688
(510) 464-6000

2012

John McPartland
PRESIDENT

Tom Radulovich
VICE PRESIDENT

Grace Crunican
GENERAL MANAGER

DIRECTORS

Gail Murray
1ST DISTRICT

Joel Keller
2ND DISTRICT

Bob Franklin
3RD DISTRICT

Robert Raburn
4TH DISTRICT

John McPartland
5TH DISTRICT

Thomas M. Blalock, P.E.
6TH DISTRICT

Lynette Sweet
7TH DISTRICT

James Fang
8TH DISTRICT

Tom Radulovich
9TH DISTRICT

CITY OF SAN LEANDRO
835 East 14th Street
San Leandro, CA 94577

PERMIT NO. A-08.4-002-SL

PERMIT TO ENTER (PERMANENT IMPROVEMENTS)

Subject to the following covenants, terms, conditions and restrictions, the San Francisco Bay Area Rapid Transit District (hereinafter "District" or "BART") hereby grants permission to City of San Leandro (hereinafter "Permittee") (collectively, the "Parties") to install maintain and use new bulbouts, sidewalk/pedestrian improvements, and ramp to parking lot from Davis Street intersection , (hereinafter the "Improvements") upon District property located along San Leandro Blvd. between Davis Street and Williams Street and in the City of San Leandro, County of Alameda, (hereinafter "Premises"), as shown on Exhibit "A," (City of San Leandro drawings titled: BART-Downtown Pedestrian Interface, Sheets 1 through 74, dated 1/20/12) attached hereto and incorporated herein by reference.

1. Subject to Section 20 below, the term of this Permit shall commence on October 15, 2012, and end on December 31, 2013, provided, however, that at any time during the term, the Permit may be terminated by either party upon thirty (30) days prior written notice to the other party. Said notice shall be sent certified mail, return receipt requested, to:

City of San Leandro
835 East 14th Street
San Leandro, CA 94577
Attn: Mark Goralka

or

Real Estate and Property Development Department
San Francisco Bay Area Rapid Transit District
300 Lakeside Drive, 22nd Floor
Oakland, California 94612
Attention: Jeffrey P. Ordway, Manager

The notice period shall begin to run upon receipt of said notice.

www.bart.gov

2. The fee for this Permit shall be calculated pursuant to the attached Fee Schedule in effect when staff time is expended, pursuant to the policy adopted by the BART Board of Directors in Resolution No. 4989. An application fee pursuant to such Fee Schedule has been waived prior to issuance of this Permit (public agency). Fees to reimburse BART for plan review and inspection will be billed to Permittee upon completion of the Work and shall be paid to BART within thirty (30) days of the invoice date. A 10% late fee will be assessed on the balance if payment is not received within said 30 days of the invoice date. The late fee will be increased to 20% on the original balance if payment is not received within 60 days of the invoice date. BART reserves all rights to pursue all appropriate remedies to collect outstanding payments and penalties that have not.been paid by Permittee within 90 days of the invoice date.

3. Permittee's right to use this area shall be non-exclusive and non-transferable, and shall be for the sole purpose of constructing, maintaining and using the Improvements. In no event shall District's property be deemed to be a public right-of-way. Overnight parking is prohibited on District's property.

4. Conditions of Use:

4.a Permittee shall have Underground Service Alert and an independent utility locator service mark out the trench locations prior to digging.

4.b All new ramps installed shall comply with ADA accessibility code requirements.

4.c Permittee shall not block pedestrian/vehicular access to the San Leandro BART Station at any time. Permittee shall submit to BART a traffic control plan 30 calendar days in advance of any work. Permittee shall receive BART's written approval prior to starting work.

4.d BART shall not be responsible for any impact to the Permittee's work due to BART operations. Any change in the scope of this permit shall be subject to a separate amendment.

5. Attached for reference are eight BART as-built drawings (104716, 104717, 104718, 104726, LA21, LA24, CT43, CT44). The drawings attached are for reference only and do not represent all utilities. The accuracy of the as-builts is not guaranteed.

6. Permittee agrees that, as an essential condition to issuance of this Permit, BART shall not assume any responsibility or liability to Permittee or any other person for damage to Permittee's facilities caused by BART, subject to the following limitation. Except for claims arising out of BART's gross negligence or willful misconduct, Permittee shall defend, indemnify and hold harmless BART, its directors, officers, agents and employees from all claims, demands, suits, loss, damages, injury and liability, direct or indirect (including any and all cost and expenses in connection therewith), incurred by reason of any act, or failure to act, of BART, its officers, agents, employees and subcontractors or any of them, in connection with Permittee's facilities. Except for claims arising out of BART's gross negligence or willful misconduct, Permittee agrees at its own cost, expense and risk to defend any and all claims, actions, suits or other legal proceedings brought or instituted against BART, its directors, officers, agents and employees, or any of them, arising out of BART's act or failure to act in connection with Permittee's facilities, and to pay and satisfy any resulting judgments, settlements or other expenses associated therewith.

7. Conditions of this Permit shall be binding on all future owners of the Improvements. Permittee shall notify the Manager of the Real Estate and Property Development Department of any change in ownership of the Improvements.

8. The cost of repair and any and all losses caused by Permittee's damage to any BART property or facility, or resultant loss of service, shall be at the sole expense of Permittee. Any damage to BART property or facilities shall be repaired or remedied by either Permittee or BART, at BART's discretion, and at Permittee's sole cost and expense. Permittee agrees to reimburse BART promptly for any such damage.

9. Permittee shall have the duty and agrees to exercise reasonable care to properly maintain District's property pursuant to this Permit, including, but not limited to, removing debris dumped or placed on the Premises during the term of this Permit, from any source, and to exercise reasonable care inspecting for and preventing any damage to any portion of District's property.

10. Permittee acknowledges that said Improvements constitute an encroachment upon BART's property and agrees to construct, repair, maintain and use said Improvements in accordance with and subject to the provisions of this Permit, applicable provisions of the "General Terms and Conditions Relating to Utility Permits," attached hereto as Exhibit "B," and incorporated herein by reference, and all applicable state and local laws. Where there is a conflict between the provisions of this Permit and the "General Terms and Conditions Relating to Utility Permits," this Permit shall prevail.

11. Permittee agrees to notify District's Construction Liaison in the Construction Services Division, John Fu at (510) 464-6439, at least 14 calendar days prior to any use of the Premises. Should Permittee require any utility hook-ups, Permittee will obtain all necessary permits and pay all fees in connection therewith. Permittee shall not engage in any activity on District property until all necessary permits, licenses and environmental clearances have been obtained.

12. Permittee shall not (a) use, generate, or store, or allow its employees, contractors or agents to use, generate, or store any Hazardous Materials on the Premises, except for those materials required to perform the Work permitted under this Permit and in compliance with all federal, state and local laws and regulations for the protection of the environment, human health and safety, as now in effect or hereafter amended (hereinafter "Environmental Laws"); or (b) release or dispose of, or allow its employees, contractors or agents to release or dispose of, any Hazardous Materials on the Premises. "Hazardous Materials" are those materials now or hereafter (a) defined as hazardous substances or hazardous wastes pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (42 U.S.C. section 9601 et seq.) or the Resource Conservation and Recovery Act (42 U.S.C section 6901 et seq.); (b) listed in the Hazardous Substances List, Title 8, California Code of Regulations, G.I.S.O. Section 337-339, or those which meet the toxicity, reactivity, corrosivity or flammability criteria of the above Code; (c) characterized, regulated or subject to permitting or warning requirements as hazardous or toxic materials, substances, chemicals, pollutants, contaminants or wastes, or as materials for which removal, remediation or disposal is required, under any Environmental Laws; or (d) otherwise posing a present or potential hazard to human health, welfare or the environment.

13. BART shall at all times have the right to go upon and inspect the Premises and the operations conducted thereon to assure compliance with any of the requirements in this Permit. This inspection may include, but is not limited to, taking samples of substances and materials present for testing.

14. Permittee shall be responsible for and bear the entire cost of removal and disposal, in compliance with Environmental Laws, for all Hazardous Materials and non-hazardous wastes introduced to the Premises during Permittee's use and possession of the Premises. Permittee shall also be responsible for any remediation on or off the Premises necessitated by such Hazardous Materials or non-hazardous wastes. As used herein, "remediation" includes any investigation or post-cleanup monitoring that may be necessary in compliance with Environmental Laws. For purposes of disposal, Permittee shall be the generator of any such Hazardous Materials and shall provide a generator identification number on manifests for such disposal as required by Environmental Laws.

15. To the extent that any New Environmental Condition is caused by, or any Pre-existing Environmental Condition is contributed to or exacerbated by, Permittee's acts or omissions (including those of its employees, contractors and agents) during its use and possession of the Premises, Permittee shall, at BART's discretion, either (a) perform remediation of such New Environmental Condition or Pre-Existing Environmental Condition, at Permittee's cost and expense, in compliance with Environmental Laws and subject to the approval of a governmental agency with jurisdiction; or (b) indemnify BART against all costs incurred by District in performing remediation of such New Environmental Condition or Pre-Existing Environmental Condition. A "New Environmental Condition" is defined as the release or threatened release of Hazardous Materials on, about, under or emanating from the Premises as of the commencement date of this Permit. A "Pre-Existing Environmental Condition" is defined as the release or threatened release of Hazardous Materials on, about, under or emanating from the Premises prior to the commencement date of this Permit.

16. Permittee agrees to assume responsibility and liability for, and defend, indemnify and hold harmless BART, its directors, officers, agents and employees from all claims, demands, suits, losses, damages, injury, and liability, direct or indirect (including any and all costs, fees and expenses in connection therewith) arising from the introduction on the Premises of any Hazardous Materials or non-hazardous wastes by Permittee (including its employees, contractors and agents) or from any New Environmental Condition to the extent caused by, or any Pre-existing Environmental Condition to the extent contributed to or exacerbated by, the acts or omissions of Permittee (including those of its employees, contractors and agents) during its use and possession of the Premises.

17. Permittee agrees to assume responsibility and liability for, and defend, indemnify and hold harmless BART, its directors, officers, agents and employees from all claims, demands, suits, losses, damages, injury, and liability, direct or indirect (including any and all costs, fees and expenses in connection therewith), caused by acts or omissions of Permittee, its employees, contractors and agents in connection with the Work done pursuant to this Permit, except to the extent such losses are caused by the gross negligence or willful misconduct of the District. Permittee agrees at their own cost, expense and risk to defend any and all actions, suits, or other legal proceedings brought or instituted against BART, its directors, officers, agents and employees arising

from the acts or omissions of Permittee, its employees, contractors and agents in connection with the Work done pursuant to this Permit, and to pay and satisfy any resulting judgments, settlements or other expenses associated therewith.

18. To the extent that a governmental agency with jurisdiction requires remediation of any Pre-Existing Environmental Condition that is discovered as a result of Permittee's activities pursuant to this Permit, and is not contributed to or exacerbated by the acts or omissions of Permittee, its employees, contractors or agents, Permittee shall, at BART's discretion, either (a) perform remediation of such Pre-Existing Environmental Condition, at Permittee's cost and expense, in compliance with Environmental Laws and subject to the approval of a governmental agency with jurisdiction; or (b) indemnify BART against all costs incurred by BART in performing remediation of such Pre-Existing Environmental Condition.

19. Permittee agrees that no easement, lease or other property right is acquired by Permittee through this Permit.

20. Upon any use of BART property by Permittee other than that authorized by this Permit, or upon failure of the Permittee to conform to any of the terms and conditions of this Permit, BART may terminate this Permit immediately.

21. Upon Permit expiration, Permittee shall leave the completed Improvements on the Premises, and within 30 days shall otherwise restore to its former condition all BART property which has been disturbed by Permittee, except as provided otherwise in the Permit. Restoration shall include, but not be limited to, removal of all equipment, materials, debris and the like, and repair of any damage. If Permittee fails to restore BART property as required herein, BART may perform such restoration or removal at Permittee's sole expense. If the Permit expires or is terminated prior to the completion of Improvements, BART may elect, at its sole discretion, to require Permittee to leave the Improvements on the Premises or remove them and restore the Property.

22. Insurance shall be provided by Permittee as stated in Exhibit "C" attached hereto and incorporated herein by reference. Insurance shall be approved by BART's Insurance Manager prior to any use of the Premises.

SAN FRANCISCO BAY AREA
RAPID TRANSIT DISTRICT

By_____ Date_____
Jeffrey P. Ordway, Manager
Real Estate and Property Development Department

ACCEPTED
CITY OF SAN LEANDRO

By_____ Date_____

Name_____

Title_____

A-08.4-002-SL.pte.doc

BART

SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT

GENERAL TERMS AND CONDITIONS RELATING TO UTILITY PERMITS

EXHIBIT "B"

All Utility Permits issued by the San Francisco Bay Area Rapid Transit District to privately and publicly owned utilities relating to poles, wires, cables and other overhead structures, pipes, conduits, manholes and other miscellaneous underground facilities, railroad crossings, storm drains, flood control and minor work are subject to the following General Terms and Conditions contained herein as well as the specific conditions set forth on the face of the Permit.

1. DEFINITION:

Each Utility Permit (hereinafter referred to as "Permit") is issued by the San Francisco Bay Area Rapid Transit District (hereinafter referred to as BART) by the Manager of Real Estate Services.

Applicant (hereinafter referred to as "Permittee") understands and agrees that except as otherwise provided, all Permits issued by BART are subject to the terms and conditions contained herein.

2. REVOCABILITY AND MODIFICATION:

Any Permits issued hereunder are revocable upon thirty (30) days written notice by BART, and the terms and conditions thereof shall be subject to modification by BART at any time. Any Permit is revocable immediately in the event of any use other than that authorized by the Permit, or upon failure of the Permittee to conform to any of the terms and conditions of the Permit.

3. NEW WORK PERFORMED ON EXISTING PERMIT:

No new work can be initiated by a Permittee based upon a prior Permit unless that Permit specifically sets forth the nature and method of such future work at the time of the original approval and if the prior Permit has not expired.

If occupation of BART right-of-way is under easement or previous agreement with BART, new installations and work must be applied for to provide BART with notice and record of new work, and for inspection and approval by BART relating to construction and safety procedures. All prior rights shall be fully protected in such cases.

4. ACCEPTANCE OF PROVISIONS:

It is understood and agreed by Permittee that doing any work under a Permit shall constitute an acceptance of the terms and conditions contained herein except as otherwise specifically provided in the Permit.

5. NO PRECEDENT ESTABLISHED:

It is understood and agreed by Permittee that approval of a particular action under a Right of Entry or Permit shall not establish a precedent for similar future requests by Permittee.

6. NOTICE PRIOR TO STARTING WORK:

Before starting work on which full inspection is required in the Permit, the Permittee shall notify BART's Special Services Section in writing fourteen days in advance of the day work is to begin. Five days notice shall be given on Permits where partial inspection is specified.

7. PERMIT AT SITE OF WORK:

The Permit or a copy thereof shall be available at the site of the work and must be shown to any representative of BART on demand.

8. PERMITS FROM OTHER AGENCIES:

The party or parties to whom a Permit is issued shall, whenever the same is required by law, secure the written order or consent to any work under a Permit from the Public Utilities Commission of the State of California or any other public agency having jurisdiction and any Permit shall not be valid until such order or consent is obtained.

9. PROTECTION OF TRAFFIC WHEN APPLICABLE:

Adequate provisions shall be made for the protection of the traveling public when construction affects cross streets along BART right-of-way. Warning signs, lights, safety devices and other measures required for the public safety shall conform to requirements of the Vehicle Code.

10. RAIL CLEARANCE AT OR NEAR GRADE:

No construction material shall be stored, nor equipment parked within 10 feet, measured at right angles, from the outer edge of the BART aerial structure or BART right-of-way fence, whichever is greater. Construction equipment operating adjacent to BART tracks or facilities shall be so situated and restrained so as not to fail in a manner that would potentially damage BART facilities or to interfere with BART's operating envelope. Any activity within 10 feet, measured at right angles, of BART's aerial structure or rail shall be conducted during non-revenue service hours and shall be subject to Track Allocation clearance.

11. LIMIT OF EXCAVATION AT OR NEAR GRADE:

No excavation is to be made closer than 10 feet, measured at right angles, from the edge of rail except as specified in the Permit. Depth of excavation shall be subject to inspection and approval by BART's Special Services Section.

12. STANDARDS OF CONSTRUCTION:

All work performed within BART right-of-way shall conform to Civil and Structural Design Criteria, latest revision, by this reference made a part hereof.

13. APPROVAL BY BART:

All work shall be subject to inspection and approval by BART. The type of inspection will be specified in each Permit.

14. CLEAN UP OF RIGHT-OF-WAY:

Upon completion of the work, the right-of-way shall be left in the same condition as existed before work started.

15. MAINTENANCE:

Permittee agrees, by acceptance of a Permit, to exercise reasonable care to properly maintain any installation placed in BART right-of-way and to exercise reasonable care in preventing damage to any portion of right-of-way or to BART's facilities as a result of work done under a Permit.

16. RESTORATION:

Within 30 days of the expiration or earlier termination of a Permit, Permittee shall, at its sole expense, restore to its former condition any portion of the right-of-way or of any BART facility which has been disturbed by Permittee, except as provided otherwise in the Permit. Restoration shall include, but not be limited to, removal of improvements, equipment, materials, debris, and the like, and repair of any damage. If Permittee fails to restore BART property as required herein, BART may perform such restoration at Permittee's sole expense.

17. CARE OF DRAINAGE:

If the work contemplated in any Permit interferes with established drainage, provision shall be made by Permittee to re-establish equal drainage conditions as may be directed by BART, at Permittee's sole expense.

18. SUBMISSION OF PLANS:

For installation of all underground facilities and surface work, Permittee shall submit for approval a plan showing location and details with its application. Three sets of as-built plans shall be filed with BART upon completion and approval of work. Any substantial change from plans submitted with the application must be approved by BART prior to commencement of work.

19. EXPENSE OF INSPECTION, PREPARATION, AND ADMINISTRATION:

On installations made under request of Permittee which require the presence of any employee of BART as inspector, the cost of such inspection during the work shall be paid by Permittee upon presentation of bills therefor. In addition, Permittee agrees to promptly pay BART for costs involved in the preparation, administration and processing of the Permit and its provisions upon presentation of bills therefor per the fee schedule in Resolution No. 4515, adopted by the District's Board of Directors.

20. LIABILITY FOR DAMAGES:

Permittee agrees to assume responsibility and liability for all damage, loss or injury of any kind or nature whatever to persons or property, caused by or resulting from or in connection with work done by Permittee under a Permit or which may arise out of failure on Permittee's part to perform their obligations under any Permit. In the event any claim of such liability is made against BART, or any department, officer, or employee thereof, Permittee shall defend, indemnify and hold them, and each of them harmless from such claim, and pay and satisfy any resulting judgments. At its sole discretion, BART may require that Permittee obtain a bond and/or insurance in connection with the Permit.

21. FUTURE MOVING OF INSTALLATIONS:

It is understood by Permittee that whenever BART construction, re-construction or maintenance work on BART right-of-way may be required, and upon request by BART, the Permittee's installation shall be immediately moved by and at the sole expense of Permittee except as otherwise provided for by a specific Permit provision.

22. ROUTINE MAINTENANCE OF PERMITTEE'S FACILITIES:

Permittee may perform routine work maintenance on Permittee's facilities in accordance with the Terms and Conditions set forth in the Permit. It will be necessary to provide fourteen days' prior written notice, unless otherwise stated, to BART's Construction Liaison prior to commencing any work within the property boundaries of BART. In emergencies, the Permittee shall notify BART's Construction Liaison by telephone and then follow up by confirming letter relating to the emergency and the disposition of the emergency.

23. PIPES, CONDUITS AND MISCELLANEOUS FACILITIES:

BART's Civil and Structural Design Criteria, latest revision, sets forth specification for installation and maintenance of all underground facilities within BART right-of-way. In addition to BART criteria, all installation and maintenance procedures by Permittee shall be in accordance with the applicable orders of the Public Utilities Commission of the State of California. When abandonment of facilities is contemplated, Permittee shall notify BART.

24. POLES, WIRES, CABLES AND OVERHEAD STRUCTURES:

Poles shall be located as specifically directed in the Permit. In addition to BART's Civil Structural Design Criteria, latest revision, all clearances and types of construction shall be in accordance with the applicable orders of the Public Utilities Commission of the State of California. Whenever it is necessary to secure permission from abutting property owners, such authority must be secured by Permittee prior to commencing work. Where removal of old poles, guys and stubs is necessary, the entire length of the abandoned pole, guy or stub shall be removed from the ground and the hole backfilled and thoroughly tamped.

25. CLEARANCE OF TREES:

All new pole line construction must allow sufficient vertical clearance for trees 40 feet in height. At locations where growing trees are in place, or Permittee's facilities are already in place, normal construction standards may be followed at the option of Permittee with the ultimate provision to clear a 40-foot tree. Protected cable, tree wire, or plastic tree wire guards may be used on telephone lines through trees provided neither the tree nor its appearance will be damaged. No guy wires are to be attached to trees or BART structures.

26. TRIMMING OF TREES:

Trimming of trees will be permitted only where specifically stated in a Permit. Except when specifically authorized in the Permit, removal of trees will generally be prohibited since all trees within BART right-of-way have been placed as landscaping. Permittee shall be required to conduct tree trimming at no cost to BART. In general, only light trimming of branches two inches or less in diameter will be permitted. The shapeliness of the trees must be preserved. If the permit requires inspection by BART during progress of the work, the cost of inspection shall be borne by the Permittee.

27. SERVICE CONNECTIONS:

These terms and conditions do not authorize installation of utility service connections within BART right-of-way regardless of location of Permittee's facilities. All such service connections or excavations to abandon services must be covered by individual Permits.

EXHIBIT "C"

Permit No. A-08.4-002-SL
Permit Description: City of San Leadro Installation of Bulbouts and new sidewalk/pedestrian improvements on San Leandro Blvd.; New ramp to parking lot from Davis Street intersection; Reconstruct bus exit-only driveway

INSURANCE

At all times during the life of this Permit, or as may further be required by this Permit, Permittee at its own cost and expense, shall provide the insurance specified as follows:

1. Evidence Required

At or before execution of this Permit, Permittee shall provide District with a certificate of insurance executed by an authorized representative of the insurer(s) evidencing that Permittee's insurance complies with this Article, including a copy of all required endorsements. Permit number (A-08.4-002-SL) shall be included in the space provided on the standard Certificate of Insurance form provided.

2. Notice of Cancellation, Renewal, Reduction or Material Change in Coverage.

All policies shall be endorsed to provide District with thirty (30) days prior written notice of any cancellation, reduction or material change in coverage. Notices shall be sent to the Department Manager, Insurance, San Francisco Bay Area Rapid Transit District, P. O. Box 12688, Oakland, California 94604-2688. The Permittee shall annually submit to the District's Department Manager, Insurance, certifications confirming that the insurance required has been renewed and continues in place (if required).

3. Qualifying Insurers

All policies shall be issued by California admitted companies which hold a current policy holders alphabetic and financial size category rating of not less than A:VIII according to Best's Insurance Reports.

4. Insurance Required

A. Commercial General Liability Insurance for bodily injury (including death) and property damage which provides limits of not less than Two Million Dollars ($2,000,000) per occurrence and Two Million Dollars ($2,000,000) annual aggregate as applicable.

1. Coverage shall include:
   a) Premises and Operations;
   b) Products/Completed Operations;
   c) Broad Form Property Damage;
   d) Blanket contractual liability coverage;
   e) Personal Injury liability; and
   f) Cross-Liability and Severability of Interests.
   g) Explosion, Collapse and Underground (XCU) *

2. Such insurance shall include the following endorsements:

   a) Inclusion of District, its directors, officers, representatives, agents and employees as additional insured as respects to Permittee's ongoing and completed operations in connection with this Permit;

   b) Stipulation that the insurance is primary insurance and that no insurance or self-insurance of District will be called upon to contribute to a loss.

3. For all applications involving construction or demolition work within 50 feet, vertically or horizontally, of the BART trackway and affecting any railroad bridge or trestle, tracks, road-beds, tunnel, underpass or crossing, the General Liability Insurance must not exclude coverage therein. In cases where this coverage is excluded from the policy, the following policy coverage is required:

   a) Railroad Protective Liability for bodily injury (including death), property damage, and physical damage, including loss of use thereof, to railroad property with limits of not less than TWO MILLION DOLLARS ($2,000,000) per occurrence and SIX MILLION DOLLARS ($6,000,000) in the aggregate annually applicable to all operations of Permittee and its contractors or subcontractor(s) within 50 feet vertically or horizontally of BART's trackway. BART shall have the right to approve of the policy wording. The named insured shall be San Francisco Bay Area Rapid Transit District. Prior to commencing work or entering BART property, Permittee or its contractor shall file the original copy of the policy with BART's Department Manager, Insurance. This coverage shall be maintained for the term of this Agreement (Permit).

B. Automobile Liability for bodily injury (including death) and property damage which provides a coverage limit of at least One Million Dollars ($1,000,000) combined single limit per occurrence applicable for all owned, non-owned and hired vehicles.

   1. With respect to the removal and transport of hazardous material or hazard-containing material, the policy shall include:

a. Coverage for the accidental release of hazardous waste defined in California Health and Safety Code (H & S) Section 25117 and listed in Title 22 California Code of Regulations Section 66260.10 and consequential containment, cleanup, disposal and penalties associated therewith.

b. Pollution Liability - Broadened coverage for covered autos which includes "covered pollution costs or expenses," which mean any cost or expense arising out of:

(1) Any request, demand or order; or

(2) Any claim or suit by or on behalf of a governmental authority demanding that the insured or others test for, monitor, clean-up, remove, contain, treat, detoxify, or neutralize, or in any way respond to, or assess the effects of pollutants.

C. Statutory Workers' Compensation and Employer's Liability Insurance for not less than One Million Dollars ($1,000,000) per accident applicable to Employer's Liability coverage for all employees engaged in services or operations under this Permit. The policy shall include broad form all-states/other states coverage. Coverage shall be specifically endorsed to include the insurer's waiver of subrogation in favor of the District, its directors, officers, representatives, agents and employees. Should any such work be subcontracted, Permittee shall require each subcontractor of any tier to similarly comply with this Article, all in strict compliance with federal and state law.

D. Pollution Liability Insurance for bodily injury (including death) and property damage, including natural resource damage and third party diminution in value claims. Coverage limits shall not be less than One Million Dollars ($1,000.000.) per occurrence for accidental release of hazardous materials as defined in California Health and Safety Code (H&S) Section 25117 and listed in the Title 22 California Code of Regulations Section 66260.10 and consequential containment, clean-up, disposal and penalties associated therewith.

E. Builders Risk (Course of Construction) Insurance. Builders Risk Course of Construction) Insurance provided on a Causes of Loss – Special Form policy, excluding earthquake, for the full replacement cost of materials, supplies, all property to be incorporated into the finished work, and completed work in an amount not less than the full completed value of the covered structure or the replacement value of alterations or additions. BART shall be named as a loss payee, and losses will be payable to both Developer and BART, as their interests may appear.

5. Special Provisions

A. The foregoing requirements as to the types and limits of insurance coverage to be maintained by Permittee, and any approval of said

insurance by District is not intended to and shall not in any manner limit or qualify the liabilities and obligations otherwise assumed by Permittee pursuant to this Permit, including but not limited to the provisions concerning indemnification.

B. The District acknowledges that some insurance requirements contained in this article may be fulfilled by a funded self-insurance program of the Permittee. However, this shall not in any way limit liabilities assumed by the Permittee under this Permit. Any self-insurance program must be approved by the District.

C. Should any of the work be contracted, Permittee shall require each of its contractors or subcontractors of any tier to provide the aforementioned coverage.

D. District reserves the right to terminate or suspend the Permit in the event of non-compliance with the insurance requirements of this Article. In no event shall any suspension entitle Permittee to an extension of the term of the Permit specified in this Article.

* (Note: XCU coverage (Section 4.A.1.g);Transport of hazardous material or hazard-containing material (Section 4.B.1); and Pollution Liability Insurance (Section 4.D) are only required when applicable (excavation, borings, etc.). Coverage limits may be increased, at the discretion of the District's Risk Manager, relative to risk involved).

2012 Exhibit C (A-08.4-002-SL).ins.doc

BART FEE SCHEDULE

Effective 7/1/2008

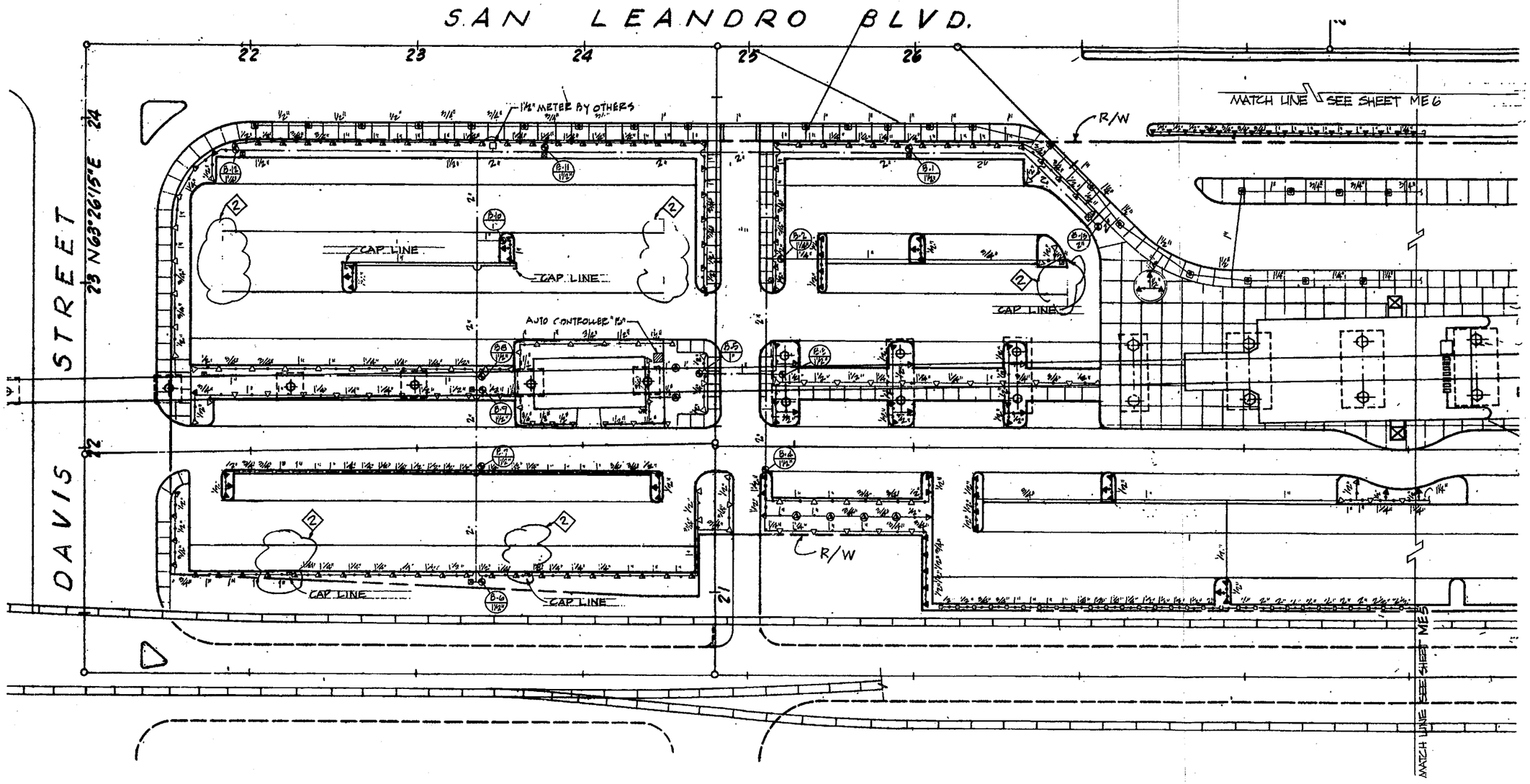
	APPLICANT	APPLICATION PROCESSING FEE (See Note 1)	AS-BUILT DEPOSIT (See note 4)	PLAN REVIEW FEE (See Note 1)	INSPECTION FEE (See Note 1)	CEQA REVIEW FEE (See Note 1)
PERMITS	UTILITY AND PERMITS TO ENTER					
	Public Agency or Non-Profit Entity	None (See Note 2)	$1,000.00 or $2,000.00	$121.00/hr – 2 hour min.	$121.00/hr – 2 hour min Normal hours, or $168/hr – 3 hour min. after normal hours (if needed)	$121.00/hr (See Note 3)
	Private Entity	$788 for initial and $210.00 per permit extension or amendment				
EASEMENTS	PROPERTY INTEREST REQUESTED (BOARD APPROVAL REQUIRED)					
	Public Agency or Non-Profit Entity	None (See Note 2) only the value of property interest	None	$121.00/hr – 2 hour min.	None	$121.00/hr (See Note 3)
	Private Entity	$975 plus value of property interest				
PLAN REVIEW	PROJECTS ADJACENT TO BART RIGHT OF WAY					
	Public Agency or Non-Profit Entity	None (See Note 2)	None	If less than 4 hours, there is no charge. If more than 4 hours, $121.00/hr (including first 4 hours)	$121.00/hr – 2 hour min.	$121.00/hr (See Note 3)
	Private Entity	None	None	$121.00/hr – 2 hour min.		

Note 1 This fee schedule will be amended at the beginning of each fiscal year pursuant to Board Resolution No. 4989, adopted by the Board on June 22, 2006. Reimbursement of staff time is based on the fees in effect when staff time is charged.

Note 2 Pursuant to Government Code Section 6103, public agencies are exempt from administrative application fees. Reimbursement of staff time for plan review and inspections is not exempt (Government Code Section 6103.7).

Note 3 BART is subject to the California Environmental Quality Act (CEQA) in granting entitlements for use. In addition to the hourly fee for environmental review and for preparation of any required documentation by BART, applicants will be responsible for reimbursing BART for any applicable filing fees. Filing fees currently range from $25.00 to $1,275.00 and are subject to change.

Note 4 The as-built deposit is $1,000.00 for projects less than $100,000.00 and is $2,000.00 for projects of $100,000.00 or more.



REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION
1	6-15-88	JV		AS BUILT-OIKM-110A SHT. ME4-1, PG. 55					

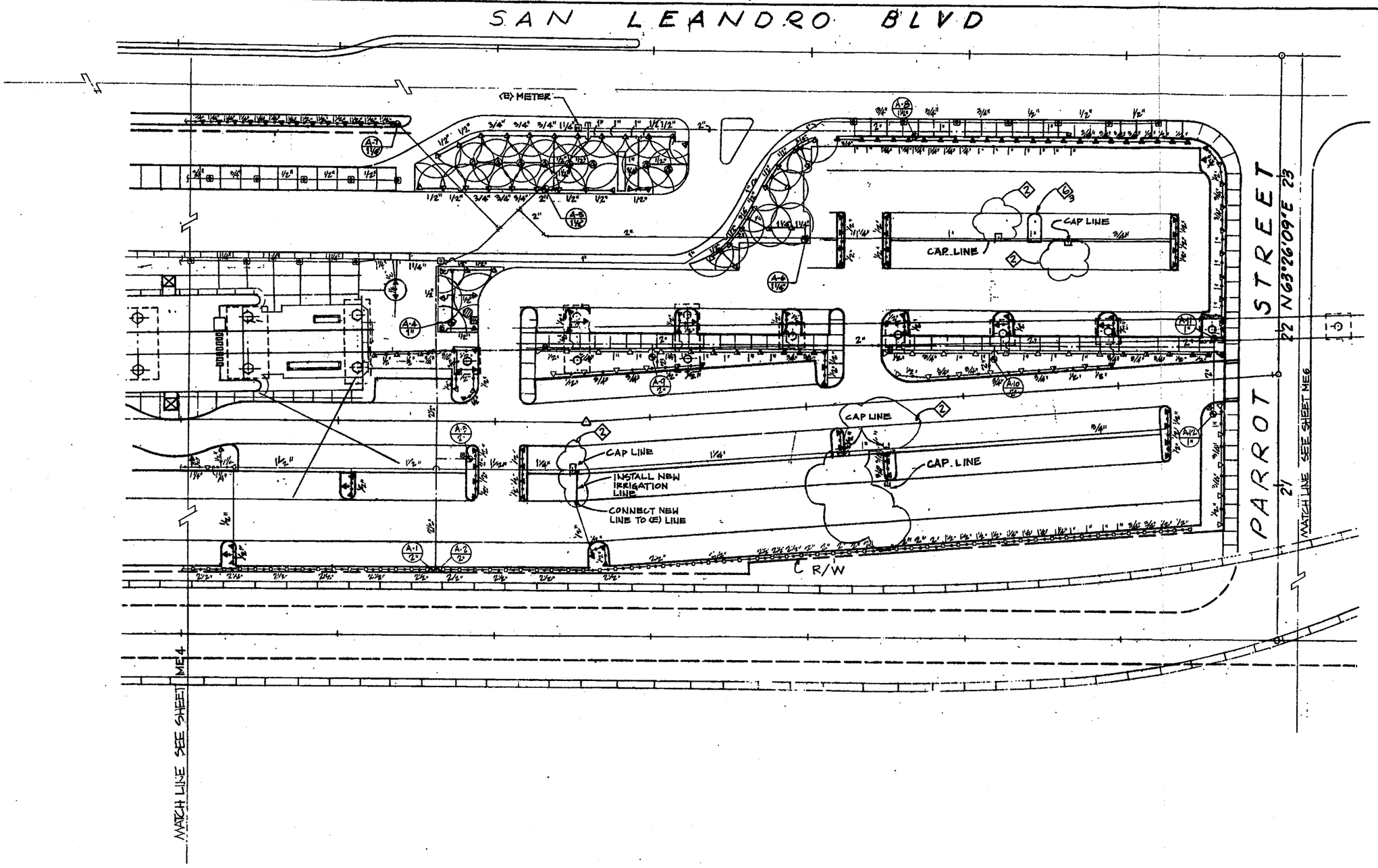
APPROVED Raymond Chan
CHIEF OF SECTION

APPROVED G. Brown
MANAGER OF DESIGN

BART

REGISTERED PROFESSIONAL ENGINEER JOSEPH C. SHEEHY No. M 12387 MECHANICAL STATE OF CALIFORNIA

DESIGNED: J. SHEEHY	DATE 8/86	TITLE: SAN LEANDRO STATION PARKING CAPACITY EXPANSION IRRIGATION MODIFICATIONS II
DRAWN: R. Jang	8/86	
CHECKED: Alex Pozar	8/86	SIZE D · REF. No. · DWG. No. 104716 · REV. 1
IN CHARGE: R. Chan	10/88	SCALE 1" = 10' · BART STOCK No. · SHEET OF



REV.	DATE	BY	APP.	DESCRIPTION
1	6-15-86	JV	CM	AS BUILT OIKM-110A SHT. ME5-1, Pg. 36

REV.	DATE	BY	APP.	DESCRIPTION

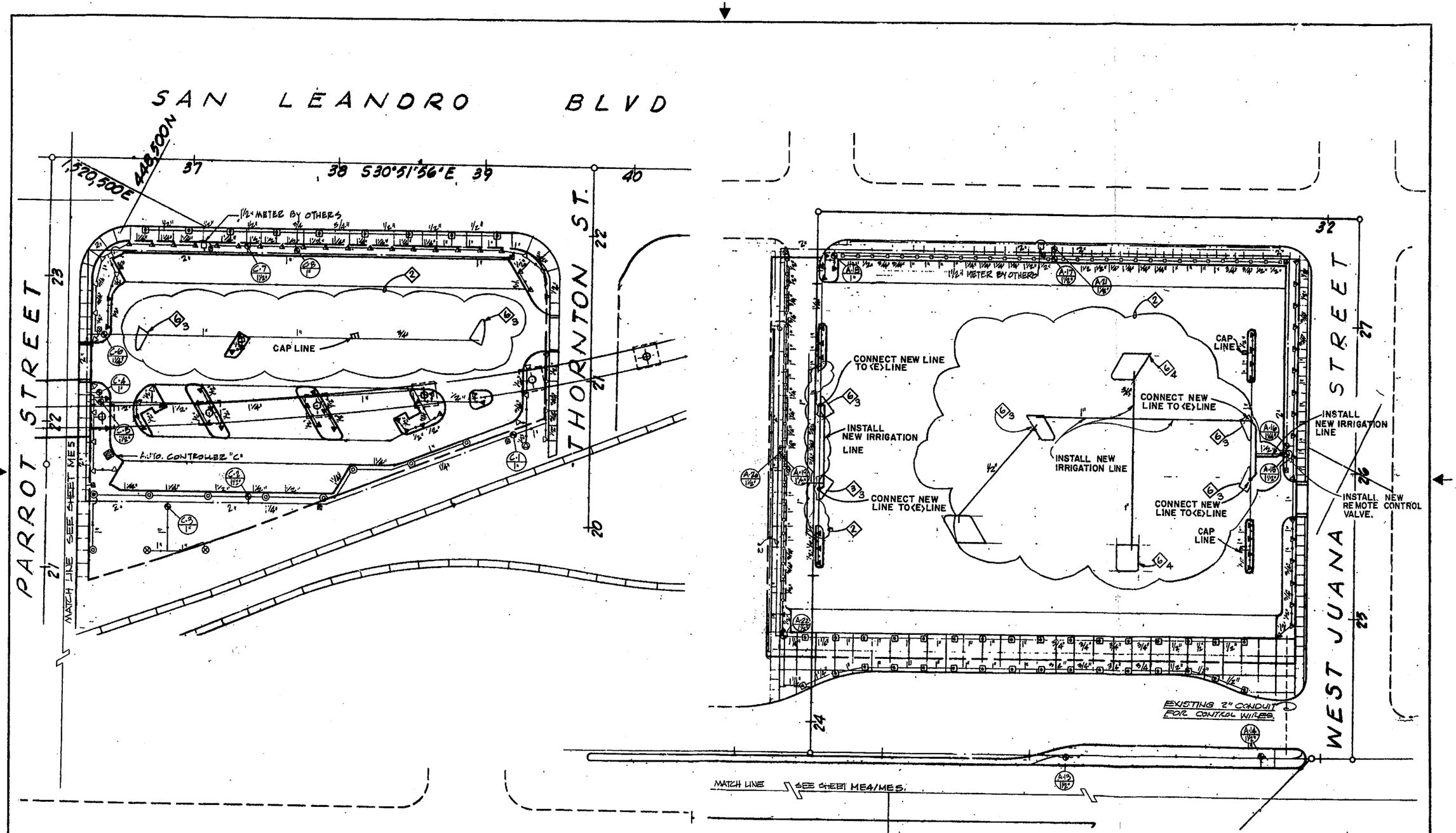
APPROVED Raymond Chan
CHIEF OF SECTION

APPROVED J. Burns
MANAGER OF DESIGN

BART

REGISTERED PROFESSIONAL ENGINEER
No. M 12387
MECHANICAL
STATE OF CALIFORNIA

DESIGNED: J. SHEEHY	DATE 8-86	TITLE: SAN LEANDRO STATION PARKING CAPACITY EXPANSION IRRIGATION MODIFICATIONS II
DRAWN: S. Wassel	8-86	
CHECKED: Alvin Sowa	9-86	SIZE D / REF. No. / DWG. No. 104717 / REV. 1
IN CHARGE: R. Chan	10/86	SCALE / BART STOCK No. / SHEET OF



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1	6-16-88	JV	[illegible]	AS BUILT-OIKM-110A-SHT: ME6-1, Pg. 3-7					

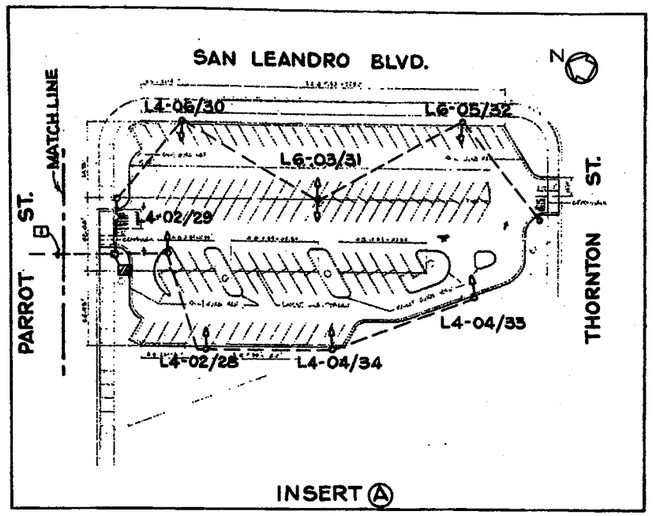
APPROVED Raymond Chan
CHIEF OF SECTION

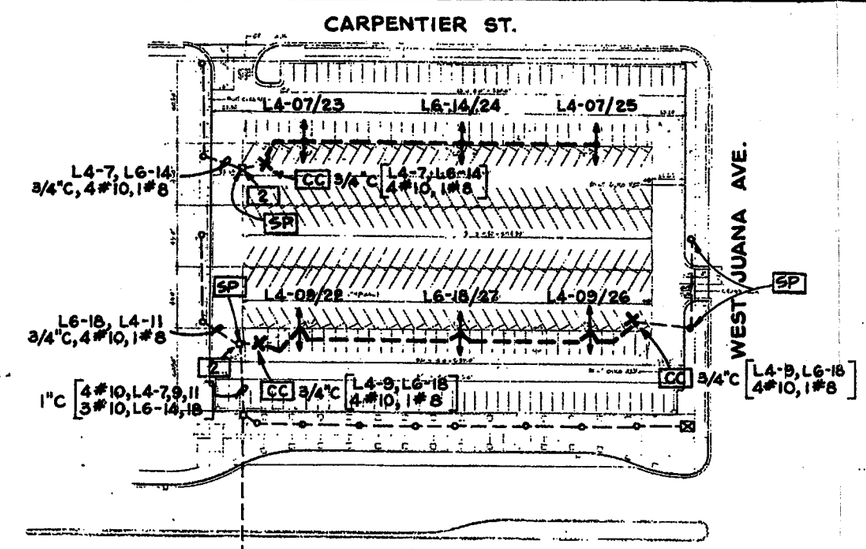
APPROVED S. Burns
MANAGER OF DESIGN

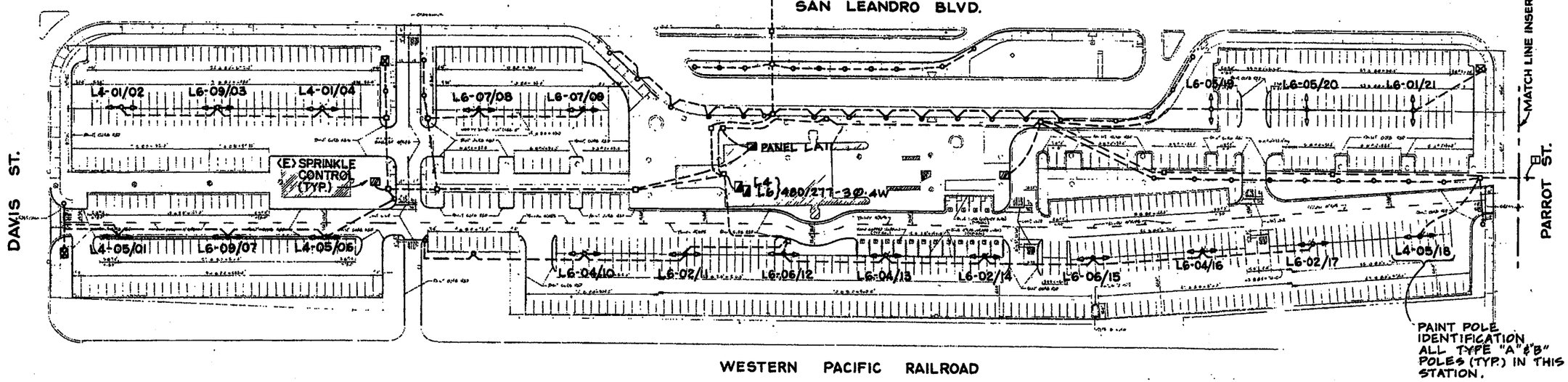
BART

REGISTERED PROFESSIONAL ENGINEER JOSEPH C. SHEEHY No. M12587 MECHANICAL STATE OF CALIFORNIA

DESIGNED: J. SHEEHY	DATE 8/86	TITLE: SAN LEANDRO STATION PARKING CAPACITY EXPANSION IRRIGATION MODIFICATIONS-III
DRAWN: S. Mersel	8/86	
CHECKED: [illegible]	7/86	SIZE D · REF. No. · DWG. No. 104718 · REV. 1
IN CHARGE: R. Chan	10/86	SCALE 1" = 30' · BART STOCK No. · SHEET OF







REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION
1	6-17-86	J.V.	cem	AS BUILT: OIKM-110A SHT: SES-1, PG 46					

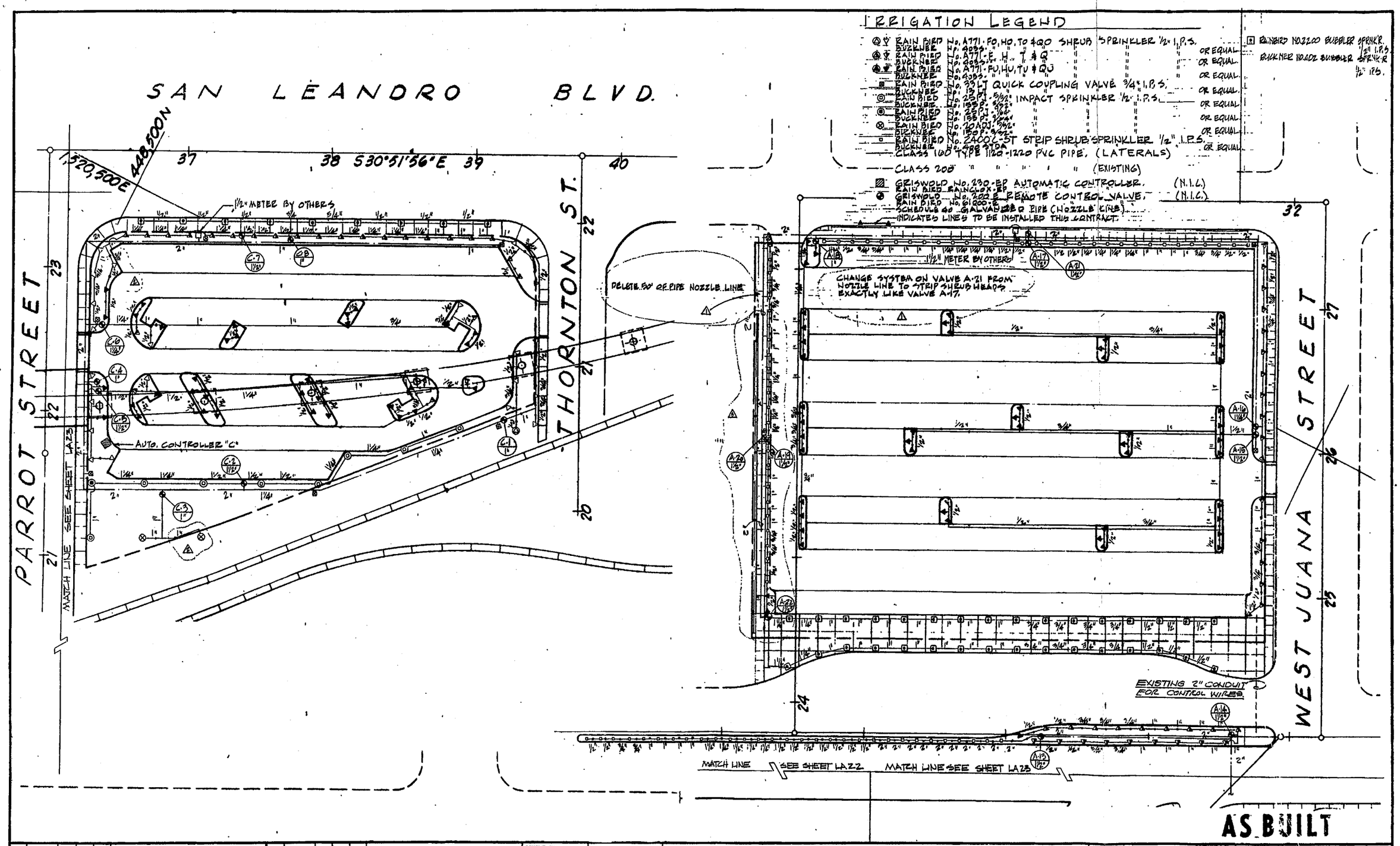
APPROVED Raymond Chan
CHIEF OF SECTION

APPROVED J. Burns
MANAGER OF DESIGN

BART

REGISTERED PROFESSIONAL ENGINEER HERBERT W. CHEW ELECTRICAL STATE OF CALIFORNIA

DESIGNED: H.H.CHEW	DATE 8/86	TITLE: SAN LEANDRO STATION PARKING LOT LIGHTING PLAN	
DRAWN: A. Richardson	8/86		
CHECKED: M.A. Delaide	9/86	SIZE D / REF. No. / DWG. No. 104726	REV. 1
IN CHARGE: H. Chew	9/86	SCALE 1" = 50' / BART STOCK No.	SHEET 1 OF 1



IRRIGATION LEGEND

- RAIN BIRD No. A771-FO, HO, TO & QO SHRUB SPRINKLER ½" I.P.S. OR EQUAL
- BUCKNER No. 4033-" " " " " OR EQUAL
- RAIN BIRD No. A771-E, H, T & Q " " " " OR EQUAL
- BUCKNER No. 4033-" " " " " OR EQUAL
- RAIN BIRD No. A771-FU, HU, TU & QU " " " " OR EQUAL
- BUCKNER No. 4033-" " " " " OR EQUAL
- RAIN BIRD No. 33LT QUICK COUPLING VALVE ¾" I.P.S. OR EQUAL
- BUCKNER No. 13 " " " " OR EQUAL
- RAIN BIRD No. 25PJ-5/32" IMPACT SPRINKLER ½" I.P.S. OR EQUAL
- BUCKNER No. 155P-5/32" " " " " OR EQUAL
- RAIN BIRD No. 25PJ-3/64" " " " " OR EQUAL
- BUCKNER No. 155P-3/64" " " " " OR EQUAL
- RAIN BIRD No. 20APJ-5/32" " " " " OR EQUAL
- BUCKNER No. 150P-5/32" " " " " OR EQUAL
- RAIN BIRD No. 24000-5T STRIP SHRUB SPRINKLER ½" I.P.S. OR EQUAL
- BUCKNER No. 488-5TDA OR EQUAL
- CLASS 160 TYPE 1120-1220 PVC PIPE, (LATERALS)
- CLASS 200 " " " " " (EXISTING)
- GRISWOLD No. 230-EP AUTOMATIC CONTROLLER. (N.I.C.)
- RAIN BIRD RAINCLOX-EP
- GRISWOLD No. 200-E REMOTE CONTROL VALVE. (N.I.C.)
- RAIN BIRD No. 61200-E
- SCHEDULE 40 GALVANIZED PIPE (NOZZLE LINE)
- INDICATES LINES TO BE INSTALLED THIS CONTRACT.
- RAINBIRD NO. 3200 BUBBLER SPRINKLER ¾" I.P.S.
- BUCKNER NO. 4002 BUBBLER SPRINKLER ½" I.P.S.

REV.	DATE	BY	SUB	APP	DESCRIPTION

REV.	DATE	BY	SUB	APP	DESCRIPTION
1	16 FEB. '73	RJW			SAW-CUT & REMOVE ASPHALT AT SCHOOL PL.
2	8 JAN. '73	RJW			"AS-BUILT" CHANGES
3	9 FEB 1972	DK			CHANGE IN SYSTEMS A-20 & A21

DESIGNED BY R. KIRBY
DRAWN BY R. KIRBY
CHECKED BY
IN CHARGE D. IKEDA
DATE 20 APRIL 1971

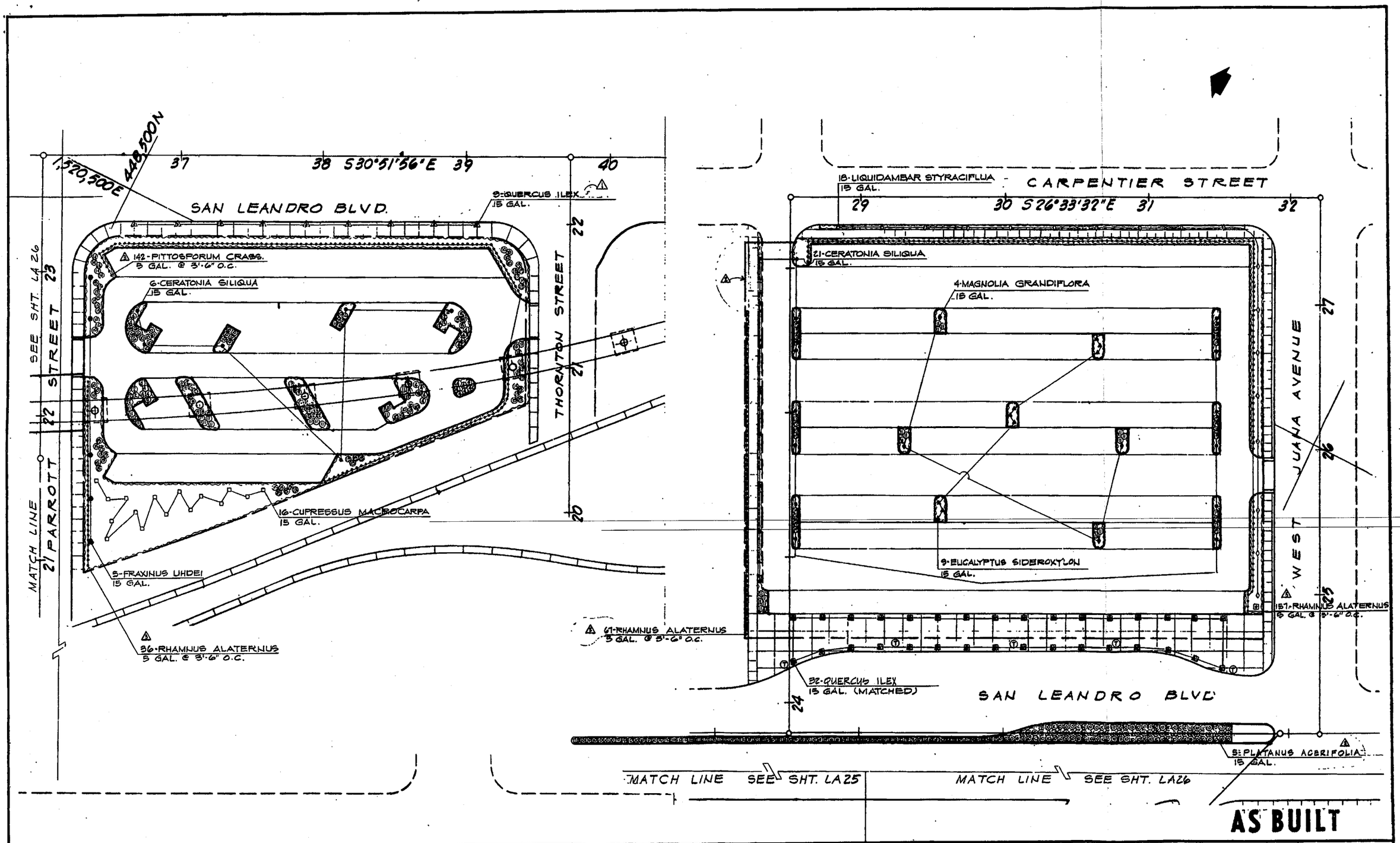
SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT

ANTHONY M. GUZZARDO • ASSOCIATES
LANDSCAPE ARCHITECTS • SITE PLANNERS
631 CLAY STREET, SAN FRANCISCO • 433-4672
SUBMITTED

PARSONS BRINCKERHOFF-TUDOR-BECHTEL
GENERAL ENGINEERING CONSULTANTS
APPROVED

SOUTHERN ALAMEDA CO. LINE
LANDSCAPING
SAN LEANDRO STATION
IRRIGATION PLAN

SCALE: 1" = 30'-0"
CONTRACT – PACKAGE IA3402-A004
SHEET NO. – REV. LA21 – 3
23



AS BUILT

REV.	DATE	BY	SUB	APP	DESCRIPTION

REV.	DATE	BY	SUB	APP	DESCRIPTION
2	1-3-78	RJN			"AS-BUILT" CHANGES
1	2-9-75	RJN			CHANGE TREE SPECIES DELETED 16 RHAMNUS A. (5 GAL)
1	8-29-71	DKI			CHANGE TREE SPECIES

DESIGNED BY D. IKEDA
DRAWN BY D. IKEDA
CHECKED BY D. IKEDA
IN CHARGE D. IKEDA
DATE 20 APRIL 1971

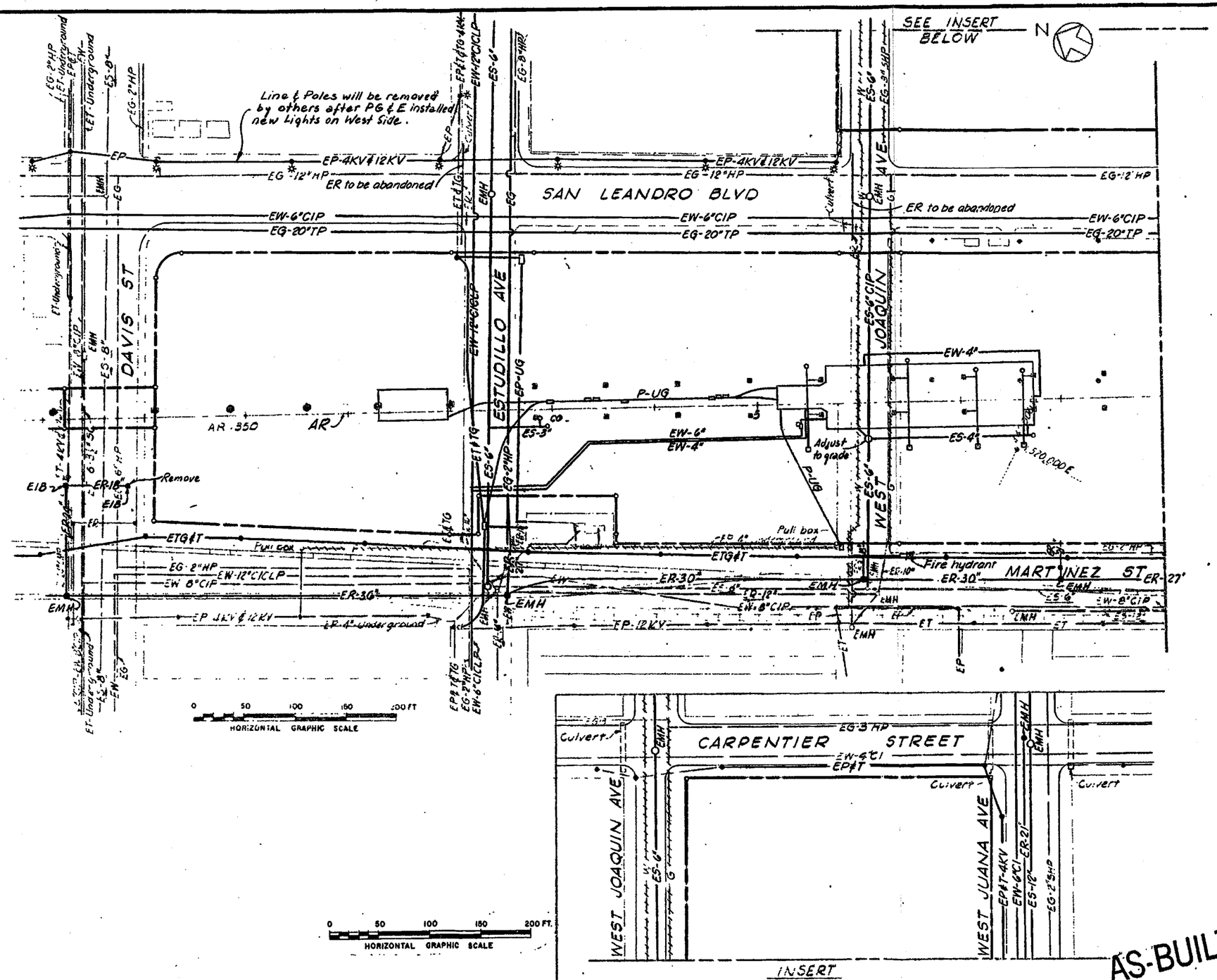
SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT

ANTHONY M. GUZZARDO • ASSOCIATES
LANDSCAPE ARCHITECTS • SITE PLANNERS
631 • 433-4672
SUBMITTED

PARSONS BRINCKERHOFF-TUDOR-BECHTEL
GENERAL ENGINEERING CONSULTANTS
APPROVED

SOUTHERN ALAMEDA CO. LINE
LANDSCAPING
SAN LEANDRO STATION
PLANTING PLAN

SCALE 1" = 30'-0"
CONTRACT – PACKAGE
1A3402-A004
SHEET NO. – REV.
LA 24 3 26



REV.	DATE	BY	SUB	APP	DESCRIPTION	REV.	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY U. BAY
DRAWN BY D. GAGNIER
CHECKED BY V. DUCHON
IN CHARGE C. MOORE
DATE 5 MAY 70

REGISTERED CIVIL ENGINEER J. GEORGE THON NO. 8397 STATE OF CALIFORNIA

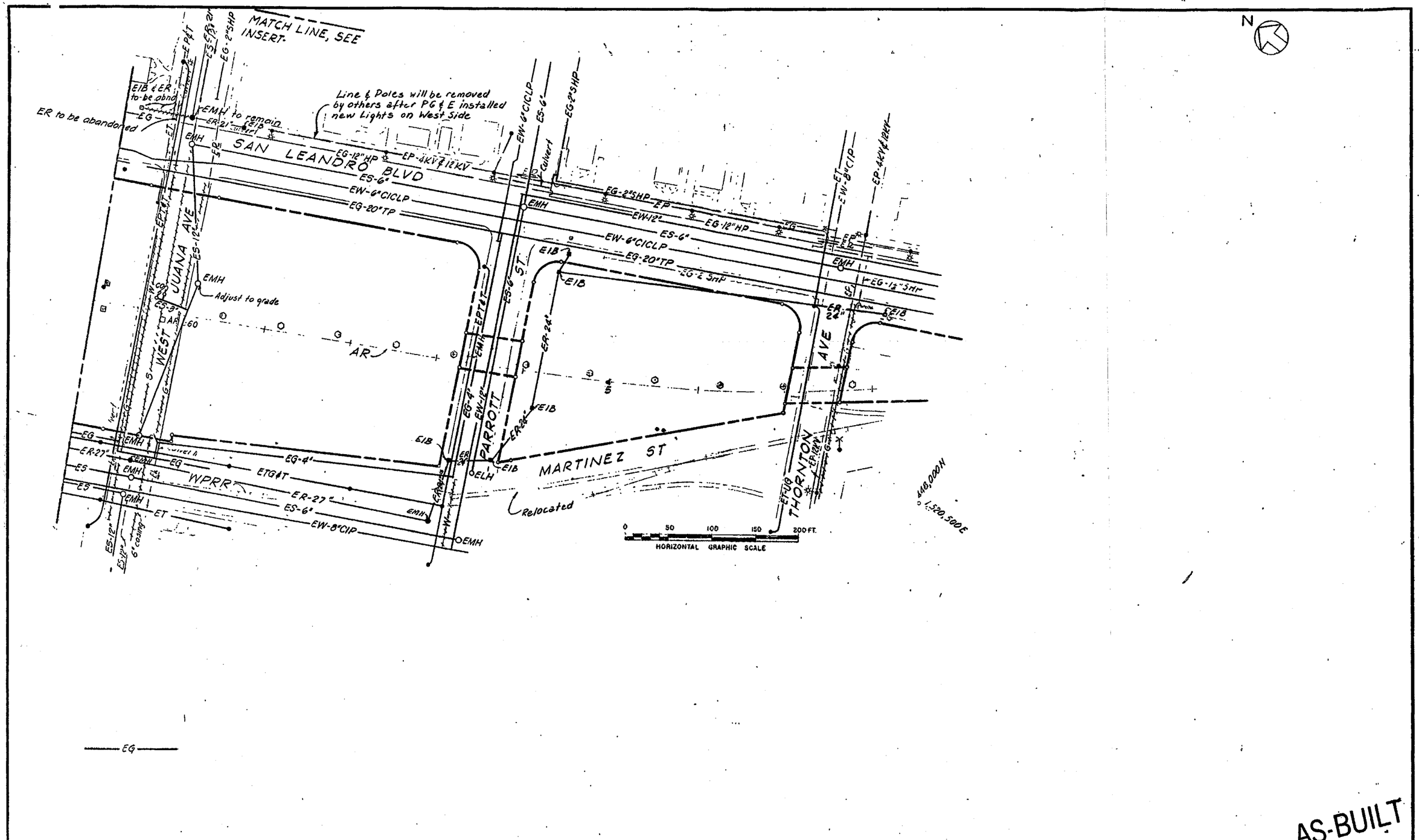
SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT

BECHTEL CORPORATION
DIVISION OF ENGINEERING
SUBMITTED

PARSONS BRINCKERHOFF-TUDOR-BECHTEL
GENERAL ENGINEERING CONSULTANTS
APPROVED

SOUTHERN ALAMEDA CO. LINE
PARKING LOTS
SAN LEANDRO STATION
EXISTING UTILITIES - SH I

SCALE 1" = 60'
CONTRACT - PACKAGE IZ3150-A004
SHEET NO. - REV. CT43-0
PAGE NO. 40



AS-BUILT

REV.	DATE	BY	SUB	APP	DESCRIPTION	REV.	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY J. BAY
DRAWN BY D. GAGNIER
CHECKED BY V. DUCHON
IN CHARGE C. MOORE
DATE 5 MAY 70

REGISTERED CIVIL ENGINEER J. GEORGE THON NO. 8397 STATE OF CALIFORNIA

SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT

BECHTEL CORPORATION ENGINEERS SAN FRANCISCO — SUBMITTED

PARSONS BRINCKERHOFF-TUDOR-BECHTEL GENERAL ENGINEERING CONSULTANTS — APPROVED

SOUTHERN ALAMEDA CO. LINE
PARKING LOTS
SAN LEANDRO STATION
EXISTING UTILITIES - SH 2

SCALE 1" = 50'
CONTRACT - PACKAGE IZ3150-A004
SHEET NO. - REV. CT44-0
PAGE NO. 41

ATTACHMENT C

FEDERAL WAGE RATES (INTERNET WEBSITE ADDRESS)

http://www.dol.gov/whd/govcontracts/dbra.htm

GENERAL DECISION NUMBER: CA20100029

NOTE: ANY REVISIONS TO THE APPLICABLE FEDERAL WAGE RATES, UP TO 10 DAYS BEFORE BID OPENING, SHALL BE IDENTIFIED BY THE ISSUANCE OF AN ADDENDUM WITH THE CORRESPONDING INTERNET WEBSITE ADDRESS OF WHERE THE REVISIONS CAN BE FOUND

CONTRACTOR IS TO VERIFY AND OBTAIN APPLICABLE WAGE DETERMINATION AS NECESSARY.

General Decision Number: CA120029 08/03/2012 CA29

Superseded General Decision Number: CA20100029

State: California

Construction Types: Building, Heavy (Heavy and Dredging) and Highway

Counties: Alameda, Calaveras, Contra Costa, Fresno, Kings, Madera, Mariposa, Merced, Monterey, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Stanislaus and Tuolumne Counties in California.

BUILDING CONSTRUCTION PROJECTS; DREDGING PROJECTS (does not include hopper dredge work); HEAVY CONSTRUCTION PROJECTS (does not include water well drilling); HIGHWAY CONSTRUCTION PROJECTS

Modification Number	Publication Date
0	01/06/2012
1	01/20/2012
2	01/27/2012
3	03/02/2012
4	04/20/2012
5	04/27/2012
6	05/04/2012
7	06/01/2012
8	06/08/2012
9	07/13/2012
10	08/03/2012

ASBE0016-001 08/01/2011

AREA 1: ALAMEDA, CONTRA COSTA, LAKE, MARIN, MENDOCINO, MONTEREY, NAPA, SAN BENITO, SAN FRANCISCO, SAN MATEO, SANTA CLARA, SANTA CRUZ, SOLANO, & SONOMA COUNTIES

AREA 2: ALPINE, AMADOR, BUTTE, CALAVERAS, COLUSA, DEL NORTE, EL DORADO, FRESNO, GLENN, HUMBOLDT, KINGS, LASSEN, MADERA, MARIPOSA, MERCED, MODOC, MONO, NEVADA, PLACER, PLUMAS, SACRAMENTO, SAN JOAQUIN, SHASTA, SIERRA, SISKIYOU, STANISLAU, SUTTER, TEHEMA, TRINITY, TULARE, TUOLUMNE, YOLO, & YUBA COUNTIES

	Rates	Fringes
Asbestos Workers/Insulator (Includes the application of all insulating materials, Protective Coverings, Coatings, and Finishes to all types of mechanical systems)		
Area 1	$ 53.05	17.25
Area 2	$ 41.40	17.25

ASBE0016-004 01/01/2010

	Rates	Fringes
Asbestos Removal worker/hazardous material handler (Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not)....	$ 15.18	2.80

BOIL0549-001 01/01/2009

AREA 1: ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO & SANTA CLARA COUNTIES

AREA 2: REMAINING COUNTIES

	Rates	Fringes
BOILERMAKER		
Area 1.....	$ 40.17	22.32
Area 2.....	$ 37.01	22.25

BRCA0003-001 06/01/2011

	Rates	Fringes
MARBLE FINISHER.....	$ 28.02	12.22

BRCA0003-003 06/01/2011

	Rates	Fringes
MARBLE MASON.....	$ 39.22	18.68

BRCA0003-005 05/01/2011

	Rates	Fringes
BRICKLAYER		
(1) Fresno, Kings, Madera, Mariposa, Merced....	$ 34.11	19.34
(7) San Francisco, San Mateo.....	$ 39.85	22.00
(8) Alameda, Contra Costa, San Benito, Santa Clara.....	$ 39.63	19.92
(9) Calaveras, San Joaquin, Stanislaus, Toulumne.....	$ 35.11	18.99
(16) Monterey, Santa Cruz...	$ 35.91	22.42

BRCA0003-008 06/01/2011

	Rates	Fringes

TERRAZZO FINISHER.....$ 30.30 13.77
TERRAZZO WORKER/SETTER.....$ 39.30 21.20

BRCA0003-011 01/01/2011

AREA 1: Alameda, Contra Costa, Monterey, San Benito, San Francisco, San Mateo, Santa Clara, Santa Cruz

AREA 2: Calaveras, San Joaquin, Stanislaus, Tuolumne

AREA 3: Fresno, Kings, Madera, Mariposa, Merced

	Rates	Fringes
TILE FINISHER		
Area 1	$ 21.44	12.31
Area 2	$ 21.26	12.44
Area 3	$ 21.01	11.58
Tile Layer		
Area 1	$ 38.61	13.73
Area 2	$ 34.41	13.68
Area 3	$ 29.78	13.10

CARP0022-001 07/01/2012

San Francisco County

	Rates	Fringes
Carpenters		
Bridge Builder/Highway Carpenter	$ 38.50	25.68
Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw Filer	$ 38.65	25.68
Journeyman Carpenter	$ 38.50	25.68
Millwright	$ 38.60	27.27

CARP0034-001 07/01/2012

	Rates	Fringes
Diver		
Assistant Tender, ROV Tender/Technician	$ 37.75	28.88
Diver standby	$ 42.53	28.88
Diver Tender	$ 41.53	28.88
Diver wet	$ 85.06	28.88
Manifold Operator (mixed gas)	$ 46.53	28.88
Manifold Operator (Standby)	$ 41.53	28.88

DEPTH PAY (Surface Diving):
050 to 100 ft $2.00 per foot
101 to 150 ft $3.00 per foot
151 to 220 ft $4.00 per foot

SATURATION DIVING:
The standby rate shall apply until saturation starts. The saturation diving rate applies when divers are under pressure continuously until work task and decompression are complete. The diver rate shall be paid for all saturation hours.

DIVING IN ENCLOSURES:
Where it is necessary for Divers to enter pipes or tunnels, or other enclosures where there is no vertical ascent, the following premium shall be paid: Distance traveled from entrance 26 feet to 300 feet: $1.00 per foot. When it is necessary for a diver to enter any pipe, tunnel or other enclosure less than 48" in height, the premium will be $1.00 per foot.

WORK IN COMBINATION OF CLASSIFICATIONS:
Employees working in any combination of classifications within the diving crew (except dive supervisor) in a shift are paid in the classification with the highest rate for that shift.

CARP0034-003 07/01/2012

	Rates	Fringes
Piledriver	$ 37.75	28.88

CARP0035-007 07/01/2012

AREA 1: Alameda, Contra Costa, San Francisco, San Mateo, Santa Clara counties

AREA 2: Monterey, San Benito, Santa Cruz Counties

AREA 3: Calaveras, Fresno, Kings, Madera, Mariposa, Merced, San Joaquin, Stanislaus, Tuolumne Counties

	Rates	Fringes
Modular Furniture Installer		
Area 1		
Installer I	$ 22.61	16.71
Installer II	$ 19.18	16.71
Lead Installer	$ 26.06	17.21
Master Installer	$ 30.28	17.21
Area 2		
Installer I	$ 19.96	16.71
Installer II	$ 17.01	16.71
Lead Installer	$ 22.93	17.21
Master Installer	$ 26.56	17.21
Area 3		
Installer I	$ 19.01	16.71
Installer II	$ 16.24	16.71
Lead Installer	$ 21.81	17.21
Master Installer	$ 25.23	17.21

CARP0035-008 07/01/2012

AREA 1: Alameda, Contra Costa, San Francisco, San Mateo, Santa Clara counties

AREA 2: Monterey, San Benito, Santa Cruz Counties

AREA 4: Calaveras, Fresno, Kings, Madera, Mariposa, Merced, San Joaquin, Stanislaus, Tuolumne Counties

	Rates	Fringes
Drywall Installers/Lathers:		
Area 1	$ 37.50	26.12
Area 2	$ 31.62	26.12
Area 4	$ 30.77	26.12
Drywall Stocker/Scrapper		
Area 1	$ 18.75	15.03
Area 2	$ 15.81	15.03
Area 4	$ 15.39	15.03

CARP0152-001 07/01/2012

Contra Costa County

	Rates	Fringes
Carpenters		
Bridge Builder/Highway Carpenter	$ 38.50	25.68
Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw Filer	$ 38.65	25.68
Journeyman Carpenter	$ 38.50	25.68
Millwright	$ 38.60	27.27

CARP0152-002 07/01/2012

San Joaquin County

	Rates	Fringes
Carpenters		
Bridge Builder/Highway Carpenter	$ 38.50	25.68
Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw Filer	$ 32.77	25.68
Journeyman Carpenter	$ 32.62	25.68
Millwright	$ 35.12	27.27

CARP0152-004 07/01/2012

Calaveras, Mariposa, Merced, Stanislaus and Tuolumne Counties

	Rates	Fringes

Carpenters
Bridge Builder/Highway
Carpenter.....$ 38.50 25.68
Hardwood Floorlayer,
Shingler, Power Saw
Operator, Steel Scaffold &
Steel Shoring Erector, Saw
Filer.....$ 31.42 25.68
Journeyman Carpenter.....$ 31.27 25.68
Millwright.....$ 33.77 27.27

CARP0217-001 07/01/2012

San Mateo County

	Rates	Fringes
Carpenters		
Bridge Builder/Highway		
Carpenter	$ 38.50	25.68
Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw		
Filer	$ 38.65	25.68
Journeyman Carpenter	$ 38.50	25.68
Millwright	$ 38.60	27.27

CARP0405-001 07/01/2012

Santa Clara County

	Rates	Fringes
Carpenters		
Bridge Builder/Highway		
Carpenter	$ 38.50	25.68
Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw		
Filer	$ 38.65	25.68
Journeyman Carpenter	$ 38.50	25.68
Millwright	$ 38.60	27.27

CARP0405-002 07/01/2012

San Benito County

	Rates	Fringes
Carpenters		
Bridge Builder/Highway		
Carpenter	$ 38.50	25.68
Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw		
Filer	$ 32.77	25.68
Journeyman Carpenter	$ 32.62	25.68

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     Millwright.................$ 35.12            27.27
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 CARP0505-001 07/01/2012

Santa Cruz County

                                    Rates          Fringes

Carpenters
     Bridge Builder/Highway
     Carpenter..................$ 38.50            25.68
     Hardwood Floorlayer,
     Shingler, Power Saw
     Operator, Steel Scaffold &
     Steel Shoring Erector, Saw
     Filer......................$ 32.77            25.68
     Journeyman Carpenter........$ 32.62            25.68
     Millwright.................$ 35.12            27.27
-----------------------------------------------------------------
 CARP0605-001 07/01/2012

Monterey County

                                    Rates          Fringes

Carpenters
     Bridge Builder/Highway
     Carpenter..................$ 38.50            25.68
     Hardwood Floorlayer,
     Shingler, Power Saw
     Operator, Steel Scaffold &
     Steel Shoring Erector, Saw
     Filer......................$ 32.77            25.68
     Journeyman Carpenter........$ 32.62            25.68
     Millwright.................$ 35.12            27.27
-----------------------------------------------------------------
 CARP0701-001 07/01/2012

Fresno and Madera Counties

                                    Rates          Fringes

Carpenters
     Bridge Builder/Highway
     Carpenter..................$ 38.50            25.68
     Hardwood Floorlayer,
     Shingler, Power Saw
     Operator, Steel Scaffold &
     Steel Shoring Erector, Saw
     Filer......................$ 31.42            25.68
     Journeyman Carpenter........$ 31.27            25.68
     Millwright.................$ 33.77            27.27
-----------------------------------------------------------------
* CARP0713-001 07/01/2012

Alameda County

                                    Rates          Fringes

Carpenters
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     Bridge Builder/Highway
     Carpenter...................$ 38.50            25.68
     Hardwood Floorlayer,
     Shingler, Power Saw
     Operator, Steel Scaffold &
     Steel Shoring Erector, Saw
     Filer.......................$ 38.65            25.68
     Journeyman Carpenter........$ 38.50            25.68
     Millwright..................$ 38.60            27.27
----------------------------------------------------------------
 CARP1109-001 07/01/2012

Kings County

                                   Rates          Fringes

Carpenters
     Bridge Builder/Highway
     Carpenter...................$ 38.50            25.68
     Hardwood Floorlayer,
     Shingler, Power Saw
     Operator, Steel Scaffold &
     Steel Shoring Erector, Saw
     Filer.......................$ 31.42            25.68
     Journeyman Carpenter........$ 31.27            25.68
     Millwright..................$ 33.77            27.27
----------------------------------------------------------------
 ELEC0006-001 12/01/2011

ALAMEDA, CONTRA COSTA, MONTEREY, SAN BENITO, SAN MATEO, SANTA
CLARA, AND SANTA CRUZ COUNTIES


                                   Rates          Fringes

Sound & Communications
     Installer...................$ 30.12         3%+13.70
     Technician..................$ 34.29         3%+13.70

  SCOPE OF WORK:  Including any data system whose only function
  is to transmit or  receive information; excluding all other
  data systems or  multiple systems which include control
  function or power supply;  inclusion or exclusion of
  terminations and testings of  conductors determined by
  their function; excluding fire alarm  work when installed
  in raceways (including wire and cable  pulling) and when
  performed on new or major remodel building  projects or
  jobs for which the conductors for the fire alarm system are
  installed in conduit; excluding installation of raceway
  systems, line voltage work, industrial work, life-safety
  systems (all buildings having floors located more than 75'
  above the lowest floor level having building access);
  excluding energy management systems.

  FOOTNOTE:   Fire alarm work when installed in raceways
  (including wire and cable pulling), on projects which
  involve new or major remodel building construction, for
  which the conductors for the fire alarm system are
  installed in the conduit, shall be performed by the inside
  electrician.
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ELEC0006-004 12/01/2011

SAN FRANCISCO COUNTY

	Rates	Fringes
Sound & Communications		
Installer	$ 30.60	3%+14.20
Technician	$ 38.16	3%+14.20

SCOPE OF WORK: Including any data system whose only function is to transmit or receive information; excluding all other data systems or multiple systems which include control function or power supply; inclusion or exclusion of terminations and testings of conductors determined by their function; excluding fire alarm work when installed in raceways (including wire and cable pulling) and when performed on new or major remodel building projects or jobs for which the conductors for the fire alarm system are installed in conduit; excluding installation of raceway systems, line voltage work, industrial work, life-safety systems (all buildings having floors located more than 75' above the lowest floor level having building access); excluding energy management systems.

FOOTNOTE: Fire alarm work when installed in raceways (including wire and cable pulling), on projects which involve new or major remodel building construction, for which the conductors for the fire alarm system are installed in the conduit, shall be performed by the inside electrician.

ELEC0006-007 12/01/2010

SAN FRANCISCO COUNTY

	Rates	Fringes
ELECTRICIAN	$ 53.05	22.69

ELEC0006-008 12/01/2011

CALAVERAS, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES

	Rates	Fringes
Communications System		
Installer	$ 30.12	3%+13.70
Technician	$ 34.29	3%+13.70

SCOPE OF WORK: Including any data system whose only function is to transmit or receive information; excluding all other data systems or multiple systems which include control function or power supply; inclusion or exclusion of terminations and testings of conductors determined by their function; excluding fire alarm work when installed in raceways (including wire and cable pulling) and when

performed on new or major remodel building projects or jobs for which the conductors for the fire alarm system are installed in conduit; excluding installation of raceway systems, line voltage work, industrial work, life-safety systems (all buildings having floors located more than 75' above the lowest floor level having building access); excluding energy management systems.

FOOTNOTE: Fire alarm work when installed in raceways (including wire and cable pulling), on projects which involve new or major remodel building construction, for which the conductors for the fire alarm system are installed in the conduit, shall be performed by the inside electrician.

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* ELEC0100-002 06/01/2012

FRESNO, KINGS, AND MADERA COUNTIES

	Rates	Fringes
ELECTRICIAN	$ 33.35	3%+18.33

ELEC0100-005 12/01/2011

FRESNO, KINGS, MADERA

	Rates	Fringes
Communications System		
Installer	$ 26.43	3%+13.70
Technician	$ 30.09	3%+13.70

SCOPE OF WORK

Includes the installation testing, service and maintenance, of the following systems which utilize the transmission and/or transference of voice, sound, vision and digital for commercial, education, security and entertainment purposes for the following: TV monitoring and surveillance, background-foreground music, intercom and telephone interconnect, inventory control systems, microwave transmission, multi-media, multiplex, nurse call system, radio page, school intercom and sound, burglar alarms, and low voltage master clock systems.

A. SOUND AND VOICE TRANSMISSION/TRANSFERENCE SYSTEMS Background foreground music, Intercom and telephone interconnect systems, Telephone systems Nurse call systems, Radio page systems, School intercom and sound systems, Burglar alarm systems, Low voltage, master clock systems, Multi-media/multiplex systems, Sound and musical entertainment systems, RF systems, Antennas and Wave Guide,

B. FIRE ALARM SYSTEMS Installation, wire pulling and testing

C. TELEVISION AND VIDEO SYSTEMS Television monitoring and surveillance systems Video security systems, Video entertainment systems, Video educational systems, Microwave transmission systems, CATV and CCTV

D. SECURITY SYSTEMS Perimeter security systems Vibration sensor systems Card access systems Access control systems, Sonar/infrared monitoring equipment

E. COMMUNICATIONS SYSTEMS THAT TRANSMIT OR RECEIVE INFORMATION AND/OR CONTROL SYSTEMS THAT ARE INTRINSIC TO THE ABOVE LISTED SYSTEMS SCADA (Supervisory Control and Data Acquisition) PCM (Pulse Code Modulation) Inventory Control Systems, Digital Data Systems Broadband and Baseband and Carriers Point of Sale Systems, VSAT Data Systems Data Communication Systems RF and Remote Control Systems, Fiber Optic Data Systems

WORK EXCLUDED Raceway systems are not covered (excluding Ladder-Rack for the purpose of the above listed systems). Chases and/or nipples (not to exceed 10 feet) may be installed on open wiring systems. Energy management systems. SCADA (Supervisory Control and Data Acquisition) when not intrinsic to the above listed systems (in the scope). Fire alarm systems when installed in raceways (including wire and cable pulling) shall be performed at the electrician wage rate, when either of the following two (2) conditions apply:
1. The project involves new or major remodel building trades construction.
2. The conductors for the fire alarm system are installed in conduit.

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* ELEC0234-001 06/01/2012

MONTEREY, SAN BENITO AND SANTA CRUZ COUNTIES

	Rates	Fringes
ELECTRICIAN	$ 41.20	21.80

ELEC0302-001 06/01/2011

CONTRA COSTA COUNTY

	Rates	Fringes
CABLE SPLICER	$ 50.49	3%+22.95
ELECTRICIAN	$ 44.21	3%+22.95

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* ELEC0332-001 06/01/2012

SANTA CLARA COUNTY

	Rates	Fringes
CABLE SPLICER	$ 58.16	29.206
ELECTRICIAN	$ 50.27	28.94

FOOTNOTES: Work under compressed air or where gas masks are required, orwork on ladders, scaffolds, stacks, "Bosun's chairs," or other structures and where the workers are not protected by permanent guard rails at a distance of 40 to 60 ft. from the ground or supporting structures: to be paid one and one-half times the straight-time rate of pay.

Work on structures of 60 ft. or over (as described above):
to be paid twice the straight-time rate of pay.

ELEC0595-001 06/01/2012

ALAMEDA COUNTY

	Rates	Fringes
CABLE SPLICER	$ 50.63	3%+27.93
ELECTRICIAN	$ 45.00	3%+27.93

ELEC0595-002 12/01/2011

CALAVERAS AND SAN JOAQUIN COUNTIES

	Rates	Fringes
CABLE SPLICER	$ 37.13	9.025%+21.74
ELECTRICIAN		
(1) Tunnel work	$ 34.65	9.025%+21.74
(2) All other work	$ 33.00	9.025%+21.74

ELEC0617-001 06/01/2011

SAN MATEO COUNTY

	Rates	Fringes
ELECTRICIAN	$ 50.00	3%+23.34

ELEC0684-001 01/01/2012

MARIPOSA, MERCED, STANISLAUS AND TUOLUMNE COUNTIES

	Rates	Fringes
ELECTRICIAN	$ 34.60	3%+17.15

CABLE SPLICER = 110% of Journeyman Electrician

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* ELEC1245-001 06/01/2012

	Rates	Fringes
LINE CONSTRUCTION		
(1) Lineman; Cable splicer	$ 48.95	14.05
(2) Equipment specialist (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), overhead & underground distribution line equipment)	$ 39.09	12.97
(3) Groundman	$ 29.91	12.70
(4) Powderman	$ 43.71	13.15

HOLIDAYS: New Year's Day, M.L. King Day, Memorial Day,
Independence Day, Labor Day, Veterans Day, Thanksgiving Day

and day after Thanksgiving, Christmas Day

ELEV0008-001 01/01/2012

	Rates	Fringes
ELEVATOR MECHANIC	$ 57.29	23.535

FOOTNOTE:
PAID VACATION: Employer contributes 8% of regular hourly rate as vacation pay credit for employees with more than 5 years of service, and 6% for 6 months to 5 years of service.
PAID HOLIDAYS: New Years Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, Friday after Thanksgiving, and Christmas Day.

ENGI0003-008 07/01/2011

	Rates	Fringes
Dredging: (DREDGING: CLAMSHELL & DIPPER DREDGING; HYDRAULIC SUCTION DREDGING:)		
AREA 1:		
(1) Leverman	$ 38.94	25.40
(2) Dredge Dozer; Heavy duty repairman	$ 33.98	25.40
(3) Booster Pump Operator; Deck Engineer; Deck mate; Dredge Tender; Winch Operator	$ 32.86	25.40
(4) Bargeman; Deckhand; Fireman; Leveehand; Oiler	$ 29.56	25.40
AREA 2:		
(1) Leverman	$ 40.94	25.40
(2) Dredge Dozer; Heavy duty repairman	$ 35.98	25.40
(3) Booster Pump Operator; Deck Engineer; Deck mate; Dredge Tender; Winch Operator	$ 34.86	25.40
(4) Bargeman; Deckhand; Fireman; Leveehand; Oiler	$ 31.56	25.40

AREA DESCRIPTIONS

AREA 1: ALAMEDA,BUTTE, CONTRA COSTA, KINGS, MARIN, MERCED, NAPA, SACRAMENTO, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, SOLANO, STANISLAUS, SUTTER, YOLO, AND YUBA COUNTIES

AREA 2: MODOC COUNTY

THE REMAINGING COUNTIES ARE SPLIT BETWEEN AREA 1 AND AREA 2 AS NOTED BELOW:

ALPINE COUNTY:
Area 1: Northernmost part

Area 2: Remainder

CALAVERAS COUNTY:
Area 1: Remainder
Area 2: Eastern part

COLUSA COUNTY:
Area 1: Eastern part
Area 2: Remainder

ELDORADO COUNTY:
Area 1: North Central part
Area 2: Remainder

FRESNO COUNTY:
Area 1: Remainder
Area 2: Eastern part

GLENN COUNTY:
Area 1: Eastern part
Area 2: Remainder

LASSEN COUNTY:
  Area 1: Western part along the Southern portion of border
  with Shasta County
Area 2: Remainder

MADERA COUNTY:
Area 1: Except Eastern part
Area 2: Eastern part

MARIPOSA COUNTY
Area 1: Except Eastern part
Area 2: Eastern part

MONTERREY COUNTY
Area 1: Except Southwestern part
Area 2: Southwestern part

NEVADA COUNTY:
  Area 1: All but the Northern portion along the border of
  Sierra County
Area 2: Remainder

PLACER COUNTY:
Area 1: Al but the Central portion
Area 2: Remainder

PLUMAS COUNTY:
Area 1: Western portion
Area 2: Remainder

SHASTA COUNTY:
Area 1: All but the Northeastern corner
Area 2: Remainder

SIERRA COUNTY:
Area 1: Western part
Area 2: Remainder

SISKIYOU COUNTY:
Area 1: Central part
Area 2: Remainder

SONOMA COUNTY:
Area 1: All but the Northwestern corner
Area 2: Remainder

TEHAMA COUNTY:
Area 1: All but the Western border with Mendocino & Trinity Counties
Area 2: Remainder

TRINITY COUNTY:
Area 1: East Central part and the Northeastern border with Shasta County
Area 2: Remainder

TUOLUMNE COUNTY:
Area 1: Except Eastern part
Area 2: Eastern part

ENGI0003-018 06/27/2011

"AREA 1" WAGE RATES ARE LISTED BELOW

"AREA 2" RECEIVES AN ADDITIONAL $2.00 PER HOUR ABOVE AREA 1 RATES.

SEE AREA DEFINITIONS BELOW

	Rates	Fringes
OPERATOR: Power Equipment (AREA 1:)		
GROUP 1	$ 37.77	24.00
GROUP 2	$ 36.24	24.00
GROUP 3	$ 34.76	24.00
GROUP 4	$ 33.38	24.00
GROUP 5	$ 32.11	24.00
GROUP 6	$ 30.79	24.00
GROUP 7	$ 29.65	24.00
GROUP 8	$ 28.51	24.00
GROUP 8-A	$ 28.30	24.00
OPERATOR: Power Equipment (Cranes and Attachments - AREA 1:)		
GROUP 1		
Cranes	$ 38.65	24.00
Oiler	$ 29.39	24.00
Truck crane oiler	$ 31.68	24.00
GROUP 2		
Cranes	$ 36.89	24.00
Oiler	$ 29.18	24.00
Truck crane oiler	$ 31.42	24.00
GROUP 3		
Cranes	$ 35.14	24.00
Hydraulic	$ 30.79	24.00
Oiler	$ 28.90	24.00

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      Truck Crane Oiler..........$ 31.18            24.00
OPERATOR:   Power Equipment
(Piledriving - AREA 1:)
     GROUP 1
      Lifting devices............$ 38.99            24.00
      Oiler......................$ 29.73            24.00
      Truck crane oiler..........$ 32.01            24.00
     GROUP 2
      Lifting devices............$ 37.17            24.00
      Oiler......................$ 29.46            24.00
      Truck Crane Oiler..........$ 31.76            24.00
     GROUP 3
      Lifting devices............$ 35.49            24.00
      Oiler......................$ 29.24            24.00
      Truck Crane Oiler..........$ 31.47            24.00
     GROUP 4....................$ 33.72            24.00
     GROUP 5....................$ 31.08            24.00
     GROUP 6....................$ 28.85            24.00
OPERATOR:   Power Equipment
(Steel Erection - AREA 1:)
     GROUP 1
      Cranes.....................$ 39.62            24.00
      Oiler......................$ 30.07            24.00
      Truck Crane Oiler..........$ 32.30            24.00
     GROUP 2
      Cranes.....................$ 37.85            24.00
      Oiler......................$ 29.80            24.00
      Truck Crane Oiler..........$ 32.08            24.00
     GROUP 3
      Cranes.....................$ 36.37            24.00
      Hydraulic..................$ 31.42            24.00
      Oiler......................$ 29.58            24.00
      Truck Crane Oiler..........$ 31.81            24.00
     GROUP 4....................$ 34.35            24.00
     GROUP 5....................$ 33.05            24.00
OPERATOR:   Power Equipment
(Tunnel and Underground Work
- AREA 1:)
     SHAFTS, STOPES, RAISES:
      GROUP 1....................$ 33.87            24.00
      GROUP 1-A..................$ 36.34            24.00
      GROUP 2....................$ 32.61            24.00
      GROUP 3....................$ 31.28            24.00
      GROUP 4....................$ 30.14            24.00
      GROUP 5....................$ 29.00            24.00
     UNDERGROUND:
      GROUP 1....................$ 33.77            24.00
      GROUP 1-A..................$ 36.34            24.00
      GROUP 2....................$ 32.51            24.00
      GROUP 3....................$ 31.18            24.00
      GROUP 4....................$ 30.04            24.00
      GROUP 5....................$ 28.90            24.00

  FOOTNOTE: Work suspended by ropes or cables, or work on a
  Yo-Yo Cat: $.60 per hour additional.


  POWER EQUIPMENT OPERATOR CLASSIFICATIONS

  GROUP 1: Operator of helicopter (when used in erection work);
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Hydraulic excavator, 7 cu. yds. and over; Power shovels, over 7 cu. yds.

GROUP 2: Highline cableway; Hydraulic excavator, 3-1/2 cu. yds. up to 7 cu. yds.; Licensed construction work boat operator, on site; Power blade operator (finish); Power shovels, over 1 cu. yd. up to and including 7 cu. yds. m.r.c.

GROUP 3: Asphalt milling machine; Cable backhoe; Combination backhoe and loader over 3/4 cu. yds.; Continuous flight tie back machine assistant to engineer or mechanic; Crane mounted continuous flight tie back machine, tonnage to apply; Crane mounted drill attachment, tonnage to apply; Dozer, slope brd; Gradall; Hydraulic excavator, up to 3 1/2 cu. yds.; Loader 4 cu. yds. and over; Long reach excavator; Multiple engine scraper (when used as push pull); Power shovels, up to and including 1 cu. yd.; Pre-stress wire wrapping machine; Side boom cat, 572 or larger; Track loader 4 cu. yds. and over; Wheel excavator (up to and including 750 cu. yds. per hour)

GROUP 4: Asphalt plant engineer/box person; Chicago boom; Combination backhoe and loader up to and including 3/4 cu. yd.; Concrete batch plant (wet or dry); Dozer and/or push cat; Pull- type elevating loader; Gradesetter, grade checker (GPS, mechanical or otherwise); Grooving and grinding machine; Heading shield operator; Heavy-duty drilling equipment, Hughes, LDH, Watson 3000 or similar; Heavy-duty repairperson and/or welder; Lime spreader; Loader under 4 cu. yds.; Lubrication and service engineer (mobile and grease rack); Mechanical finishers or spreader machine (asphalt, Barber-Greene and similar); Miller Formless M-9000 slope paver or similar; Portable crushing and screening plants; Power blade support; Roller operator, asphalt; Rubber-tired scraper, self-loading (paddle-wheels, etc.); Rubber- tired earthmoving equipment (scrapers); Slip form paver (concrete); Small tractor with drag; Soil stabilizer (P & H or equal); Spider plow and spider puller; Tubex pile rig; Unlicensed constuction work boat operator, on site; Timber skidder; Track loader up to 4 yds.; Tractor-drawn scraper; Tractor, compressor drill combination; Welder; Woods-Mixer (and other similar Pugmill equipment)

GROUP 5: Cast-in-place pipe laying machine; Combination slusher and motor operator; Concrete conveyor or concrete pump, truck or equipment mounted; Concrete conveyor, building site; Concrete pump or pumpcrete gun; Drilling equipment, Watson 2000, Texoma 700 or similar; Drilling and boring machinery, horizontal (not to apply to waterliners, wagon drills or jackhammers); Concrete mixer/all; Person and/or material hoist; Mechanical finishers (concrete) (Clary, Johnson, Bidwell Bridge Deck or similar types); Mechanical burm, curb and/or curb and gutter machine, concrete or asphalt); Mine or shaft hoist; Portable crusher; Power jumbo operator (setting slip-forms, etc., in tunnels); Screed (automatic or manual); Self-propelled compactor with dozer; Tractor with boom D6 or smaller; Trenching machine, maximum digging capacity over 5 ft.

depth; Vermeer T-600B rock cutter or similar

GROUP 6: Armor-Coater (or similar); Ballast jack tamper; Boom- type backfilling machine; Assistant plant engineer; Bridge and/or gantry crane; Chemical grouting machine, truck-mounted; Chip spreading machine operator; Concrete saw (self-propelled unit on streets, highways, airports and canals); Deck engineer; Drilling equipment Texoma 600, Hughes 200 Series or similar up to and including 30 ft. m.r.c.; Drill doctor; Helicopter radio operator; Hydro-hammer or similar; Line master; Skidsteer loader, Bobcat larger than 743 series or similar (with attachments); Locomotive; Lull hi-lift or similar; Oiler, truck mounted equipment; Pavement breaker, truck-mounted, with compressor combination; Paving fabric installation and/or laying machine; Pipe bending machine (pipelines only); Pipe wrapping machine (tractor propelled and supported); Screed (except asphaltic concrete paving); Self- propelled pipeline wrapping machine; Tractor; Self-loading chipper; Concrete barrier moving machine

GROUP 7: Ballast regulator; Boom truck or dual-purpose A-frame truck, non-rotating - under 15 tons; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) - under 15 tons; Cary lift or similar; Combination slurry mixer and/or cleaner; Drilling equipment, 20 ft. and under m.r.c.; Firetender (hot plant); Grouting machine operator; Highline cableway signalperson; Stationary belt loader (Kolman or similar); Lift slab machine (Vagtborg and similar types); Maginnes internal full slab vibrator; Material hoist (1 drum); Mechanical trench shield; Pavement breaker with or without compressor combination); Pipe cleaning machine (tractor propelled and supported); Post driver; Roller (except asphalt); Chip Seal; Self-propelled automatically applied concrete curing mahcine (on streets, highways, airports and canals); Self-propelled compactor (without dozer); Signalperson; Slip-form pumps (lifting device for concrete forms); Tie spacer; Tower mobile; Trenching machine, maximum digging capacity up to and including 5 ft. depth; Truck- type loader

GROUP 8: Bit sharpener; Boiler tender; Box operator; Brakeperson; Combination mixer and compressor (shotcrete/gunite); Compressor operator; Deckhand; Fire tender; Forklift (under 20 ft.); Generator; Gunite/shotcrete equipment operator; Hydraulic monitor; Ken seal machine (or similar); Mixermobile; Oiler; Pump operator; Refrigeration plant; Reservoir-debris tug (self-propelled floating); Ross Carrier (construction site); Rotomist operator; Self-propelled tape machine; Shuttlecar; Self-propelled power sweeper operator (includes vacuum sweeper); Slusher operator; Surface heater; Switchperson; Tar pot firetender; Tugger hoist, single drum; Vacuum cooling plant; Welding machine (powered other than by electricity)

GROUP 8-A: Elevator operator; Skidsteer loader-Bobcat 743 series or smaller, and similar (without attachments); Mini excavator under 25 H.P. (backhoe-trencher); Tub grinder wood chipper

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ALL CRANES AND ATTACHMENTS

GROUP 1: Clamshell and dragline over 7 cu. yds.; Crane, over 100 tons; Derrick, over 100 tons; Derrick barge pedestal-mounted, over 100 tons; Self-propelled boom-type lifting device, over 100 tons

GROUP 2: Clamshell and dragline over 1 cu. yd. up to and including 7 cu. yds.; Crane, over 45 tons up to and including 100 tons; Derrick barge, 100 tons and under; Self-propelled boom-type lifting device, over 45 tons; Tower crane

GROUP 3: Clamshell and dragline up to and including 1 cu. yd.; Cranes 45 tons and under; Self-propelled boom-type lifting device 45 tons and under; Boom Truck or dual purpose A-frame truck, non-rotating over 15 tons; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) over 15 tons;

PILEDRIVERS

GROUP 1: Derrick barge pedestal mounted over 100 tons; Clamshell over 7 cu. yds.; Self-propelled boom-type lifting device over 100 tons; Truck crane or crawler, land or barge mounted over 100 tons

GROUP 2: Derrick barge pedestal mounted 45 tons to and including 100 tons; Clamshell up to and including 7 cu. yds.; Self-propelled boom-type lifting device over 45 tons; Truck crane or crawler, land or barge mounted, over 45 tons up to and including 100 tons; Fundex F-12 hydraulic pile rig

GROUP 3: Derrick barge pedestal mounted under 45 tons; Self-propelled boom-type lifting device 45 tons and under; Skid/scow piledriver, any tonnage; Truck crane or crawler, land or barge mounted 45 tons and under

GROUP 4: Assistant operator in lieu of assistant to engineer; Forklift, 10 tons and over; Heavy-duty repairperson/welder

GROUP 5: Deck engineer

GROUP 6: Deckhand; Fire tender

STEEL ERECTORS

GROUP 1: Crane over 100 tons; Derrick over 100 tons; Self-propelled boom-type lifting device over 100 tons

GROUP 2: Crane over 45 tons to 100 tons; Derrick under 100 tons; Self-propelled boom-type lifting device over 45 tons to 100 tons; Tower crane

GROUP 3: Crane, 45 tons and under; Self-propelled boom-type lifting device, 45 tons and under

GROUP 4: Chicago boom; Forklift, 10 tons and over; Heavy-duty repair person/welder

GROUP 5: Boom cat

TUNNEL AND UNDERGROUND WORK

GROUP 1-A: Tunnel bore machine operator, 20' diameter or more

GROUP 1: Heading shield operator; Heavy-duty repairperson; Mucking machine (rubber tired, rail or track type); Raised bore operator (tunnels); Tunnel mole bore operator

GROUP 2: Combination slusher and motor operator; Concrete pump or pumpcrete gun; Power jumbo operator

GROUP 3: Drill doctor; Mine or shaft hoist

GROUP 4: Combination slurry mixer cleaner; Grouting Machine operator; Motorman

GROUP 5: Bit Sharpener; Brakeman; Combination mixer and compressor (gunite); Compressor operator; Oiler; Pump operator; Slusher operator

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AREA DESCRIPTIONS:

POWER EQUIPMENT OPERATORS, CRANES AND ATTACHMENTS,TUNNEL AND UNDERGROUND [These areas do not apply to Piledrivers and Steel Erectors]

AREA 1: ALAMEDA, BUTTE, CONTRA COSTA, KINGS, MARIN, MERCED, NAPA, SACRAMENTO, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, SOLANO, STANISLAUS, SUTTER, YOLO, AND YUBA COUNTIES

AREA 2 - MODOC COUNTY

THE REMAINING COUNTIES ARE SPLIT BETWEEN AREA 1 AND AREA 2 AS NOTED BELOW:

ALPINE COUNTY:
Area 1: Northernmost part
Area 2: Remainder

CALAVERAS COUNTY:
Area 1: Except Eastern part
Area 2: Eastern part

COLUSA COUNTY:
Area 1: Eastern part

Area 2: Remainder

DEL NORTE COUNTY:
Area 1: Extreme Southwestern corner
Area 2: Remainder

ELDORADO COUNTY:
Area 1: North Central part
Area 2: Remainder

FRESNO COUNTY
Area 1: Except Eastern part
Area 2: Eastern part

GLENN COUNTY:
Area 1: Eastern part
Area 2: Remainder

HUMBOLDT COUNTY:
Area 1: Except Eastern and Southwestern parts
Area 2: Remainder

LAKE COUNTY:
Area 1: Southern part
Area 2: Remainder

LASSEN COUNTY:
Area 1: Western part along the Southern portion of border with Shasta County
Area 2: Remainder

MADERA COUNTY
Area 1: Remainder
Area 2: Eastern part

MARIPOSA COUNTY
Area 1: Remainder
Area 2: Eastern part

MENDOCINO COUNTY:
Area 1: Central and Southeastern parts
Area 2: Remainder

MONTEREY COUNTY
Area 1: Remainder
Area 2: Southwestern part

NEVADA COUNTY:
Area 1: All but the Northern portion along the border of Sierra County
Area 2: Remainder

PLACER COUNTY:
Area 1: All but the Central portion
Area 2: Remainder

PLUMAS COUNTY:
Area 1: Western portion
Area 2: Remainder

SHASTA COUNTY:
Area 1: All but the Northeastern corner
Area 2: Remainder

SIERRA COUNTY:
Area 1: Western part
Area 2: Remainder

SISKIYOU COUNTY:
Area 1: Central part
Area 2: Remainder

SONOMA COUNTY:
Area 1: All but the Northwestern corner
Area 2: Reaminder

TEHAMA COUNTY:
Area 1: All but the Western border with mendocino & Trinity Counties
Area 2: Remainder

TRINITY COUNTY:
Area 1: East Central part and the Northeaster border with Shasta County
Area 2: Remainder

TULARE COUNTY;
Area 1: Remainder
Area 2: Eastern part

TUOLUMNE COUNTY:
Area 1: Remainder
Area 2: Eastern Part

ENGI0003-019 06/27/2011

SEE AREA DESCRIPTIONS BELOW

	Rates	Fringes
OPERATOR: Power Equipment (LANDSCAPE WORK ONLY)		
GROUP 1		
AREA 1	$ 28.64	19.96
AREA 2	$ 30.64	19.96
GROUP 2		
AREA 1	$ 25.04	19.96
AREA 2	$ 27.04	19.96
GROUP 3		
AREA 1	$ 20.43	19.96
AREA 2	$ 22.43	19.96

GROUP DESCRIPTIONS:

GROUP 1: Landscape Finish Grade Operator: All finish grade work regardless of equipment used, and all equipment with a rating more than 65 HP.

GROUP 2: Landscape Operator up to 65 HP: All equipment with a manufacturer's rating of 65 HP or less except equipment

covered by Group 1 or Group 3. The following equipment shall be included except when used for finish work as long as manufacturer's rating is 65 HP or less: A-Frame and Winch Truck, Backhoe, Forklift, Hydragraphic Seeder Machine, Roller, Rubber-Tired and Track Earthmoving Equipment, Skiploader, Straw Blowers, and Trencher 31 HP up to 65 HP.

GROUP 3: Landscae Utility Operator: Small Rubber-Tired Tractor, Trencher Under 31 HP.

AREA DESCRIPTIONS:

AREA 1: ALAMEDA, BUTTE, CONTRA COSTA, KINGS, MARIN, MERCED, NAPA, SACRAMENTO, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, SOLANO, STANISLAUS, SUTTER, YOLO, AND YUBA COUNTIES

AREA 2 - MODOC COUNTY

THE REMAINING COUNTIES ARE SPLIT BETWEEN AREA 1 AND AREA 2 AS NOTED BELOW:

ALPINE COUNTY:
Area 1: Northernmost part
Area 2: Remainder

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Area 1: Except Eastern part
Area 2: Eastern part

COLUSA COUNTY:
Area 1: Eastern part
Area 2: Remainder

DEL NORTE COUNTY:
Area 1: Extreme Southwestern corner
Area 2: Remainder

ELDORADO COUNTY:
Area 1: North Central part
Area 2: Remainder

FRESNO COUNTY
Area 1: Except Eastern part
Area 2: Eastern part

GLENN COUNTY:
Area 1: Eastern part
Area 2: Remainder

HUMBOLDT COUNTY:
Area 1: Except Eastern and Southwestern parts
Area 2: Remainder

LAKE COUNTY:
Area 1: Southern part
Area 2: Remainder

LASSEN COUNTY:

Area 1: Western part along the Southern portion of border with Shasta County
Area 2: Remainder

MADERA COUNTY
Area 1: Remainder
Area 2: Eastern part

MARIPOSA COUNTY
Area 1: Remainder
Area 2: Eastern part

MENDOCINO COUNTY:
Area 1: Central and Southeastern parts
Area 2: Remainder

MONTEREY COUNTY
Area 1: Remainder
Area 2: Southwestern part

NEVADA COUNTY:
Area 1: All but the Northern portion along the border of Sierra County
Area 2: Remainder

PLACER COUNTY:
Area 1: All but the Central portion
Area 2: Remainder

PLUMAS COUNTY:
Area 1: Western portion
Area 2: Remainder

SHASTA COUNTY:
Area 1: All but the Northeastern corner
Area 2: Remainder

SIERRA COUNTY:
Area 1: Western part
Area 2: Remainder

SISKIYOU COUNTY:
Area 1: Central part
Area 2: Remainder

SONOMA COUNTY:
Area 1: All but the Northwestern corner
Area 2: Reaminder

TEHAMA COUNTY:
Area 1: All but the Western border with mendocino & Trinity Counties
Area 2: Remainder

TRINITY COUNTY:
Area 1: East Central part and the Northeaster border with Shasta County
Area 2: Remainder

TULARE COUNTY;

Area 1: Remainder
Area 2: Eastern part

TUOLUMNE COUNTY:
Area 1: Remainder
Area 2: Eastern Part

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* IRON0002-004 07/01/2012

	Rates	Fringes
Ironworkers:		
Fence Erector	$ 26.58	16.345
Ornamental, Reinforcing and Structural	$ 33.00	24.985

PREMIUM PAY:

$6.00 additional per hour at the following locations:

China Lake Naval Test Station, Chocolate Mountains Naval Reserve-Niland,
Edwards AFB, Fort Irwin Military Station, Fort Irwin Training Center-Goldstone, San Clemente Island, San Nicholas Island, Susanville Federal Prison, 29 Palms - Marine Corps, U.S. Marine Base - Barstow, U.S. Naval Air Facility - Sealey, Vandenberg AFB

$4.00 additional per hour at the following locations:

Army Defense Language Institute - Monterey, Fallon Air Base, Naval Post Graduate School - Monterey, Yermo Marine Corps Logistics Center

$2.00 additional per hour at the following locations:

Port Hueneme, Port Mugu, U.S. Coast Guard Station - Two Rock

LABO0036-001 07/01/2007

SAN FRANCISCO AND SAN MATEO COUNTIES:

	Rates	Fringes
MASON TENDER, BRICK	$ 26.93	16.50

FOOTNOTES: Underground work such as sewers, manholes, catch basins, sewer pipes, telephone conduits, tunnels and cut trenches: $5.00 per day additional. Work in live sewage: $2.50 per day additional.

LABO0036-002 07/01/2007

SAN FRANCISCO AND SAN MATEO COUNTIES:

	Rates	Fringes
PLASTER TENDER	$ 26.48	16.23

FOOTNOTES: Work on a suspended scaffold: $5.00 per day

additional. Work operating a plaster mixer pump gun: $1.00 per hour additional.

LABO0067-002 12/01/2011

AREA "A" - ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES

AREA "B" - ALPINE, AMADOR, BUTTE, CALAVERAS, COLUSA, DEL NORTE, EL DORADO, FRESNO, GLENN, HUMBOLDT, KINGS, LAKE, LASSEN, MADERA, MARIPOSA, MENDOCINO, MERCED, MODOC, MONTEREY, NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, SHASTA, SIERRA, SISKIYOU, SOLANO, SONOMA, STANISLAUS, SUTTER, TEHAMA, TRINITY, TULARE, TUOLUMNE, YOLO AND YUBA COUNTIES

	Rates	Fringes
Asbestos Removal Laborer		
Areas A & B	$ 18.68	8.15
LABORER (Lead Removal)		
Area A	$ 36.25	7.79
Area B	$ 35.25	7.79

ASBESTOS REMOVAL-SCOPE OF WORK: Site mobilization; initial site clean-up; site preparation; removal of asbestos-containing materials from walls and ceilings; or from pipes, boilers and mechanical systems only if they are being scrapped; encapsulation, enclosure and disposal of asbestos-containing materials by hand or with equipment or machinery; scaffolding; fabrication of temporary wooden barriers; and assembly of decontamination stations.

LABO0067-003 07/01/2009

AREA A: ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO, SAN MATEO & SANTA CLARA

AREA B: ALPINE, AMADOR, BUTTE, CALAVERAS, COLUSA, DEL NORTE, EL DORADO, FRESNO, GLENN, HUMBOLDT, KINGS, LAKE, LASSEN, MADERA, MARIPOSA, MENOCINO, MERCED, MODOC, MONTEREY, NAPA, NEVADA, PLACER, PLUMAS, SANCRMENTO, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, SIERRA, SHASTA, SISKIYOU, SOLANO, SONOMA, STANISLAUS,TEHAMA,TRINITY, TULARE, TUOLUMNE, YOLO & YUBA COUNTIES

	Rates	Fringes
LABORER (TRAFFIC CONTROL/LANE CLOSURE)		
Escort Driver, Flag Person		
Area A	$ 26.89	14.93
Area B	$ 25.89	14.93
Traffic Control Person I		
Area A	$ 27.19	14.93
Area B	$ 26.19	14.93
Traffic Control Person II		
Area A	$ 24.69	14.93

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      Area B.....................$ 23.69            14.93

  TRAFFIC CONTROL PERSON I: Layout of traffic control, crash
  cushions, construction area and roadside signage.

  TRAFFIC CONTROL PERSON II: Installation and removal of
  temporary/permanent signs, markers, delineators and crash
  cushions.
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 LABO0067-006 06/28/2010

AREA "A" - ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO, SAN
MATEO AND SANTA CLARA COUNTIES

AREA "B"  -  ALPINE, AMADOR, BUTTE, CALAVERAS, COLUSA, EL
DORADO, FRESNO, GLENN, KINGS, LASSEN, MADERA, MARIPOSA, MERCED,
MODOC, MONTEREY, NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, SAN
BENITO, SAN JOAQUIN, SANTA CRUZ, SHASTA, SIERRA, SISKIYOU,
SOLANO, SONOMA, STANISLAUS, SUTTER, TEHAMA, TRINITY, TULARE,
TUOLUMNE, YOLO AND YUBA COUNTIES


                                   Rates          Fringes

Laborers: (CONSTRUCTION CRAFT
LABORERS - AREA A:)
     Construction Specialist
     Group.......................$ 27.84            15.82
     GROUP 1.....................$ 27.14            15.82
     GROUP 1-a...................$ 27.36            15.82
     GROUP 1-c...................$ 27.19            15.82
     GROUP 1-e...................$ 27.69            15.82
     GROUP 1-f...................$ 27.72            15.82
     GROUP 1-g (Contra Costa
     County).....................$ 27.34            15.82
     GROUP 2.....................$ 26.99            15.82
     GROUP 3.....................$ 26.89            15.82
     GROUP 4.....................$ 20.58            15.82
  See groups 1-b and 1-d under laborer classifications.
Laborers: (CONSTRUCTION CRAFT
LABORERS - AREA B:)
     Construction Specialist
     Group.......................$ 26.84            15.82
     GROUP 1.....................$ 26.14            15.82
     GROUP 1-a...................$ 26.36            15.82
     GROUP 1-c...................$ 26.19            15.82
     GROUP 1-e...................$ 26.69            15.82
     GROUP 1-f...................$ 26.72            15.82
     GROUP 2.....................$ 25.99            15.82
     GROUP 3.....................$ 25.89            15.82
     GROUP 4.....................$ 19.58            15.82
  See groups 1-b and 1-d under laborer classifications.
Laborers: (GUNITE - AREA A:)
     GROUP 1.....................$ 28.10            15.82
     GROUP 2.....................$ 27.60            15.82
     GROUP 3.....................$ 27.60            15.82
     GROUP 4.....................$ 27.60            15.82
Laborers: (GUNITE - AREA B:)
     GROUP 1.....................$ 27.10            15.82
     GROUP 2.....................$ 26.60            15.82
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     GROUP 3.....................$ 26.01            15.82
     GROUP 4.....................$ 25.89            15.82
Laborers: (WRECKING - AREA A:)
     GROUP 1.....................$ 27.14            15.82
     GROUP 2.....................$ 26.99            15.82
Laborers: (WRECKING - AREA B:)
     GROUP 1.....................$ 26.14            15.82
     GROUP 2.....................$ 25.99            15.82
Landscape Laborer (GARDENERS,
HORTICULTURAL & LANDSCAPE
LABORERS - AREA A:)
     (1) New Construction........$ 26.89            15.82
     (2) Establishment Warranty
     Period......................$ 20.58            15.82
Landscape Laborer (GARDENERS,
HORTICULURAL & LANDSCAPE
LABORERS - AREA B:)
     (1) New Construction........$ 25.89            15.82
     (2) Establishment Warranty
     Period......................$ 19.58            15.82

FOOTNOTES:
  Laborers working off or with or from bos'n chairs, swinging
  scaffolds, belts shall receive $0.25 per hour above the
  applicable wage rate.  This shall not apply to workers
  entitled to receive the wage rate set forth in Group 1-a
  below.

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LABORER CLASSIFICATIONS

  CONSTRUCTION SPECIALIST GROUP: Asphalt ironer and raker;
  Chainsaw; Laser beam in connection with laborers' work;
  Cast-in- place manhole form setter; Pressure pipelayer;
  Davis trencher - 300 or similar type (and all small
  trenchers); Blaster; Diamond driller; Multiple unit drill;
  Hydraulic drill

  GROUP 1: Asphalt spreader boxes (all types); Barko, Wacker
  and similar type tampers; Buggymobile; Caulker, bander,
  pipewrapper, conduit layer, plastic pipelayer; Certified
  hazardous waste worker including Leade Abatement;
  Compactors of all types; Concrete and magnesite mixer, 1/2
  yd. and under; Concrete pan work; Concrete sander; Concrete
  saw; Cribber and/or shoring; Cut granite curb setter;
  Dri-pak-it machine; Faller, logloader and bucker; Form
  raiser, slip forms; Green cutter; Headerboard, Hubsetter,
  aligner, by any method; High pressure blow pipe (1-1/2" or
  over, 100 lbs. pressure/over); Hydro seeder and similar
  type; Jackhammer operator; Jacking of pipe over 12 inches;
  Jackson and similar type compactor; Kettle tender, pot and
  worker applying asphalt, lay-kold, creosote, lime, caustic
  and similar type materials (applying means applying,
  dipping or handling of such materials); Lagging, sheeting,
  whaling, bracing, trenchjacking, lagging hammer; Magnesite,
  epoxyresin, fiberglass, mastic worker (wet or dry); No
  joint pipe and stripping of same, including repair of
  voids; Pavement breaker and spader, including tool grinder;
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Perma curb; Pipelayer (including grade checking in connection with pipelaying); Precast-manhole setter; Pressure pipe tester; Post hole digger, air, gas and electric; Power broom sweeper; Power tampers of all types (except as shown in Group 2); Ram set gun and stud gun; Riprap stonepaver and rock-slinger, including placing of sacked concrete and/or sand (wet or dry) and gabions and similar type; Rotary scarifier or multiple head concrete chipping scarifier; Roto and Ditch Witch; Rototiller; Sandblaster, pot, gun, nozzle operators; Signalling and rigging; Tank cleaner; Tree climber; Turbo blaster; Vibrascreed, bull float in connection with laborers' work; Vibrator; Hazardous waste worker (lead removal); Asbestos and mold removal worker

GROUP 1-a: Joy drill model TWM-2A; Gardner-Denver model DH143 and similar type drills; Track driller; Jack leg driller; Wagon driller; Mechanical drillers, all types regardless of type or method of power; Mechanical pipe layers, all types regardless of type or method of power; Blaster and powder; All work of loading, placing and blasting of all powder and explosives of whatever type regardless of method used for such loading and placing; High scalers (including drilling of same); Tree topper; Bit grinder

GROUP 1-b: Sewer cleaners shall receive $4.00 per day above Group 1 wage rates. "Sewer cleaner" means any worker who handles or comes in contact with raw sewage in small diameter sewers. Those who work inside recently active, large diameter sewers, and all recently active sewer manholes shal receive $5.00 per day above Group 1 wage rates.

GROUP 1-c: Burning and welding in connection with laborers' work; Synthetic thermoplastics and similar type welding

GROUP 1-d: Maintenance and repair track and road beds. All employees performing work covered herein shall receive $ .25 per hour above their regular rate for all work performed on underground structures not specifically covered herein. This paragraph shall not be construed to apply to work below ground level in open cut. It shall apply to cut and cover work of subway construction after the temporary cover has been placed.

GROUP 1-e: Work on and/or in bell hole footings and shafts thereof, and work on and in deep footings. (A deep footing is a hole 15 feet or more in depth.) In the event the depth of the footing is unknown at the commencement of excavation, and the final depth exceeds 15 feet, the deep footing wage rate would apply to all employees for each and every day worked on or in the excavation of the footing from the date of inception.

GROUP 1-f: Wire winding machine in connection with guniting or shot crete

GROUP 1-g, CONTRA COSTA COUNTY: Pipelayer (including grade checking in connection with pipelaying); Caulker; Bander; Pipewrapper; Conduit layer; Plastic pipe layer; Pressure

pipe tester; No joint pipe and stripping of same, including repair of voids; Precast manhole setters, cast in place manhole form setters

GROUP 2: Asphalt shoveler; Cement dumper and handling dry cement or gypsum; Choke-setter and rigger (clearing work); Concrete bucket dumper and chute; Concrete chipping and grinding; Concrete laborer (wet or dry); Driller tender, chuck tender, nipper; Guinea chaser (stake), grout crew; High pressure nozzle, adductor; Hydraulic monitor (over 100 lbs. pressure); Loading and unloading, carrying and hauling of all rods and materials for use in reinforcing concrete construction; Pittsburgh chipper and similar type brush shredders; Sloper; Single foot, hand-held, pneumatic tamper; All pneumatic, air, gas and electric tools not listed in Groups 1 through 1-f; Jacking of pipe - under 12 inches

GROUP 3: Construction laborers, including bridge and general laborer; Dump, load spotter; Flag person; Fire watcher; Fence erector; Guardrail erector; Gardener, horticultural and landscape laborer; Jetting; Limber, brush loader and piler; Pavement marker (button setter); Maintenance, repair track and road beds; Streetcar and railroad construction track laborer; Temporary air and water lines, Victaulic or similar; Tool room attendant (jobsite only)

GROUP 4: Final clean-up work of debris, grounds and building including but not limited to: street cleaner; cleaning and washing windows; brick cleaner (jobsite only); material cleaner (jobsite only). The classification "material cleaner" is to be utilized under the following conditions:
A: at demolition site for the salvage of the material.
B: at the conclusion of a job where the material is to be salvaged and stocked to be reused on another job.
C: for the cleaning of salvage material at the jobsite or temporary jobsite yard.

The material cleaner classification should not be used in the performance of "form stripping, cleaning and oiling and moving to the next point of erection".

GUNITE LABORER CLASSIFICATIONS

GROUP 1: Structural Nozzleman

GROUP 2: Nozzleman, Gunman, Potman, Groundman

GROUP 3: Reboundman

GROUP 4: Gunite laborer

WRECKING WORK LABORER CLASSIFICATIONS

GROUP 1: Skilled wrecker (removing and salvaging of sash, windows and materials)

GROUP 2: Semi-skilled wrecker (salvaging of other building materials)

LABO0067-010 07/01/2010

	Rates	Fringes
Tunnel and Shaft Laborers:		
GROUP 1	$ 33.35	16.08
GROUP 2	$ 33.12	16.08
GROUP 3	$ 32.87	16.08
GROUP 4	$ 32.42	16.08
GROUP 5	$ 31.88	16.08
Shotcrete Specialist	$ 33.87	16.08

TUNNEL AND SHAFT CLASSIFICATIONS

GROUP 1: Diamond driller; Groundmen; Gunite and shotcrete nozzlemen

GROUP 2: Rodmen; Shaft work & raise (below actual or excavated ground level)

GROUP 3: Bit grinder; Blaster, driller, powdermen, heading; Cherry pickermen - where car is lifted; Concrete finisher in tunnel; Concrete screedman; Grout pumpman and potman; Gunite & shotcrete gunman & potman; Headermen; High pressure nozzleman; Miner - tunnel, including top and bottom man on shaft and raise work; Nipper; Nozzleman on slick line; Sandblaster - potman, Robotic Shotcrete Placer, Segment Erector, Tunnel Muck Hauler, Steel Form raiser and setter; Timberman, retimberman (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powderman - primer house

GROUP 4: Vibrator operator, pavement breaker; Bull gang - muckers, trackmen; Concrete crew - includes rodding and spreading, Dumpmen (any method)

GROUP 5: Grout crew; Reboundman; Swamper/ Brakeman

LABO0073-003 07/01/2011

CALAVERAS, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:

	Rates	Fringes
LABORER		
Mason Tender-Brick	$ 30.62	14.43

LABO0073-005 07/01/2009

CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS & TUOLUMNE

	Rates	Fringes

Plasterer tender.....$ 28.37 14.14

LABO0166-001 07/01/2006

ALAMEDA AND CONTRA COSTA COUNTIES:

	Rates	Fringes
Brick Tender.....	$ 25.91	14.65

FOOTNOTES: Work on jobs where heat-protective clothing is required: $2.00 per hour additional. Work at grinders: $.25 per hour additional. Manhole work: $2.00 per day additional.

LABO0166-002 07/01/2006

ALAMEDA AND CONTRA COSTA COUNTIES:

	Rates	Fringes
Plasterer tender.....	$ 30.15	15.90

Gun Man $0.75 per hour additional

LABO0270-001 07/01/2008

SANTA CLARA & SANTA CRUZ COUNTIES

	Rates	Fringes
MASON TENDER, BRICK		
Santa Clara.....	$ 27.93	13.48
Santa Cruz.....	$ 26.93	13.48

FOOTNOTE: $2.00 per hour for refactory work where heat-protective clothing is required.

LABO0270-005 07/01/2007

SANTA CLARA AND SANTA CRUZ COUNTIES

	Rates	Fringes
PLASTER TENDER		
4 Stories and under.....	$ 27.62	13.73
5 Stories and above.....	$ 29.54	13.73

LABO0294-001 07/01/2011

FRESNO, KINGS AND MADERA COUNTIES

	Rates	Fringes
LABORER (Brick)		
Mason Tender-Brick.....	$ 30.62	14.43

LABO0297-001 08/01/2007

MONTEREY AND SAN BENITO COUNTIES

	Rates	Fringes
Plasterer tender.....	$ 23.70	11.50

FOOTNOTE: Mixer person: $4.00 per day additional.

PAIN0016-001 01/01/2012

ALAMEDA, CONTRA COSTA, MONTEREY, SAN BENITO, SAN MATEO, SANTA CLARA, AND SANTA CRUZ COUNTIES

	Rates	Fringes
Painters:.....	$ 33.09	19.83

PREMIUMS:

EXOTIC MATERIALS - $0.75 additional per hour.
SPRAY WORK: - $0.50 additional per hour.
INDUSTRIAL PAINTING - $0.25 additional per hour
[Work on industrial buildings used for the manufacture and processing of goods for sale or service; steel construction (bridges), stacks, towers, tanks, and similar structures]

HIGH WORK:
over 50 feet - $2.00 per hour additional
100 to 180 feet - $4.00 per hour additional
Over 180 feet - $6.00 per houir additional

PAIN0016-003 01/01/2012

AREA 1: ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO & SANTA CLARA COUNTIES

AREA 2: CALAVERAS, MARIPOA, MERCED, MONTEREY, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, STANISLAUS & TUOLUMNE COUNTIES

	Rates	Fringes
Drywall Finisher/Taper		
AREA 1.....	$ 40.37	19.64
AREA 2.....	$ 36.24	18.24

PAIN0016-012 01/01/2012

ALAMEDA, CONTRA COSTA, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN FRANCISCO, SAN MATEO, SANTA CLARA AND SANTA CRUZ COUNTIES

	Rates	Fringes
SOFT FLOOR LAYER.....	$ 44.87	17.78

PAIN0016-015 01/01/2012

CALAVERAS, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS & TUOLUMNE COUNTIES

	Rates	Fringes
PAINTER	$ 28.35	15.74
Brush	$ 28.35	15.74

FOOTNOTES:
SPRAY/SANDBLAST: $0.50 additional per hour.
EXOTIC MATERIALS: $1.00 additional per hour.
HIGH TIME: Over 50 ft above ground or water level $2.00 additional per hour. 100 to 180 ft above ground or water level $4.00 additional per hour. Over 180 ft above ground or water level $6.00 additional per hour.

PAIN0016-022 01/01/2012

SAN FRANCISCO COUNTY

	Rates	Fringes
PAINTER	$ 36.71	19.83

PAIN0169-001 01/01/2012

FRESNO, KINGS, MADERA, MARIPOSA AND MERCED COUNTIES:

	Rates	Fringes
GLAZIER	$ 32.23	17.60

PAIN0169-005 01/01/2012

ALAMEDA CONTRA COSTA, MONTEREY, SAN BENITO, SAN FRANCISCO, SAN MATEO, SANTA CLARA & SANTA CRUZ COUNTIES

	Rates	Fringes
GLAZIER	$ 41.88	20.39

PAIN0294-004 01/01/2012

FRESNO, KINGS AND MADERA COUNTIES

	Rates	Fringes
PAINTER		
Brush, Roller	$ 25.67	15.68
Drywall Finisher/Taper	$ 30.47	16.86

FOOTNOTE:
Spray Painters & Paperhangers recive $1.00 additional per hour. Painters doing Drywall Patching receive $1.25 additional per hour. Lead Abaters & Sandblasters receive $1.50 additional per hour. High Time - over 30 feet (does not include work from a lift) $0.75 per hour additional.

PAIN0294-005 01/01/2012

FRESNO, KINGS & MADERA

	Rates	Fringes
SOFT FLOOR LAYER.....	$ 27.83	15.46

PAIN0767-001 01/01/2012

CALAVERAS, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:

	Rates	Fringes
GLAZIER.....	$ 32.24	18.59

PAID HOLIDAYS: New Year's Day, Martin Luther King, Jr. Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day.

Employee rquired to wear a body harness shall receive $1.50 per hour above the basic hourly rate at any elevation.

PAIN1176-001 07/01/2011

HIGHWAY IMPR0VEMENT

	Rates	Fringes
Parking Lot Striping/Highway Marking:		
GROUP 1.....	$ 31.35	11.65
GROUP 2.....	$ 26.65	11.65
GROUP 3.....	$ 26.96	11.65

CLASSIFICATIONS

GROUP 1: Striper: Layout and application of painted traffic stripes and marking; hot thermo plastic; tape, traffic stripes and markings

GROUP 2: Gamecourt & Playground Installer

GROUP 3: Protective Coating, Pavement Sealing

PAIN1237-003 01/01/2012

CALAVERAS; SAN JOAQUIN COUNTIES; STANISLAUS AND TUOLUMNE COUNTIES:

	Rates	Fringes
SOFT FLOOR LAYER.....	$ 28.25	16.53

PLAS0066-002 08/01/2011

ALAMEDA, CONTRA COSTA, SAN MATEO AND SAN FRANCISCO COUNTIES:

	Rates	Fringes
PLASTERER.....	$ 33.13	24.64

PLAS0300-001 07/01/2009

	Rates	Fringes
PLASTERER		
AREA 188: Fresno	$ 29.72	14.21
AREA 224: San Benito, Santa Clara, Santa Cruz	$ 34.22	14.08
AREA 295: Calaveras & San Joaquin Couonties	$ 32.82	15.10
AREA 337: Monterey County	$ 31.01	13.93
AREA 429: Mariposa, Merced, Stanislaus, Tuolumne Counties	$ 32.82	15.30

PLAS0300-005 06/28/2010

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 28.65	18.56

PLUM0038-001 07/01/2011

SAN FRANCISCO COUNTY

	Rates	Fringes
PLUMBER (Plumber, Steamfitter, Refrigeration Fitter)	$ 57.75	39.74

PLUM0038-005 07/01/2011

SAN FRANCISCO COUNTY

	Rates	Fringes
Landscape/Irrigation Fitter (Underground/Utility Fitter)	$ 46.96	28.85

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* PLUM0062-001 07/01/2012

MONTEREY AND SANTA CRUZ COUNTIES

	Rates	Fringes
PLUMBER & STEAMFITTER	$ 40.55	23.69

PLUM0159-001 01/01/2012

CONTRA COSTA COUNTY

	Rates	Fringes
Plumber and steamfitter		
(1) Refrigeration	$ 49.33	27.94
(2) All other work	$ 28.14	27.64

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* PLUM0246-001 07/01/2012

FRESNO, KINGS & MADERA COUNTIES

	Rates	Fringes
PLUMBER & STEAMFITTER	$ 35.45	23.94

PLUM0246-004 01/01/2012

FRESNO, MERCED & SAN JOAQUIN COUNIES

	Rates	Fringes
PLUMBER (PIPE TRADESMAN)	$ 13.00	9.23

PIPE TRADESMAN SCOPE OF WORK:
Installation of corrugated metal piping for drainage, as well as installation of corrugated metal piping for culverts in connection with storm sewers and drains; Grouting, dry packing and diapering of joints, holes or chases including paving over joints, in piping; Temporary piping for dirt work for building site preparation; Operating jack hammers, pavement breakers, chipping guns, concrete saws and spades to cut holes, chases and channels for piping systems; Digging, grading, backfilling and ground preparation for all types of pipe to all points of the jobsite; Ground preparation including ground leveling, layout and planting of shrubbery, trees and ground cover, including watering, mowing, edging, pruning and fertilizing, the breaking of concrete, digging, backfilling and tamping for the preparation and completion of all work in connection with lawn sprinkler and landscaping; Loading, unloading and distributing materials at jobsite; Putting away materials in storage bins in jobsite secure storage area; Demolition of piping and fixtures for remodeling and additions; Setting up and tearing down work benches, ladders and job shacks; Clean-up and sweeping of jobsite; Pipe wrapping and waterproofing where tar or similar material is applied for protection of buried piping; Flagman

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PLUM0342-001 07/01/2011

ALAMEDA & CONTRA COSTA COUNTIES

	Rates	Fringes
PIPEFITTER		
CONTRA COSTA COUNTY	$ 51.21	29.79
PLUMBER, PIPEFITTER, STEAMFITTER		
ALAMEDA COUNTY	$ 51.21	29.79

PLUM0355-004 07/01/2012

ALAMEDA, CALAVERAS, CONTRA COSTA, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, STANISLAUS, AND TUOLUMNE COUNTIES:

	Rates	Fringes

Underground Utility Worker
/Landscape Fitter.....$ 26.35 8.00

PLUM0393-001 01/01/2012

SAN BENITO AND SANTA CLARA COUNTIES

	Rates	Fringes
PLUMBER/PIPEFITTER.....	$ 48.80	26.83

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* PLUM0442-001 07/01/2012

CALAVERAS, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS & TUOLUMNE COUNTIES

	Rates	Fringes
PLUMBER & STEAMFITTER.....	$ 35.95	23.79

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* PLUM0467-001 07/01/2012

SAN MATEO COUNTY

	Rates	Fringes
Plumber/Pipefitter/Steamfitter...	$ 54.00	28.41

ROOF0027-002 09/01/2010

FRESNO, KINGS, AND MADERA COUNTIES

	Rates	Fringes
ROOFER.....	$ 27.65	8.07

FOOTNOTE: Work with pitch, pitch base of pitch impregnated products or any material containing coal tar pitch, on any building old or new, where both asphalt and pitchers are used in the application of a built-up roof or tear off: $2.00 per hour additional.

ROOF0040-002 08/01/2010

SAN FRANCISCO & SAN MATEO COUNTIES:

	Rates	Fringes
ROOFER.....	$ 33.33	11.04

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* ROOF0081-001 08/01/2011

ALAMEDA AND CONTRA COSTA COUNTIES:

	Rates	Fringes
Roofer.....	$ 33.16	10.90

ROOF0081-004 08/01/2011

CALAVERAS, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:

	Rates	Fringes
ROOFER	$ 28.49	10.75

ROOF0095-002 08/01/2011

MONTEREY, SAN BENITO, SANTA CLARA, AND SANTA CRUZ COUNTIES:

	Rates	Fringes
ROOFER		
Journeyman	$ 35.58	10.90
Kettle person (2 kettles); Bitumastic, Enameler, Coal Tar, Pitch and Mastic worker	$ 35.58	10.90
Kettleman (2 kettles), Bitumastic Enameler, Coal Tar, Pitch & Mastic	$ 33.73	9.89

SFCA0483-001 08/01/2011

ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES:

	Rates	Fringes
SPRINKLER FITTER (FIRE)	$ 50.59	23.70

SFCA0669-011 04/01/2012

CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, STANISLAUS AND TUOLUMNE COUNTIES:

	Rates	Fringes
SPRINKLER FITTER	$ 32.33	19.40

SHEE0104-001 01/01/2012

AREA 1: ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO, SANTA CLARA

AREA 2: MONTEREY & SAN BENITO

AREA 3: SANTA CRUZ

	Rates	Fringes
SHEET METAL WORKER		

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     AREA 1:
      Mechanical Contracts
      under $200,000.............$ 44.47            31.25
      All Other Work.............$ 48.85            31.55
     AREA 2......................$ 38.00            28.21
     AREA 3......................$ 40.15            26.06
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 SHEE0104-015 07/01/2011

ALAMEDA, CONTRA COSTA, MONTEREY, SAN BENITO, SAN FRANCISCO, SAN
MATEO, SANTA CLARA AND SANTA CRUZ COUNTIES:


                                   Rates          Fringes

SHEET METAL WORKER (Metal
Decking and Siding only).........$ 32.43            28.66
-----------------------------------------------------------------
 SHEE0162-001 07/01/2011

CALAVERAS AND SAN JOAQUIN COUNTIES:

                                   Rates          Fringes

SHEET METAL WORKER...............$ 33.71            22.79
-----------------------------------------------------------------
 SHEE0162-003 07/01/2011

MARIPOSA, MERCED, STANISLAUS AND TUOLUMNE COUNTIES:

                                   Rates          Fringes

SHEET METAL WORKER (Excluding
metal deck and siding)...........$ 34.64            24.91
-----------------------------------------------------------------
 SHEE0162-004 07/01/2011

FRESNO, KINGS, AND MADERA COUNTIES:

                                   Rates          Fringes

SHEET METAL WORKER...............$ 34.32            25.50
-----------------------------------------------------------------
 SHEE0162-013 07/01/2011

CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, SAN
JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:


                                   Rates          Fringes

Sheet metal worker (Metal
decking and siding only).........$ 34.31            26.78
-----------------------------------------------------------------
 TEAM0094-001 07/01/2011

                                   Rates          Fringes

Truck drivers:
     GROUP 1.....................$ 27.13            21.09
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GROUP 2	$ 27.43	21.09
GROUP 3	$ 27.73	21.09
GROUP 4	$ 28.08	21.09
GROUP 5	$ 28.43	21.09

FOOTNOTES:
Articulated dump truck; Bulk cement spreader (with or without auger); Dumpcrete truck; Skid truck (debris box); Dry pre-batch concrete mix trucks; Dumpster or similar type; Slurry truck: Use dump truck yardage rate.
Heater planer; Asphalt burner; Scarifier burner; Industrial lift truck (mechanical tailgate); Utility and clean-up truck: Use appropriate rate for the power unit or the equipment utilized.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Dump trucks, under 6 yds.; Single unit flat rack (2-axle unit); Nipper truck (when flat rack truck is used appropriate flat rack shall apply); Concrete pump truck (when flat rack truck is used appropriate flat rack shall apply); Concrete pump machine; Fork lift and lift jitneys; Fuel and/or grease truck driver or fuel person; Snow buggy; Steam cleaning; Bus or personhaul driver; Escort or pilot car driver; Pickup truck; Teamster oiler/greaser and/or serviceperson; Hook tender (including loading and unloading); Team driver; Tool room attendant (refineries)

GROUP 2: Dump trucks, 6 yds. and under 8 yds.; Transit mixers, through 10 yds.; Water trucks, under 7,000 gals.; Jetting trucks, under 7,000 gals.; Single-unit flat rack (3-axle unit); Highbed heavy duty transport; Scissor truck; Rubber-tired muck car (not self-loaded); Rubber-tired truck jumbo; Winch truck and "A" frame drivers; Combination winch truck with hoist; Road oil truck or bootperson; Buggymobile; Ross, Hyster and similar straddle carriers; Small rubber-tired tractor

GROUP 3: Dump trucks, 8 yds. and including 24 yds.; Transit mixers, over 10 yds.; Water trucks, 7,000 gals. and over; Jetting trucks, 7,000 gals. and over; Vacuum trucks under 7500 gals. Trucks towing tilt bed or flat bed pull trailers; Lowbed heavy duty transport; Heavy duty transport tiller person; Self- propelled street sweeper with self-contained refuse bin; Boom truck - hydro-lift or Swedish type extension or retracting crane; P.B. or similar type self-loading truck; Tire repairperson; Combination bootperson and road oiler; Dry distribution truck (A bootperson when employed on such equipment, shall receive the rate specified for the classification of road oil trucks or bootperson); Ammonia nitrate distributor, driver and mixer; Snow Go and/or plow

GROUP 4: Dump trucks, over 25 yds. and under 65 yds.; Water pulls - DW 10's, 20's, 21's and other similar equipment when pulling Aqua/pak or water tank trailers; Helicopter pilots (when transporting men and materials); Lowbedk Heavy Duty Transport up to including 7 axles; DW10's, 20's, 21's and other similar Cat type, Terra Cobra, LeTourneau Pulls,

Tournorocker, Euclid and similar type equipment when pulling fuel and/or grease tank trailers or other miscellaneous trailers; Vacuum Trucks 7500 gals and over and truck repairman

GROUP 5: Dump trucks, 65 yds. and over; Holland hauler; Low bed Heavy Duty Transport over 7 axles

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is union or non-union.

Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters , PLUM, indicate the international union and the four-digit number, 0198, that follows indicates the local union number or district council number where applicable , i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rate.

Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union rates, LA indicates the State of Louisiana; 2004 is the year of the survey; and 007 is an internal number used in producing the

wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.

Survey wage rates will remain in effect and will not change until a new survey is conducted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor

200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

ATTACHMENT D

CALIFORNIA GENERAL PREVAILING WAGES AS OF
(*10 days prior to bid opening*)

CONTRACTOR IS RESPONSIBLE FOR CHECKING MOST RECENT WAGE RATE. CONTRACTOR SHALL ALSO PAY HIGHER RATE OF EITHER FEDERAL WAGE DETERMINATION OR CURRENT STATE PREVAILING WAGE.

STATEWIDE

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: # BOILERMAKER-BLACKSMITH

DETERMINATION: C-14-X-2-2011-2
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: September 30, 2011*. Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.

LOCALITY: All localities within the State of California

		Employer Payments					Straight-Time		Overtime Hourly Rate		
CLASSIFICATION (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension[d]	Vacation/ Holiday	Training	Other Payments	Hours	Total Hourly Rate	Daily 1 1/2X	Saturday 1 1/2X	Sunday/ Holiday 2X
[a] AREA 1 Boilermaker-Blacksmith	$41.26	$8.57	[b]$10.43	[b]$4.93	$0.75	$0.29	8	$66.23	[c]$94.54	[c]$94.54	$122.85
[a] AREA 2 Boilermaker-Blacksmith	$42.42	$8.57	[b]$15.75	[b]$4.00	$1.25	$0.34	8	$72.33	[c]$103.415	[c]$103.415	$134.50
[a] AREA 3 Boilermaker-Blacksmith	$38.60	$8.57	[b]$14.40	[b]$3.37	$1.25	$0.34	8	$66.53	[c]$94.715	[c]$94.715	$122.90

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] Area 1 - Imperial, Inyo, Kern, Los Angeles, Orange, Riverside, San Bernardino, San Diego, Santa Barbara, San Luis Obispo (only that portion that is within a 25-mile radius of the city of Santa Maria), and Ventura counties.
Area 2 – Alameda, Contra Costa, Marin, San Francisco, San Mateo, Santa Clara, and Solano Counties.
Area 3- All other remaining counties.

[b] Contribution is factored at the applicable overtime multiplier for each overtime hour worked.

[c] Rate applies to the first 2 daily overtime hours and the first 10 hours worked on Saturday. All other overtime is paid at the Sunday/Holiday rate.

[d] Includes amount for Annuity Trust Fund.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by containing the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: # IRON WORKER

DETERMINATION: C-20-X-1-2011-2
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: All localities within the State of California

		Employer Payments					Straight-Time		Overtime Hourly Rate		
CLASSIFICATION (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension	Vacation/ Holiday	Training	Other Payments	Hours	Total Hourly Rate	[b]Daily 1 1/2X	[b]Saturday 1 1/2X	Sunday/ Holiday
Iron Worker (Ornamental, Reinforcing, Structural)	$33.00	7.88	7.96	[a] 3.92	0.72	4.255	8	57.735	74.235	74.235	90.735
Fence Erector	$26.58	5.80	5.44	[a]2.62	0.51	1.465	8	42.415	55.705	55.705	68.995

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.
[a] Includes supplemental dues.
[b] Rate applies to the first 2 daily overtime hours and the first 8 hours on Saturday. All other overtime is at the Sunday/Holiday rate.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: ELECTRICAL UTILITY LINEMAN

DETERMINATION: C-61-X-3-2011-1
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: May 31, 2012* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for new rates after 10 days from the expiration date, if no subsequent determination is issued.

LOCALITY: All localities within the State of California, except Del Norte, Modoc, and Siskiyou Counties. (For Del Norte, Modoc and Siskiyou - see page 2I)

CLASSIFICATION (Journeyperson)	Basic Hourly Rate	Employer Payments: Health and Welfare	Pension	Training	Other Payments	Straight-Time Hours	Total Hourly Rate	Overtime Hourly Rate: Daily 2X	Saturday 2X	Sunday and Holiday
# Lineman, Cable Splicer	$47.87	4.75	[a] 7.68	[b] 0.35	0.55	8	62.63	112.29	112.29	112.29
## Powderman	42.75	4.75	[a] 6.94	[b] 0.32	0.49	8	56.53	100.89	100.89	100.89
## Groundman	29.25	4.75	[a] 6.90	[b] 0.21	0.34	8	42.33	72.67	72.67	72.67

DETERMINATION: C-61-X-4-2008-1
ISSUE DATE: August 22, 2008
EXPIRATION DATE OF DETERMINATION: September 30, 2008* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for new rates after 10 days from the expiration date, if no subsequent determination is issued.
LOCALITY: All localities within the State of California, except Del Norte, Modoc, and Siskiyou Counties. (For Del Norte, Modoc, and Siskiyou – see page 2I)

CLASSIFICATION (Journeyperson)	Basic Hourly Rate	Employer Payments: Health and Welfare	Pension	Vacation/ Holiday	Straight-Time Hours	Total Hourly Rate	Overtime Hourly Rate: Daily 1½X	Saturday 1½X	Sunday/ Holiday 1½X
## Pole Restoration Journeyman	$22.09	4.75	[a] 0.60	0.59	8	28.69	40.065	40.065	40.065
After 1 year	$22.09	4.75	[a] 0.60	1.01	8	29.11	40.485	40.485	40.485
After 3 years	$22.09	4.75	[a] 0.60	1.44	8	29.54	40.915	40.915	40.915
After 6 years	$22.09	4.75	[a] 0.60	1.86	8	29.96	41.335	41.335	41.335
## Senior Technician [c]	14.49	4.75	[a] 0.60	0.39	8	20.66	28.12	28.12	28.12
After 1 year	14.49	4.75	[a] 0.60	0.67	8	20.94	28.40	28.40	28.40
After 3 years	14.49	4.75	[a] 0.60	0.95	8	21.22	28.68	28.68	28.68
After 6 years	14.49	4.75	[a] 0.60	1.23	8	21.50	28.96	28.96	28.96
## Pole Treatment Journeyman	19.44	4.75	[a] 0.60	0.52	8	25.89	35.90	35.90	35.90
After 1 year	19.44	4.75	[a] 0.60	0.89	8	26.26	36.27	36.27	36.27
After 3 years	19.44	4.75	[a] 0.60	1.27	8	26.64	36.65	36.65	36.65
After 6 years	19.44	4.75	[a] 0.60	1.64	8	27.01	37.02	37.02	37.02
## Pole Restoration and Treatment[c] Technician (First 6 months)	10.73	4.75	[a] 0.60	0.29	8	16.69	22.215	22.215	22.215
Technician (6-12 months)	11.06	4.75	[a] 0.60	0.30	8	17.04	22.735	22.735	22.735
Technician (Thereafter)	11.40	4.75	[a] 0.60	0.53	8	17.62	23.49	23.49	23.49

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

Indicates a non-apprenticeable craft.

[a] In addition, an amount equal to 3% of the Basic Hourly Rate is added to the Total Hourly Rate and overtime hourly rates for the National Employees Benefit Board.

[b] This amount is factored at the applicable overtime rate.

[c] The Ratio of Technicians to Journeymen may not exceed 4 to 1. However, if the Journeyman is assisted by a maximum of two Senior Technicians, three additional Technicians may be added per Senior Technician.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773, AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: TELECOMMUNICATIONS TECHNICIAN

DETERMINATION: C-422-X-1-2003-2
ISSUE DATE: August 22, 2003
EXPIRATION DATE OF DETERMINATION: June 1, 2004* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics & Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.

LOCALITY: All localities within Alameda, Los Angeles, San Francisco, San Mateo, and Santa Clara Counties.

		Employer Payments				Straight-Time		Overtime Hourly Rate	
Classification (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension	Vacation and Holidays	Training	Hours	Total Hourly Rate	1 1/2X[a]	Holiday 2 1/2X
Telecommunications Technician	28.50	2.79	0.93	3.28	-	8	35.50	49.75	78.25

[a] Rate applies to work in excess of eight hours daily and for all hours over 40. Rate applies to all hours worked on Sunday.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773, AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: TELECOMMUNICATIONS TECHNICIAN

DETERMINATION: C-422-X-1-2003-2A
ISSUE DATE: August 22, 2003
EXPIRATION DATE OF DETERMINATION: June 1, 2004* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics & Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.

LOCALITY: All localities within Contra Costa, Marin, Orange, and San Diego counties.

		Employer Payments				Straight-Time		Overtime Hourly Rate	
Classification (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension	Vacation and Holidays	Training	Hours	Total Hourly Rate	1 1/2X[a]	Holiday 2 1/2X
Telecommunications Technician	27.93	2.79	0.93	3.21	-	8	34.86	48.825	76.755

[a] Rate applies to work in excess of eight hours daily and for all hours over 40. Rate applies to all hours worked on Sunday .

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773, AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: TELECOMMUNICATIONS TECHNICIAN

DETERMINATION: C-422-X-1-2003-2B
ISSUE DATE: August 22, 2003
EXPIRATION DATE OF DETERMINATION: June 1, 2004* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics & Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.

LOCALITY: All localities within the Alpine, Amador, Butte, Calaveras, Colusa, El Dorado, Fresno, Glenn, Humboldt, Imperial, Kern, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Riverside, Sacramento, San Benito, San Joaquin, San Luis Obispo, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Ventura, Yolo and Yuba counties.

		Employer Payments				Straight-Time		Overtime Hourly Rate	
Classification (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension	Vacation and Holidays	Training	Hours	Total Hourly Rate	1 1/2X[a]	Holiday 2 1/2X
Telecommunications Technician	27.18	2.79	0.93	3.13	-	8	34.03	47.62	74.80

[a] Rate applies to work in excess of eight hours daily and for all hours over 40. Rate applies to all hours worked on Sunday.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773, AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: TELEPHONE INSTALLATION WORKER AND RELATED CLASSIFICATIONS

DETERMINATION: C-422-X-10-2001-1
ISSUE DATE: August 22, 2001
EXPIRATION DATE OF DETERMINATION: October 1, 2001* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.

LOCALITY: All localities within Del Norte, Inyo, Mono and San Bernardino, and Santa Barbara Counties.

			Employer Payments				Straight-Time		Overtime Hourly Rate	
Classification (Journeyperson)	Step[a]	Basic Hourly Rate	Health and Welfare[e]	Pension	Vacation[b] and Holiday	Training	Hours	Total Hourly Rate	1 1/2X[c]	2X[d]
Telephone Installation Worker	1	$9.97	$0.06	-	$0.84	-	8	$10.87	$15.855	$20.84
	2	10.79	0.06	-	0.91	-	8	11.76	17.155	22.55
	3	11.73	0.07	-	0.99	-	8	12.79	18.655	24.52
	4	12.78	0.07	-	1.08	-	8	13.93	20.32	26.71
	5	14.05	0.08	-	1.19	-	8	15.32	22.345	29.37
	6	15.50	0.09	-	1.31	-	8	16.90	24.65	32.40
	7	17.20	0.10	-	1.46	-	8	18.76	27.36	35.96
	8	19.36	0.11	-	1.64	-	8	21.11	30.79	40.47
	9	22.13	0.13	-	1.87	-	8	24.13	35.195	46.26

[a] The time interval between steps is six months.
[b] Rates apply to the first eight years of employment only: for employment over eight years, $2.30 per hour worked; for employment over fifteen years, $ 2.72 per hour worked; for employment over twenty-five years, $3.15 per hour worked.
[c] Rate applies to work in excess of a regular shift. Rate applies to all hours worked on Sunday, except those hours which exceed 55 hours weekly.
[d] Rate applies to all hours which exceed 55 hours weekly.
[e] Includes an amount for sick leave. Benefit is paid until 270 sick leave workdays are accumulated.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. Travel and/or subsistence requirements for each craft, classification or type of worker may be obtained from the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1
FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: ## TREE TRIMMER (HIGH VOLTAGE LINE CLEARANCE)

DETERMINATION: C-TT-2011-1
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: December 31, 2011* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
LOCALITY: Amador, Calaveras, Fresno, Kings, Sacramento, San Joaquin, Stanislaus, and Tulare Counties (REF: 61-1245-15)

CRAFT/CLASSIFICATION		Basic Hourly Rate	Employer Payments: Health and Welfare	Pension	Vacation	Holiday	Straight-Time: Hours	Total Hourly Rate	Overtime: Daily[a] 1 1/2X	Daily 2X
Climber		21.10	4.75	0.66[b]	0.41[c]	0.57	8	27.49	32.60[aa]	43.47
Groundperson	First 6 months	13.50	4.75	0.42	0.26	0.36	8	19.29	20.86[aa]	27.81
Groundperson	After 6 months	14.47	4.75	0.45[d]	0.28[e]	0.39	8	20.34	22.36[aa]	29.81

DETERMINATION: C-TT-2011-1A
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: December 31, 2011* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
LOCALITY: Kern, Lake, Madera, Mariposa, Merced, and Tuolumne Counties (REF: 61-1245-18)

Climber		21.10	4.75	0.66[f]	0.41[g]	0.57	8	27.49	32.60[aa]	43.47
Groundperson	First 6 months	13.50	4.75	0.42	0.26	0.36	8	19.29	20.86[aa]	27.81
Groundperson	After 6 months	14.47	4.75	0.45[h]	0.28[i]	0.39	8	20.34	22.36[aa]	29.81

DETERMINATION: C-TT-2011-1B
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: December 31, 2011* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
LOCALITY: Butte, Colusa, Sutter, and Yuba Counties (REF: 61-1245-16)

Climber		21.40	4.75	0.67[j]	0.41[k]	0.58	8	27.81	33.06[aa]	44.08
Groundperson	First 6 months	12.13	4.75	0.38	0.23	0.33	8	17.82	18.74[aa]	24.99
Groundperson	After 6 months	14.56	4.75	0.46[l]	0.28[m]	0.39	8	20.44	22.50[aa]	29.99

DETERMINATION: C-TT-2011-1C
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: January 3, 2012* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
LOCALITY: Alpine, El Dorado, Nevada, and Placer Counties (REF: 61-1245-12)

Climber		21.65	4.75	0.68[n]	1.08[o]	-	8	28.16	33.45[aa]	44.60
Groundperson	First 6 months	13.86	4.75	0.44	0.69	-	8	19.74	21.41[aa]	28.55
Groundperson	After 6 months	14.87	4.75	0.47[p]	0.74[q]	-	8	20.83	22.97[aa]	30.63

Footnotes listed on page 2F
(Recognized Holidays and Travel and Subsistence Payment footnotes listed on page 2G-1)

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1
FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: ## TREE TRIMMER (HIGH VOLTAGE LINE CLEARANCE)

DETERMINATION: C-TT-2012-1D
ISSUE DATE: February 22, 2012
EXPIRATION DATE OF DETERMINATION: March 31, 2012* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
LOCALITY: Santa Clara, San Francisco, and San Mateo Counties (REF: 61-1245-18)

CRAFT/CLASSIFICATION		Basic Hourly Rate	Employer Payments: Health and Welfare	Pension	Vacation	Holiday	Straight-Time: Hours	Total Hourly Rate	Overtime: Daily[a] 1 1/2X	Daily 2X
Climber		22.01	4.75	0.69[r]	0.42[s]	0.59	8	28.47	34.01[aa]	45.34
Groundperson	First 6 months	14.12	4.75	0.44	0.27	0.38	8	19.97	21.82[aa]	29.09
Groundperson	After 6 months	15.09	4.75	0.47[t]	0.29[u]	0.41	8	21.01	23.31[aa]	31.09

DETERMINATION: C-TT-2011-1E
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: January 3, 2012* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
LOCALITY: Alameda and Contra Costa Counties (REF: 61-1245-12)

Climber		21.65	4.75	0.68[v]	1.08[w]	-	8	28.16	33.45[aa]	44.60
Groundperson	First 6 months	13.86	4.75	0.44	0.69	-	8	19.74	21.41[aa]	28.55
Groundperson	After 6 months	14.87	4.75	0.47[x]	0.74[y]	-	8	20.83	22.97[aa]	30.63

DETERMINATION: C-TT-2011-1F
ISSUE DATE: February 22, 2011
EXPIRATION DATE OF DETERMINATION: January 3, 2012* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
LOCALITY: Del Norte, Humboldt, Marin, Mendocino, Napa, and Sonoma Counties (REF: 61-1245-12)

Climber		20.96	4.75	0.66[z]	1.05[ab]	-	8	27.42	32.38[aa]	43.18
Groundperson	First 6 months	13.41	4.75	0.42	0.67	-	8	19.25	20.72[aa]	27.62
Groundperson	After 6 months	14.39	4.75	0.45[ac]	0.72[ad]	-	8	20.31	22.23[aa]	29.64

DETERMINATION: C-TT-2011-1G
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: January 3, 2012* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
LOCALITY: Glenn, Lassen, Modoc, Shasta, Siskiyou, Tehama, and Trinity Counties (REF: 61-1245-12)

Climber		21.56	4.75	0.68[ae]	1.08[af]	-	8	28.07	33.31[aa]	44.41
Groundperson	First 6 months	12.22	4.75	0.38	0.61	-	8	17.96	18.88[aa]	25.17
Groundperson	After 6 months	14.99	4.75	0.47[ag]	0.75[ah]	-	8	20.96	23.16[aa]	30.88

Footnotes listed on page 2F
(Recognized Holidays and Travel and Subsistence Payment footnotes listed on page 2G-1)

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1
FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: ## TREE TRIMMER (HIGH VOLTAGE LINE CLEARANCE)

DETERMINATION: C-TT-2011-1H
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: December 31, 2011* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
LOCALITY: Plumas, Sierra, Solano, and Yolo Counties (REF: 61-1245-16)

CRAFT/CLASSIFICATION		Basic Hourly Rate	Employer Payments: Health and Welfare	Pension	Vacation	Holiday	Straight-Time: Hours	Total Hourly Rate	Overtime: Daily[a] 1 1/2X	Daily 2X
Climber		21.48	4.75	0.67[ai]	0.41[aj]	0.58	8	27.89	33.19[aa]	44.25
Groundperson	First 6 months	13.75	4.75	0.43	0.26	0.37	8	19.56	21.24[aa]	28.33
Groundperson	After 6 months	14.75	4.75	0.46[ak]	0.28[al]	0.40	8	20.64	22.79[aa]	30.39

DETERMINATION: C-TT-2012-1I
ISSUE DATE: February 22, 2012
EXPIRATION DATE OF DETERMINATION: March 31, 2012* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
LOCALITY: Monterey, San Benito, San Luis Obispo, and Santa Cruz Counties (REF: 61-1245-12)

Climber		22.53	4.75	0.71[am]	1.13[an]	-	8	29.12	34.81[aa]	46.41
Groundperson	First 6 months	14.47	4.75	0.46	0.72	-	8	20.40	22.36[aa]	29.81
Groundperson	After 6 months	15.49	4.75	0.49[ao]	0.77[ap]	-	8	21.50	23.93[aa]	31.91

[##] Not an apprenticeable craft.
[a] Rate applies to the first 4 daily overtime hours. All other overtime is at the double time rate. A normal non-work day in the same workweek may be worked at straight time if job is shut down during the normal workweek due to inclement weather.
[b] $0.67 after 3 years of service; $0.69 after 10 years.
[c] $0.81 after 3 years of service; $1.22 after 10 years.
[d] $0.46 after 3 years of service; $0.47 after 10 years.
[e] $0.56 after 3 years of service; $0.84 after 10 years.
[f] $0.67 after 3 years of service; $0.69 after 10 years.
[g] $0.81 after 3 years of service; $1.22 after 10 years.
[h] $0.46 after 3 years of service; $0.47 after 10 years.
[i] $0.56 after 3 years of service; $0.84 after 10 years.
[j] $0.68 after 3 years of service; $0.70 after 10 years.
[k] $0.82 after 3 years of service; $1.24 after 10 years.
[l] $0.47 after 3 years of service; $0.47 after 10 years.
[m] $0.56 after 3 years of service; $0.84 after 10 years.
[n] $0.70 after 1 year of service; $0.71 after 9 years.
[o] $1.58 after 1 year of service; $2.09 after 9 years.
[p] $0.48 after 1 year of service; $0.49 after 9 years.
[q] $1.09 after 1 year of service; $1.43 after 9 years.
[r] $0.70 after 3 years of service; $0.72 after 10 years.
[s] $0.85 after 3 years of service; $1.27 after 10 years.
[t] $0.48 after 3 years of service; $0.49 after 10 years.
[u] $0.58 after 3 years of service; $0.87 after 10 years.
[v] $0.70 after 1 year of service; $0.71 after 9 years.
[w] $1.58 after 1 year of service; $2.09 after 9 years.
[x] $0.48 after 1 year of service; $0.49 after 9 years.
[y] $1.09 after 1 year of service; $1.43 after 9 years.
[z] $0.67 after 1 year of service; $0.69 after 9 years.
[aa] Rate also applies to Holidays.
[ab] $1.53 after 1 year of service; $2.02 after 9 years.
[ac] $0.46 after 1 year of service; $0.47 after 9 years.
[ad] $1.05 after 1 year of service; $1.39 after 9 years.
[ae] $0.69 after 1 year of service; $0.71 after 9 years.
[af] $1.57 after 1 year of service; $2.08 after 9 years.
[ag] $0.48 after 1 year of service; $0.49 after 9 years.
[ah] $1.09 after 1 year of service; $1.45 after 9 years.
[ai] $0.69 after 3 years of service; $0.70 after 10 years.
[aj] $0.83 after 3 years of service; $1.24 after 10 years.
[ak] $0.47 after 3 years of service; $0.48 after 10 years.
[al] $0.57 after 3 years of service; $0.85 after 10 years.
[am] $0.73 after 1 year of service; $0.74 after 9 years.
[an] $1.64 after 1 year of service; $2.17 after 9 years.
[ao] $0.50 after 1 year of service; $0.51 after 9 years.
[ap] $1.13 after 1 year of service; $1.49 after 9 years.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1
FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: ##TREE TRIMMER (LINE CLEARANCE)

DETERMINATION: C-TT-61-465-5-2010-1
ISSUE DATE: August 22, 2010
EXPIRATION DATE OF DETERMINATION: September 3, 2011* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.

LOCALITY: All localities within San Diego County.

		Employer Payments				Straight-Time		Overtime	
CRAFT/CLASSIFICATION	Basic Hourly Rate	Health and Welfare	Pension	Vacation and Holiday	Training	Hours	Total Hourly Rate	Daily[aa] 1 1/2X	Daily[bb] 2X
Tree Trimmer									
Trainee (0-18 Months)	16.18	0.89	-	1.06	-	8	18.13	26.22	34.31
1st year Climber	18.26	0.89	-	1.19	-	8	20.34	29.47	38.60
2nd year Climber	20.76	0.89	-	1.76	-	8	23.41	33.79	44.17
Thereafter Climber	23.28	0.89	-	1.97[cc]	-	8	26.14	37.78	49.42
Groundman									
1st year	13.18	0.89	-	0.86	-	8	14.93	21.52	28.11
Thereafter	14.23	0.89	-	1.20[dd]	-	8	16.32	23.435	30.55

DETERMINATION: C-TT-61-465-5A-2012-1
ISSUE DATE: February 22, 2012
EXPIRATION DATE OF DETERMINATION: December 29, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: All localities within Imperial County

Tree Trimmer									
1st year Climber	14.15	1.12	-	0.87	-	8	16.14	23.215	30.29
2nd year Climber	16.82	1.12	-	1.36	-	8	19.30	27.71	36.12
3rd year Climber	18.54	1.12	-	1.50	-	8	21.16	30.43	39.70
Thereafter Climber	19.17	1.12	-	1.55[ee]	-	8	21.84	31.425	41.01
Trimmer Trainee									
Step 1 (0-6 Months)	11.61	1.12	-	0.71	-	8	13.44	19.245	25.05
Step 2 (7-18 Months)	12.14	1.12	-	0.75[kk]	-	8	14.01	20.08	26.15
Groundman	10.86	1.12	-	0.67[ff]	-	8	12.65	18.08	23.51

DETERMINATION: C-TT-61-47-3-2010-1
ISSUE DATE: February 22, 2010
EXPIRATION DATE OF DETERMINATION: January 1, 2011* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.

LOCALITY: All localities within Inyo, Los Angeles, Mono, Orange, Riverside, San Bernardino, Santa Barbara, and Ventura Counties.

Tree Trimmer	Step 1[gg]	11.85	3.59	0.18	0.55	-	8	16.17	22.10[hh]	28.02
	Step 2	12.10	3.59	0.18	0.56	-	8	16.43	22.48[hh]	28.53
	Step 3	12.88	3.59	0.19	0.59	-	8	17.25	23.69[hh]	30.13
	Step 4	13.39	3.59	0.20	0.62	-	8	17.80	24.50[hh]	31.19
	Step 5	14.00	3.59	0.21	0.65[ii]	-	8	18.45	25.45[hh]	32.45
Tree Trimmer Trainee										
Step 1 (0-6 Months)		10.75	3.59	0.16	0.50	-	8	15.00	20.38[hh]	25.75
Step 2 (7-18 Months)		11.50	3.59	0.17	0.53	-	8	15.79	21.54[hh]	27.29
Groundman		10.35	3.59	0.16	0.48[jj]	-	8	14.58	19.75[hh]	24.93

Footnotes listed on page 2G-1
(Recognized Holidays and Travel and Subsistence Payment footnotes listed on page 2G-1)

Not an apprenticeable craft.

[aa] Rates apply to work in excess of 40 hours in a week, 8 hours in a day, and any time on a non-work day or holiday. A normal non-work day in the same workweek may be worked at the straight time if job was shut down during the normal workweek due to inclement weather.

[bb] Rates apply to work in excess of 12 hours in a day.

[cc] $2.42 after 7 years of service at this level.

[dd] $1.48 after 8 years at this level.

[ee] $1.92 after 6 years of service at this level.

[ff] $0.88 after 1 year at this level; $1.09 after 8 years at this level.

[gg] 12 months per step.

[hh] Rates apply to the first 4 daily overtime hours and the first 12 hours on any non-work day. All other overtime is at the double time rate. A normal non-work day in the same workweek may be worked at the straight-time if job was shut down during the normal workweek due to inclement weather.

[ii] $1.18 after 9 years of service

[jj] $0.68 after 1 year of service; $0.88 after 9 years of service.

[kk] $0.98 after 1 year at this level; $1.21 after 7 years at this level.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773, AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: # STATOR REWINDER

DETERMINATION: C-738-1412-7-2008-1
ISSUE DATE: August 22, 2008
EXPIRATION DATE OF DETERMINATION: September 30, 2008* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.

LOCALITY: All localities within the State of California.

		Employer Payments					Straight-Time		Overtime Hourly Rate			
CLASSIFICATION (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension	Vacation	Holiday	Training	Hours	Total[e] Hourly Rate	Daily[be] 1 1/2X	Saturday[e] 1 1/2X	Sunday[e] 2X	Holiday[e] 2 1/2X
Stator Rewinder	$15.20	[a]1.36	[a]2.18	[ac].29	.58	[a].29	8	19.90	29.56	29.56	39.22	48.88
Stator Rewinder Helper (First 6 Months)	11.74	[a]1.05	[a]1.69	[a].23	.45	[a].23	8	15.39	22.86	22.86	30.33	37.80
Stator Rewinder Helper (After 6 Months)	11.95	[a]1.07	[a]1.72	[ad].23	.46	[a].23	8	15.66	23.26	23.26	30.86	38.46

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] Contributions are factored at the appropriate overtime multiplier.

[b] Rate applies to the first 4 daily overtime hours and the first 12 hours on Saturday. After 12 hours daily, the Sunday double-time rate applies.

[c] Rate applies to the first two years of employment only: for employment over two years, $.58 per hour worked; for employment over five years, $.73 per hour worked; for employment over seven years, $.88 per hour worked; for employment over fifteen years, $1.17 per hour worked; for employment over twenty years, $1.46 per hour worked; for employment over thirty years, $1.75 per hour worked.

[d] Rates apply to the first two years of employment only: for employment over two years, $.46 per hour worked; for employment over five years, $.57 per hour worked; for employment over seven years, $.69 per hour worked; for employment over fifteen years, $.92 per hour worked; for employment over twenty years, $1.15 per hour worked; for employment over thirty years, $1.38 per hour worked.

[e] Does not include any additional amount that may be required for vacation pay.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: # ELECTRICAL UTILITY LINEMAN

DETERMINATION: C-61-X-8-2008-1
ISSUE DATE: August 22, 2008
EXPIRATION DATE OF DETERMINATION: September 30, 2008* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after ten days from the expiration date if no subsequent determination is issued.
LOCALITY: All localities within Del Norte, Modoc and Siskiyou counties.

		Employer Payments				Straight-Time		Overtime Hourly Rate		
CLASSIFICATION (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension	Training	Other Payments	Hours	Total Hourly Rate	Daily 1 1/2X	Saturday 1 1/2X	Sunday and Holiday 2X
Lineman, Heavy Line Equipment man, Certified Lineman Welder, Pole Sprayer	$36.13	4.75	[a]5.60	[b]0.32	[c]0.10	8	47.98	[d]66.79	[e]66.79	85.60
Cable Splicer	40.47	4.75	[a]5.60	[b]0.35	[c]0.11	8	52.49	[d]73.565	[e]73.565	94.64
Line Equipment Man	31.07	4.75	[a]3.85	[b]0.27	[c]0.09	8	40.96	[d]57.145	[e]57.145	73.305
Powderman, Jackhammer Man	27.10	4.75	[a]3.85	[b]0.24	[c]0.08	8	36.83	[d]50.94	[e]50.94	65.05
Groundman	25.29	4.75	[a]3.85	[b]0.22	[c]0.07	8	34.94	[d]48.11	[e]48.11	61.28
Pole Sprayer Trainee										
First six months	30.96	4.75	[a]3.85	[b]0.27	[c]0.09	8	40.85	[d]56.97	[e]56.97	73.085
Second six months	32.44	4.75	[a]3.85	[b]0.28	[c]0.09	8	42.38	[d]59.28	[e]59.28	76.17
Third six months	33.53	4.75	[a]3.85	[b]0.29	[c]0.09	8	43.52	[d]60.985	[e]60.985	78.44

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] In addition, an amount equal to 3% of the Basic Hourly Rate is added to the total hourly rate and overtime hourly rate for the National Employees Benefit Board.

[b] This amount is factored at the applicable overtime rate.

[c] This amount includes $0.01 for the National Labor-Management Cooperation Committee, and the remainder of the amount is for the Administrative Maintenance Fund. This amount (AMF) is factored at the applicable overtime rate

[d] Applies to the first 2 hours of overtime on a regular workday. All hours in excess of 10 hours will be paid at the double time rate.

[e] Applies to the first 8 hours on Saturday. All hours in excess of 8 hours on Saturday will be paid the Sunday and Holiday double time rate.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

 # METAL ROOFING SYSTEMS INSTALLER

Determination: C-MR-2011-1
Issue Date: August 22, 2011
Expiration date of determination: July 31, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.
Localities: All localities within Alameda, Contra Costa, Mendocino, and Solano Counties. (REF: 232-81-1)

		Employer Payments					Straight-Time		Overtime Hourly Rate		
Classification	Basic Hourly Rate	Health and Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Saturday (1½ X)	Sunday/ Holiday (2 X)
# Metal Roofing Systems Installer	$30.06	$7.00	$3.85	$3.10	$0.45	$0.35	8.0[a]	$44.81	$59.84[(b)]	$59.84[(b)]	$74.87

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.
[a] Saturdays in the same workweek may be worked at straight-time if job is shut down during the normal workweek due to inclement weather.
[b] Rate applies to the first 4 daily overtime hours and first 12 hours worked on Saturday; all other time is paid at the Sunday/Holiday overtime hourly rate.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

METAL ROOFING SYSTEMS INSTALLER

Determination: C-MR-2008-1A
Issue Date: August 22, 2008
Expiration date of determination: September 30, 2008* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Amador, El Dorado, Placer, and Yuba Counties. (REF: 830-232-15)

		Employer Payments[a]					Straight-Time		Overtime Hourly Rate		
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Saturday (1½ X)	Sunday/ Holiday (2 X)
Amador County:											
# Metal Roofing Systems Installer	$20.41	$5.79	$2.80	$3.74	$0.20	$0.05	8.0	$32.99	$43.19	$43.19[b]	$53.40
El Dorado County:											
# Metal Roofing Systems Installer	$18.81	$5.35	$2.80	$3.48	$0.20	-	8.0	$30.64	$40.045	$40.045[b]	$49.45
Placer and Yuba Counties											
# Metal Roofing Systems Installer	$21.11	$5.79	$3.00	$3.74	$0.20	$0.05	8.0	$33.89	$44.44	$44.44[b]	$55.00

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] The credit for employer payments do not have to be computed on an annualized basis where the employer seeks credit for employer payments that are higher for public works projects than private construction performed by the same employer. The director determined that annualization would not serve the purpose of this chapter pursuant to California Labor Code Section 1773.1(d)(4).

[b] Saturdays in the same workweek may be worked at straight-time if job is shut down for 2 or more days during the normal workweek due to wind, rain, snow or ice, fog, frost, dew or extreme heat.

* There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

METAL ROOFING SYSTEMS INSTALLER

Determination: C-MR-2008-1B
Issue Date: August 22, 2008
Expiration date of determination: September 30, 2008* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Butte and Lassen Counties. (REF: 830-232-16)

		Employer Payments					Straight-Time		Overtime Hourly Rate		
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Saturday (1½ X)	Sunday/ Holiday (1½ X)
# Metal Roofing Systems Installer	$24.74	-	$8.00	-	$0.25	-	8.0	$32.99	$45.36[a]	$45.36[a]	$45.36[a]

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.
[a] Rate applies to all hours work in excess of 8 hours per day and 40 hours during any one week.
* There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

METAL ROOFING SYSTEMS INSTALLER

Determination: C-MR-2008-1C
Issue Date: August 22, 2008
Expiration date of determination: September 30, 2008* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Calaveras County. (REF: 830-166-4)

		Employer Payments[a]					Straight-Time		Overtime Hourly Rate		
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Saturday (1½ X)	Sunday/ Holiday (2 X)
# Metal Roofing Systems Installer	$47.59[b]	-	-	-	$0.45	-	8.0	$48.04	$71.835[c]	$71.835[c]	$71.835[c]

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] The credit for employer payments do not have to be computed on an annualized basis where the employer seeks credit for employer payments that are higher for public works projects than private construction performed by the same employer. The director determined that annualization would not serve the purpose of this chapter pursuant to California Labor Code Section 1773.1(d)(4).

[b] Includes an amount for Health and Welfare, Pension, Vacation/Holiday, Dues Check Off, and Other Payments.

[c] Rate applies to all hours work in excess of 8 hours per day and 40 hours during any one week.

* There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

METAL ROOFING SYSTEMS INSTALLER

Determination: C-MR-2008-1D
Issue Date: August 22, 2008
Expiration date of determination: September 30, 2008* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Fresno, Marin, Sacramento, San Joaquin, Sonoma, and Yolo Counties. (REF: 830-232-18)

		Employer Payments					Straight-Time		Overtime Hourly Rate		
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Saturday (1½ X)	Sunday/ Holiday (2 X)
Fresno County:											
# Metal Roofing Systems Installer	$23.05	$3.60	$3.60	[a]	$0.10	-	8.0	$30.35	$41.875	$41.875	$53.40
Marin and Sonoma Counties:											
# Metal Roofing Systems Installer	$24.65	$5.79	$3.00	$3.11	$0.20	$0.25	8.0[b]	$37.00	$49.325	$49.325	$61.65
Sacramento and Yolo Counties:											
# Metal Roofing Systems Installer	$21.11	$5.79	$3.00	$3.74	$0.20	$0.05	8.0	$33.89	$44.44	$44.44[c]	$55.00
San Joaquin County:											
# Metal Roofing Systems Installer	$18.81	$5.35	$2.80	$3.48	$0.20	-	8.0	$30.64	$40.045	$40.045[c]	$49.45

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.
[a] Included in straight-time hourly rate.
[b] Saturdays in the same workweek may be worked at straight-time if job is shut down during the normal workweek due to inclement weather.
[c] Saturdays in the same workweek may be worked at straight-time if job is shut down for 2 or more days during the normal workweek due to wind, rain, snow or ice, fog, frost, dew or extreme heat.
* There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

METAL ROOFING SYSTEMS INSTALLER

Determination: C-MR-2008-1E
Issue Date: August 22, 2008
Expiration date of determination: September 30, 2008* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Humboldt, Madera, Napa, and Shasta Counties. (REF: 830-232-17)

		Employer Payments					Straight-Time		Overtime Hourly Rate		
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Saturday (1½ X)	Sunday/ Holiday (1½ X)
Humboldt County:											
## Metal Roofing Systems Installer	$16.00	-	-	-	-	$2.00	8.0	$18.00	$26.00[a]	$26.00[a]	$26.00[a]
Madera County:											
# Metal Roofing Systems Installer	$26.75	$2.00	$2.00	-	$0.15	-	8.0	$30.90	$44.275[a]	$44.275[a]	$44.275[a]
Napa County:											
## Metal Roofing Systems Installer	$18.00	-	-	$0.35	-	-	8.0	$18.35	$27.35[a]	$27.35[a]	$27.35[a]
Shasta County:											
## Metal Roofing Systems Installer	$19.83	-	-	-	$0.20	-	8.0	$20.03	$29.945[a]	$29.945[a]	$29.945[a]

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.
Rates for apprentices are not available in the General Prevailing Wage Apprentice Schedule.
[a] Rate applies to all hours work in excess of 8 hours per day and 40 hours during any one week.
* There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

METAL ROOFING SYSTEMS INSTALLER

Determination: C-MR-2012-1F
Issue Date: February 22, 2012
Expiration date of determination: June 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

Localities: All localities within Los Angeles, Orange, Riverside and San Bernardino Counties. (REF: 166-102-1)

		Employer Payments					Straight-Time		Overtime Hourly Rate		
Classification	Basic Hourly Rate	Health and Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily[b] (1½ X)	Saturday[b] (1½ X)	Sunday/ Holiday (2 X)
# Metal Roofing Systems Installer	$41.55[a]	$7.87	$10.50	-	$1.12	$0.47	8.0	$61.51	$82.28	$82.28	$103.06

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] Includes amount withheld for Working Dues.

[b] Rate applies for the first 4 overtime hours Monday through Friday and the first 12 hours worked on Saturday. All other time is paid at the Sunday/Holiday overtime rate. Saturdays in the same workweek may be worked at straight-time if job is shut down during the normal workweek due to inclement weather.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

METAL ROOFING SYSTEMS INSTALLER

Determination: C-MR-2012-1G
Issue Date: February 22, 2012
Expiration date of determination: June 30, 2012* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after ten days after the expiration date if no subsequent determination is issued.
Localities: All localities within Monterey County. (REF: 166-104-10)

		Employer Payments					Straight-Time		Overtime Hourly Rate		
Classification	Basic Hourly Rate	Health and Welfare	Pension	Vacation and Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Saturday (1½ X)	Sunday/ Holiday (2 X)
# Metal Roofing Systems Installer	$38.00	$12.43	$14.15[b]	c	$1.66	$0.42	8.0	$66.66	$86.60[d]	$86.60[d]	$106.54

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] Includes amount withheld for Dues Check Off.

[b] An amount equal to 3% of wages and employee benefits (excluding training) is added for National SASMI Fund (Wage Stabilization Plan). This amount is factored into overtime hourly rate.

[c] Included in Straight-Time hourly rate.

[d] Rate applies to the first 2 daily overtime hours and the first 8 hours on Saturday only; All other time is paid at the Sunday and Holiday overtime hourly rate.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

METAL ROOFING SYSTEMS INSTALLER

Determination: C-MR-2011-2I
Issue Date: August 22, 2011
Expiration date of determination: June 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

Localities: All localities within San Diego County. (REF: 166-206-1)

		Employer Payments					Straight-Time		Overtime Hourly Rate		
Classification	Basic Hourly Rate	Health and Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Saturday (1½ X)	Sunday/ Holiday (2 X)
# Metal Roofing Systems Installer	$33.55[a]	$7.87[b]	$10.09[c]	-	$0.73[d]	$0.49[e]	8.0[f]	$52.73	$69.50[g]	$69.50[g]	$86.28[g]

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.
[a] Includes amount withheld for Working Dues.
[b] Includes an amount for the Sheet Metal Occupational Health Institute Trust.
[c] Includes amount for 401K Plan.
[d] Includes an amount for International Training Institute.
[e] Includes amounts for National Energy Management Institute (NEMI) Fund, Sheet Metal Workers' International Scholarship Fund (SMWSF) and Industry Fund.
[f] Saturdays in the same work week may be worked at straight-time if job is shut down during the normal workweek due to inclement weather.
[g] Rate applies to the first 2 Daily overtime hours and the first 10 hours on Saturday; All other time is paid at the Sunday and Holiday overtime rate.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

METAL ROOFING SYSTEMS INSTALLER

Determination: C-MR-2012-1J
Issue Date: February 22, 2012
Expiration date of determination: June 30, 2013* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for new rates after 10 days from the expiration date, if no subsequent determination is issued.

Localities: All localities within San Francisco, San Mateo and Santa Clara Counties. (REF: 166-104-1)

		Employer Payments					Straight-Time		Overtime Hourly Rate		
Classification	Basic Hourly Rate	Health and Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Saturday (1½ X)	Sunday/ Holiday (2 X)
# Metal Roofing Systems Installer	$48.85[a]	$12.61	$17.32	[b]	$1.21	$1.15	8.0[c]	$81.14	$105.56[d]	$105.56[d]	$129.99

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] Includes amount for Vacation/Holiday and Dues Check Off.

[b] Included in Straight-Time Hourly Rate.

[c] For San Francisco County, the Straight-Time Hours is 7 hours.

[d] For San Francisco County: Rate applies to the first 2 daily overtime hours and the first 7 hours on Saturday only. All other time is paid at the Sunday and Holiday overtime hourly rate.
For San Mateo and Santa Clara Counties: Rate applies to the first 2 daily overtime hours and the first 8 hours on Saturday only. All other time is paid at the Sunday and Holiday overtime hourly rate.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

METAL ROOFING SYSTEMS INSTALLER

Determination: C-MR-2011-2K
Issue Date: August 22, 2011
Expiration date of determination: June 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.
Localities: All localities within Santa Barbara County. (REF: 20-X-1)

		Employer Payments					Straight-Time		Overtime Hourly Rate		
Classification	Basic Hourly Rate	Health and Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Saturday (1½ X)	Sunday/ Holiday (2 X)
# Metal Roofing Systems Installer	$33.00	$7.88	$7.96	$3.92[a]	$0.72	$4.255	8.0	$57.735	$74.235	$74.235[b]	$90.735

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.
[a] Includes supplemental dues.
[b] Rate applies to the first 2 daily overtime hours and the first 8 hours on Saturday. All other time is at the Sunday/Holiday rate.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

METAL ROOFING SYSTEMS INSTALLER

Determination: C-MR-2011-2L
Issue Date: August 22, 2011
Expiration date of determination: June 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.
Localities: All localities within Siskiyou County. (REF: 23-31-1)

		Employer Payments					Straight-Time		Overtime Hourly Rate				
Classification	Basic Hourly Rate	Health and Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Daily (2 X)	Saturday[e] (1½ X)	Saturday[e] (2X)	Sunday/ Holiday (2 X)
# Metal Roofing Systems Installer	$30.27	$9.70[a]	$8.40	$3.96[b]	$0.63	$2.29[c]	8.0	$55.25	$70.385[d]	$85.52	$70.385[f]	$85.52	$85.52[g]

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html

[a] Includes an amount for UBC Health & Safety Fund and National Apprenticeship Fund.

[b] Includes an amount per hour worked for Work Fees. The vacation amount is $2.40 per hour worked.

[c] Includes amounts for Annuity Trust Fund, Industry Advancement, and Work Preservation.

[d] For building construction, rate applies to the first 4 hours daily overtime. All heavy, highway and engineering construction overtime worked, Monday through Friday, rate applies to the first 4 hours daily overtime.

[e] Saturdays in the same work week may be worked at straight-time if job is shut down during the normal work week due to inclement weather or major mechanical breakdown.

[f] Rate applies to the first 8 hours for building construction and for the first 10 hours worked on heavy, highway and engineering construction.

[g] Time and one-half shall be paid for the first eight (8) hours worked on the four (4) days of each year selected by the Union as designated off/holidays listed in the Holiday Provision.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

METAL ROOFING SYSTEMS INSTALLER

Determination: C-MR-2008-1M
Issue Date: August 22, 2008
Expiration date of determination: September 30, 2008* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Stanislaus County. (REF: 830-166-5)

		Employer Payments [a]					Straight-Time		Overtime Hourly Rate		
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Saturday (1½ X)	Sunday/ Holiday (2 X)
# Metal Roofing Systems Installer	$32.84[b]	$7.43	$7.22	[c]	$0.45	$0.10	8.0	$48.04	$64.46[d]	$64.46[d]	$80.88

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] The credit for employer payments do not have to be computed on an annualized basis where the employer seeks credit for employer payments that are higher for public works projects than private construction performed by the same employer. The director determined that annualization would not serve the purpose of this chapter pursuant to California Labor Code Section 1773.1(d)(4).

[b] Includes amount for Vacation/Holiday and Dues Check Off.

[c] Included in straight-time hourly rate.

[d] Rate applies to the first 2 daily overtime hours and the first 8 hours on Saturday only; All other time is paid at the Sunday and Holiday overtime hourly rate.

* There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

METAL ROOFING SYSTEMS INSTALLER

Determination: C-MR-2010-1N
Issue Date: February 22, 2010
Expiration date of determination: August 31, 2010* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Tulare County. (REF: 232-27-1)

		Employer Payments					Straight-Time		Overtime Hourly Rate		
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Saturday (1½ X)	Sunday/ Holiday (2 X)
# Metal Roofing Systems Installer	$27.65[a]	$3.75	$4.15	[b]	$0.15	-	8.0	$35.70	$49.52	$49.52	$63.35

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.
[a] Includes amount for Vacation/Holiday and Dues Check Off.
[b] Included in Straight-Time hourly rate.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

METAL ROOFING SYSTEMS INSTALLER

Determination: C-MR-2008-1O
Issue Date: August 22, 2008
Expiration date of determination: September 30, 2008* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Ventura County. (REF: 830-166-6)

		Employer Payments					Straight-Time		Overtime Hourly Rate		
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Saturday (1½ X)	Sunday/ Holiday (2 X)
# Metal Roofing Systems Installer	$30.29[a]	$6.60	$5.75[b]	[c]	$0.80	$0.54	8.0	$43.98	$59.13[d]	$59.13[d]	$74.27[e]

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.
[a] Includes amount withheld for Dues Check Off.
[b] Includes an amount per hour for COLA Fund.
[c] Included in straight-time hourly rate.
[d] Rate applies to the first 4 overtime hours Monday through Friday and the first 8 hours on Saturday & Sunday. All other overtime is paid at the Double time and Holiday rate.
[e] Rate applies after 4 overtime hours Monday through Friday, after 8 hours Saturday and Sunday and all hours worked on Holidays.
* There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-MT-261-X-265-2011-1
Issue Date: August 22, 2011
Expiration date of determination: July 31, 2012* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.

Localities: All localities within Alameda, Contra Costa, Marin, Napa, Solano and Sonoma Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate		
Classification	Basic Hourly Rate	Health and Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Saturday (1½ X)	Sunday/ Holiday (2 X)
Ready Mix Driver	$25.65	$8.41	$5.75	$2.25	-	-	8.0	$42.06	$54.89	$54.89	$67.71

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-MT-830-261-5-2009-1
Issue Date: February 22, 2009
Expiration date of determination: March 3, 2010* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Alpine, Amador, Calaveras, San Joaquin and Tuolumne Counties

		Employer Payments					Straight-Time		Overtime Hourly Rate	
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Sunday/ Holiday (1½ X)
Driver: Mixer Truck	$20.10	$3.09[a]	-	$1.005[b]	-	-	8.0	$24.195	$34.245[c]	$34.245

[a] The contribution applies to all hours until $535.26 is paid for the month.
[b] $1.39 after 3 years of service
$1.78 after 10 years of service
$2.16 after 20 years of service
[c] Rate applies to work in excess of eight (8) hours daily and forty (40) hours weekly.
* There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-MT-261-150-53-2009-2
Issue Date: August 22, 2009
Expiration date of determination: June 30, 2010* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Butte, Colusa, El Dorado, Placer, Sacramento, Sutter, Yolo and Yuba Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate		
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Saturday (1½ X)	Sunday/ Holiday (2 X)
Driver: Mixer Truck	$26.50	$6.89[a]	$8.97[b]	[c]	-	-	8.0	$42.36	$55.61	$55.61	$68.86

[a] Health and Welfare is applicable for workers who have worked at least eighty (80) hours in the previous calendar month. Contribution applies to all work until $1195 is paid for the month.
[b] An amount ($4.66) shall be paid for all hours worked up to 173 hours per month.
[c] $0.92 after 30 days of service with the employer
$1.43 after 1 year of service with the employer
$1.94 after 2 years of service with the employer
$2.45 after 5 years of service with the employer
$2.96 after 15 years of service with the employer
$3.47 after 25 years of service with the employer

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-MT-261-624-17-2009-1
Issue Date: February 22, 2009
Expiration date of determination: March 3, 2010* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Del Norte, Humboldt and Mendocino Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate	
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Sunday/ Holiday (1½ X)
Driver: Mixer Truck	$22.50	$4.81[a]	$5.60	$2.00	-	-	8.0	$34.91	$46.16[b]	$46.16

[a] The contribution applies to all hours until $833.00 is paid for the month.
[b] Rate applies to work in excess of eight (8) hours daily and forty (40) hours weekly.
* There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-MT-830-261-4-2009-1
Issue Date: February 22, 2009
Expiration date of determination: March 3, 2010* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for new rates after 10 days from expiration date, if no subsequent determination is issued.
Localities: All localities within Fresno, Madera, Mariposa, Merced and Stanislaus Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate	
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Sunday/ Holiday (1½ X)
Driver: Mixer Truck	$18.50	$5.44[a]	-	$0.71[b]	-	-	8.0	$24.65	$33.90[c]	$33.90

[a] The contribution applies to all hours until $943.38 is paid for the month.
[b] $1.42 after 1 year of service for the employer
$1.78 after 5 years of service for the employer
$2.13 after 15 years of service for the employer
[c] Rate applies to work in excess of eight (8) hours daily and forty (40) hours weekly.
* There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-MT-830-261-2-2009-1
Issue Date: February 22, 2009
Expiration date of determination: March 3, 2010* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Glenn, Lassen, Modoc, Plumas, Shasta, Siskiyou, Tehama, and Trinity Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate	
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Sunday/ Holiday (1½ X)
Driver: Mixer Truck	$14.80	$3.46[a]	-	$0.68[b]	-	-	8.0	$18.94	$26.34[c]	$26.34

[a] The contribution applies to all hours until $600 is paid for the month.
[b] $0.97 after 2 years of service
[c] Rate applies to work in excess of eight (8) hours daily and forty (40) hours weekly.
* There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-MT-261-36-95-2010-1
Issue Date: February 22, 2010
Expiration date of determination: August 28, 2010* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Imperial and San Diego Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate	
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Sunday/ Holiday (2 X)
Mixer Driver	$25.05	$4.75[a]	$3.10	$1.25[b]	-	-	8.0	$34.15	$46.68[c]	$59.20

[a]The contribution applies to all hours until $823.00 is paid for the month.
[b]$1.73 after one year of service
$2.22 after 7 years of service.
$2.70 after 14 years of service.
[c]Rate applies to work in excess of eight (8) hours daily and forty (40) hours weekly. All work in excess of 12 hours daily shall be paid the Sunday/Holiday (2X) rate.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-MT-830-261-12-2009-1
Issue Date: February 22, 2009
Expiration date of determination: March 3, 2010* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Inyo, Mono and San Bernardino Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate	
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Sunday/ Holiday (1½ X)
Driver: Mixer Truck	$19.05	$6.66[a]	$1.71	$1.17[b]	-	-	8.0	$28.59	$38.115[c]	$38.115

[a] The contribution applies to all hours until $1155.24 is paid for the month.
[b] $1.54 after 7 years of service
$1.91 after 14 years of service
[c] Rate applies to work in excess of eight (8) hours daily and forty (40) hours weekly.
* There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-MT-261-87-119-2011-1
Issue Date: February 22, 2011
Expiration date of determination: January 15, 2012* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Kern, Kings and Tulare Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate		
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Saturday/ Holiday (1½ X)	Sunday (2 X)
Driver: Mixer Truck	$20.11	$4.89[a]	$3.05	$0.70[b]	-	-	8.0	$28.75	$38.11[c]	$38.11[c]	$48.16

[a] The contribution applies to all hours until $847.50 is paid for the month.
[b] Applies to workers who have been on payroll for thirty (30) days. After 1 year of employment, Vacation and Holiday increases to $1.08. After 2 years of employment, Vacation and Holiday increases to $1.47. After 8 years of employment, Vacation and Holiday increases to $1.86.
[c] Overtime is paid at two times (2x) the basic hourly rate for work performed in excess of twelve (12) hours in any work day.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-MT-261-624-18-2009-1
Issue Date: February 22, 2009
Expiration date of determination: March 3, 2010* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for new rates after 10 days from expiration date, if no subsequent determination is issued.
Localities: All localities within Lake County.

		Employer Payments					Straight-Time		Overtime Hourly Rate	
Classification	Basic Hourly Rate	Health And Welfare[a]	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily/ Holiday[b] (1½ X)	Sunday (2X)
Driver: Mixer Truck	$20.60	$4.81	$6.00	$2.00	-	-	8.0	$33.41	$43.71	$54.01

[a] The contribution applies to all hours until $833.00 is paid for the month.
[b] Rate applies to work in excess of eight (8) hours daily, forty (40) hours weekly and all hours worked on holidays.
* There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-MT-261-X-258-2009-2
Issue Date: August 22, 2009
Expiration date of determination: June 30, 2010* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Los Angeles, Orange and Ventura Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate		
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday[d]	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Saturday/ Holiday (1½ X)	Sunday[e] (2 X)
Ready Mix Driver[a]	$21.25	$4.60[b]	$3.44	$0.41[c]	-	-	8.0	$29.70	$40.33	$40.33	$50.95

[a] New hires will be subject to employment at hourly rates that are four dollars ($4.00) less, three dollars ($3.00) less, two dollars ($2.00) less, and one dollar ($1.00) less than the straight time hourly rate for time periods of twelve (12) months each until they reach the Journeyman basic hourly rate.
[b] The contribution applies to all hours until $796.50 is paid for the month.
[c] $0.98 after 4 months of service
$1.39 after 1 year of service
$1.80 after 7 years of service
$2.21 after 14 years of service
[d] Includes $0.57 for Holidays after four (4) months, which would be deducted from the Vacation/Holiday rate if you choose to adopt the paid days off enumerated in the Holiday Provisions.
[e] Emergency work and breakdown on Sundays shall be paid at time and one-half (1½x) the straight time rate.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-MT-830-261-3-2009-1
Issue Date: February 22, 2009
Expiration date of determination: March 3, 2010* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Monterey, San Benito, San Francisco, San Mateo, Santa Clara, and Santa Cruz Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate	
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Sunday/ Holiday (1½ X)
Driver: Mixer Truck	$21.50	$9.64	$1.72[a]	$0.99[b]	-	-	8.0	$33.85	$45.46[c]	$45.46

[a] This amount is factored at the applicable overtime rate.
[b] $1.41 after 2 years of service
$1.82 after 10 years of service
$2.23 after 20 years of service
[c] Rate applies to work in excess of eight (8) hours daily and forty (40) hours weekly.
* There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-MT-830-261-1-2009-1
Issue Date: February 22, 2009
Expiration date of determination: March 3, 2010* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Nevada and Sierra Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate	
Classification	Basic Hourly Rate	Health And Welfare[a]	Pension	Vacation And Holiday[b]	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)[c]	Sunday/ Holiday (1½ X)
Driver: Mixer Truck	$19.25	$2.96	-	$0.22	-	-	8.0	$22.43	$32.06	$32.06

[a] The contribution applies to all hours until $513.04 is paid for the month.
[b] $0.59 after 2 years of service
$0.96 after 5 years of service
[c] Rate applies to work in excess of eight (8) hours daily and forty (40) hours weekly.
*There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-MT-830-261-11-2009-1
Issue Date: February 22, 2009
Expiration date of determination: March 3, 2010* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Riverside County.

		Employer Payments					Straight-Time		Overtime Hourly Rate	
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Sunday/ Holiday (1½ X)
Driver: Mixer Truck	$15.00	$6.33[a]	$1.80	$1.04[b]	-	-	8.0	$24.17	$31.67[c]	$31.67

[a] The contribution applies to all hours until $1097.30 is paid for the month.
[b] $1.33 after 4 years of service
$1.61 after 14 years of service
$1.90 after 24 years of service
[c] Rate applies to work in excess of eight (8) hours daily and forty (40) hours weekly.
* There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-MT-830-261-6-2009-1
Issue Date: February 22, 2009
Expiration date of determination: March 3, 2010* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within San Luis Obispo County.

		Employer Payments					Straight-Time		Overtime Hourly Rate	
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Sunday/ Holiday (1½ X)
Driver: Mixer Truck	$19.14	$3.04[a]	$3.42	$1.03[b]	$0.64	-	8.0	$27.27	$36.84[c]	$36.84

[a] The contribution applies to all hours until $526.19 is paid for the month.
[b] $1.40 after 2 years of service,
$1.70 after 10 years of service.
[c] Rate applies to work in excess of eight (8) hours daily and forty (40) hours weekly.
* There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-MT-261-186-15-2010-1
Issue Date: February 22, 2010
Expiration date of determination: March 27, 2010* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for new rates after 10 days from the expiration date, if no subsequent determination is issued.

Localities: All localities within Santa Barbara County.

		Employer Payments					Straight-Time		Overtime Hourly Rate	
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday[d]	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)[e]	Sunday/ Holiday (2 X)
Mixer Driver	$21.15[a]	$4.91[b]	$3.44	$0.41[c]	-	-	8.0	$29.91	$40.485	$51.06

[a]Includes an amount ($0.03) for supplemental dues check off.
[b]The contribution applies to all hours until $850.00 is paid for the month.
[c] $1.06 after 1 month of service
$1.46 after 1 year of service
$1.87 after 7 years of service
$2.28 after 16 years of service.
[d] Includes, after one month, $0.65 for Holidays, which can be deducted from the Vacation/Holiday rate if you choose to adopt the paid days off enumerated in the Holiday Provisions.
[e]Rate applies to work in excess of eight (8) hours daily and forty (40) hours weekly. All work in excess of twelve (12) hours daily shall be paid the Sunday/Holiday (2X) rate.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-DT-830-261-7-2009-1
Issue Date: February 22, 2009
Expiration date of determination: March 3, 2010* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for new rates after 10 days from expiration date, if no subsequent determination is issued.
Localities: All localities within Alameda, Contra Costa, Del Norte, Humboldt, Lassen, Modoc, San Francisco, San Mateo, Santa Clara, Shasta, Siskiyou and Trinity Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate	
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Sunday/ Holiday (1½ X)
Driver: Dump Truck	$22.50	[a]	-	$0.43[b]	-	-	8.0	$22.93	$34.18[c]	$34.18

[a] Health and Welfare will increase from $0.00 to $1.16 after 90 days of service, which will be seen as an increase to the Total Hourly Rate as well.
[b] $0.78 after 90 days of service with the employer
$1.21 after 5 years of service with the employer
$1.65 after 10 years of service with the employer
[c] Rate applies to work in excess of eight (8) hours daily and forty (40) hours weekly.
* There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-DT-830-261-5-2009-1
Issue Date: February 22, 2009
Expiration date of determination: March 3, 2010* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Alpine, Amador, Calaveras, El Dorado, Fresno, Kings, Madera, Mariposa, Merced, Nevada, Placer, Sacramento, San Joaquin, Sierra, Stanislaus, Sutter, Tulare, Tuolumne and Yuba Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate	
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Sunday/ Holiday (1½ X)
Driver: Dump Truck	$17.00	$3.09[a]	-	$0.85[b]	-	-	8.0	$20.94	$29.44[c]	$29.44

[a] The contribution applies to all hours until $535.26 is paid for the month.
[b] $1.18 after 3 years of service
$1.50 after 10 years of service
$1.83 after 20 years of service
[c] Rate applies to work in excess of eight (8) hours daily and forty (40) hours weekly.
* There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-DT-830-261-8-2009-1
Issue Date: February 22, 2009
Expiration date of determination: March 3, 2010* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Butte, Colusa, Glenn, Lake, Mendocino, Plumas and Tehama Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate	
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Sunday/ Holiday (1½ X)
Driver: Dump Truck	$21.00	$2.81[a]	-	$0.10[b]	-	-	8.0	$23.91	$34.41[c]	$34.41

[a]The contribution applies to hours until $487.07 is paid for the month.
[b] $0.20 after 1 year of service,
$0.50 after 2 years of service,
Add $0.10 for every additional year of service to a maximum of $1.50 per hour for over 13 years of service.
[c] Rate applies to work in excess of eight (8) hours daily and forty (40) hours weekly.
* There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-DT-830-261-10-2009-1
Issue Date: February 22, 2009
Expiration date of determination: March 3, 2010* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Imperial, Inyo, Los Angeles, Mono, Orange, Riverside, San Bernardino and San Diego Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate	
Classification	Basic Hourly Rate	Health And Welfare[a]	Pension	Vacation And Holiday[b]	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)[c]	Sunday/ Holiday (1½ X)
Driver: Dump Truck	$17.00	$2.05	$0.085	$0.33	-	-	8.0	$19.465	$27.965	$27.965

[a] The contribution applies to all work up to $355.00 per month.
[b] $0.65 after 2 years of service
$0.98 after 5 years of service
$1.31 after 9 years of service
[c] Rate applies to work in excess of eight (8) hours daily and forty (40) hours weekly.
*There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-DT-830-261-6-2009-1
Issue Date: February 22, 2009
Expiration date of determination: March 3, 2010* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within Kern, Monterey, San Luis Obispo, Santa Barbara, and Ventura Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate	
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily (1½ X)	Sunday/ Holiday (1½ X)
Driver: Dump Truck	$16.76	$3.04[a]	$2.75	$0.90[b]	$0.64	-	8.0	$24.09	$32.47[c]	$32.47

[a] The contribution applies to all hours until $526.19 is paid for the month.
[b] $1.22 after 2 years of service,
$1.55 after 10 years of service.
[c] Rate applies to work in excess of eight (8) hours daily and forty (40) hours weekly.
* There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)

Determination: C-DT-830-261-9-2009-1
Issue Date: February 22, 2009
Expiration date of determination: March 3, 2010* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
Localities: All localities within San Benito and Santa Cruz Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate	
Classification	Basic Hourly Rate	Health And Welfare	Pension	Vacation And Holiday	Training	Other	Hours	Total Hourly Rate	Daily[b] (1½ X)	Sunday/ Holiday (1½ X)
Driver: Dump Truck	$16.25	$9.64	$5.20	$0.56[a]	$0.70	$0.48	8.0	$32.83	$40.955	$40.955

[a] $0.875 after 1 year of service
$1.19 after 7 years of service
$1.50 after 19 years of service
[b] Overtime rate applies to all work exceeding eight (8) hours daily and forty (40) hours weekly.
* There is no predetermined increase applicable to this determination.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence requirements for the current determinations on the Internet at http://www.dir.ca.gov/DLRS/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

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GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: # ASBESTOS WORKER, HEAT AND FROST INSULATOR

DETERMINATION: NC-3-16-1-2011-2
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: July 31, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

Classification (Journeyperson)	Basic Hourly Rate	Employer Payments: Health and Welfare	Pension	Vacation/ Holiday	Training	Other Payments	Straight-Time: Hours	Total Hourly Rate	Overtime Hourly Rate: 1-1/2X	2X
AREA 1										
Mechanic	[a]$53.05	$9.53	$7.06[b]	c	$0.65	[d]$0.23	8	$70.52	[e]$97.045	[f]$123.57
AREA 2										
Mechanic	[a]$41.40	$9.53	$7.06[b]	c	$0.65	[d]$0.23	8	$58.87	[e]$79.57	[f]$100.27

AREA 1 – Alameda, Contra Costa, Marin, Napa, San Benito, San Francisco, San Mateo, Santa Clara, Solano, and Sonoma.
AREA 2 – Alpine, Amador, Butte, Calaveras, Colusa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Merced, Modoc, Mono, Monterey, Nevada, Placer, Plumas, Sacramento, San Joaquin, Santa Cruz, Shasta, Sierra, Siskiyou, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba.

DETERMINATION: NC-3-16-3-2012-1
ISSUE DATE: February 22, 2012
EXPIRATION DATE OF DETERMINATION: December 31, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: Mono and all Northern California Counties

Hazardous Material Handler Mechanic	[g]30.53	5.51	1.25	c	-	[h]0.13	8	37.42	[i]52.685	[j]67.95

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.
[a] Includes amount withheld for dues check off and for vacation.
[b] After 10 years of service in the industry, there will be a $1.90 re-allocation from Basic Hourly Rate to Pension. After 15 years of service, there will be an additional $1.00 re-allocation ($2.90 total) from Basic Hourly Rate to Pension. After 20 years of service, there will be an additional $3.50 re-allocation ($6.40 total) from Basic Hourly Rate to Pension. Overtime rates will be affected.
[c] Included in straight time-hourly rate.
[d] $0.02 per hour worked for vacation/holiday administration; $0.12 per hour worked for occupational health and research; $0.08 per hour worked for Industry Promotion; $0.01 per hour worked for Preservation Trust.
[e] 1 1/2 times the basic straight-time hourly rate for the first 2 hours of overtime, Monday through Friday and for the first 10 hours on Saturdays. All other overtime is paid at the double time rate.
[f] $176.62 (Area 1) and $141.67 (Area 2) per hour for work on Labor Day.
[g] Includes amount witheld for dues check off.
[h] Includes amount for vacation/holiday administration and industry promotion.
[i] Rate applies to the first 4 overtime hours in any workday or 40 hours in a workweek, and for the first 8 hours worked on the 7th consecutive day of work in a workweek.
[j] Rate applies to work on any recognized holiday, all hours worked in excess of 12 hours in any workday, and for all hours worked in excess of 8 hours on the 7th consecutive day of work in a workweek.

NOTE: Asbestos Removal Workers must be trained and the work conducted according to the Code of Federal Regulations 29 CFR 1926.58, the California Labor Code 6501.5 and the California Code of Regulations, Title 8, Section 5208. Contractors must be certified by the Contractors' State License Board and registered with the Division of Occupational Safety and Health (DOSH). For further information, contact the Asbestos Contractors Abatement Registration Unit, DOSH at (510) 286-7362.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1
FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: #CARPENTER AND RELATED TRADES

DETERMINATION: NC-23-31-1-2011-3
ISSUE DATE: August 22, 2011

EXPIRATION DATE OF DETERMINATION: June 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: All Localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

CLASSIFICATION (Journeyperson)	Basic Hourly Rate	Employer Payments: Health and Welfare[c]	Pension	Vacation/ Holiday[d]	Training	Other Payments[e]	Straight – Time: Hours	Total Hourly Rate	Overtime Hourly Rate: Daily 1 1/2X[f]	Daily 2X	Saturday[a] 1 1/2X[g]	Saturday[a] 2X	Sunday and Holiday[j]
[b]Area 1													
Carpenter	$37.50	$9.70	$8.40	$3.96	$0.63	$2.29	8	$62.480	$81.230	$99.980	$81.230	$99.980	$99.980
Hardwood Floorlayer, Power Saw Operator, Saw Filer, Shingler, Steel Scaffold and Steel Shoring Erector	$37.65	$9.70	$8.40	$3.96	$0.63	$2.29	8	$62.630	$81.455	$100.280	$81.455	$100.280	$100.280
[b]Area 2													
Carpenter	$31.62	$9.70	$8.40	$3.96	$0.63	$2.29	8	$56.600	$72.410	$88.220	$72.410	$88.220	$88.220
Hardwood Floorlayer, Power Saw Operator, Saw Filer, Shingler, Steel Scaffold and Steel Shoring Erector	$31.77	$9.70	$8.40	$3.96	$0.63	$2.29	8	$56.750	$72.635	$88.520	$72.635	$88.520	$88.520
[b]Area 3[j]													
Carpenter	$31.62	$9.70	$8.40	$3.96	$0.63	$2.29	8	$56.600	$72.410	$88.220	$72.410	$88.220	$88.220
Hardwood Floorlayer, Power Saw Operator, Saw Filer, Shingler, Steel Scaffold and Steel Shoring Erector	$31.77	$9.70	$8.40	$3.96	$0.63	$2.29	8	$56.750	$72.635	$88.520	$72.635	$88.520	$88.520
[b]Area 4[j]													
Carpenter	$30.27	$9.70	$8.40	$3.96	$0.63	$2.29	8	$55.250	$70.385	$85.520	$70.385	$85.520	$85.520
Hardwood Floorlayer, Power Saw Operator, Saw Filer, Shingler, Steel Scaffold and Steel Shoring Erector	$30.42	$9.70	$8.40	$3.96	$0.63	$2.29	8	$55.400	$70.610	$85.820	$70.610	$85.820	$85.820

DETERMINATION: NC-23-31-1-2011-3A
ISSUE DATE: August 22, 2011

EXPIRATION DATE OF DETERMINATION: June 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: All Localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

CLASSIFICATION (Journeyperson)	Basic Hourly Rate	Employer Payments: Health and Welfare[c]	Pension	Vacation/ Holiday[d]	Training	Other Payments[e]	Straight – Time: Hours	Total Hourly Rate	Overtime Hourly Rate: Daily 1 1/2X[f]	Daily 2X	Saturday[a] 1 1/2X[g]	Saturday[a] 2X	Sunday and Holiday[j]
Bridge Builder/Highway Carpenter	$37.50	$9.70	$8.40	$3.96	$0.63	$2.29	8.0	$62.480	$81.230	$99.980	$81.230	$99.980	$99.980

Footnote and Millwright listed on page 34A

(Recognized Holidays and Subsistence Payment footnotes also listed on page 34A)

DETERMINATION: NC-23-31-1-2011-3B
ISSUE DATE: August 22, 2011

EXPIRATION DATE OF DETERMINATION: June 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: All Localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

CLASSIFICATION (Journeyperson)	Basic Hourly Rate	Employer Payments: Health and Welfare[c]	Pension	Vacation/ Holiday[d]	Training	Other Payments[h]	Straight – Time: Hours	Total Hourly Rate	Overtime Hourly Rate: Daily 1 1/2X[f]	Daily 2X	Saturday[a] 1 1/2X[g]	Saturday[a] 2X	Sunday and Holiday[i]
[b]Area 1													
Millwright	$37.60	$9.70	$8.40	$4.05	$0.63	$3.80	8	$64.180	$82.980	$101.780	$82.980	$101.780	$101.780
[b]Area 2													
Millwright	$34.12	$9.70	$8.40	$4.05	$0.63	$3.80	8	$60.700	$77.760	$94.820	$77.760	$94.820	$94.820
[b]Area 3[j]													
Millwright	$34.12	$9.70	$8.40	$4.05	$0.63	$3.80	8	$60.700	$77.760	$94.820	$77.760	$94.820	$94.820
[b]Area 4[j]													
Millwright	$32.77	$9.70	$8.40	$4.05	$0.63	$3.80	8	$59.350	$75.735	$92.120	$75.735	$92.120	$92.120

DETERMINATION: NC-23-31-1-2011-3, NC-23-31-1-2011-3A and NC-23-31-1-2011-3B

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html

[a] Saturdays in the same work week may be worked at straight-time if job is shut down during the normal work week due to inclement weather or major mechanical breakdown.
[b] **AREA 1** - Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, and Sonoma Counties.
AREA 2 - Monterey, San Benito, and Santa Cruz Counties.
AREA 3 - El Dorado, Placer, Sacramento, San Joaquin and Yolo Counties.
AREA 4 - Alpine, Amador, Butte, Calaveras, Colusa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Merced, Modoc, Nevada, Placer, Plumas, Shasta, Sierra, Siskiyou, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, and Yuba Counties.
[c] Includes an amount for UBC Health & Safety Fund and National Apprenticeship fund.
[d] Includes an amount per hour worked for Work Fees. The Vacation amount is $2.40 per hour worked for Carpenter; $2.30 per hour worked for Millwright.
[e] Annuity Trust Fund, Industry Advancement, and Work Preservation.
[f] For building construction, rate applies to the first 4 hours daily overtime. For all heavy, highway and engineering construction overtime worked, Monday through Friday, rate applies to the first 4 hours daily overtime.
[g] Rate applies to the first 8 hours for building construction and for the first 10 hours worked on heavy, highway and engineering construction.
[h] Millwright Annuity Trust Fund, Industry Promotion, and Work Preservation.
[i] Time and one-half shall be paid for the first eight (8) hours worked on the four (4) days of each year selected by the Union as designated off/holidays listed in the Holiday Provision.
[j] Area 3 includes the portion of Placer County west of and including Highway 49 and the portion of El Dorado County west of and including Highway 49 and the territory inside the city limits of Placerville. Area 4 includes the portions of Placer and El Dorado Counties not covered in Area 3.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. Travel and/or subsistence requirements for each craft, classification or type of worker may be obtained from the Prevailing Wage Unit at (415) 703-4774. You may obtain the Travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1
FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: #CARPENTER AND RELATED TRADES (SECOND SHIFT)*

DETERMINATION: NC-23-31-1-2011-3
ISSUE DATE: August 22, 2011

EXPIRATION DATE OF DETERMINATION: June 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: All Localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

CLASSIFICATION (Journeyperson)	Basic Hourly Rate	Employer Payments: Health and Welfare[d]	Pension	Vacation/ Holiday[e]	Training	Other Payments[f]	Straight – Time: Hours[g]	Total Hourly Rate	Overtime Hourly Rate[a]: Daily 1 1/2X[h]	Daily 2X	Saturday[b] 1 1/2X[i]	Saturday[b] 2X	Sunday and Holiday[k]
[c]Area 1													
Carpenter	$40.00	$9.70	$8.40	$3.96	$0.63	$2.29	7.5	$64.980	$81.230	$99.980	$81.230	$99.980	$99.980
Hardwood Floorlayer, Power Saw Operator, Saw Filer, Shingler, Steel Scaffold and Steel Shoring Erector	$40.16	$9.70	$8.40	$3.96	$0.63	$2.29	7.5	$65.140	$81.455	$100.280	$81.455	$100.280	$100.280
[c]Area 2													
Carpenter	$33.73	$9.70	$8.40	$3.96	$0.63	$2.29	7.5	$58.710	$72.410	$88.220	$72.410	$88.220	$88.220
Hardwood Floorlayer, Power Saw Operator, Saw Filer, Shingler, Steel Scaffold and Steel Shoring Erector	$33.89	$9.70	$8.40	$3.96	$0.63	$2.29	7.5	$58.870	$72.635	$88.520	$72.635	$88.520	$88.520
[c]Area 3[l]													
Carpenter	$33.73	$9.70	$8.40	$3.96	$0.63	$2.29	7.5	$58.710	$72.410	$88.220	$72.410	$88.220	$88.220
Hardwood Floorlayer, Power Saw Operator, Saw Filer, Shingler, Steel Scaffold and Steel Shoring Erector	$33.89	$9.70	$8.40	$3.96	$0.63	$2.29	7.5	$58.870	$72.635	$88.520	$72.635	$88.520	$88.520
[c]Area 4[l]													
Carpenter	$32.29	$9.70	$8.40	$3.96	$0.63	$2.29	7.5	$57.270	$70.385	$85.520	$70.385	$85.520	$85.520
Hardwood Floorlayer, Power Saw Operator, Saw Filer, Shingler, Steel Scaffold and Steel Shoring Erector	$32.45	$9.70	$8.40	$3.96	$0.63	$2.29	7.5	$57.430	$70.610	$85.820	$70.610	$85.820	$85.820

DETERMINATION: NC-23-31-1-2011-3A
ISSUE DATE: August 22, 2011

EXPIRATION DATE OF DETERMINATION: June 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: All Localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

CLASSIFICATION (Journeyperson)	Basic Hourly Rate	Employer Payments: Health and Welfare[d]	Pension	Vacation/ Holiday[e]	Training	Other Payments[f]	Straight – Time: Hours[g]	Total Hourly Rate	Overtime Hourly Rate[a]: Daily 1 1/2X[h]	Daily 2X	Saturday[b] 1 1/2X[i]	Saturday[b] 2X	Sunday and Holiday[k]
Bridge Builder/Highway Carpenter	$40.00	$9.70	$8.40	$3.96	$0.63	$2.29	7.5	$64.980	$81.230	$99.980	$81.230	$99.980	$99.980

Continued on page 34C

(Recognized Holidays and Subsistence Payment footnotes also listed on page 34C)

DETERMINATION: NC-23-31-1-2011-3B
ISSUE DATE: August 22, 2011

EXPIRATION DATE OF DETERMINATION: June 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: All Localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

CLASSIFICATION (Journeyperson)	Basic Hourly Rate	Employer Payments: Health and Welfare[d]	Pension	Vacation/ Holiday[e]	Training	Other Payments[j]	Straight – Time: Hours[g]	Total Hourly Rate	Overtime Hourly Rate[a]: Daily 1 1/2X[h]	Daily 2X	Saturday[b] 1 1/2X[i]	Saturday[b] 2X	Sunday and Holiday[k]
[c]Area 1													
Millwright	$40.11	$9.70	$8.40	$4.05	$0.63	$3.80	7.5	$66.690	$82.980	$101.780	$82.980	$101.780	$101.780
[c]Area 2													
Millwright	$36.39	$9.70	$8.40	$4.05	$0.63	$3.80	7.5	$62.970	$77.760	$94.820	$77.760	$94.820	$94.820
[c]Area 3[l]													
Millwright	$36.39	$9.70	$8.40	$4.05	$0.63	$3.80	7.5	$62.970	$77.760	$94.820	$77.760	$94.820	$94.820
[c]Area 4[l]													
Millwright	$34.95	$9.70	$8.40	$4.05	$0.63	$3.80	7.5	$61.530	$75.735	$92.120	$75.735	$92.120	$92.120

DETERMINATION: NC-23-31-1-2011-3, NC-23-31-1-2011-3A and NC-23-31-1-2011-3B (FOR SECOND AND THIRD SHIFTS)

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html

* Does not apply to tenant improvement or renovation projects in occupied buildings with a total contract value of $5 million or less.

[a] The overtime rates for shift work are based on the non-shift overtime rates on page 34.

[b] Saturdays in the same work week may be worked at straight-time if job is shut down during the normal work week due to inclement weather or major mechanical breakdown.

[c] **AREA 1** - Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, and Sonoma Counties.
AREA 2 - Monterey, San Benito, and Santa Cruz Counties.
AREA 3 - El Dorado, Placer, Sacramento, San Joaquin and Yolo Counties.
AREA 4 - Alpine, Amador, Butte, Calaveras, Colusa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Merced, Modoc, Nevada, Placer, Plumas, Shasta, Sierra, Siskiyou, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, and Yuba Counties.

[d] Includes an amount for UBC Health & Safety Fund and National Apprenticeship fund.

[e] Includes an amount per hour worked for Work Fees. The Vacation amount is $2.40 per hour worked for Carpenter; $2.30 per hour worked for Millwright.

[f] Annuity Trust Fund, Industry Advancement, and Work Preservation.

[g] Daily overtime applies after 7 ½ hours worked at the straight-time rate for second shift and after 7 hours worked at the straight-time rate for third shift.

[h] For building construction, rate applies to the first 2 hours prior to the start of the regular or approved day, or the first 4 hours after the end of the approved or regular work day, not to exceed a total of 4 hours in any 1 work day. For heavy, highway and engineering construction rate applies to the first 4 hours prior to the start of the regular or approved day, or the first 4 hours after the end of the approved or regular work day, not to exceed a total of 4 hours in any 1 work day

[i] Rate applies to the first 8 hours for building construction and for the first 10 hours worked on heavy, highway and engineering construction.

[j] Millwright Annuity Trust Fund, Industry Promotion, and Work Preservation.

[k] Time and one-half shall be paid for the first eight (8) hours worked on the four (4) days of each year selected by the Union as designated off/holidays listed in the Holiday Provision.

[l] Area 3 includes the portion of Placer County west of and including Highway 49 and the portion of El Dorado County west of and including Highway 49 and the territory inside the city limits of Placerville. Area 4 includes the portions of Placer and El Dorado Counties not covered in Area 3.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. Travel and/or subsistence requirements for each craft, classification or type of worker may be obtained from the Prevailing Wage Unit at (415) 703-4774. You may obtain the Travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1
FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: #CARPENTER AND RELATED TRADES (THIRD SHIFT)*

DETERMINATION: NC-23-31-1-2011-3
ISSUE DATE: August 22, 2011

EXPIRATION DATE OF DETERMINATION: June 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: All Localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

CLASSIFICATION (Journeyperson)	Basic Hourly Rate	Employer Payments: Health and Welfare[d]	Pension	Vacation/ Holiday[e]	Training	Other Payments[f]	Straight – Time: Hours[g]	Total Hourly Rate	Overtime Hourly Rate[a]: Daily 1 1/2X[h]	Daily 2X	Saturday[b] 1 1/2X[i]	Saturday[b] 2X	Sunday and Holiday[k]
[c]Area 1													
Carpenter	$42.86	$9.70	$8.40	$3.96	$0.63	$2.29	7	$67.840	$81.230	$99.980	$81.230	$99.980	$99.980
Hardwood Floorlayer, Power Saw Operator, Saw Filer, Shingler, Steel Scaffold and Steel Shoring Erector	$43.03	$9.70	$8.40	$3.96	$0.63	$2.29	7	$68.010	$81.455	$100.280	$81.455	$100.280	$100.280
[c]Area 2													
Carpenter	$36.14	$9.70	$8.40	$3.96	$0.63	$2.29	7	$61.120	$72.410	$88.220	$72.410	$88.220	$88.220
Hardwood Floorlayer, Power Saw Operator, Saw Filer, Shingler, Steel Scaffold and Steel Shoring Erector	$36.31	$9.70	$8.40	$3.96	$0.63	$2.29	7	$61.290	$72.635	$88.520	$72.635	$88.520	$88.520
[c]Area 3[l]													
Carpenter	$36.14	$9.70	$8.40	$3.96	$0.63	$2.29	7	$61.120	$72.410	$88.220	$72.410	$88.220	$88.220
Hardwood Floorlayer, Power Saw Operator, Saw Filer, Shingler, Steel Scaffold and Steel Shoring Erector	$36.31	$9.70	$8.40	$3.96	$0.63	$2.29	7	$61.290	$72.635	$88.520	$72.635	$88.520	$88.520
[c]Area 4[l]													
Carpenter	$34.59	$9.70	$8.40	$3.96	$0.63	$2.29	7	$59.570	$70.385	$85.520	$70.385	$85.520	$85.520
Hardwood Floorlayer, Power Saw Operator, Saw Filer, Shingler, Steel Scaffold and Steel Shoring Erector	$34.77	$9.70	$8.40	$3.96	$0.63	$2.29	7	$59.750	$70.610	$85.820	$70.610	$85.820	$85.820

Footnotes listed on page 34C

(Recognized Holidays and Subsistence Payment footnotes also listed on page 34C)

DETERMINATION: NC-23-31-1-2011-3A
ISSUE DATE: August 22, 2011

EXPIRATION DATE OF DETERMINATION: June 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: All Localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

CLASSIFICATION (Journeyperson)	Basic Hourly Rate	Employer Payments: Health and Welfare[d]	Pension	Vacation/ Holiday[e]	Training	Other Payments[f]	Straight – Time: Hours[g]	Total Hourly Rate	Overtime Hourly Rate[a]: Daily 1 1/2X[h]	Daily 2X	Saturday[b] 1 1/2X[i]	Saturday[b] 2X	Sunday and Holiday[k]
Bridge Builder/Highway Carpenter	$42.86	$9.70	$8.40	$3.96	$0.63	$2.29	7	$67.840	$81.230	$99.980	$81.230	$99.980	$99.980

DETERMINATION: NC-23-31-1-2011-3B
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: All Localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

CLASSIFICATION (Journeyperson)	Basic Hourly Rate	Employer Payments: Health and Welfare[d]	Pension	Vacation/ Holiday[e]	Training	Other Payments[j]	Straight – Time: Hours[g]	Total Hourly Rate	Overtime Hourly Rate[a]: Daily 1 1/2X[h]	Daily 2X	Saturday[b] 1 1/2X[i]	Saturday[b] 2X	Sunday and Holiday[k]
[c]**Area 1**													
Millwright	$42.97	$9.70	$8.40	$4.05	$0.63	$3.80	7	$69.550	$82.980	$101.780	$82.980	$101.780	$101.780
[c]**Area 2**													
Millwright	$38.99	$9.70	$8.40	$4.05	$0.63	$3.80	7	$65.570	$77.760	$94.820	$77.760	$94.820	$94.820
[c]**Area 3**[l]													
Millwright	$38.99	$9.70	$8.40	$4.05	$0.63	$3.80	7	$65.570	$77.760	$94.820	$77.760	$94.820	$94.820
[c]**Area 4**[l]													
Millwright	$37.45	$9.70	$8.40	$4.05	$0.63	$3.80	7	$64.030	$75.735	$92.120	$75.735	$92.120	$92.120

Footnotes listed on page 34C

(Recognized Holidays and Subsistence Payment footnotes also listed on page 34C)

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: MODULAR FURNITURE INSTALLER (CARPENTER)

DETERMINATION: NC-23-31-15-2012-1
ISSUE DATE: February 22, 2012
EXPIRATION DATE OF DETERMINATION: June 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: All Localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate		
Classification (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension[b]	Vacation/ Holiday[c]	Training	Other Payments	Hours	Total Hourly Rate	Daily 1 1/2X	Saturday[d] 1 1/2X	Sunday/ Holiday 2X
[a] AREA 1											
Master Installer	$29.78	$8.85	$4.83	$2.90	-	$0.22	8	$46.58	$61.47	$61.47	$76.36
Lead Installer	25.56	8.85	4.83	2.90	-	0.22	8	42.36	55.14	55.14	67.92
Installer I	22.11	8.85	4.33	2.90	-	0.22	8	38.41	49.465	49.465	60.52
Installer II	18.68	8.85	4.33	2.90	-	0.22	8	34.98	44.32	44.32	53.66
[a] AREA 2											
Master Installer	26.06	8.85	4.83	2.90	-	0.22	8	42.86	55.89	55.89	68.92
Lead Installer	22.43	8.85	4.83	2.90	-	0.22	8	39.23	50.445	50.445	61.66
Installer I	19.46	8.85	4.33	2.90		0.22	8	35.76	45.49	45.49	55.22
Installer II	16.51	8.85	4.33	2.90	-	0.22	8	32.81	41.065	41.065	49.32
[a] AREA 3											
Master Installer	24.73	8.85	4.83	2.90	-	0.22	8	41.53	53.895	53.895	66.26
Lead Installer	21.31	8.85	4.83	2.90	-	0.22	8	38.11	48.765	48.765	59.42
Installer I	18.51	8.85	4.33	2.90	-	0.22	8	34.81	44.065	44.065	53.32
Installer II	15.74	8.85	4.33	2.90	-	0.22	8	32.04	39.91	39.91	47.78

[a] **AREA 1 -** Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, and Sonoma Counties.
AREA 2 - Monterey, San Benito, and Santa Cruz Counties.
AREA 3 - Alpine, Amador, Butte, Calaveras, Colusa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Merced, Modoc, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Sierra, Siskiyou, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

[b] Includes an amount for Annuity Trust Fund.

[c] Includes an amount for Work Fee.

[d] Rate applies for the first 10 hours only. All hours worked in excess of ten hours on Saturdays shall be paid at double time (2X).

RATIO: The ratio of employees shall be based on the increments of ten (10) employees. It is understood that the employee ratio shall apply on a company-wide basis. For every ten (10) employees, the employer shall employ one (1) Master Installer, three (3) Lead Installer, three (3) Installer I, and three (3) Installer II. For crew size of less than 10 employees, the employer shall employ a Master Installer, followed by a Lead Installer, then an Installer I, and lastly an Installer II. For crew size of over 10 employees, please contact the Division of Labor Statistics and Research at 415-703-4774.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: #DRYWALL INSTALLER/LATHER (CARPENTER)

DETERMINATION: NC-31-X-16-2012-1
ISSUE DATE: February 22, 2012
EXPIRATION DATE OF DETERMINATION: June 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo and Yuba counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate		
CLASSIFICATION (Journeyperson)	Basic Hourly Rate	Health and Welfare[e]	Pension	Vacation/ Holiday[f]	Training	Other Payments	Hours	Total Hourly Rate	Daily 1 1/2X	Saturday 1 1/2X	Sunday and Holiday
[a] Area 1											
Drywall Installer/ Lather	$37.50	$9.70	[g]$11.05	$3.96	$0.57	$0.48	8	$63.26	[h]$82.01	[h]$82.01	$100.76
Stocker, Scrapper[i]	18.75	9.55	[g]5.08	3.96	-	-	8	37.55	[h]46.715	[h]46.715	56.09
Stocker, Scrapper	18.75	9.55	0.93	3.96	-	-	8	33.19	[h]42.565	[h]42.565	51.94
[b] Area 2											
Drywall Installer/ Lather	31.62	9.70	[g]11.05	3.96	0.57	0.48	8	57.38	[h]73.19	[h]73.19	89.00
Stocker, Scrapper[i]	15.81	9.55	[g]5.08	3.96	-	-	8	34.40	[h]42.305	[h]42.305	50.21
Stocker, Scrapper	15.81	9.55	0.93	3.96	-	-	8	30.25	[h]38.155	[h]38.155	46.06
[c] Area 3											
Drywall Installer/ Lather	32.12	9.70	[g]11.05	3.96	0.57	0.48	8	57.88	[h]73.94	[h]73.94	90.00
Stocker, Scrapper[i]	16.06	9.55	[g]5.08	3.96	-	-	8	34.65	[h]42.68	[h]42.68	50.71
Stocker, Scrapper	16.06	9.55	0.93	3.96	-	-	8	30.50	[h]38.53	[h]38.53	46.56
[d] Area 4											
Drywall Installer/ Lather	30.77	9.70	[g]11.05	3.96	0.57	0.48	8	56.53	[h]71.915	[h]71.915	87.30
Stocker, Scrapper[i]	15.39	9.55	[g]5.08	3.96	-	-	8	33.98	[h]41.675	[h]41.675	49.37
Stocker, Scrapper	15.39	9.55	0.93	3.96	-	-	8	29.83	[h]37.525	[h]37.525	45.22

#Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] **Area 1** - Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano and Sonoma counties.
[b] **Area 2** - Monterey, San Benito, and Santa Cruz Counties.
[c] **Area 3** - El Dorado[j], Placer[j], Sacramento, San Joaquin, and Yolo Counties.
[d] **Area 4** - Alpine, Amador, Butte, Calaveras, Colusa, Del Norte, El Dorado[j], Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Merced, Modoc, Nevada, Placer[j], Plumas, Shasta, Sierra, Siskiyou, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, and Yuba Counties.
[e] Includes an amount for UBC health and safety fund for Drywall Installer/Lather only.
[f] Includes an amount for Work Fees
[g] Includes an amount for Annuity Trust Fund.
[h] Rate applies to the first 4 overtime hours Monday through Friday and the first 8 hours on Saturday. All other time is paid at the Sunday and Holiday overtime rate. Saturdays may be worked at straight time if job is shut down during Monday through Friday due to inclement weather or major mechanical breakdown.
[i] Employed by the same contractor for 2000 hours (consecutively or cumulatively).
[j] Area 3 includes the portion of Placer County west of and including Highway 49 and the portion of El Dorado County west of and including Highway 49 and the territory inside the city limits of Placerville. Area 4 includes the portions of Placer and El Dorado Counties not covered in Area 3.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and subsistence provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: # PILE DRIVER (CARPENTER)

DETERMINATION: NC-23-31-11-2012-1
ISSUE DATE: February 22, 2012
EXPIRATION DATE OF DETERMINATION: June 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: All Localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate		
Classification (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension	Vacation/ Holiday	Training	Other Payments	Hours	Total Hourly Rate	Daily 1 1/2X	Saturday 1 1/2X	Sunday and Holiday
Pile Driver, Wharf, and Dock Builder	$36.75[g]	[a]9.70	[b]12.50	[c]5.16	0.68	0.15	8	64.94	[d]83.315	[d]83.315	101.69
Diver (wet) up to 50 ft depth [e, f]	82.86	[a]9.70	[b]12.50	[c]5.16	0.68	0.15	8	111.05	[d]152.48	[d]152.48	193.91
Diver's Tender [e]	40.43	[a]9.70	[b]12.50	[c]5.16	0.68	0.15	8	68.62	[d]88.835	[d]88.835	109.05
Assistant Tender	36.75	[a]9.70	[b]12.50	[c]5.16	0.68	0.15	8	64.94	[d]83.315	[d]83.315	101.69
Diver (stand-by)	41.43	[a]9.70	[b]12.50	[c]5.16	0.68	0.15	8	69.62	[d]90.335	[d]90.335	111.05

FOR "PILE DRIVER-BRIDGE BUILDER" - SEE NORTHERN CALIFORNIA CARPENTER PAGE 34.

PLEASE NOTE: To obtain wage rate information for Saturation Diver, Manned Submersible, Manifold Operator/Life Support Technician, Remote Controlled/Operated Vehicle (RCV/ROV) Pilot/Technician, Navigator Surveyor, Bell Winch Operator & Diving Equipment Technician, please contact the Prevailing Wage Unit at (415) 703-4774.

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] Includes UBC Health & Safety Fund.

[b] Includes an amount per hour for Annuity Trust Fund.

[c] Includes an amount per hour for work fees.

[d] Rate applies to the first 2 daily overtime hours and the first 8 hours worked on Saturdays. All other time is paid at the Sunday/Holiday overtime rate.

[e] Shall receive a minimum of 8 hours pay for any day or part thereof.

[f] For specific rates over 50 ft depth, contact the Division of Labor Statistics and Research.

[g] On bridges, powerhouses and dams, men working from bosun's chairs or swinging scaffolds or suspended from rope, cable, safety belts, or any device used as a substitute for or in lieu thereof (excluding piledriving rigs) shall receive $0.15 per hour above this rate.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: #ELEVATOR CONSTRUCTOR

DETERMINATION: NC-62-X-1-2012-1
ISSUE DATE: February 22, 2012
EXPIRATION DATE OF DETERMINATION: July 8, 2012* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for new rates after 10 days from the expiration date, if no subsequent determination is issued.

LOCALITY: All Localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Inyo, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Mono, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo and Yuba Counties.
Portions[a] of Kern, San Bernardino and San Luis Obispo are detailed below.

		Employer Payments				Straight-Time			Overtime Hourly Rate		
Classification (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension[e]	Vacation/ Holiday	Training	Other Payments	Hours	Total Hourly Rate	Daily 1 1/2X[d]	Saturday 1 1/2X[d]	Sunday and Holiday
Mechanic	$57.29	11.025	11.96	3.44	0.55	0.30	8	84.565	113.210	113.210	141.855[b]
Mechanic (Employed in industry more than 5 years)	57.29	11.025	11.96	4.58	0.55	0.30	8	85.705	114.350	114.350	142.995[b]
Helper[c]	40.10	11.025	11.96	2.41	0.55	0.30	8	66.345	86.395	86.395	106.445[b]
Helper (Employed in industry more than 5 years)	40.10	11.025	11.96	3.21	0.55	0.30	8	67.145	87.195	87.195	107.245[b]

#Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] Applies to that portion of these counties north of the Tehachapi Line. For more information contact the Division of Labor Statistics and Research.
[b] For paid holidays recognized in the collective bargaining agreement employees are paid for 8 hours at straight time in addition to the Holiday rate for all hours worked.
[c] Ratio: The total number of Helpers employed shall not exceed the number of Mechanics on any one job. For more information on the use of Helpers contact the Division of Labor Statistics and Research.
[d] For Contract Service work only. All other overtime is paid at the Sunday/Holiday rate.
[e] Includes an amount for Annuity Trust Fund.

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TRAVEL AND SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for each craft, classification or type of worker may be obtained from the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: # OPERATING ENGINEER (HEAVY AND HIGHWAY WORK)

DETERMINATION: NC-23-63-1-2011-1
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 24, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba counties.

			Employer Payments					Straight-Time			Overtime Hourly Rate			
Classification (Journeyperson)	Basic Hourly Rate		Health and Welfare	Pension	Vacation and Holiday[e]	Training	Other Payments	Hours[f]	Total Hourly Rate		Daily/ Saturday[d] 1 1/2X		Sunday and Holiday 2X	
Classification Group[a]	Area 1[b]	Area 2[c]							Area 1[b]	Area 2[c]	Area 1[b]	Area 2[c]	Area 1[b]	Area 2[c]
Group 1	$37.77	$39.77	$11.58	$8.26	$3.66	$0.62	$0.73	8	$62.62	$64.62	$81.51	$84.51	$100.39	$104.39
Group 2	$36.24	$38.24	$11.58	$8.26	$3.66	$0.62	$0.73	8	$61.09	$63.09	$79.21	$82.21	$97.33	$101.33
Group 3	$34.76	$36.76	$11.58	$8.26	$3.66	$0.62	$0.73	8	$59.61	$61.61	$76.99	$79.99	$94.37	$98.37
Group 4	$33.38	$35.38	$11.58	$8.26	$3.66	$0.62	$0.73	8	$58.23	$60.23	$74.92	$77.92	$91.61	$95.61
Group 5	$32.11	$34.11	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.96	$58.96	$73.02	$76.02	$89.07	$93.07
Group 6	$30.79	$32.79	$11.58	$8.26	$3.66	$0.62	$0.73	8	$55.64	$57.64	$71.04	$74.04	$86.43	$90.43
Group 7	$29.65	$31.65	$11.58	$8.26	$3.66	$0.62	$0.73	8	$54.50	$56.50	$69.33	$72.33	$84.15	$88.15
Group 8	$28.51	$30.51	$11.58	$8.26	$3.66	$0.62	$0.73	8	$53.36	$55.36	$67.62	$70.62	$81.87	$85.87
Group 8-A	$26.30	$28.30	$11.58	$8.26	$3.66	$0.62	$0.73	8	$51.15	$53.15	$64.30	$67.30	$77.45	$81.45
Group 1-A	$38.65	$40.65	$11.58	$8.26	$3.66	$0.62	$0.73	8	$63.50	$65.50	$82.83	$85.83	$102.15	$106.15
Truck Crane Assistant to Engineer	$31.68	$33.68	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.53	$58.53	$72.37	$75.37	$88.21	$92.21
Assistant to Engineer	$29.39	$31.39	$11.58	$8.26	$3.66	$0.62	$0.73	8	$54.24	$56.24	$68.94	$71.94	$83.63	$87.63
Group 2-A	$36.89	$38.89	$11.58	$8.26	$3.66	$0.62	$0.73	8	$61.74	$63.74	$80.19	$83.19	$98.63	$102.63
Truck Crane Assistant to Engineer	$31.42	$33.42	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.27	$58.27	$71.98	$74.98	$87.69	$91.69
Assistant to Engineer	$29.18	$31.18	$11.58	$8.26	$3.66	$0.62	$0.73	8	$54.03	$56.03	$68.62	$71.62	$83.21	$87.21
Group 3-A	$35.15	$37.15	$11.58	$8.26	$3.66	$0.62	$0.73	8	$60.00	$62.00	$77.58	$80.58	$95.15	$99.15
Truck Crane Assistant to Engineer	$31.18	$33.18	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.03	$58.03	$71.62	$74.62	$87.21	$91.21
Hydraulic	$30.79	$32.79	$11.58	$8.26	$3.66	$0.62	$0.73	8	$55.64	$57.64	$71.04	$74.04	$86.43	$90.43
Assistant to Engineer	$28.90	$30.90	$11.58	$8.26	$3.66	$0.62	$0.73	8	$53.75	$55.75	$68.20	$71.20	$82.65	$86.65
Group 4-A	$32.11	$34.11	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.96	$58.96	$73.02	$76.02	$89.07	$93.07

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the determination, issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] For classifications within each group, see pages 39B-40.

[b] **AREA 1** - Alameda, Contra Costa, Butte, Marin, Merced, Napa, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Solano, Stanislaus, Sutter, Yolo and Yuba counties; and portions of Alpine, Amador, Calaveras, Colusa, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Monterey, Nevada, Placer, Plumas, Shasta, Sierra, Siskiyou, Sonoma, Tehama, Tulare, Tuolumne and Trinity counties.

[c] **AREA 2** - Del Norte and Modoc, and portions of Alpine, Amador, Calaveras, Colusa, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Monterey, Nevada, Placer, Plumas, Shasta, Sierra, Siskiyou, Sonoma, Tehama, Tulare, Tuolumne and Trinity counties. (Portions of counties falling in each area detailed on page 41).

[d] Saturday in the same work week may be worked at straight-time if a job is shut down during the normal work week due to inclement weather.

[e] Includes an amount for supplemental dues.

[f] When three shifts are employed for five (5) or more consecutive days, seven and one-half (7 1/2) consecutive hours (exclusive of meal period), shall constitute a day of work, for which eight (8) times the straight time hourly rate shall be paid at the non-shift wage rate for the second shift. The third shift shall be seven (7) hours of work for eight (8) hours of pay at the non-shift wage rate.

NOTE: For Special Single and Second Shift rates, please see page 39A.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

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FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: # OPERATING ENGINEER (HEAVY AND HIGHWAY WORK)
(SPECIAL SINGLE AND SECOND SHIFT)

DETERMINATION: NC-23-63-1-2011-1
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 24, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba counties.

Classification (Journeyperson)	Basic Hourly Rate		Employer Payments: Health and Welfare	Pension	Vacation and Holiday[a]	Training	Other Payments	Straight-Time: Hours	Total Hourly Rate		Overtime Hourly Rate: Daily/ Saturday[d] 1 1/2X		Sunday and Holiday 2X	
Classification Group[a]	Area 1[b]	Area 2[c]							Area 1[b]	Area 2[c]	Area 1[b]	Area 2[c]	Area 1[b]	Area 2[c]
Group 1	$42.10	$44.10	$11.58	$8.26	$3.66	$0.62	$0.73	8	$66.95	$68.95	$88.00	$91.00	$109.05	$113.05
Group 2	$40.37	$42.37	$11.58	$8.26	$3.66	$0.62	$0.73	8	$65.22	$67.22	$85.41	$88.41	$105.59	$109.59
Group 3	$38.71	$40.71	$11.58	$8.26	$3.66	$0.62	$0.73	8	$63.56	$65.56	$82.92	$85.92	$102.27	$106.27
Group 4	$37.15	$39.15	$11.58	$8.26	$3.66	$0.62	$0.73	8	$62.00	$64.00	$80.58	$83.58	$99.15	$103.15
Group 5	$35.73	$37.73	$11.58	$8.26	$3.66	$0.62	$0.73	8	$60.58	$62.58	$78.45	$81.45	$96.31	$100.31
Group 6	$34.23	$36.23	$11.58	$8.26	$3.66	$0.62	$0.73	8	$59.08	$61.08	$76.20	$79.20	$93.31	$97.31
Group 7	$32.95	$34.95	$11.58	$8.26	$3.66	$0.62	$0.73	8	$57.80	$59.80	$74.28	$77.28	$90.75	$94.75
Group 8	$31.68	$33.68	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.53	$58.53	$72.37	$75.37	$88.21	$92.21
Group 8-A	$29.17	$31.17	$11.58	$8.26	$3.66	$0.62	$0.73	8	$54.02	$56.02	$68.61	$71.61	$83.19	$87.19
Group 1-A	$43.08	$45.08	$11.58	$8.26	$3.66	$0.62	$0.73	8	$67.93	$69.93	$89.47	$92.47	$111.01	$115.01
Truck Crane Assistant to Engineer	$35.25	$37.25	$11.58	$8.26	$3.66	$0.62	$0.73	8	$60.10	$62.10	$77.73	$80.73	$95.35	$99.35
Assistant to Engineer	$32.66	$34.66	$11.58	$8.26	$3.66	$0.62	$0.73	8	$57.51	$59.51	$73.84	$76.84	$90.17	$94.17
Group 2-A	$41.09	$43.09	$11.58	$8.26	$3.66	$0.62	$0.73	8	$65.94	$67.94	$86.49	$89.49	$107.03	$111.03
Truck Crane Assistant to Engineer	$34.96	$36.96	$11.58	$8.26	$3.66	$0.62	$0.73	8	$59.81	$61.81	$77.29	$80.29	$94.77	$98.77
Assistant to Engineer	$32.43	$34.43	$11.58	$8.26	$3.66	$0.62	$0.73	8	$57.28	$59.28	$73.50	$76.50	$89.71	$93.71
Group 3-A	$39.13	$41.13	$11.58	$8.26	$3.66	$0.62	$0.73	8	$63.98	$65.98	$83.55	$86.55	$103.11	$107.11
Truck Crane Assistant to Engineer	$34.69	$36.69	$11.58	$8.26	$3.66	$0.62	$0.73	8	$59.54	$61.54	$76.89	$79.89	$94.23	$98.23
Hydraulic	$34.23	$36.23	$11.58	$8.26	$3.66	$0.62	$0.73	8	$59.08	$61.08	$76.20	$79.20	$93.31	$97.31
Assistant to Engineer	$32.12	$34.12	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.97	$58.97	$73.03	$76.03	$89.09	$93.09
Group 4-A	$35.73	$37.73	$11.58	$8.26	$3.66	$0.62	$0.73	8	$60.58	$62.58	$78.45	$81.45	$96.31	$100.31

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DETERMINATION: NC-23-63-1-2011-1

CLASSIFICATIONS

GROUP 1
Operator of Helicopter (when used in erection work)
Hydraulic Excavator 7 cu yds and over
Power Shovels, over 7 cu yds

GROUP 2
Highline Cableway
Hydraulic Excavator 3 1/2 cu yds up to 7 cu yds
Licensed Construction Work Boat Operator, On Site
Microtunneling Machine
Power Blade Operator (finish)
Power Shovels, (over 1 cu yd and up to and including 7 cu yds m.r.c.)

GROUP 3
Asphalt Milling Machine
Cable Backhoe
Combination Backhoe and Loader over ¾ cu yds
Continuous Flight Tie Back Machine
Crane Mounted Continuous Flight Tie Back Machine, tonnage to apply
Crane Mounted Drill Attachments, Tonnage to apply
Dozer, Slope Board
Gradall
Hydraulic Excavator up to 3 1/2 cu yds
Loader 4 cu yds and over
Long Reach Excavator
Multiple Engine Scrapers (when used as push pull)
Power Shovels, up to and including 1 cu yd
Pre-Stress Wire Wrapping machine
Side Boom Cat, 572 or larger
Track Loader 4 cu yds and over
Wheel Excavator (up to and including 750 cu yds per hour)

GROUP 4
Asphalt Plant Engineer/Boxman
Chicago Boom
Combination Backhoe and Loader up to and including ¾ cu yds
Concrete Batch Plants (wet or dry)
Dozer and/or Push Cat
Pull-Type Elevating Loader
Gradesetter, Grade Checker (GPS, mechanical or otherwise)
Grooving and Grinding Machine
Heading Shield Operator
Heavy Duty Drilling Equipment, Hughes, LDH, Watson 3000 or similar
Heavy Duty Repairman and/or Welder
Lime Spreader
Loader under 4 cu yds
Lubrication and Service Engineer (mobile and grease rack)
Mechanical Finishers or Spreader Machine (asphalt, Barber-Greene and similar)
Miller Formless M-9000 Slope Paver or similar
Portable Crushing and Screening plants
Power Blade Support
Roller Operator, Asphalt
Rubber-Tired Scraper, Self-Loading (paddle-wheels, etc)
Rubber-Tired Earthmoving Equipment (Scrapers)
Slip Form Paver (concrete)
Small Tractor with Drag
Soil Stabilizer (P&H or equal)
Spider Plow and Spider Puller
Timber Skidder
Track Loader up to 4 yards
Tractor Drawn Scraper
Tractor, Compressor Drill Combination
Tubex Pile Rig
Unlicensed Construction Work Boat Operator, On Site
Welder
Woods-Mixer (and other similar Pugmill equipment)

GROUP 5
Cast-In Place Pipe Laying Machine
Combination Slusher and Motor Operator
Concrete Conveyor or Concrete Pump, Truck or Equipment Mounted
Concrete Conveyor, Building Site
Concrete Pump or Pumpcrete Guns
Drilling Equipment, Watson 2000, Texoma 700 or similar
Drilling and Boring Machinery, Horizontal (not to apply to waterlines, wagon drills or jackhammers)
Concrete Mixers/all
Man and/or Material Hoist
Mechanical Finishers (concrete) (Clary, Johnson, Bidwell Bridge Deck or similar types)
Mechanical Burm, Curb and/or Curb and Gutter Machine, Concrete or Asphalt
Mine or Shaft Hoist
Portable Crushers
Power Jumbo Operator (setting slip-forms, etc., in tunnels)
Screedman (automatic or manual)
Self Propelled Compactor with Dozer
Tractor with boom, D6 or smaller
Trenching Machine, maximum digging capacity over 5 ft. depth
Vermeer T-600B Rock Cutter or similar

GROUP 6
Armor-Coater (or similar)
Ballast Jack Tamper
Boom-Type Backfilling Machine
Asst. Plant Engineer
Bridge and/or Gantry Crane
Chemical Grouting Machine, truck mounted
Chip Spreading Machine Operator
Concrete Barrier Moving Machine
Concrete Saws (self-propelled unit on streets, highways, airports, and canals)
Deck Engineer
Drilling Equipment Texoma 600, Hughes 200 series or similar up to and including 30 ft. m.r.c.
Drill Doctor
Helicopter Radioman
Hydro-Hammer or similar
Line Master
Skidsteer Loader, Bobcat larger than 743 series or similar (with attachments)
Locomotive
Rotating Extendable Forklift, Lull Hi-Lift or similar
Assistant to Engineer, Truck Mounted Equipment
Pavement Breaker, Truck Mounted, with compressor combination
Paving Fabric Installation and/or Laying Machine
Pipe Bending Machine (pipelines only)
Pipe Wrapping Machine (Tractor propelled and supported)
Screedman, (except asphaltic concrete paving)
Self-Loading Chipper
Self Propelled Pipeline Wrapping Machine
Tractor

GROUP 7
Ballast Regulator
Cary Lift or similar
Combination Slurry Mixer and/or Cleaner
Drilling Equipment, 20 ft and under m.r.c.
Fireman Hot Plant
Grouting Machine Operator
Highline Cableway Signalman
Stationary Belt Loader (Kolman or similar)
Lift Slab Machine (Vagtborg and similar types)
Maginnes Internal Full Slab Vibrator
Material Hoist (1 Drum)
Mechanical Trench Shield
Partsman (heavy duty repair shop parts room)
Pavement Breaker with or without Compressor Combination
Pipe Cleaning Machine (tractor propelled and supported)
Post Driver
Roller (except Asphalt), Chip Seal
Self Propelled Automatically Applied Concrete Curing Machine (on streets, highways, airports and canals)
Self Propelled Compactor (without dozer)
Signalman
Slip-Form Pumps (lifting device for concrete forms)
Tie Spacer
Trenching Machine (maximum digging capacity up) to and including 5 ft depth
Truck-Mounted Rotating Telescopic Boom Type Lifting Device, Manitex or similar (Boom Truck) - Under 15 tons
Truck Type Loader

GROUP 8
Bit Sharpener
Boiler Tender
Box Operator
Brakeman
Combination Mixer and Compressor (shotcrete/gunite)
Compressor Operator
Deckhand
Fireman
Generators
Gunite/Shotcrete Equipment Operator
Heavy Duty Repairman Helper
Hydraulic Monitor
Ken Seal Machine (or similar)
Mast Type Forklift
Mixermobile
Assistant to Engineer
Pump Operator
Refrigerator Plant
Reservoir-Debris Tug (Self-Propelled Floating)
Ross Carrier (Construction site)
Rotomist Operator
Self Propelled Tape Machine
Shuttlecar
Self Propelled Power Sweeper Operator (Includes Vacuum Sweeper)
Slusher Operator
Surface Heater
Switchman
Tar Pot Fireman
Tugger Hoist, Single Drum
Vacuum Cooling Plant
Welding Machine (powered other than by electricity)

DETERMINATION: NC-23-63-1-2011-1

GROUP 8-A
Articulated Dump Truck Operator
Elevator Operator
Mini Excavator under 25 H.P. (Backhoe-Trencher)
Skidsteer Loader, Bobcat 743 series or
Smaller and similar (without attachments)

GROUP 1-A
Clamshells and Draglines over 7 cu yds
Cranes over 100 tons
Derrick, over 100 tons
Derrick Barge Pedestal mounted over 100 tons
Self Propelled Boom Type Lifting Device Over 100 tons

GROUP 2-A
Clamshells and Draglines over 1 cu yds up to and including 7 cu yds
Cranes over 45 tons up to and including 100 tons
Derrick Barge 100 tons and under
Mobile Self-Erecting Tower Crane (Potain) over 3 stories
Self Propelled Boom Type Lifting Device over 45 tons
Tower Cranes

GROUP 3-A
Clamshells and Draglines up to and including 1 cu yd
Cranes 45 tons and under
Mobile Self-Erecting Tower Crane (Potain), 3 stories and under
Self Propelled Boom Type Lifting Device 45 tons and under

GROUP 4-A
Boom Truck or dual-purpose A-Frame Truck, Non-Rotating over 15 tons.
Truck Mounted Rotating Telescopic Boom Type Lifting Device, Manitex or similar (Boom Truck -over 15 tons)
Truck-Mounted Rotating Telescopic Boom Type Lifting Device, Munitex or Similar (Boom Truck), under 15 tons

DESCRIPTION FOR AREAS 1 AND 2:

Area 1 is all of Northern California within the following Township, State and/or county Boundaries:

Commencing in the Pacific Ocean on the extension of the Southerly line of Township 19S, of the Mount Diablo Base and Meridian,
Thence Easterly along the Southerly line of Township 19S, to the Northwest corner of Township 20S, Range 6E,
Thence Southerly to the Southwest corner of Township 20S, Range 6E,
Thence Easterly to the Northwest corner of Township 21S, Range 7E Thence Southerly to the Southwest corner of Township 21, Range 7E
Thence Easterly to the Northwest corner of Township 22S, Range 9E,
Thence Southerly to the Southwest corner of Township 22S, Range 9E,
Thence Easterly to the Northwest corner of Township 23S, Range 10E,
Thence Southerly to the Southeast corner of Township 24S, Range 10E,
Thence Easterly to the Southeast corner of Township 24S, Range 31E,
Thence Northerly to the Northeast corner of Township 20S, Range 31E
Thence Westerly to the Southeast corner of Township 19S, Range 29E,
Thence Northerly to the Northeast corner of Township 17S, Range 29E,
Thence Westerly to the Southeast corner of Township 16S, Range 28E,
Thence Northerly to the Northeast corner of Township 13S, Range 28E,
Thence Westerly to the Southeast corner Township 12S, Range 27E,
Thence Northerly to the Northeast corner of Township 12S, Range 27E,
Thence Westerly to the Southeast corner of Township 11S, Range 26E,
Thence Northerly to the Northeast corner of Township 11S, Range 26E,
Thence Westerly to the Southeast corner of Township 10S, Range 25E,
Thence Northerly to the Northeast corner of Township 9S, Range 25E,
Thence Westerly to the Southeast corner of Township 8S, Range 24E,
Thence Northerly to the Northeast corner of Township 8S, Range 24E,
Thence Westerly to the Southeast corner of Township 7S, Range 23E,
Thence Northerly to the Northeast corner of Township 6S, Range 23E,
Thence Westerly to the Southeast corner of Township 5S, Range 20E,
Thence Northerly to the Northeast corner of Township 5S, Range 20E,
Thence Westerly to the Southeast corner of Township 4S, Range 19E,
Thence Northerly to the Northeast corner of Township 1S, Range 19E,
Thence Westerly to the Southeast corner of Township 1N, Range 18E,
Thence Northerly to the Northeast corner of Township 3N, Range 18E,
Thence Westerly to the Southeast corner of Township 4N, Range 17E,
Thence Northerly to the Northeast corner of Township 4N, Range 17E,
Thence Westerly to the Southeast corner of Township 5N, Range 15E,
Thence Northerly to the Northeast corner of Township 5N, Range 15E,
Thence Westerly to the Southeast corner of Township 6N, Range 14E,
Thence Northerly to the Northeast corner of Township 10N, Range 14E,
Thence Easterly along the Southern line of Township 11N, to the California / Nevada State Border,
Thence Northerly along the California / Nevada State Border to the Northerly line of Township 17N,
Thence Westerly to the Southeast corner of Township 18N, Range 10E,
Thence Northerly to the Northeast corner of Township 20N, Range 10E,
Thence Westerly to the Southeast corner of Township 21N, Range 9E,
Thence Northerly to the Northeast corner of Township 21N, Range 9E,
Thence Westerly to the Southeast corner of Township 22N, Range 8E,
Thence Northerly to the Northeast corner of Township 22N, Range 8E,
Thence Westerly to the Northwest corner of Township 22N, Range 8E,
Thence Northerly to the Southwest corner of Township 27N, Range 8E,
Thence Easterly to the Southeast corner of Township 27N, Range 8E,
Thence Northerly to the Northeast corner of Township 28N, Range 8E,
Thence Westerly to the Southeast corner of Township 29N, Range 6E,
Thence Northerly to the Northeast corner of Township 32N, Range 6E,
Thence Westerly to the Northwest corner of Township 32 N, Range 6E,
Thence Northerly to the Northeast corner of Township 35N, Range 5E,
Thence Westerly to the Southeast corner of Township 36N, Range 3E,
Thence Northerly to the Northeast corner of township 36N, Range 3E,
Thence Westerly to the Southeast corner of Township 37N, Range 1W,
Thence Northerly to the Northeast corner of Township 38N, Range 1W,
Thence Westerly to the Southeast corner of Township 39N, Range 2W,
Thence Northerly to the Northeast corner of Township 40N, Range 2W,
Thence Westerly to the Southeast corner of Township 41N, Range 4W,
Thence Northerly to the Northeast corner of Township 42N, Range 4W,
Thence Westerly to the Southeast corner of Township 43N, Range 5W,
Thence Northerly to the California / Oregon State Border,
Thence Westerly along the California / Oregon State Border to the Westerly Boundary of Township Range 8W,
Thence Southerly to the Southwest corner of Township 43N, Range 8W,
Thence Easterly to the Southeast corner of Township 43N, Range 8W,
Thence Southerly to the Southwest corner of Township 42N, Range 7W,
Thence Easterly to the Southeast corner of Township 42N, Range 7W,
Thence Southerly to the Southwest corner of Township 41N, Range 6W,
Thence Easterly to the Northwest corner of Township 40N, Range 5W,
Thence Southerly to the Southwest corner of Township 38N, Range 5W,
Thence Westerly to the Northwest corner of Township 37N, Range 6W,
Thence Southerly to the Southwest corner of Township 35N, Range 6W,
Thence Westerly to the Northwest corner of Township 34N, Range 10W,
Thence Southerly to the Southwest corner of Township 31N, Range 10W,
Thence Easterly to the Northwest corner of Township 30N, Range 9W,
Thence Southerly to the Southwest corner of Township 30N, Range 9W,
Thence Easterly to the Northwest corner of Township 29N, Range 8W,
Thence Southerly to the Southwest corner of Township 23N, Range 8W,
Thence Easterly to the Northwest corner of Township 22N, Range 6W,
Thence Southerly to the Southwest corner of Township 16N, Range 6W,
Thence Westerly to the Southeast corner of Township 16N, Range 9W,
Thence Northerly to the Northeast corner of Township 16N, Range 9W,
Thence Westerly to the Southeast. corner of Township 17N, Range 12W,
Thence Northerly to the Northeast corner of Township 18N, Range 12W,
Thence Westerly to the Northwest corner of Township 18N, Range 15W,
Thence Southerly to the Southwest corner of Township 14N, Range 15W,
Thence Easterly to the Northwest corner of Township 13N, Range 14W,
Thence Southerly to the Southwest corner of Township 13N, Range 14W,
Thence Easterly to the Northwest corner of Township 12N, Range 13W,
Thence Southerly to the Southwest corner of Township 12N, Range 13W,
Thence Easterly to the Northwest corner of Township 11N, Range 12W,
Thence Southerly into the Pacific Ocean and Commencing in the Pacific Ocean on the extension of the Humboldt Base Line,
Thence Easterly to the Northwest corner of Township 1S, Range 2E,
Thence Southerly to the Southwest corner of Township 2S, Range 2E,
Thence Easterly to the Northwest corner of Township 3S, Range 3E,
Thence Southerly to the Southwest corner of Township 5S, Range 3E,
Thence Easterly to the Southeast corner of Township 5S, Range 4E,
Thence Northerly to the Northeast corner of Township 4S, Range 4E,
Thence Westerly to the Southeast corner of Township 3S, Range 3E,
Thence Northerly to the Northeast corner of Township 5N, Range 3E,
Thence Easterly to the Southeast corner of Township 6N, Range 5E,
Thence Northerly to the Northeast corner of Township 7N, Range 5E,
Thence Westerly to the Southeast corner of Township 8N, Range 3E,
Thence Northerly to the Northeast corner of Township 9N, Range 3E,
Thence Westerly to the Southeast corner of Township 10N, Range 1E,
Thence Northerly to the Northeast corner of Township 13N, Range 1E,
Thence Westerly into the Pacific Ocean, excluding that portion of Northern California contained within the following lines:
Commencing at the Southwest corner of Township 12N, Range 11E, of the Mount Diablo Base and Meridian,
Thence Easterly to the Southeast corner of Township 12N, Range 16E,
Thence Northerly to the Northeast corner of Township 12N, Range 16E,
Thence Westerly to the Southeast corner of Township 13N, Range 15E,
Thence Northerly to the Northeast corner of Township 13N, Range 15E,
Thence Westerly to the Southeast corner of Township 14N, Range 14E,
Thence Northerly to the Northeast corner of Township 16N, Range 14E,
Thence Westerly to the Northwest corner of Township 16N, Range 12E,
Thence Southerly to the Southwest corner of Township 16N, Range 12E,
Thence Westerly to the Northwest corner of Township 15N, Range 11E,
Thence Southerly to the point of beginning at the Southwest corner of Township 12N, Range 11E,

Area 2 shall be all areas not part of Area 1 described above.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: # OPERATING ENGINEER (BUILDING CONSTRUCTION)

DETERMINATION: NC-23-63-1-2011-1A
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 24, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774

LOCALITY: All localities within Alpine, Amador, Butte, Calaveras, Colusa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Joaquin, Santa Cruz, Shasta, Sierra, Siskiyou, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba counties.

Classification (Journeyperson)	Basic Hourly Rate		Employer Payments: Health and Welfare	Pension	Vacation and Holiday[a]	Training	Other Payments	Straight-Time: Hours[f]	Total Hourly Rate		Overtime Hourly Rate: Daily/ Saturday[d] 1 1/2X		Sunday and Holiday 2X	
Classification Group[a]	Area 1[b]	Area 2[c]							Area 1[b]	Area 2[c]	Area 1[b]	Area 2[c]	Area 1[b]	Area 2[c]
Group 1	$36.35	$38.35	$11.58	$8.26	$3.66	$0.62	$0.73	8	$61.20	$63.20	$79.38	$82.38	$97.55	$101.55
Group 2	$34.90	$36.90	$11.58	$8.26	$3.66	$0.62	$0.73	8	$59.75	$61.75	$77.20	$80.20	$94.65	$98.65
Group 3	$33.50	$35.50	$11.58	$8.26	$3.66	$0.62	$0.73	8	$58.35	$60.35	$75.10	$78.10	$91.85	$95.85
Group 4	$32.17	$34.17	$11.58	$8.26	$3.66	$0.62	$0.73	8	$57.02	$59.02	$73.11	$76.11	$89.19	$93.19
Group 5	$30.96	$32.96	$11.58	$8.26	$3.66	$0.62	$0.73	8	$55.81	$57.81	$71.29	$74.29	$86.77	$90.77
Group 6	$29.69	$31.69	$11.58	$8.26	$3.66	$0.62	$0.73	8	$54.54	$56.54	$69.39	$72.39	$84.23	$88.23
Group 7	$28.60	$30.60	$11.58	$8.26	$3.66	$0.62	$0.73	8	$53.45	$55.45	$67.75	$70.75	$82.05	$86.05
Group 8	$27.52	$29.52	$11.58	$8.26	$3.66	$0.62	$0.73	8	$52.37	$54.37	$66.13	$69.13	$79.89	$83.89
Group 8-A	$25.40	$27.40	$11.58	$8.26	$3.66	$0.62	$0.73	8	$50.25	$52.25	$62.95	$65.95	$75.65	$79.65
Group 1-A	$37.20	$39.20	$11.58	$8.26	$3.66	$0.62	$0.73	8	$62.05	$64.05	$80.65	$83.65	$99.25	$103.25
Truck Crane Assistant to Engineer	$30.54	$32.54	$11.58	$8.26	$3.66	$0.62	$0.73	8	$55.39	$57.39	$70.66	$73.66	$85.93	$89.93
Assistant to Engineer	$28.37	$30.37	$11.58	$8.26	$3.66	$0.62	$0.73	8	$53.22	$55.22	$67.41	$70.41	$81.59	$85.59
Group 2-A	$35.51	$37.51	$11.58	$8.26	$3.66	$0.62	$0.73	8	$60.36	$62.36	$78.12	$81.12	$95.87	$99.87
Truck Crane Assistant to Engineer	$30.30	$32.30	$11.58	$8.26	$3.66	$0.62	$0.73	8	$55.15	$57.15	$70.30	$73.30	$85.45	$89.45
Assistant to Engineer	$28.15	$30.15	$11.58	$8.26	$3.66	$0.62	$0.73	8	$53.00	$55.00	$67.08	$70.08	$81.15	$85.15
Group 3-A	$33.87	$35.87	$11.58	$8.26	$3.66	$0.62	$0.73	8	$58.72	$60.72	$75.66	$78.66	$92.59	$96.59
Truck Crane Assistant to Engineer	$30.06	$32.06	$11.58	$8.26	$3.66	$0.62	$0.73	8	$54.91	$56.91	$69.94	$72.94	$84.97	$88.97
Hydraulic	$29.69	$31.69	$11.58	$8.26	$3.66	$0.62	$0.73	8	$54.54	$56.54	$69.39	$72.39	$84.23	$88.23
Assistant to Engineer	$27.90	$29.90	$11.58	$8.26	$3.66	$0.62	$0.73	8	$52.75	$54.75	$66.70	$69.70	$80.65	$84.65
Group 4-A	$30.96	$32.96	$11.58	$8.26	$3.66	$0.62	$0.73	8	$55.81	$57.81	$71.29	$74.29	$86.77	$90.77

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the determination, issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at

[a] For classifications within each group, see pages 39B-40.

[b] **AREA 1** - Butte, Merced, Napa, Sacramento, San Benito, San Joaquin, Santa Cruz, Stanislaus, Sutter, Yolo and Yuba counties; and portions of Alpine, Amador, Calaveras, Colusa, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Monterey, Nevada, Placer, Plumas, Shasta, Sierra, Siskiyou, Sonoma, Tehama, Tulare, Tuolumne and Trinity counties.

[c] **AREA 2** - Del Norte and Modoc, and portions of Alpine, Amador, Calaveras, Colusa, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Monterey, Nevada, Placer, Plumas, Shasta, Sierra, Siskiyou, Sonoma, Tehama, Tulare, Tuolumne and Trinity counties. (Portions of counties falling in each area detailed on page 41).

[d] Saturday in the same work week may be worked at straight-time if a job is shut down during the normal work week due to inclement weather.

[e] Includes an amount for supplemental dues.

[f] When three shifts are employed for five (5) or more consecutive days, seven and one-half (7 1/2) consecutive hours (exclusive of meal period), shall constitute a day of work, for which eight (8) times the straight time hourly rate shall be paid at the non-shift wage rate for the second shift. The third shift shall be seven (7) hours of work for eight (8) hours of pay at the non-shift wage rate.

NOTE: For Special Single and Second Shift rates, please see page 40C.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: # OPERATING ENGINEER (BUILDING CONSTRUCTION)
(SPECIAL SINGLE AND SECOND SHIFT)

DETERMINATION: NC-23-63-1-2011-1A
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 24, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774

LOCALITY: All localities within Alpine, Amador, Butte, Calaveras, Colusa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Joaquin, Santa Cruz, Shasta, Sierra, Siskiyou, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba counties.

Classification (Journeyperson)	Basic Hourly Rate		Employer Payments: Health and Welfare	Pension	Vacation and Holiday[e]	Training	Other Payments	Straight-Time: Hours	Total Hourly Rate		Overtime Hourly Rate: Daily/ Saturday[d] 1 1/2X		Sunday and Holiday 2X	
Classification Group[a]	Area 1[b]	Area 2[c]							Area 1[b]	Area 2[c]	Area 1[b]	Area 2[c]	Area 1[b]	Area 2[c]
Group 1	$40.50	$42.50	$11.58	$8.26	$3.66	$0.62	$0.73	8	$65.35	$67.35	$85.60	$88.60	$105.85	$109.85
Group 2	$38.86	$40.86	$11.58	$8.26	$3.66	$0.62	$0.73	8	$63.71	$65.71	$83.14	$86.14	$102.57	$106.57
Group 3	$37.30	$39.30	$11.58	$8.26	$3.66	$0.62	$0.73	8	$62.15	$64.15	$80.80	$83.80	$99.45	$103.45
Group 4	$35.78	$37.78	$11.58	$8.26	$3.66	$0.62	$0.73	8	$60.63	$62.63	$78.52	$81.52	$96.41	$100.41
Group 5	$34.43	$36.43	$11.58	$8.26	$3.66	$0.62	$0.73	8	$59.28	$61.28	$76.50	$79.50	$93.71	$97.71
Group 6	$32.99	$34.99	$11.58	$8.26	$3.66	$0.62	$0.73	8	$57.84	$59.84	$74.34	$77.34	$90.83	$94.83
Group 7	$31.78	$33.78	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.63	$58.63	$72.52	$75.52	$88.41	$92.41
Group 8	$30.57	$32.57	$11.58	$8.26	$3.66	$0.62	$0.73	8	$55.42	$57.42	$70.71	$73.71	$85.99	$89.99
Group 8-A	$28.18	$30.18	$11.58	$8.26	$3.66	$0.62	$0.73	8	$53.03	$55.03	$67.12	$70.12	$81.21	$85.21
Group 1-A	$41.46	$43.46	$11.58	$8.26	$3.66	$0.62	$0.73	8	$66.31	$68.31	$87.04	$90.04	$107.77	$111.77
Truck Crane Assistant to Engineer	$33.97	$35.97	$11.58	$8.26	$3.66	$0.62	$0.73	8	$58.82	$60.82	$75.81	$78.81	$92.79	$96.79
Assistant to Engineer	$31.51	$33.51	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.36	$58.36	$72.12	$75.12	$87.87	$91.87
Group 2-A	$39.55	$41.55	$11.58	$8.26	$3.66	$0.62	$0.73	8	$64.40	$66.40	$84.18	$87.18	$103.95	$107.95
Truck Crane Assistant to Engineer	$33.70	$35.70	$11.58	$8.26	$3.66	$0.62	$0.73	8	$58.55	$60.55	$75.40	$78.40	$92.25	$96.25
Assistant to Engineer	$31.27	$33.27	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.12	$58.12	$71.76	$74.76	$87.39	$91.39
Group 3-A	$37.69	$39.69	$11.58	$8.26	$3.66	$0.62	$0.73	8	$62.54	$64.54	$81.39	$84.39	$100.23	$104.23
Truck Crane Assistant to Engineer	$33.43	$35.43	$11.58	$8.26	$3.66	$0.62	$0.73	8	$58.28	$60.28	$75.00	$78.00	$91.71	$95.71
Hydraulic	$32.99	$34.99	$11.58	$8.26	$3.66	$0.62	$0.73	8	$57.84	$59.84	$74.34	$77.34	$90.83	$94.83
Assistant to Engineer	$30.99	$32.99	$11.58	$8.26	$3.66	$0.62	$0.73	8	$55.84	$57.84	$71.34	$74.34	$86.83	$90.83
Group 4-A	$34.43	$36.43	$11.58	$8.26	$3.66	$0.62	$0.73	8	$59.28	$61.28	$76.50	$79.50	$93.71	$97.71

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the determination, issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have beer reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] For classifications within each group, see pages 39B-40.

[b] **AREA 1** - Butte, Merced, Napa, Sacramento, San Benito, San Joaquin, Santa Cruz, Stanislaus, Sutter, Yolo and Yuba counties; and portions of Alpine, Amador, Calaveras, Colusa, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Monterey, Nevada, Placer, Plumas, Shasta, Sierra, Siskiyou, Sonoma, Tehama, Tulare, Tuolumne and Trinity counties.

[c] **AREA 2** - Del Norte and Modoc, and portions of Alpine, Amador, Calaveras, Colusa, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Monterey, Nevada, Placer, Plumas, Shasta, Sierra, Siskiyou, Sonoma, Tehama, Tulare, Tuolumne and Trinity counties. (Portions of counties falling in each area detailed on page 41).

[d] Saturday in the same work week may be worked at straight-time if a job is shut down during the normal work week due to inclement weather.

[e] Includes an amount for supplemental dues.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: #STEEL ERECTOR AND FABRICATOR (OPERATING ENGINEER-BUILDING CONSTRUCTION)

DETERMINATION: NC-23-63-1-2011-1D1
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 24, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774

LOCALITY: All localities within Alpine, Amador, Butte, Calaveras, Colusa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Joaquin, Santa Cruz, Shasta, Sierra, Siskiyou, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba counties.

			Employer Payments				Straight-Time		Overtime Hourly Rate		
Classification[b] (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension	Vacation and Holiday[c]	Training	Other Payments	Hours[d]	Total Hourly Rate	Daily 1 1/2X	Saturday[a] 1 1/2X	Sunday and Holiday 2X
Group 1	$38.14	$11.58	$8.26	$3.66	$0.62	$0.73	8	$62.99	$82.06	$82.06	$101.13
Truck Crane Assistant to Engineer	$31.15	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.00	$71.58	$71.58	$87.15
Assistant to Engineer	$29.01	$11.58	$8.26	$3.66	$0.62	$0.73	8	$53.86	$68.37	$68.37	$82.87
Group 2	$36.43	$11.58	$8.26	$3.66	$0.62	$0.73	8	$61.28	$79.50	$79.50	$97.71
Truck Crane Assistant to Engineer	$30.93	$11.58	$8.26	$3.66	$0.62	$0.73	8	$55.78	$71.25	$71.25	$86.71
Assistant to Engineer	$28.76	$11.58	$8.26	$3.66	$0.62	$0.73	8	$53.61	$67.99	$67.99	$82.37
Group 3	$35.04	$11.58	$8.26	$3.66	$0.62	$0.73	8	$59.89	$77.41	$77.41	$94.93
Truck Crane Assistant to Engineer	$30.68	$11.58	$8.26	$3.66	$0.62	$0.73	8	$55.53	$70.87	$70.87	$86.21
Hydraulic	$30.30	$11.58	$8.26	$3.66	$0.62	$0.73	8	$55.15	$70.30	$70.30	$85.45
Assistant to Engineer	$28.53	$11.58	$8.26	$3.66	$0.62	$0.73	8	$53.38	$67.65	$67.65	$81.91
Group 4	$33.11	$11.58	$8.26	$3.66	$0.62	$0.73	8	$57.96	$74.52	$74.52	$91.07
Group 5	$31.86	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.71	$72.64	$72.64	$88.57

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the determination, issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] Saturday in the same work week may be worked at straight-time rates if a job is shut down during the normal work week due to inclement weather.

[b] For classifications within each group, see page 45.

[c] Includes an amount for supplemental dues.

[d] When three shifts are employed for five (5) or more consecutive days, seven and one-half (7 1/2) consecutive hours (exclusive of meal period), shall constitute a day of work, for which eight (8) times the straight time hourly rate shall be paid at the non-shift wage rate for the second shift. The third shift shall be seven (7) hours of work for eight (8) hours of pay at the non-shift wage rate.

NOTE: For Special Single and Second Shift rates, please see page 40D.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: #STEEL ERECTOR AND FABRICATOR (OPERATING ENGINEER-BUILDING CONSTRUCTION)
(SPECIAL SINGLE AND SECOND SHIFT)

DETERMINATION: NC-23-63-1-2011-1D1
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 24, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774

LOCALITY: All localities within Alpine, Amador, Butte, Calaveras, Colusa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Joaquin, Santa Cruz, Shasta, Sierra, Siskiyou, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba counties.

			Employer Payments				Straight-Time		Overtime Hourly Rate		
Classification[b] (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension	Vacation and Holiday[c]	Training	Other Payments	Hours	Total Hourly Rate	Daily 1 1/2X	Saturday[a] 1 1/2X	Sunday and Holiday 2X
Group 1	$42.51	$11.58	$8.26	$3.66	$0.62	$0.73	8	$67.36	$88.62	$88.62	$109.87
Truck Crane Assistant to Engineer	$34.65	$11.58	$8.26	$3.66	$0.62	$0.73	8	$59.50	$76.83	$76.83	$94.15
Assistant to Engineer	$32.23	$11.58	$8.26	$3.66	$0.62	$0.73	8	$57.08	$73.20	$73.20	$89.31
Group 2	$40.59	$11.58	$8.26	$3.66	$0.62	$0.73	8	$65.44	$85.74	$85.74	$106.03
Truck Crane Assistant to Engineer	$34.39	$11.58	$8.26	$3.66	$0.62	$0.73	8	$59.24	$76.44	$76.44	$93.63
Assistant to Engineer	$31.96	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.81	$72.79	$72.79	$88.77
Group 3	$39.01	$11.58	$8.26	$3.66	$0.62	$0.73	8	$63.86	$83.37	$83.37	$102.87
Truck Crane Assistant to Engineer	$34.11	$11.58	$8.26	$3.66	$0.62	$0.73	8	$58.96	$76.02	$76.02	$93.07
Hydraulic	$33.70	$11.58	$8.26	$3.66	$0.62	$0.73	8	$58.55	$75.40	$75.40	$92.25
Assistant to Engineer	$31.68	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.53	$72.37	$72.37	$88.21
Group 4	$36.86	$11.58	$8.26	$3.66	$0.62	$0.73	8	$61.71	$80.14	$80.14	$98.57
Group 5	$35.44	$11.58	$8.26	$3.66	$0.62	$0.73	8	$60.29	$78.01	$78.01	$95.73

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the determination, issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] Saturday in the same work week may be worked at straight-time rates if a job is shut down during the normal work week due to inclement weather.

[b] For classifications within each group, see page 45.

[c] Includes an amount for supplemental dues.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR LANDSCAPE CONSTRUCTION PROJECTS

CRAFT: # OPERATING ENGINEER

DETERMINATION: NC-63-3-75-2011-2

ISSUE DATE: August 22, 2011

EXPIRATION DATE OF DETERMINATION: June 24, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

Classification (Journeyperson)	Basic Hourly Rate		Employer Payments: Health and Welfare	Pension	Vacation and Holiday[f]	Training	Other Payments	Straight-Time Hours	Total Hourly Rate		Overtime Hourly Rate: Daily 1 1/2X		Saturday[e] 1 1/2X		Sunday and Holiday 2X	
Classification Group[a]	Area 1[b]	Area 2[c]							Area 1[b]	Area 2[c]	Area 1[b]	Area 2[c]	Area 1[b]	Area 2[c]	Area 1[b]	Area 2[c]
Group I	$28.64	30.64	11.58	7.98	3.46	0.61	[d] 0.78	8	53.05	55.05	67.37	70.37	67.37	70.37	81.69	85.69
Group II	25.04	27.04	11.58	7.98	3.46	0.61	[d] 0.78	8	49.45	51.45	61.97	64.97	61.97	64.97	74.49	78.49
Group III	20.43	22.43	11.58	7.98	3.46	0.61	[d] 0.78	8	44.84	46.84	55.055	58.055	55.055	58.055	65.27	69.27
Group IV[g]	17.72	19.72	11.58	7.98	3.46	0.61	[d] 0.78	8	42.13	44.13	50.99	53.99	50.99	53.99	59.85	63.85

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] For classifications within each group, see below.

[b] **AREA 1** - Alameda, Butte, Contra Costa, Marin, Merced, Napa, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Solano, Stanislaus, Sutter, Yolo and Yuba Counties; and portions of Alpine, Amador, Calaveras, Colusa, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Monterey, Nevada, Placer, Plumas, Shasta, Sierra, Siskiyou, Sonoma, Tehama, Tulare, Tuolumne and Trinity Counties.

[c] **AREA 2** - Del Norte and Modoc, and portions of Alpine, Amador, Calaveras, Colusa, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Monterey, Nevada, Placer, Plumas, Shasta, Sierra, Siskiyou, Sonoma, Tehama, Tulare, Tuolumne and Trinity Counties. (Portions of counties falling in each area detailed on page 41).

[d] Includes an amount for Annuity Fund $0.40, Contract Administration Fund $0.20, Industry Stabilization Fund $0.06, Preservation Fund $0.10, and Industry Promotion Fund $0.02.

[e] Saturdays in the same work week may be worked at straight-time if a job is shut down during the normal work week due to inclement weather.

[f] Includes an amount for Supplemental Dues.

[g] Group IV receives no predetermined increases.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

CLASSIFICATIONS

Group I

Landscape Finish Grade Operator. All finish grade work regardless of the equipment used, and all equipment with a horsepower rating of more than 65.

Group II

Landscape Operator up to 65 H.P. All equipment with a manufacturer's horsepower rating of 65 or less except equipment covered by Group I or Group III. The following equipment shall be included in Group II except when used for finish work so long as its manufacturer's horsepower rating is 65 or less.

A-Frame and Winch Truck
Backhoe
Forklift (Jobsite)
HDR Welder - Landscape - Operating Engineer's Equipment
Hydro Seeder Machine
Roller
Rubber-Tired and Track Earthmoving Equipment
Skiploader
Straw Blowers
Trencher - 35 Horsepower up to 65 Horsepower

Group III

Landscape Utility Operator
Small Rubber-Tired Tractor
Trencher - Under 31 Horsepower

Group IV

Assistant Landscape Utility Operator

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR LANDSCAPE CONSTRUCTION PROJECTS

CRAFT: # OPERATING ENGINEER (SPECIAL SINGLE AND SECOND SHIFT)

DETERMINATION: NC-63-3-75-2011-2

ISSUE DATE: August 22, 2011

EXPIRATION DATE OF DETERMINATION: June 24, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

Classification (Journeyperson)	Basic Hourly Rate		Employer Payments: Health and Welfare	Pension	Vacation and Holiday[f]	Training	Other Payments	Straight-Time Hours	Total Hourly Rate		Overtime Hourly Rate: Daily 1 1/2X		Saturday[e] 1 1/2X		Sunday & Holiday 2X	
Classification Group[a]	Area 1[b]	Area 2[c]							Area 1[b]	Area 2[c]	Area 1	Area 2[c]	Area 1[b]	Area 2[c]	Area 1[b]	Area 2[c]
Group I	$32.05	34.05	11.58	7.98	3.46	0.61	[d] 0.78	8	56.46	58.46	72.485	75.485	72.485	75.485	88.51	92.51
Group II	28.00	30.00	11.58	7.98	3.46	0.61	[d] 0.78	8	52.41	54.41	66.41	69.41	66.41	69.41	80.41	84.41
Group III	22.81	24.81	11.58	7.98	3.46	0.61	[d] 0.78	8	47.22	49.22	58.625	61.625	58.625	61.625	70.03	74.03
Group IV[g]	19.91	21.91	11.58	7.98	3.46	0.61	[d] 0.78	8	44.32	46.32	54.275	57.275	54.275	57.275	64.23	68.23

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] For classifications within each group, see below.

[b] **AREA 1** - Alameda, Butte, Contra Costa, Marin, Merced, Napa, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Solano, Stanislaus, Sutter, Yolo and Yuba Counties; and portions of Alpine, Amador, Calaveras, Colusa, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Monterey, Nevada, Placer, Plumas, Shasta, Sierra, Siskiyou, Sonoma, Tehama, Tulare, Tuolumne and Trinity Counties.

[c] **AREA 2** - Del Norte and Modoc, and portions of Alpine, Amador, Calaveras, Colusa, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Monterey, Nevada, Placer, Plumas, Shasta, Sierra, Siskiyou, Sonoma, Tehama, Tulare, Tuolumne and Trinity Counties. (Portions of counties falling in each area detailed on page 41).

[d] Includes an amount for Annuity Fund $0.40, Contract Administration Fund $0.20, Industry Stabilization Fund $0.06, Preservation Fund $0.10, and Industry Promotion Fund $0.02.

[e] Saturdays in the same work week may be worked at straight-time if a job is shut down during the normal work week due to inclement weather.

[f] Includes an amount for Supplemental Dues.

[g] Group IV receives no predetermined increases.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

CLASSIFICATIONS

Group I

Landscape Finish Grade Operator. All finish grade work regardless of the equipment used, and all equipment with a horsepower rating of more than 65.

Group II

Landscape Operator up to 65 H.P. All equipment with a manufacturer's horsepower rating of 65 or less except equipment covered by Group I or Group III. The following equipment shall be included in Group II except when used for finish work so long as its manufacturer's horsepower rating is 65 or less.

A-Frame and Winch Truck
Backhoe
Forklift (Jobsite)
HDR Welder - Landscape - Operating Engineer's Equipment
Hydro Seeder Machine
Roller
Rubber-Tired and Track Earthmoving Equipment
Skiploader
Straw Blowers
Trencher - 35 Horsepower up to 65 Horsepower

Group III

Landscape Utility Operator
Small Rubber-Tired Tractor
Trencher - Under 31 Horsepower

Group IV

Assistant Landscape Utility Operator

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: # DREDGER OPERATING ENGINEER

(CLAMSHELL AND DIPPER DREDGING AND HYDRAULIC SUCTION DREDGING)

DETERMINATION: NC-63-3-12-2011-2
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba counties.

			Employer Payments					Straight-Time			Overtime Hourly Rate					
Classification (Journeyperson)	Basic Hourly Rate		Health and Welfare	Pension [e]	Vacation and Holiday [d]	Training	Other Payments	Hours	Total Hourly Rate		Daily[g] 1 1/2X		Saturday[fg] 1 1/2X		Sunday and Holiday 2X	
Classification Group[a]																
First Shift	Area 1[b]	Area 2[c]							Area 1[b]	Area 2[c]	Area 1[b]	Area 2[c]	Area 1[b]	Area 2[c]	Area 1[b]	Area 2[c]
Group 1	$38.94	40.94	11.58	9.27	4.55	0.08	0.25	8	64.67	66.67	84.14	87.14	84.14	87.14	103.61	107.61
Group 2	33.98	35.98	11.58	9.27	4.55	0.08	0.25	8	59.71	61.71	76.70	79.70	76.70	79.70	93.69	97.69
Group 3	32.86	34.86	11.58	9.27	4.55	0.08	0.25	8	58.59	60.59	75.02	78.02	75.02	78.02	91.45	95.45
Group 4	29.56	31.56	11.58	9.27	4.55	0.08	0.25	8	55.29	57.29	70.07	73.07	70.07	73.07	84.85	88.85
Second Shift	Area 1[b]	Area 2[c]							Area 1[b]	Area 2[c]	Area 1[b]	Area 2[c]	Area 1[b]	Area 2[c]	Area 1[b]	Area 2[c]
Group 1	$43.25	45.25	11.58	9.27	4.55	0.08	0.25	8	68.98	70.98	90.605	93.605	90.605	93.605	112.23	116.23
Group 2	37.67	39.67	11.58	9.27	4.55	0.08	0.25	8	63.40	65.40	82.235	85.235	82.235	85.235	101.07	105.07
Group 3	36.41	38.41	11.58	9.27	4.55	0.08	0.25	8	62.14	64.14	80.345	83.345	80.345	83.345	98.55	102.55
Group 4	32.70	34.70	11.58	9.27	4.55	0.08	0.25	8	58.43	60.43	74.78	77.78	74.78	77.78	91.13	95.13

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] For classifications within each group, see below.

[b] **AREA 1** - Alameda, Contra Costa, Butte, Marin, Merced, Napa, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Solano, Stanislaus, Sutter, Yolo and Yuba counties; and portions of Alpine, Amador, Calaveras, Colusa, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Monterey, Nevada, Placer, Plumas, Shasta, Sierra, Siskiyou, Sonoma, Tehama, Tulare, Tuolumne and Trinity counties.

[c] **AREA 2** - Del Norte and Modoc, and portions of Alpine, Amador, Calaveras, Colusa, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Monterey, Nevada, Placer, Plumas, Shasta, Sierra, Siskiyou, Sonoma, Tehama, Tulare, Tuolumne and Trinity counties. (Portions of counties falling in each area detailed on page 41).

[d] Includes an amount for Supplemental Dues.

[e] Includes an amount for Annuity Trust Fund.

[f] Saturday in the same workweek may be worked at straight-time if a job is shut down during the normal workweek due to inclement weather.

[g] Rate applies to the first 4 daily overtime hours Monday thru Friday and the first 12 hours on Saturday. All other time worked is paid at the Sunday and Holiday overtime rate.

GROUP 1

Leverman / Operator
Day Mate (Captain)
Chief Engineer

GROUP 2

Dredge Dozer
HDR/Welder

GROUP 3

Booster Pump Operator
Deck Engineer
Deck Mate
Dredge Tender
Welder
Winch Man Oiler
Watch Engineer Oiler

GROUP 4

Bargeman
Deckhand
Fireman
Leveehand
Oiler

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: TRAFFIC CONTROL/LANE CLOSURE (LABORER)

DETERMINATION: NC-23-102-13-2011-2
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 30, 2012*. Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

Classification (Journeyperson)	Basic Hourly Rate	Employer Payments: Health[f] and Welfare	Pension[a]	Vacation and Holiday[b]	Training	Other Payments	Straight-Time: Hours	Total Hourly Rate	Overtime Hourly Rate: Daily 1 1/2X	Saturday[c] 1 1/2X	Sunday And Holiday
[d] **AREA 1**											
Traffic Control Person I	27.19	6.54	7.55	2.48	0.34	0.19	8	44.29	57.885	57.885	71.48
Traffic Control Person II Delineating Device Application (Installation of Temporary/Permanent Signs, Markers, Delineators And Crash Cushions)	24.69	6.54	7.55	2.48	0.34	0.19	8	41.79	54.135	54.135	66.48
Flag Person	26.89	6.54	7.55	2.48	0.34	0.19	8	43.99	57.435	57.435	70.88
[d] **AREA 2**											
Traffic Control Person I	26.19	6.54	7.55	2.48	0.34	0.19	8	43.29	56.385	56.385	69.48
Traffic Control Person II Delineating Device Application (Installation of Temporary/Permanent Signs, Markers, Delineators And Crash Cushions)	23.69	6.54	7.55	2.48	0.34	0.19	8	40.79	52.635	52.635	64.48
Flag Person	25.89	6.54	7.55	2.48	0.34	0.19	8	42.99	55.935	55.935	68.88

DETERMINATION: NC- 23-102-13-2011-2A
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 30, 2012*. Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.
LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

Entry Level Trainee[e] (1st 2000 hours)	16.57	6.54	7.55	2.48	0.34	0.19	8	33.67	41.955	41.955	50.24

a Includes an amount for the Annuity Trust Fund.
b Includes an amount ($0.82) for Supplemental Dues
c Saturdays in the same workweek may be worked at straight-time if job is shut down during the normal workweek due to inclement weather, major mechanical breakdown or lack of materials beyond the control of the employer.
d **AREA 1** - Alameda, Contra Costa, Marin, San Francisco, San Mateo and Santa Clara Counties.
AREA 2 - Alpine, Amador, Butte, Calaveras, Colusa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Joaquin, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo and Yuba Counties.
e An individual employer may employ (1) Entry Level Trainee for every journeyman Laborer.
f Includes an amount ($0.30) for Retiree Health & Welfare

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: #STEEL ERECTOR AND FABRICATOR (OPERATING ENGINEER-HEAVY AND HIGHWAY WORK)[f]

DETERMINATION: NC-23-63-1-2011-1D
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 24, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba counties.

			Employer Payments				Straight-Time		Overtime Hourly Rate		
Classification (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension	Vacation and Holiday[d]	Training	Other Payments	Hours[e]	Total Hourly Rate	Daily[b] 1 1/2X	Saturday[a&b] 1 1/2X	Sunday and Holiday 2X
Group 1	$39.62	$11.58	$8.26	$3.66	$0.62	$0.73	8	$64.47	$84.28	$84.28	$104.09
Truck Crane Assistant to Engineer	$32.30	$11.58	$8.26	$3.66	$0.62	$0.73	8	$57.15	$73.30	$73.30	$89.45
Assistant to Engineer	$30.07	$11.58	$8.26	$3.66	$0.62	$0.73	8	$54.92	$69.96	$69.96	$84.99
Group 2	$37.85	$11.58	$8.26	$3.66	$0.62	$0.73	8	$62.70	$81.63	$81.63	$100.55
Truck Crane Assistant to Engineer	$32.08	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.93	$72.97	$72.97	$89.01
Assistant to Engineer	$29.80	$11.58	$8.26	$3.66	$0.62	$0.73	8	$54.65	$69.55	$69.55	$84.45
Group 3	$36.37	$11.58	$8.26	$3.66	$0.62	$0.73	8	$61.22	$79.41	$79.41	$97.59
Truck Crane Assistant to Engineer	$31.81	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.66	$72.57	$72.57	$88.47
Hydraulic	$31.42	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.27	$71.98	$71.98	$87.69
Assistant to Engineer	$29.58	$11.58	$8.26	$3.66	$0.62	$0.73	8	$54.43	$69.22	$69.22	$84.01
Group 4	$34.35	$11.58	$8.26	$3.66	$0.62	$0.73	8	$59.20	$76.38	$76.38	$93.55
Group 5	$33.05	$11.58	$8.26	$3.66	$0.62	$0.73	8	$57.90	$74.43	$74.43	$90.95

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the determination, issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] Saturday in the same work week may be worked at straight-time rates if a job is shut down during the normal work week due to inclement weather.

[b] Rate applies to the first 2 daily overtime hours and the first 8 hours on Saturday only. All other time is paid at the Sunday/Holiday overtime rate.

[c] For Building Construction, see page 40B

[d] Includes an amount for supplemental dues.

[e] When three shifts are employed for five (5) or more consecutive days, seven and one-half (7 1/2) consecutive hours (exclusive of meal period), shall constitute a day of work, for which eight (8) times the straight time hourly rate shall be paid at the non-shift wage rate for the second shift. The third shift shall be seven (7) hours of work for eight (8) hours of pay at the non-shift wage rate.

GROUP 1
Cranes over 100 tons
Derrick over 100 tons
Self Propelled Boom Type Lifting Device over 100 tons

GROUP 2
Cranes over 45 tons up to and including 100 tons
Derrick, 100 tons and under
Self Propelled Boom Type Lifting Device, over 45 tons
Tower Crane

GROUP 3
Cranes, 45 tons and under
Self Propelled Boom Type Lifting Device, 45 tons and under

GROUP 4
Chicago Boom
Forklift, 10 tons and over
Heavy Duty Repairman/Welder

GROUP 5
Boom Cat

NOTE: For Special Single and Second Shift rates, please see page 45A.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: #STEEL ERECTOR AND FABRICATOR (OPERATING ENGINEER-HEAVY AND HIGHWAY WORK)
(SPECIAL SINGLE AND SECOND SHIFT)

DETERMINATION: NC-23-63-1-2011-1D
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 24, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba counties.

			Employer Payments				Straight-Time		Overtime Hourly Rate		
Classification (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension	Vacation and Holiday[d]	Training	Other Payments	Hours	Total Hourly Rate	Daily[b] 1 1/2X	Saturday[a&b] 1 1/2X	Sunday and Holiday 2X
Group 1	$44.17	$11.58	$8.26	$3.66	$0.62	$0.73	8	$69.02	$91.11	$91.11	$113.19
Truck Crane Assistant to Engineer	$35.94	$11.58	$8.26	$3.66	$0.62	$0.73	8	$60.79	$78.76	$78.76	$96.73
Assistant to Engineer	$33.42	$11.58	$8.26	$3.66	$0.62	$0.73	8	$58.27	$74.98	$74.98	$91.69
Group 2	$42.19	$11.58	$8.26	$3.66	$0.62	$0.73	8	$67.04	$88.14	$88.14	$109.23
Truck Crane Assistant to Engineer	$35.69	$11.58	$8.26	$3.66	$0.62	$0.73	8	$60.54	$78.39	$78.39	$96.23
Assistant to Engineer	$33.14	$11.58	$8.26	$3.66	$0.62	$0.73	8	$57.99	$74.56	$74.56	$91.13
Group 3	$40.51	$11.58	$8.26	$3.66	$0.62	$0.73	8	$65.36	$85.62	$85.62	$105.87
Truck Crane Assistant to Engineer	$35.39	$11.58	$8.26	$3.66	$0.62	$0.73	8	$60.24	$77.94	$77.94	$95.63
Hydraulic	$34.96	$11.58	$8.26	$3.66	$0.62	$0.73	8	$59.81	$77.29	$77.29	$94.77
Assistant to Engineer	$32.88	$11.58	$8.26	$3.66	$0.62	$0.73	8	$57.73	$74.17	$74.17	$90.61
Group 4	$38.25	$11.58	$8.26	$3.66	$0.62	$0.73	8	$63.10	$82.23	$82.23	$101.35
Group 5	$36.78	$11.58	$8.26	$3.66	$0.62	$0.73	8	$61.63	$80.02	$80.02	$98.41

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the determination, issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] Saturday in the same work week may be worked at straight-time rates if a job is shut down during the normal work week due to inclement weather.

[b] Rate applies to the first 2 daily overtime hours and the first 8 hours on Saturday only. All other time is paid at the Sunday/Holiday overtime rate.

[c] For Building Construction, see page 40B

[d] Includes an amount for supplemental dues.

GROUP 1
Cranes over 100 tons
Derrick over 100 tons
Self Propelled Boom Type Lifting Device over 100 tons

GROUP 2
Cranes over 45 tons up to and including 100 tons
Derrick, 100 tons and under
Self Propelled Boom Type Lifting Device, over 45 tons
Tower Crane

GROUP 3
Cranes, 45 tons and under
Self Propelled Boom Type Lifting Device, 45 tons and under

GROUP 4
Chicago Boom
Forklift, 10 tons and over
Heavy Duty Repairman/Welder

GROUP 5
Boom Cat

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: LIGHT FIXTURE MAINTENANCE

DETERMINATION: NC-61-X-6-2011-2
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, El Dorado, Fresno, Glenn, Kings, Lake, Lassen, Madera, Marin, Mendocino, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Solano, Sonoma, Sutter, Tehama, Trinity, Tulare, Yolo and Yuba counties.

		Employer Payments				Straight-Time		Overtime Hourly Rate		
Classification (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension[a]	Vacation and Holiday	Training	Hours	Total Hourly Rate	Daily 1 1/2X	6th & 7th Workday 1 1/2X	Holiday 2X
Fixture Washer: Start	$ 18.03	$7.85	$.54	$.62	--	8	$27.04	$36.325	$36.325	$45.61
3 – 6 Months	19.85	7.85	.60	.69	--	8	28.99	39.215	39.215	49.44
6 Months or More	21.03	7.85	.63	.73	--	8	30.24	41.070	41.070	51.90
Serviceman										
0 – 12 Months	23.10	7.85	.69	.80	--	8	32.44	44.335	44.335	56.23
12 Months or More	24.46	7.85	.73	.85	--	8	33.89	46.485	46.485	59.08

[a] 3% of the Basic Hourly Rate for the National Employees Benefit Fund which is factored at the applicable overtime multiplier.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: #PILE DRIVER (OPERATING ENGINEER-HEAVY AND HIGHWAY WORK)

DETERMINATION: NC-23-63-1-2011-1B
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 24, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba counties.

			Employer Payments				Straight-Time		Overtime Hourly Rate		
Classification (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension	Vacation and Holiday[b]	Training	Other Payments	Hours[d]	Total Hourly Rate	Daily[c] 1 1/2X	Saturday[a] 1 1/2X	Sunday and Holiday 2X
Group 1	$38.99	$11.58	$8.26	$3.66	$0.62	$0.73	8	$63.84	$83.34	$83.34	$102.83
Truck Crane Assistant to Engineer	$32.01	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.86	$72.87	$72.87	$88.87
Assistant to Engineer	$29.73	$11.58	$8.26	$3.66	$0.62	$0.73	8	$54.58	$69.45	$69.45	$84.31
Group 2	$37.17	$11.58	$8.26	$3.66	$0.62	$0.73	8	$62.02	$80.61	$80.61	$99.19
Truck Crane Assistant to Engineer	$31.76	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.61	$72.49	$72.49	$88.37
Assistant to Engineer	$29.46	$11.58	$8.26	$3.66	$0.62	$0.73	8	$54.31	$69.04	$69.04	$83.77
Group 3	$35.49	$11.58	$8.26	$3.66	$0.62	$0.73	8	$60.34	$78.09	$78.09	$95.83
Truck Crane Assistant to Engineer	$31.47	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.32	$72.06	$72.06	$87.79
Assistant to Engineer	$29.24	$11.58	$8.26	$3.66	$0.62	$0.73	8	$54.09	$68.71	$68.71	$83.33
Group 4	$33.72	$11.58	$8.26	$3.66	$0.62	$0.73	8	$58.57	$75.43	$75.43	$92.29
Group 6	$31.08	$11.58	$8.26	$3.66	$0.62	$0.73	8	$55.93	$71.47	$71.47	$87.01
Group 8	$28.85	$11.58	$8.26	$3.66	$0.62	$0.73	8	$53.70	$68.13	$68.13	$82.55

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the determination, issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] Saturday in the same work week may be worked at straight-time rates if a job is shut down during the normal work week due to inclement weather.

[b] Includes an amount for supplemental dues.

[c] Rate applies to the first 2 daily overtime hours only. All other time is paid at the double time rate.

[d] When three shifts are employed for five (5) or more consecutive days, seven and one-half (7 1/2) consecutive hours (exclusive of meal period), shall constitute a day of work, for which eight (8) times the straight time hourly rate shall be paid at the non-shift wage rate for the second shift. The third shift shall be seven (7) hours of work for eight (8) hours of pay at the non-shift wage rate.

GROUP 1
Clamshells Over 7 Cu Yds
Derrick Barge Pedestal Mounted Over 100 Tons
Self Propelled Boom Type Lifting Device Over 100 Tons
Truck Crane Or Crawler, Land Or Barge Mounted Over 100 Tons

GROUP 2
Clamshells Up To And Including 7 Cu Yds
Derrick Barge Pedestal Mounted 45 Tons Up To And Including 100 Tons
Fundex F-12 Hydraulic Pile Rig
Self Propelled Boom Type Lifting Device Over 45 Tons
Truck Crane Or Crawler, Land Or Barge Mounted, Over 45 Tons Up To And Including 100 Tons

GROUP 3
Derrick Barge Pedestal Mounted Under 45 Tons
Self Propelled Boom Type Lifting Device 45 Tons And Under
Shid/Scow Piledriver, Any Tonnage
Truck Crane Or Crawler, Land Or Barge Mounted 45 Tons And Under

GROUP 4
Assistant Operator
Forklift, 10 Tons And Over
Heavy Duty Repairman/Welder

GROUP 6
Deck Engineer

GROUP 8
Deckhand
Fireman

NOTE: For Special Single and Second Shift rates, please see page 47B.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: #PILE DRIVER (OPERATING ENGINEER-HEAVY AND HIGHWAY WORK)
(SPECIAL SINGLE AND SECOND SHIFT)

DETERMINATION: NC-23-63-1-2011-1B
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 24, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba counties.

			Employer Payments				Straight-Time		Overtime Hourly Rate		
Classification (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension	Vacation and Holiday[b]	Training	Other Payments	Hours	Total Hourly Rate	Daily[c] 1 1/2X	Saturday[a] 1 1/2X	Sunday and Holiday 2X
Group 1	$43.46	$11.58	$8.26	$3.66	$0.62	$0.73	8	$68.31	$90.04	$90.04	$111.77
Truck Crane Assistant to Engineer	$35.61	$11.58	$8.26	$3.66	$0.62	$0.73	8	$60.46	$78.27	$78.27	$96.07
Assistant to Engineer	$33.04	$11.58	$8.26	$3.66	$0.62	$0.73	8	$57.89	$74.41	$74.41	$90.93
Group 2	$41.41	$11.58	$8.26	$3.66	$0.62	$0.73	8	$66.26	$86.97	$86.97	$107.67
Truck Crane Assistant to Engineer	$35.34	$11.58	$8.26	$3.66	$0.62	$0.73	8	$60.19	$77.86	$77.86	$95.53
Assistant to Engineer	$32.74	$11.58	$8.26	$3.66	$0.62	$0.73	8	$57.59	$73.96	$73.96	$90.33
Group 3	$39.53	$11.58	$8.26	$3.66	$0.62	$0.73	8	$64.38	$84.15	$84.15	$103.91
Truck Crane Assistant to Engineer	$35.01	$11.58	$8.26	$3.66	$0.62	$0.73	8	$59.86	$77.37	$77.37	$94.87
Assistant to Engineer	$32.50	$11.58	$8.26	$3.66	$0.62	$0.73	8	$57.35	$73.60	$73.60	$89.85
Group 4	$37.53	$11.58	$8.26	$3.66	$0.62	$0.73	8	$62.38	$81.15	$81.15	$99.91
Group 6	$34.56	$11.58	$8.26	$3.66	$0.62	$0.73	8	$59.41	$76.69	$76.69	$93.97
Group 8	$32.06	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.91	$72.94	$72.94	$88.97

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the determination, issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] Saturday in the same work week may be worked at straight-time rates if a job is shut down during the normal work week due to inclement weather.

[b] Includes an amount for supplemental dues.

[c] Rate applies to the first 2 daily overtime hours only. All other time is paid at the double time rate.

GROUP 1
Clamshells Over 7 Cu Yds
Derrick Barge Pedestal Mounted Over 100 Tons
Self Propelled Boom Type Lifting Device Over 100 Tons
Truck Crane Or Crawler, Land Or Barge Mounted Over 100 Tons

GROUP 2
Clamshells Up To And Including 7 Cu Yds
Derrick Barge Pedestal Mounted 45 Tons Up To And Including 100 Tons
Fundex F-12 Hydraulic Pile Rig
Self Propelled Boom Type Lifting Device Over 45 Tons
Truck Crane Or Crawler, Land Or Barge Mounted, Over 45 Tons
Up To And Including 100 Tons

GROUP 3
Derrick Barge Pedestal Mounted Under 45 Tons
Self Propelled Boom Type Lifting Device 45 Tons And Under
Shid/Scow Piledriver, Any Tonnage
Truck Crane Or Crawler, Land Or Barge Mounted 45 Tons And Under

GROUP 4
Assistant Operator
Forklift, 10 Tons And Over
Heavy Duty Repairman/Welder

GROUP 6
Deck Engineer

GROUP 8
Deckhand
Fireman

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: #PILE DRIVER (OPERATING ENGINEER-BUILDING CONSTRUCTION)

DETERMINATION: NC-23-63-1-2011-1B1
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 24, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774

LOCALITY: All localities within Alpine, Amador, Butte, Calaveras, Colusa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Joaquin, Santa Cruz, Shasta, Sierra, Siskiyou, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba counties.

			Employer Payments				Straight-Time		Overtime Hourly Rate		
Classification[b] (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension	Vacation and Holiday[c]	Training	Other Payments	Hours[d]	Total Hourly Rate	Daily 1 1/2X	Saturday[a] 1 1/2X	Sunday and Holiday 2X
Group 1	$37.51	$11.58	$8.26	$3.66	$0.62	$0.73	8	$62.36	$81.12	$81.12	$99.87
Truck Crane Assistant to Engineer	$30.86	$11.58	$8.26	$3.66	$0.62	$0.73	8	$55.71	$71.14	$71.14	$86.57
Assistant to Engineer	$28.69	$11.58	$8.26	$3.66	$0.62	$0.73	8	$53.54	$67.89	$67.89	$82.23
Group 2	$35.80	$11.58	$8.26	$3.66	$0.62	$0.73	8	$60.65	$78.55	$78.55	$96.45
Truck Crane Assistant to Engineer	$30.63	$11.58	$8.26	$3.66	$0.62	$0.73	8	$55.48	$70.80	$70.80	$86.11
Assistant to Engineer	$28.44	$11.58	$8.26	$3.66	$0.62	$0.73	8	$53.29	$67.51	$67.51	$81.73
Group 3	$34.19	$11.58	$8.26	$3.66	$0.62	$0.73	8	$59.04	$76.14	$76.14	$93.23
Truck Crane Assistant to Engineer	$30.36	$11.58	$8.26	$3.66	$0.62	$0.73	8	$55.21	$70.39	$70.39	$85.57
Assistant to Engineer	$28.21	$11.58	$8.26	$3.66	$0.62	$0.73	8	$53.06	$67.17	$67.17	$81.27
Group 4	$32.49	$11.58	$8.26	$3.66	$0.62	$0.73	8	$57.34	$73.59	$73.59	$89.83
Group 6	$29.99	$11.58	$8.26	$3.66	$0.62	$0.73	8	$54.84	$69.84	$69.84	$84.83
Group 8	$27.85	$11.58	$8.26	$3.66	$0.62	$0.73	8	$52.70	$66.63	$66.63	$80.55

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the determination, issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] Saturday in the same work week may be worked at straight-time rates if a job is shut down during the normal work week due to inclement weather.

[b] For classifications within each group, see page 47.

[c] Includes an amount for supplemental dues.

[d] When three shifts are employed for five (5) or more consecutive days, seven and one-half (7 1/2) consecutive hours (exclusive of meal period), shall constitute a day of work, for which eight (8) times the straight time hourly rate shall be paid at the non-shift wage rate for the second shift. The third shift shall be seven (7) hours of work for eight (8) hours of pay at the non-shift wage rate.

NOTE: For Special Single and Second Shift rates, please see page 47C.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

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GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: #PILE DRIVER (OPERATING ENGINEER-BUILDING CONSTRUCTION)
(SPECIAL SINGLE AND SECOND SHIFT)

DETERMINATION: NC-23-63-1-2011-1B1
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 24, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774

LOCALITY: All localities within Alpine, Amador, Butte, Calaveras, Colusa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Joaquin, Santa Cruz, Shasta, Sierra, Siskiyou, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba counties.

			Employer Payments				Straight-Time		Overtime Hourly Rate		
Classification[b] (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension	Vacation and Holiday[c]	Training	Other Payments	Hours	Total Hourly Rate	Daily 1 1/2X	Saturday[a] 1 1/2X	Sunday and Holiday 2X
Group 1	$41.80	$11.58	$8.26	$3.66	$0.62	$0.73	8	$66.65	$87.55	$87.55	$108.45
Truck Crane Assistant to Engineer	$34.32	$11.58	$8.26	$3.66	$0.62	$0.73	8	$59.17	$76.33	$76.33	$93.49
Assistant to Engineer	$31.88	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.73	$72.67	$72.67	$88.61
Group 2	$39.86	$11.58	$8.26	$3.66	$0.62	$0.73	8	$64.71	$84.64	$84.64	$104.57
Truck Crane Assistant to Engineer	$34.07	$11.58	$8.26	$3.66	$0.62	$0.73	8	$58.92	$75.96	$75.96	$92.99
Assistant to Engineer	$31.60	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.45	$72.25	$72.25	$88.05
Group 3	$38.07	$11.58	$8.26	$3.66	$0.62	$0.73	8	$62.92	$81.96	$81.96	$100.99
Truck Crane Assistant to Engineer	$33.76	$11.58	$8.26	$3.66	$0.62	$0.73	8	$58.61	$75.49	$75.49	$92.37
Assistant to Engineer	$31.33	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.18	$71.85	$71.85	$87.51
Group 4	$36.14	$11.58	$8.26	$3.66	$0.62	$0.73	8	$60.99	$79.06	$79.06	$97.13
Group 6	$33.33	$11.58	$8.26	$3.66	$0.62	$0.73	8	$58.18	$74.85	$74.85	$91.51
Group 8	$30.94	$11.58	$8.26	$3.66	$0.62	$0.73	8	$55.79	$71.26	$71.26	$86.73

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the determination, issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] Saturday in the same work week may be worked at straight-time rates if a job is shut down during the normal work week due to inclement weather.

[b] For classifications within each group, see page 47.

[c] Includes an amount for supplemental dues.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: #LABORER AND RELATED CLASSIFICATIONS

DETERMINATION: NC-23-102-1-2011-2
ISSUE DATE: AUGUST 22, 2011
EXPIRATION DATE OF DETERMINATION: JUNE 30, 2012* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after ten days after the expiration date if no subsequent determination is issued.
LOCALITY: ALL LOCALITIES WITHIN ALAMEDA, ALPINE, AMADOR, BUTTE, CALAVERAS, COLUSA, CONTRA COSTA, DEL NORTE, EL DORADO, FRESNO, GLENN, HUMBOLDT, KINGS, LAKE, LASSEN, MADERA, MARIPOSA, MARIN, MENDOCINO, MERCED, MODOC, MONTEREY, NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, SHASTA, SIERRA, SISKIYOU, SOLANO, SONOMA, STANISLAUS, SUTTER, TEHAMA, TRINITY, TULARE, TUOLUMNE, YOLO, AND YUBA COUNTIES.

Classification[a] (Journeyperson)	Basic Hourly Rate[h]	Employer Payments: Health and Welfare	Pension	Vacation and Holiday	Training	Other Payments	Straight-Time Hours[g]	Total Hourly Rate	Overtime Hourly Rate: Daily 1 1/2X	Saturday[b] 1 1/2X	Sunday/ Holiday 2X
AREA 1[c]											
Construction Specialist	27.84	6.54	7.55	2.48	0.34	0.13	8	44.88	58.80	58.80	72.72
Group 1; Group 1(B)[f]	27.14	6.54	7.55	2.48	0.34	0.13	8	44.18	57.75	57.75	71.32
Group 1 (A)	27.36	6.54	7.55	2.48	0.34	0.13	8	44.40	58.08	58.08	71.76
Group 1 (C)	27.19	6.54	7.55	2.48	0.34	0.13	8	44.23	57.83	57.83	71.42
Group 1 (E)	27.69	6.54	7.55	2.48	0.34	0.13	8	44.73	58.58	58.58	72.42
Group 1 (F-1)	27.72	6.54	7.55	2.48	0.34	0.13	8	44.76	58.62	58.62	72.48
Group 1 (F-2)	26.74	6.54	7.55	2.48	0.34	0.13	8	43.78	57.15	57.15	70.52
Group 1 (G)	27.34	6.54	7.55	2.48	0.34	0.13	8	44.38	58.05	58.05	71.72
Group 2	26.99	6.54	7.55	2.48	0.34	0.13	8	44.03	57.53	57.53	71.02
Group 3; Group 3(A)	26.89	6.54	7.55	2.48	0.34	0.13	8	43.93	57.38	57.38	70.82
Group 4; Group 6(B)	20.58	6.54	7.55	2.48	0.34	0.13	8	37.62	47.91[d]	47.91[d]	58.20[d]
Group 5[e]	12.90	6.54	7.55	2.48	0.34	0.13	8	29.94	36.39	36.39	42.84
Group 6	28.10	6.54	7.55	2.48	0.34	0.13	8	45.14	59.19	59.19	73.24
Group 6 (A)	27.60	6.54	7.55	2.48	0.34	0.13	8	44.64	58.44	58.44	72.24
Group 6 (C)	27.01	6.54	7.55	2.48	0.34	0.13	8	44.05	57.56	57.56	71.06
Group 7 – Stage 1 (1st 6 months)	18.82	6.54	7.55	2.48	0.34	0.13	8	35.86	45.27	45.27	54.68
Stage 2 (2nd 6 months)	21.51	6.54	7.55	2.48	0.34	0.13	8	38.55	49.31	49.31	60.06
Stage 3 (3rd 6 months)	24.20	6.54	7.55	2.48	0.34	0.13	8	41.24	53.34	53.34	65.44
AREA 2[c]											
Construction Specialist	26.84	6.54	7.55	2.48	0.34	0.13	8	43.88	57.30	57.30	70.72
Group 1; Group 1(B)[f]	26.14	6.54	7.55	2.48	0.34	0.13	8	43.18	56.25	56.25	69.32
Group 1 (A)	26.36	6.54	7.55	2.48	0.34	0.13	8	43.40	56.58	56.58	69.76
Group 1 (C)	26.19	6.54	7.55	2.48	0.34	0.13	8	43.23	56.33	56.33	69.42
Group 1 (E)	26.69	6.54	7.55	2.48	0.34	0.13	8	43.73	57.08	57.08	70.42
Group 1 (F-1)	26.72	6.54	7.55	2.48	0.34	0.13	8	43.76	57.12	57.12	70.48
Group 1 (F-2)	25.74	6.54	7.55	2.48	0.34	0.13	8	42.78	55.65	55.65	68.52
Group 2	25.99	6.54	7.55	2.48	0.34	0.13	8	43.03	56.03	56.03	69.02
Group 3; Group 3(A)	25.89	6.54	7.55	2.48	0.34	0.13	8	42.93	55.88	55.88	68.82
Group 4; Group 6(B)	19.58	6.54	7.55	2.48	0.34	0.13	8	36.62	46.41[d]	46.41[d]	56.20[d]
Group 5[e]	12.90	6.54	7.55	2.48	0.34	0.13	8	29.94	36.39	36.39	42.84
Group 6	27.10	6.54	7.55	2.48	0.34	0.13	8	44.14	57.69	57.69	71.24
Group 6 (A)	26.60	6.54	7.55	2.48	0.34	0.13	8	43.64	56.94	56.94	70.24
Group 6 (C)	26.01	6.54	7.55	2.48	0.34	0.13	8	43.05	56.06	56.06	69.06
Group 7 – Stage 1 (1st 6 months)	18.12	6.54	7.55	2.48	0.34	0.13	8	35.16	44.22	44.22	53.28
Stage 2 (2nd 6 months)	20.71	6.54	7.55	2.48	0.34	0.13	8	37.75	48.11	48.11	58.46
Stage 3 (3rd 6 months)	23.30	6.54	7.55	2.48	0.34	0.13	8	40.34	51.99	51.99	63.64

PLEASE GO TO PAGE 50 FOR CLASSIFICATIONS WITHIN EACH GROUP

# INDICATES AN APPRENTICEABLE CRAFT. EFFECTIVE AS OF JULY 1, 2008, THE ISSUANCE AND PUBLICATION OF THE PREVAILING WAGE APPRENTICE SCHEDULES/APPRENTICE WAGE RATES HAVE BEEN REASSIGNED BY THE DEPARTMENT OF INDUSTRIAL RELATIONS FROM THE DIVISION OF LABOR STATISTICS AND RESEARCH TO THE DIVISION OF APPRENTICESHIP STANDARDS. TO OBTAIN ANY APPRENTICE SCHEDULES/APPRENTICE WAGE RATES, PLEASE CONTACT THE DIVISION OF APPRENTICESHIP STANDARDS OR REFER TO THE DIVISION OF APPRENTICESHIP STANDARDS' WEBSITE AT HTTP://WWW.DIR.CA.GOV/DAS/DAS.HTML.

a GROUP 1(D) - MAINTENANCE OR REPAIR TRACKMEN AND ROAD BEDS AND ALL EMPLOYEES PERFORMING WORK COVERED BY THIS CLASSIFICATION SHALL RECEIVE $0.25 PER PER HOUR ABOVE THEIR REGULAR RATE FOR ALL WORK PERFORMED ON UNDERGROUND STRUCTURES NOT SPECIFICALLY COVERED HEREIN. THIS SHALL NOT APPLY TO WORK BELOW GROUND LEVEL IN OPEN CUT. THIS SHALL APPLY TO CUT AND COVER WORK OF SUBWAY CONSTRUCTION AFTER TEMPORARY COVER HAS BEEN PLACED.

GROUP 1(H) - ALL LABORERS WORKING OFF OR WITH OR FROM BOS'N CHAIRS, SWINGING SCAFFOLDS, BELTS RECEIVE $0.25 PER HOUR ABOVE THEIR APPLICABLE WAGE RATE. THIS SHALL NOT APPLY TO LABORERS ENTITLED TO RECEIVE THE WAGE RATE SET FORTH IN GROUP 1(A).

b SATURDAYS IN THE SAME WORK WEEK MAY BE WORKED AT STRAIGHT-TIME IF JOB IS SHUT DOWN DURING THE NORMAL WORK WEEK DUE TO INCLEMENT WEATHER, MAJOR MECHANICAL BREAKDOWN OR LACK OF MATERIALS BEYOND THE CONTROL OF THE EMPLOYER.

c **AREA 1** - ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO, SAN MATEO, AND SANTA CLARA COUNTIES.

AREA 2 - ALPINE, AMADOR, BUTTE, CALAVERAS, COLUSA, DEL NORTE, EL DORADO, FRESNO, GLENN, HUMBOLDT, KINGS, LAKE, LASSEN, MADERA, MARIPOSA, MENDOCINO, MERCED, MODOC, MONTEREY, NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, SHASTA, SIERRA, SISKIYOU, SOLANO, SONOMA, STANISLAUS, SUTTER, TEHAMA, TRINITY, TULARE, TUOLUMNE, YOLO AND YUBA COUNTIES.

d SERVICE LANDSCAPE LABORER ON NEW CONSTRUCTION MAY WORK ANY FIVE (5) DAYS WITHIN A WEEK.

e AN INDIVIDUAL EMPLOYER MAY EMPLOY TWO ENTRY LEVEL LABORERS FOR EVERY FOUR (4) REGULAR LABORERS ON EACH JOB OR PROJECT. ENTRY LEVEL LABORERS RECEIVE NO PREDETERMINED INCREASES. THIS RATIO OF ENTRY LEVEL LABORERS TO REGULAR LABORERS APPLIES ONLY TO WORK ON THE SAME JOB SITE.

f GROUP 1(B) RECEIVES AN ADDITIONAL AMOUNT EACH DAY. SEE PAGE 50 FOR DETAILS.

g WHEN THREE SHIFTS ARE EMPLOYED FOR FIVE (5) OR MORE CONSECUTIVE DAYS, SEVEN AND ONE-HALF (7 ½) CONSECUTIVE HOURS (EXCLUSIVE OF MEAL PERIOD), SHALL CONSTITUTE A DAY OF WORK, FOR WHICH EIGHT (8) TIMES THE STRAIGHT TIME HOURLY RATE SHALL BE PAID AT THE NON-SHIFT WAGE RATE FOR THE SECOND SHIFT. THE THIRD SHIFT SHALL BE SEVEN (7) HOURS OF WORK FOR EIGHT (8) HOURS PAY AT THE NON-SHIFT WAGE RATE.

h ZONE PAY AT THREE DOLLARS ($3.00) PER HOUR, FACTORED AT THE APPLICABLE OVERTIME MULTIPLE, WILL BE ADDED TO THE BASE RATE FOR WORK PERFORMED OUTSIDE THE FREE ZONE DESCRIBED BY THE BOUNDARIES ALONG TOWNSHIP AND RANGE LINES. PLEASE SEE TRAVEL AND SUBSISTENCE PROVISION FOR MAP DESCRIPTION AND EXCEPTIONS.

RECOGNIZED HOLIDAYS: HOLIDAYS UPON WHICH THE GENERAL PREVAILING HOURLY WAGE RATE FOR HOLIDAY WORK SHALL BE PAID, SHALL BE ALL HOLIDAYS IN THE COLLECTIVE BARGAINING AGREEMENT, APPLICABLE TO THE PARTICULAR CRAFT, CLASSIFICATION, OR TYPE OF WORKER EMPLOYED ON THE PROJECT, WHICH IS ON FILE WITH THE DIRECTOR OF INDUSTRIAL RELATIONS. IF THE PREVAILING RATE IS NOT BASED ON A COLLECTIVELY BARGAINED RATE, THE HOLIDAYS UPON WHICH THE PREVAILING RATE SHALL BE PAID SHALL BE AS PROVIDED IN SECTION 6700 OF THE GOVERNMENT CODE. YOU MAY OBTAIN THE HOLIDAY PROVISIONS FOR THE CURRENT DETERMINATIONS ON THE INTERNET AT HTTP://WWW.DIR.CA.GOV/DLSR/PWD. HOLIDAY PROVISIONS FOR CURRENT OR SUPERSEDED DETERMINATIONS MAY BE OBTAINED BY CONTACTING THE PREVAILING WAGE UNIT AT (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: IN ACCORDANCE WITH LABOR CODE SECTIONS 1773.1 AND 1773.9, CONTRACTORS SHALL MAKE TRAVEL AND/OR SUBSISTENCE PAYMENTS TO EACH WORKER TO EXECUTE THE WORK. YOU MAY OBTAIN THE TRAVEL AND/OR SUBSISTENCE REQUIREMENTS FOR THE CURRENT DETERMINATION ON THE INTERNET AT HTTP://WWW.DIR.CA.GOV/DLSR/PWD.

DETERMINATION: NC-23-102-1-2011-2 and NC-23-102-1-2011-2A

CONSTRUCTION SPECIALIST
ASPHALT IRONERS AND RAKERS
CHAINSAW
LASER BEAM IN CONNECTION WITH LABORER'S WORK
MASONRY AND PLASTER TENDER
CAST IN PLACE MANHOLE FORM SETTERS
PRESSURE PIPELAYERS
DAVIS TRENCHER – 300 OR SIMILAR TYPE (AND ALL SMALL TRENCHERS)
STATE LICENSED BLASTERS AS DESIGNATED
DIAMOND DRILLERS
MULTIPLE UNIT DRILLS
HYDRAULIC DRILLS
CERTIFIED WELDER

GROUP 1 (FOR CONTRA COSTA COUNTY ONLY, USE GROUP 1 (G) FOR SOME OF THE FOLLOWING CLASSIFICATIONS)
ASPHALT SPREADER BOXES (ALL TYPES)
BARKO, WACKER AND SIMILAR TYPE TAMPERS
BUGGYMOBILE
CAULKERS, BANDERS, PIPEWRAPPERS, CONDUIT LAYERS, PLASTIC PIPE LAYERS
CERTIFIED ASBESTOS AND MOLD REMOVAL WORKER
CERTIFIED HAZARDOUS WASTE WORKER (INCLUDING LEAD ABATEMENT)
COMPACTORS OF ALL TYPES
CONCRETE AND MAGNESITE MIXER AND ½ YARD
CONCRETE PAN WORK
CONCRETE SANDERS, CONCRETE SAW
CRIBBERS AND/OR SHORING
CUT GRANITE CURB SETTER
DRI PAK-IT MACHINE
FALLER, LOGLOADER AND BUCKER
FORM RAISERS, SLIP FORMS
GREEN CUTTERS
HEADERBOARD MEN, HUBSETTERS, ALIGNERS BY ANY METHOD
HIGH PRESSURE BLOW PIPE (1-1/2" OR OVER, 100 LBS. PRESSURE/OVER)
HYDRO SEEDER AND SIMILAR TYPE
JACKHAMMER OPERATORS
JACKING OF PIPE OVER 12 INCHES
JACKSON AND SIMILAR TYPE COMPACTORS
KETTLEMEN, POTMEN, AND MEN APPLYING ASPHALT, LAY-KOLD, CREOSOTE, LIME, CAUSTIC AND SIMILAR TYPE MATERIALS (APPLYING MEANS APPLYING DIPPING, OR HANDLING OF SUCH MATERIALS)
LAGGING, SHEETING, WHALING, BRACING, TRENCH-JACKING, LAGGING HAMMER
MAGNESITE, EPOXY RESIN, FIBER GLASS AND MASTIC WORKERS (WET/DRY)
NO JOINT PIPE AND STRIPPING OF SAME, INCLUDING REPAIR OF VOIDS
PAVEMENT BREAKERS AND SPADERS, INCLUDING TOOL GRINDER
PERMA CURBS
PRECAST-MANHOLE SETTERS
PIPELAYERS (INCLUDING GRADE CHECKING IN CONNECTION WITH PIPELAYING)
PRESSURE PIPE TESTER
POST HOLE DIGGERS-AIR, GAS, AND ELECTRIC POWER BROOM SWEEPERS
POWER TAMPERS OF ALL TYPES, EXCEPT AS SHOWN IN GROUP 2
RAM SET GUN AND STUD GUN
RIPRAP-STONEPAVER AND ROCK-SLINGER, INCLUDING PLACING OF SACKED CONCRETE AND/OR SAND (WET OR DRY) AND GABIONS AND SIMILAR TYPE
ROTARY SCARIFIER OR MULTIPLE HEAD CONCRETE CHIPPING SCARIFIER
ROTO AND DITCH WITCH
ROTOTILLER
SAND BLASTERS, POTMEN, GUNMEN, AND NOZZLEMEN
SIGNALING AND RIGGING
SKILLED WRECKER (REMOVING AND SALVAGING OF SASH, WINDOWS, DOORS, PLUMBING AND ELECTRIC FIXTURES)
TANK CLEANERS
TREE CLIMBERS
TRENCHLESS TECHNOLOGY LABORER- PIPE INSTALLATION, BURSTING, RELINING, OR SIMILAR
TRENCHLESS LABORER'S WORK, CAMERA CONTROLLER
TURBO BLASTER
VIBRA-SCREED-BULL FLOAT IN CONNECTION WITH LABORER'S WORK
VIBRATORS

GROUP 1 (A)
ALL WORK OF LOADING, PLACING AND BLASTING OF ALL POWDER & EXPLOSIVES OF WHATEVER TYPE, REGARDLESS OF METHOD USED FOR LOADING AND PLACING
JOY DRILL MODEL TWM-2A
GARDENER-DENVER MODEL DH 143 AND SIMILAR TYPE DRILLS
TRACK DRILLERS
JACK LEG DRILLERS
WAGON DRILLERS
MECHANICAL DRILLERS-ALL TYPES REGARDLESS OF TYPE OR METHOD OF POWER
MECHANICAL PIPE LAYER-ALL TYPES REGARDLESS OF TYPE OR METHOD OF POWER
BLASTERS AND POWDERMAN
HIGH SCALERS (INCLUDING DRILLING OF SAME)
TREE TOPPER
BIT GRINDER

GROUP 1 (B) -- SEE GROUP 1 RATES
SEWER CLEANERS (ANY WORKMEN WHO HANDLE OR COME IN CONTACT WITH RAW SEWAGE IN SMALL DIAMETER SEWERS) SHALL RECEIVE $4.00 PER DAY ABOVE GROUP 1 WAGE RATES. THOSE WHO WORK INSIDE RECENTLY ACTIVE, LARGE DIAMETER SEWERS, AND ALL RECENLTY ACTIVE SEWER MANHOLES SHALL RECEIVE $5.00 PER DAY ABOVE GROUP 1 WAGE RATES.

GROUP 1 (C)
BURNING AND WELDING IN CONNECTION WITH LABORER'S WORK
SYNTHETIC THERMOPLASTICS AND SIMILAR TYPE WELDING

GROUP 1 (D)
SEE FOOTNOTE A ON PAGE 49

GROUP 1 (E)
WORK ON AND/OR IN BELL HOLE FOOTINGS AND SHAFTS THEREOF, AND WORK ON AND IN DEEP FOOTINGS (DEEP FOOTINGS IS A HOLE 15 FEET OR MORE IN DEPTH)
SHAFT IS AN EXCAVATION OVER FIFTEEN (15) FEET DEEP OF ANY TYPE

GROUP 1 (F-1)
ALIGNER OF WIRE WINDING MACHINE IN CONNECTION WITH GUNITING OR SHOT CRETE

GROUP 1 (F-2)
ALIGNER HELPER OF WIRE WINDING MACHINE IN CONNECTION WITH GUNITING OR SHOT CRETE

GROUP 1 (G) APPLIES ONLY TO WORK IN CONTRA COSTA COUNTY
PIPELAYERS (INCLUDING GRADE CHECKING IN CONNECTION WITH PIPELAYING), CAULKERS, BANDERS, PIPEWRAPPERS, CONDUIT LAYERS, PLASTIC PIPE LAYER, PRESSURE PIPE TESTER, NO JOINT PIPE AND STRIPPING OF SAME, INCLUDING REPAIR OF VOIDS, PRECAST MANHOLE SETTERS, CAST IN PLACE MANHOLE FORM SETTERS IN CONTRA COSTA COUNTY ONLY

GROUP 1(H)
SEE FOOTNOTE A ON PAGE 49

GROUP 2
ASPHALT SHOVELERS
CEMENT DUMPERS AND HANDLING DRY CEMENT OR GYPSUM
CHOKE-SETTER AND RIGGER (CLEARING WORK)
CONCRETE BUCKET DUMPER AND CHUTEMAN
CONCRETE CHIPPING AND GRINDING
CONCRETE LABORERS (WET OR DRY)
DRILLERS HELPER, CHUCK TENDER, NIPPER (ONE CHUCKTENDER ON SINGLE MACHINE OPERATION WITH MINIMUM OF ONE CHUCKTENDER FOR EACH TWO MACHINES ON MULTIPLE MACHINE OPERATION. JACKHAMMERS IN NO WAY INVOLVED IN THIS ITEM.)
GUINEA CHASER (STAKEMAN), GROUT CREW
HIGH PRESSURE NOZZLEMAN, ADDUCTORS
HYDRAULIC MONITOR (OVER 100 LBS. PRESSURE)
LOADING AND UNLOADING, CARRYING AND HANDLING OF ALL RODS AND MATERIALS FOR USE IN REINFORCING CONCRETE CONSTRUCTION
PITTSBURGH CHIPPER, AND SIMILAR TYPE BRUSH SHREDDERS
SEMI-SKILLED WRECKER (SALVAGING OF OTHER BUILDING MATERIALS) – SEE ALSO SKILLED WRECKER (GROUP 1)
SLOPER
SINGLEFOOT, HAND HELD, PNEUMATIC TAMPER
ALL PNEUMATIC, AIR, GAS AND ELECTRIC TOOLS NOT LISTED IN GROUPS 1 THROUGH 1 (F)
JACKING OF PIPE-UNDER 12 INCHES

GROUP 3
CONSTRUCTION LABORERS INCLUDING BRIDGE LABORERS AND GENERAL LABORERS
DUMPMAN, LOAD SPOTTER
FLAGPERSON
FIRE WATCHER
FENCE ERECTORS, INCLUDING TEMPORARY FENCING
GUARDRAIL ERECTORS
GARDENER, HORTICULTURAL AND LANDSCAPE LABORERS (SEE GROUP 4, FOR LANDSCAPE MAINTENANCE ON NEW CONSTRUCTION DURING PLANT ESTABLISHMENT PERIOD)
JETTING
LIMBERS, BRUSH LOADERS, AND PILERS
PAVEMENT MARKERS (BUTTON SETTERS)
MAINTENANCE, REPAIR TRACKMEN AND ROAD BEDS
STREETCAR AND RAILROAD CONSTRUCTION TRACK LABORERS
TEMPORARY AIR AND WATER LINES, VICTAULIC OR SIMILAR
TOOL ROOM ATTENDANT (JOBSITE ONLY)

GROUP 3 (A) -- SEE GROUP 3 RATES
COMPOSITE CREW PERSON (OPERATION OF VEHICLES, WHEN IN CONJUNCTION WITH LABORER'S DUTIES)

GROUP 4
FINAL CLEANUP ON BUILDING CONSTRUCTION PROJECTS PRIOR TO OCCUPANCY ONLY.
CLEANING AND WASHING WINDOWS (NEW CONSTRUCTION ONLY), SERVICE LANDSCAPE LABORERS (SUCH AS GARDENER, HORTICULTURE, MOWING, TRIMMING, REPLANTING, WATERING DURING PLANT ESTABLISHMENT PERIOD) ON NEW CONSTRUTION
BRICK CLEANERS (JOB SITE ONLY)
MATERIAL CLEANERS (JOB SITE ONLY)

NOTE: AN ADDITIONAL DETERMINATION FOR LANDSCAPE MAINTENANCE WORK AFTER THE PLANT ESTABLISHMENT PERIOD OR WARRANTY PERIOD IS PUBLISHED ON PAGE 57 OF THESE GENERAL DETERMINATIONS.

GROUP 5
ENTRY LEVEL LABORERS (2000 HOURS). NOTE: ENTRY LEVEL LABORERS RECEIVE NO PREDETERMINED INCREASES

GROUP 6
STRUCTURAL NOZZLEMAN

GROUP 6 (A)
NOZZLEMAN (INCLUDING GUNMAN, POTMAN)
RODMAN
GROUNDMAN

GROUP 6 (B) -- SEE GROUP 4 RATES
GUNITE TRAINEE (ONE GUNITE LABORER SHALL BE ALLOWED FOR EACH THREE (3) JOURNEYMAN (GROUP 6, 6A, 6C, OR GENERAL LABORER) ON A CREW. IN THE ABSENCE OF THE JOURNEYMAN, THE GUNITE TRAINEE RECEIVES THE JOURNEYMAN SCALE.).
NOTE: THIS RATIO APPLIES ONLY TO WORK ON THE SAME JOB SITE.

GROUP 6 (C)
REBOUNDMAN

GROUP 7
LANDSCAPE LABORER TRAINEE (RATIO FOR TRAINEES IS ONE IN THREE. AT LEAST ONE SECOND PERIOD TRAINEE AND AT LEAST ONE THIRD PERIOD TRAINEE MUST BE EMPLOYED BEFORE EMPLOYING ANOTHER FIRST PERIOD TRAINEE).
NOTE: THIS RATIO APPLIES ONLY TO WORK ON THE SAME JOB SITE.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1
FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: #LABORER AND RELATED CLASSIFICATIONS (Special Single and Second Shift)

DETERMINATION: NC-23-102-1-2011-2A
ISSUE DATE: AUGUST 22, 2011
EXPIRATION DATE OF DETERMINATION: JUNE 30, 2012* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after ten days after the expiration date if no subsequent determination is issued.
LOCALITY: ALL LOCALITIES WITHIN ALAMEDA, ALPINE, AMADOR, BUTTE, CALAVERAS, COLUSA, CONTRA COSTA, DEL NORTE, EL DORADO, FRESNO, GLENN, HUMBOLDT, KINGS, LAKE, LASSEN, MADERA, MARIPOSA, MARIN, MENDOCINO, MERCED, MODOC, MONTEREY, NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, SHASTA, SIERRA, SISKIYOU, SOLANO, SONOMA, STANISLAUS, SUTTER, TEHAMA, TRINITY, TULARE, TUOLUMNE, YOLO, AND YUBA COUNTIES.

Classification[a] (Journeyperson)	Basic Hourly Rate[g]	Employer Payments: Health and Welfare	Pension	Vacation and Holiday	Training Payments	Other	Straight-Time: Hours	Total Hourly Rate	Overtime Hourly Rate: Daily 1 1/2X	Saturday[b] 1 1/2X	Sunday/ Holiday 2X
AREA 1 [c]											
Construction Specialist	30.84	6.54	7.55	2.48	0.34	0.13	8	47.88	63.30	63.30	78.72
Group 1; Group 1(B)[f]	30.14	6.54	7.55	2.48	0.34	0.13	8	47.18	62.25	62.25	77.32
Group 1 (A)	30.36	6.54	7.55	2.48	0.34	0.13	8	47.40	62.58	62.58	77.76
Group 1 (C)	30.19	6.54	7.55	2.48	0.34	0.13	8	47.23	62.33	62.33	77.42
Group 1 (E)	30.69	6.54	7.55	2.48	0.34	0.13	8	47.73	63.08	63.08	78.42
Group 1 (F-1)	30.72	6.54	7.55	2.48	0.34	0.13	8	47.76	63.12	63.12	78.48
Group 1 (F-2)	29.74	6.54	7.55	2.48	0.34	0.13	8	46.78	61.65	61.65	76.52
Group 1 (G)	30.34	6.54	7.55	2.48	0.34	0.13	8	47.38	62.55	62.55	77.72
Group 2	29.99	6.54	7.55	2.48	0.34	0.13	8	47.03	62.03	62.03	77.02
Group 3; Group 3(A)	29.89	6.54	7.55	2.48	0.34	0.13	8	46.93	61.88	61.88	76.82
Group 4; Group 6(B)	23.58	6.54	7.55	2.48	0.34	0.13	8	40.62	52.41[d]	52.41[d]	64.20[d]
Group 5[e]	15.90	6.54	7.55	2.48	0.34	0.13	8	32.94	40.89	40.89	48.84
Group 6	31.10	6.54	7.55	2.48	0.34	0.13	8	48.14	63.69	63.69	79.24
Group 6 (A)	30.60	6.54	7.55	2.48	0.34	0.13	8	47.64	62.94	62.94	78.24
Group 6 (C)	30.01	6.54	7.55	2.48	0.34	0.13	8	47.05	62.06	62.06	77.06
Group 7 – Stage 1 (1st 6 months)	21.82	6.54	7.55	2.48	0.34	0.13	8	38.86	49.77	49.77	60.68
Stage 2 (2nd 6 months)	24.51	6.54	7.55	2.48	0.34	0.13	8	41.55	53.81	53.81	66.06
Stage 3 (3rd 6 months)	27.20	6.54	7.55	2.48	0.34	0.13	8	44.24	57.84	57.84	71.44
AREA 2 [c]											
Construction Specialist	29.69	6.54	7.55	2.48	0.34	0.13	8	46.73	61.58	61.58	76.42
Group 1; Group 1(B)[f]	28.99	6.54	7.55	2.48	0.34	0.13	8	46.03	60.53	60.53	75.02
Group 1 (A)	29.21	6.54	7.55	2.48	0.34	0.13	8	46.25	60.86	60.86	75.46
Group 1 (C)	29.04	6.54	7.55	2.48	0.34	0.13	8	46.08	60.60	60.60	75.12
Group 1 (E)	29.54	6.54	7.55	2.48	0.34	0.13	8	46.58	61.35	61.35	76.12
Group 1 (F-1)	29.57	6.54	7.55	2.48	0.34	0.13	8	46.61	61.40	61.40	76.18
Group 1 (F-2)	28.59	6.54	7.55	2.48	0.34	0.13	8	45.63	59.93	59.93	74.22
Group 2	28.84	6.54	7.55	2.48	0.34	0.13	8	45.88	60.30	60.30	74.72
Group 3; Group 3(A)	28.74	6.54	7.55	2.48	0.34	0.13	8	45.78	60.15	60.15	74.52
Group 4; Group 6(B)	22.43	6.54	7.55	2.48	0.34	0.13	8	39.47	50.69[d]	50.69[d]	61.90[d]
Group 5[e]	15.75	6.54	7.55	2.48	0.34	0.13	8	32.79	40.67	40.67	48.54
Group 6	29.95	6.54	7.55	2.48	0.34	0.13	8	46.99	61.97	61.97	76.94
Group 6 (A)	29.45	6.54	7.55	2.48	0.34	0.13	8	46.49	61.22	61.22	75.94
Group 6 (C)	28.86	6.54	7.55	2.48	0.34	0.13	8	45.90	60.33	60.33	74.76
Group 7 – Stage 1 (1st 6 months)	20.97	6.54	7.55	2.48	0.34	0.13	8	38.01	48.50	48.50	58.98
Stage 2 (2nd 6 months)	23.56	6.54	7.55	2.48	0.34	0.13	8	40.60	52.38	52.38	64.16
Stage 3 (3rd 6 months)	26.15	6.54	7.55	2.48	0.34	0.13	8	43.19	56.27	56.27	69.34

PLEASE GO TO PAGE 50 FOR CLASSIFICATIONS WITHIN EACH GROUP

# INDICATES AN APPRENTICEABLE CRAFT. EFFECTIVE AS OF JULY 1, 2008, THE ISSUANCE AND PUBLICATION OF THE PREVAILING WAGE APPRENTICE SCHEDULES/APPRENTICE WAGE RATES HAVE BEEN REASSIGNED BY THE DEPARTMENT OF INDUSTRIAL RELATIONS FROM THE DIVISION OF LABOR STATISTICS AND RESEARCH TO THE DIVISION OF APPRENTICESHIP STANDARDS. TO OBTAIN ANY APPRENTICE SCHEDULES/APPRENTICE WAGE RATES, PLEASE CONTACT THE DIVISION OF APPRENTICESHIP STANDARDS OR REFER TO THE DIVISION OF APPRENTICESHIP STANDARDS' WEBSITE AT HTTP://WWW.DIR.CA.GOV/DAS/DAS.HTML.

a GROUP 1(D) - MAINTENANCE OR REPAIR TRACKMEN AND ROAD BEDS AND ALL EMPLOYEES PERFORMING WORK COVERED BY THIS CLASSIFICATION SHALL RECEIVE $0.25 PER PER HOUR ABOVE THEIR REGULAR RATE FOR ALL WORK PERFORMED ON UNDERGROUND STRUCTURES NOT SPECIFICALLY COVERED HEREIN. THIS SHALL NOT APPLY TO WORK BELOW GROUND LEVEL IN OPEN CUT. THIS SHALL APPLY TO CUT AND COVER WORK OF SUBWAY CONSTRUCTION AFTER TEMPORARY COVER HAS BEEN PLACED.

GROUP 1(H) - ALL LABORERS WORKING OFF OR WITH OR FROM BOS'N CHAIRS, SWINGING SCAFFOLDS, BELTS RECEIVE $0.25 PER HOUR ABOVE THEIR APPLICABLE WAGE RATE. THIS SHALL NOT APPLY TO LABORERS ENTITLED TO RECEIVE THE WAGE RATE SET FORTH IN GROUP 1(A).

b SATURDAYS IN THE SAME WORK WEEK MAY BE WORKED AT STRAIGHT-TIME IF JOB IS SHUT DOWN DURING THE NORMAL WORK WEEK DUE TO INCLEMENT WEATHER, MAJOR MECHANICAL BREAKDOWN OR LACK OF MATERIALS BEYOND THE CONTROL OF THE EMPLOYER.

c **AREA 1** - ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO, SAN MATEO, AND SANTA CLARA COUNTIES.
AREA 2 - ALPINE, AMADOR, BUTTE, CALAVERAS, COLUSA, DEL NORTE, EL DORADO, FRESNO, GLENN, HUMBOLDT, KINGS, LAKE, LASSEN, MADERA, MARIPOSA, MENDOCINO, MERCED, MODOC, MONTEREY, NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, SHASTA, SIERRA, SISKIYOU, SOLANO, SONOMA, STANISLAUS, SUTTER, TEHAMA, TRINITY, TULARE, TUOLUMNE, YOLO AND YUBA COUNTIES.

d SERVICE LANDSCAPE LABORER ON NEW CONSTRUCTION MAY WORK ANY FIVE (5) DAYS WITHIN A WEEK.

e AN INDIVIDUAL EMPLOYER MAY EMPLOY TWO ENTRY LEVEL LABORERS FOR EVERY FOUR (4) REGULAR LABORERS ON EACH JOB OR PROJECT. ENTRY LEVEL LABORERS RECEIVE NO PREDETERMINED INCREASES. THIS RATIO OF ENTRY LEVEL LABORERS TO REGULAR LABORERS APPLIES ONLY TO WORK ON THE SAME JOB SITE.

f GROUP 1(B) RECEIVES AN ADDITIONAL AMOUNT EACH DAY. SEE PAGE 50 FOR DETAILS.

g ZONE PAY AT THREE DOLLARS ($3.00) PER HOUR, FACTORED AT THE APPLICABLE OVERTIME MULTIPLE, WILL BE ADDED TO THE BASE RATE FOR WORK PERFORMED OUTSIDE THE FREE ZONE DESCRIBED BY THE BOUNDARIES ALONG TOWNSHIP AND RANGE LINES. PLEASE SEE TRAVEL AND SUBSISTENCE PROVISIONS FOR MAP DESCRIPTION AND EXCEPTIONS.

RECOGNIZED HOLIDAYS: HOLIDAYS UPON WHICH THE GENERAL PREVAILING HOURLY WAGE RATE FOR HOLIDAY WORK SHALL BE PAID, SHALL BE ALL HOLIDAYS IN THE COLLECTIVE BARGAINING AGREEMENT, APPLICABLE TO THE PARTICULAR CRAFT, CLASSIFICATION, OR TYPE OF WORKER EMPLOYED ON THE PROJECT, WHICH IS ON FILE WITH THE DIRECTOR OF INDUSTRIAL RELATIONS. IF THE PREVAILING RATE IS NOT BASED ON A COLLECTIVELY BARGAINED RATE, THE HOLIDAYS UPON WHICH THE PREVAILING RATE SHALL BE PAID SHALL BE AS PROVIDED IN SECTION 6700 OF THE GOVERNMENT CODE. YOU MAY OBTAIN THE HOLIDAY PROVISIONS FOR THE CURRENT DETERMINATIONS ON THE INTERNET AT HTTP://WWW.DIR.CA.GOV/DLSR/PWD. HOLIDAY PROVISIONS FOR CURRENT OR SUPERSEDED DETERMINATIONS MAY BE OBTAINED BY CONTACTING THE PREVAILING WAGE UNIT AT (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: IN ACCORDANCE WITH LABOR CODE SECTIONS 1773.1 AND 1773.9, CONTRACTORS SHALL MAKE TRAVEL AND/OR SUBSISTENCE PAYMENTS TO EACH WORKER TO EXECUTE THE WORK. YOU MAY OBTAIN THE TRAVEL AND/OR SUBSISTENCE REQUIREMENTS FOR THE CURRENT DETERMINATION ON THE INTERNET AT HTTP://WWW.DIR.CA.GOV/DLSR/PWD.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: TUNNEL WORKER (LABORER)

DETERMINATION: NC-23-102-11-2011-2
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 30, 2012* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

Classification (Journeyperson)	Basic Hourly Rate	Employer Payments: Health and Welfare	Pension	Vacation/ Holiday[a]	Training	Other Payments[b]	Straight-Time Hours[c]	Total Hourly Rate	Overtime Hourly Rate: Daily 1 1/2X	Saturday[d] 1 1/2X	Sunday and Holiday
Diamond driller, groundman, gunite or shotcrete nozzleman	$33.35	6.54	7.55	2.48	0.80	0.13	8	50.85	67.525	67.525	84.20
Rodman, shaft work and raise (below actual or excavated ground level)	$33.12	6.54	7.55	2.48	0.80	0.13	8	50.62	67.18	67.18	83.74
Bit grinder, blaster, driller, powderman-heading, cherry pickerman-where car is lifted, concrete finisher in tunnel, concrete/screed man, grout pumpman and potman, gunite and shotcrete gunman and potman, headerman, high pressure nozzleman, miner-tunnel, including top and bottom man on shaft and raise work, nipper, nozzleman on slick line, sandblaster-potman (work assignment interchangeable)	$32.87	6.54	7.55	2.48	0.80	0.13	8	50.37	66.805	66.805	83.24
Steel form raiser and setter, timberman, retimberman (wood or steel or substitute materials), tugger, cabletender, chucktender, powderman-primer house	$32.87	6.54	7.55	2.48	0.80	0.13	8	50.37	66.805	66.805	83.24
Vibratorman, pavement breaker, bull gang-mucker, trackman, concrete crew-including rodding and spreading	$32.42	6.54	7.55	2.48	0.80	0.13	8	49.92	66.13	66.13	82.34
Dumpman (any method), grout crew, reboundman, swamper/brakeman, watchman	$31.88	6.54	7.55	2.48	0.80	0.13	8	49.38	65.32	65.32	81.26

When designated by an employer, state licensed blaster receives $.50 per hour above miner's rate.

Note: Rates for tunnel workers working in compressed air as well as their support classifications are available by request. Please contact the Division of Labor Statistics and Research at (415) 703-4774.

[a] Includes an amount for supplemental dues.
[b] Amount is for Contract Administration Fund $0.08 and Industry Stabilization Fund $0.05.
[c] Saturdays in the same work week may be worked at straight-time if job is shut down during the normal workweek due to inclement weather. Excludes Alameda, Contra Costa, and San Francisco Counties.
[d] All work performed on Saturdays, Sundays and Holidays shall be paid for at double (2x) the regular time hourly rate, except maintenance work, in the counties of Alameda, Contra Costa, and San Francisco.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: TUNNEL WORKER (LABORER) (Special Single and Second Shift)

DETERMINATION: NC-23-102-11-2011-1A
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 30, 2012* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

Classification (Journeyperson)	Basic Hourly Rate	Employer Payments: Health and Welfare	Pension	Vacation/ Holiday[a]	Training	Other Payments[b]	Straight-Time Hours[c]	Total Hourly Rate	Overtime Hourly Rate: Daily 1 1/2X	Saturday[d] 1 1/2X	Sunday and Holiday
Diamond driller, groundman, gunite or shotcrete nozzleman	$36.35	6.54	7.55	2.48	0.80	0.13	8	53.85	72.025	72.025	90.20
Rodman, shaft work and raise (below actual or excavated ground level)	$36.12	6.54	7.55	2.48	0.80	0.13	8	53.62	71.68	71.68	89.74
Bit grinder, blaster, driller, powderman-heading, cherry pickerman-where car is lifted, concrete finisher in tunnel, concrete/screed man, grout pumpman and potman, gunite and shotcrete gunman and potman, headerman, high pressure nozzleman, miner-tunnel, including top and bottom man on shaft and raise work, nipper, nozzleman on slick line, sandblaster-potman (work assignment interchangeable)	$35.87	6.54	7.55	2.48	0.80	0.13	8	53.37	71.305	71.305	89.24
Steel form raiser and setter, timberman, retimberman (wood or steel or substitute materials), tugger, cabletender, chucktender, powderman-primer house	$35.87	6.54	7.55	2.48	0.80	0.13	8	53.37	71.305	71.305	89.24
Vibratorman, pavement breaker, bull gang-mucker, trackman, concrete crew-including rodding and spreading	$35.42	6.54	7.55	2.48	0.80	0.13	8	52.92	70.63	70.63	88.34
Dumpman (any method), grout crew, reboundman, swamper/brakeman, watchman	$34.88	6.54	7.55	2.48	0.80	0.13	8	52.38	69.82	69.82	87.26

When designated by an employer, state licensed blaster receives $.50 per hour above miner's rate.

Note: Rates for tunnel workers working in compressed air as well as their support classifications are available by request. Please contact the Division of Labor Statistics and Research at (415) 703-4774.

[a] Includes an amount for supplemental dues.
[b] Amount is for Contract Administration Fund $0.08 and Industry Stabilization Fund $0.05.
[c] Saturdays in the same work week may be worked at straight-time if job is shut down during the normal workweek due to inclement weather. Excludes Alameda, Contra Costa, and San Francisco Counties.
[d] All work performed on Saturdays, Sundays and Holidays shall be paid for at double (2x) the regular time hourly rate, except maintenance work, in the counties of Alameda, Contra Costa, and San Francisco.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: PARKING AND HIGHWAY IMPROVEMENT PAINTER (PAINTER)

DETERMINATION: NC-200-X-17-2011-2
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 30, 2012* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after ten days after the expiration date if no subsequent determination is issued.

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba counties.

		Employer Payments				Straight-Time		Overtime Hourly Rate		
CLASSIFICATION	Basic Hourly Rate	Health and Welfare	Pension	Vacation/ Holiday[b]	Training and Other	Hours	Total Hourly Rate	Daily 1 1/2X	Daily 2X	Holiday 2X
Striper; Layout and application of painted traffic stripes; hot thermo plastic; tape traffic stripes	[a]31.35	7.50	4.05	-	0.10	8	43.00	[c]58.675	74.35	74.35
Parking Lots, Gamecourts, Playgrounds	[a]26.65	7.50	4.05	-	0.10	8	38.30	[c]51.625	64.95	64.95
Trainee for above classifications										
Step 1 (First 2,000 Hours)	[a]18.81	7.50	2.43	-	0.10	8	28.84	[c]38.245	47.65	47.65
Step 2 (Second 2,000 Hours)	[a]20.38	7.50	2.63	-	0.10	8	30.61	[c]40.800	50.99	50.99
Step 3 (Third 2,000 Hours)	[a]21.95	7.50	2.84	-	0.10	8	32.39	[c]43.365	54.34	54.34
Protective Coating, Resurfacing, Pavement Sealing, Including Repair When Done in Conjunction With Pavement Sealing	[a]26.96	7.50	4.05	-	0.10	8	38.61	[c]52.09	65.57	65.57

[a] Includes an amount withheld for Dues Check-Off.
[b] Included in Basic Hourly Rate ($1.91). Rate applies to the first 9 years of employment only; $2.30 per hour worked for 10 years or more. Vacation/Holiday amounts for Trainees: First 2,000 Hours ($1.15), Second 2,000 Hours ($1.24), Third 2,000 Hours ($1.34).
[c] Rate applies to first 4 overtime hours in any one day and for work in excess of 40 hours in any one designated work week. All other overtime is paid at the double time rate.

JOURNEYMAN TO TRAINEE RATIO: The number of painter trainees shall not exceed 1 painter trainee for each painter Journeyperson. When there is a two-person crew, one employee may be a Journeyperson and the other a Trainee; however, in no event shall a Trainee perform work without the supervision of a Journeyperson.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: SLURRY SEAL WORKER

DETERMINATION: NC-830-X-69-2000-1
ISSUE DATE: February 22, 2000
EXPIRATION DATE OF DETERMINATION: April 1, 2000* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Glenn, Humboldt, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tuolumne, Yolo and Yuba Counties.

		Employer Payments				Straight-Time		Overtime Hourly Rates		
Classification (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension	Vacation/ Holiday	Training	Hours	Total Hourly Rate	Daily 1 1/2X	2X	Holiday 2X
Sealer/Mixer	$14.89	1.72	.90	[a].91	-	8	$18.42	[b]$25.865	$33.31	$33.31
Shuttleperson, Applicator Operator, Squeegeeperson	13.18	1.72	.90	[a].91	-	8	16.71	[b]23.30	29.89	29.89
Traffic Surface Protective Coating Applicator	15.51	1.72	.90	[a].91	-	8	19.04	[b]26.795	34.55	34.55
Traffic Controlperson	8.62	1.72	.90	[a].91	-	8	12.15	[b]16.46	20.77	20.77

[a] Rate applies to first year of employment only; $1.28 per hour worked for employment over one year but less than 5 years; $1.71 per hour worked for over 5 years but less than 10 years; $2.08 per hour worked for 10 years or more. The overtime computations should be increased by any applicable increase in Vacation/Holiday pay.

[b] Rate applies to first 4 overtime hours in any one day and for work in excess of 40 hours in any one designated work week. All other overtime is paid at the double time rate.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: ASBESTOS REMOVAL WORKER (LABORER)

DETERMINATION: NC-102-67-1-2012-1
ISSUE DATE: February 22, 2012
EXPIRATION DATE OF DETERMINATION: November 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research at (415) 703-4774.

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate	
Classification (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension	Vacation/ Holiday[a]	Training	Other Payments	Hours	Total Hourly Rate	1-1/2X[b]	Holiday[c] 2X
Asbestos Removal Specialist II	24.87	5.54	4.44	2.02	0.40	0.15	8	37.42	49.855	62.29
Asbestos Removal Specialist I	21.74	5.54	0.51	2.21	0.40	0.15	8	30.55	41.42	52.29
Asbestos Removal Worker	18.68	5.54	-----	2.21	0.40	0.15	8	26.98	36.32	45.66

DETERMINATION: NC-102-67-1-2011-1A
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: November 30, 2013* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

Lead Removal Worker[d]	36.25	5.54	-----	1.85	0.40	0.15	8	44.19	62.315	80.44
Lead Removal Worker[e]	35.25	5.54	-----	1.85	0.40	0.15	8	43.19	60.815	78.44

[a] Includes an amount for Supplemental Dues.
[b] Rate applies to the first 4 overtime hours in any workday or 40 hours in a workweek, and for the first 8 hours worked on the 7th consecutive day of work in a workweek.
[c] Rate applies to Holidays and to all hours worked in excess of 12 hours in any workday and for all hours worked in excess of 8 hours on the 7th consecutive day of work in a workweek.
[d] Rate applies to all localities within Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo and Santa Clara Counties.
[e] Rate applies to all localities within Alpine, Amador, Butte, Calaveras, Colusa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Merced, Modoc, Monterey, Nevada, Placer, Plumas, Sacramento, San Benito, San Joaquin, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo and Yuba Counties.

(Recognized Holidays and Subsistence Payment footnotes listed on page 52C)

NOTE: Asbestos Removal Workers must be trained and the work conducted according to the Code of Federal Regulations 29 CFR 1926.58, the California Labor Code 6501.5 and the California Code of Regulations, Title 8, Section 5208. Contractors must be certified by the Contractors' State License Board and registered with the Division of Occupational Safety and Health (DOSH). For further information, contact the Asbestos Contractors Abatement Registration Unit, DOSH at (510) 286-7362.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: # CEMENT MASON

DETERMINATION: NC-23-203-1-2011-1
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 24, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba counties.

		Employer Payments				Straight-Time		Overtime Hourly Rate		
CLASSIFICATION (JOURNEYPERSON)	Basic Hourly Rate	Health and Welfare	Pension	Vacation and Holiday	Training	Hours	Total Hourly Rate	Daily 1 1/2X	Saturday[a] 1 1/2X	Sunday and Holiday
Cement Mason	$28.65	7.55	7.20	5.14[b]	0.47	8	49.01	63.335	63.335[c]	77.66
Mastic Magnesite Gypsum, Epoxy, Polyester, Resin and all composition masons, swing or slip form scaffolds	$29.40	7.55	7.20	5.14[b]	0.47	8	49.76	64.46	64.46	79.16

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] Saturdays in the same work week may be worked at straight time if a job is shut down during the normal work week due to inclement weather.

[b] Includes an amount for supplemental dues.

[c] Rate applies to the first 8 hours of work on Saturday. All other hours worked on Saturday are paid at the Sunday/Holiday rate.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: #BUILDING/CONSTRUCTION INSPECTOR AND FIELD SOILS AND MATERIAL TESTER

DETERMINATION: NC-63-3-9-2012-1
ISSUE DATE: February 22, 2012
EXPIRATION DATE OF DETERMINATION: June 30, 2012* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after ten days after the expiration date if no subsequent determination is issued.

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo and Yuba counties.

CLASSIFICATION (JOURNEYPERSON)	Basic Hourly Rate	Employer Payments: Health and Welfare[a]	Pension	Vacation and Holiday	Training	Other Payment	Straight-Time Hours	Total Hourly Rate	Overtime Hourly Rate: Daily[b] 1 1/2X	Saturday[b] 1 1/2X	Sunday/ Holiday 2X
Group 1	$40.86	11.58	6.93	2.65	0.28	0.21	8	62.51	82.94	82.94	103.37
Group 2	38.86	11.58	6.93	2.65	0.28	0.21	8	60.51	79.94	79.94	99.37
Group 3	32.72	11.58	6.93	2.65	0.28	0.21	8	54.37	70.73	70.73	87.09
Group 4	27.49	11.58	6.93	2.65	0.28	0.21	8	49.14	62.885	62.885	76.63

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] Amount shall be paid for all hours worked up to 173 hours per month.

[b] Rate applies to the first 4 daily overtime hours, Monday through Friday, and the first 8 hours on Saturday. All other overtime is paid at the Sunday/Holiday overtime rate.

CLASSIFICATIONS:

Group 1	Group 2	Group 3	Group 4
ASNT Level II-III	AWS-CWI	Geotechnical Driller	ACI
DSA Masonry	ICC Certified Structural Inspector	Soils/Asphalt	Drillers Helper
DSA Shotcrete	NICET Level III	Earthwork Grading	ICC Fireproofing
Lead Inspector	Shear Wall/Floor System Inspector	Excavation and Backfill	NICET Level I
NICET Level IV	Building/Construction Inspector	NICET Level II	Proofload Testing
NDT Level Two	NDT Level One	Caltrans Test Methods	Torque Testing

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: #BUILDING/CONSTRUCTION INSPECTOR AND FIELD SOILS AND MATERIAL TESTER (SECOND SHIFT)

DETERMINATION: NC-63-3-9-2012-1
ISSUE DATE: February 22, 2012
EXPIRATION DATE OF DETERMINATION: June 30, 2012* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research at (415) 703-4774 for the new rates after ten days after the expiration date if no subsequent determination is issued.

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo and Yuba counties.

CLASSIFICATION (JOURNEYPERSON)	Basic Hourly Rate	Employer Payments: Health and Welfare[a]	Pension	Vacation and Holiday	Training	Other Payment	Straight-Time Hours	Total Hourly Rate	Overtime Hourly Rate: Daily[b] 1 1/2X	Saturday[b] 1 1/2X	Sunday/ Holiday 2X
Group 1	$45.97	11.58	6.93	2.65	0.28	0.21	8	67.62	90.605	90.605	113.59
Group 2	43.72	11.58	6.93	2.65	0.28	0.21	8	65.37	87.23	87.23	109.09
Group 3	36.81	11.58	6.93	2.65	0.28	0.21	8	58.46	76.865	76.865	95.27
Group 4	30.93	11.58	6.93	2.65	0.28	0.21	8	52.58	68.045	68.045	83.51

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] Amount shall be paid for all hours worked up to 173 hours per month.

[b] Rate applies to the first 4 daily overtime hours, Monday through Friday, and the first 8 hours on Saturday. All other overtime is paid at the Sunday/Holiday overtime rate.

CLASSIFICATIONS:

Group 1	Group 2	Group 3	Group 4
ASNT Level II-III	AWS-CWI	Geotechnical Driller	ACI
DSA Masonry	ICC Certified Structural Inspector	Soils/Asphalt	Drillers Helper
DSA Shotcrete	NICET Level III	Earthwork Grading	ICC Fireproofing
Lead Inspector	Shear Wall/Floor System Inspector	Excavation and Backfill	NICET Level I
NICET Level IV	Building/Construction Inspector	NICET Level II	Proofload Testing
NDT Level Two	NDT Level One	Caltrans Test Methods	Torque Testing

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: TEAMSTER (APPLIES ONLY TO WORK ON THE CONSTRUCTION SITE)

DETERMINATION: NC-23-261-1-2011-2
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: All Localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate		
Classification[g] (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension	Vacation/ Holiday	Training	Other Payments	Hours	Total Hourly Rate	Daily 1 1/2X	Saturday[b] 1 1/2X	Sunday/ Holiday 2X
Group 1	$27.13	$12.54	$5.20	$2.15	$0.80	[a]$0.48	8	$48.30	$61.865	$61.865	$75.43
Group 2	27.43	12.54	5.20	2.15	0.80	[a]0.48	8	48.60	62.315	62.315	76.03
Group 3	27.73	12.54	5.20	2.15	0.80	[a]0.48	8	48.90	62.765	62.765	76.63
Group 4	28.08	12.54	5.20	2.15	0.80	[a]0.48	8	49.25	63.29	63.29	77.33
Group 5	28.43	12.54	5.20	2.15	0.80	[a]0.48	8	49.60	63.815	63.815	78.03
Group 6		USE DUMP TRUCK YARDAGE RATE									
Group 7		USE APPROPRIATE RATE FOR THE POWER UNIT OR THE EQUIPMENT UTILIZED									
Group 8 (Trainee)[c]											

[d] Step I – 1st 1000 Hours
[e] Step II – 2nd 1000 Hours
[f] Step III – 3rd 1000 Hours

[a] Supplemental Dues and Contract Administration.
[b] Saturday in the same work week may be worked at straight-time hourly rate if a job is shut down during the normal work week due to inclement weather.
[c] An individual employer may employ one (1) trainee for every four (4) journey level Teamsters actively employed. Individual employers with less than four (4) journey level Teamsters may utilize one (1) trainee; thereafter, one (1) for every four (4) journey level Teamsters.
[d] Sixty-five percent (65%) of the Journey level wage for the type of equipment operated, plus full fringes without Vacation/Holiday.
[e] Seventy-five percent (75%) of the Journey level wage for the type of equipment operated, plus full fringes without Vacation/Holiday.
[f] Eighty-five percent (85%) of the Journey level wage for the type of equipment operated, plus full fringes without Vacation/Holiday.
[g] For classifications within each group, see page 56.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

DETERMINATION: NC-23-261-1-2011-2 and NC-23-261-1-2011-2A

CLASSIFICATIONS:

GROUP 1
Dump Trucks under 6 yards
Single Unit Flat Rack (2 axle unit)
Nipper Truck (When Flat Rack Truck is used appropriate Flat Rack shall apply)
Concrete pump truck (When Flat Rack Truck is used appropriate Flat Rack shall apply)
Concrete pump machine
Snow Buggy
Steam Cleaning
Bus or Manhaul Driver
Escort or Pilot Car Driver
Pickup Truck
Teamster Oiler/Greaser/and or Serviceman
Hook Tenders
Team Drivers
Warehouseman
Tool Room Attendant (Refineries)
Fork Lift and Lift Jitneys
Warehouse Clerk/Parts Man
Fuel and/or Grease Truck Driver or Fuelman
Truck Repair Helper
Fuel Island Attendant, or Combination Pit and/or Grease Rack and Fuel Island Attendant

GROUP 2
Dump Trucks 6 yards Under 8 yards
Transit Mixers through 10 yards
Water Trucks Under 7000 gals.
Jetting Trucks Under 7000 gals.
Single Unit flat rack (3 axle unit)
Highbed Heavy Duty Transport
Scissor Truck
Rubber Tired Muck Car (not self-loaded)
Rubber Tired Truck Jumbo
Winch Truck and "A" Frame Drivers
Combination Winch Truck With Hoist
Road Oil Truck or Bootman
Buggymobile
Ross, Hyster and similar Straddle Carrier
Small Rubber Tired Tractor
Truck Dispatcher

GROUP 3
Dump Trucks 8 yards and including 24 yards
Transit Mixers Over 10 yards
Water Trucks 7000 gals and over
Jetting Trucks 7000 gals and over
Vacuum Trucks under 7500 gals
Trucks Towing Tilt Bed or Flat Bed Pull Trailers
Heavy Duty Transport Tiller Man
Tire Repairman

GROUP 3 (continued)
Truck Mounted Self Propelled Street Sweeper with or without Self-Contained Refuse Bin and or Vacuum Unit
Boom Truck - Hydro-Lift or Swedish Type Extension or Retracting Crane
P.B. or Similar Type Self Loading Truck
Combination Bootman and Road Oiler
Dry Distribution Truck (A Bootman when employed on such equipment, shall receive the rate specified for the classification of Road Oil Trucks or Bootman)
Ammonia Nitrate Distributor, Driver and Mixer
Snow Go and/or Plow

GROUP 4
Dump Trucks over 25 yards and under 65 yards
Vacuum Trucks over 7500 gals
Truck Repairman
Water Pulls - DW 10s, 20s, 21s and other similar equipment when pulling Aqua/pak or Water Tank Trailers
Helicopter Pilots
Lowbed Heavy Duty Transport (up to and including 7 axles)
DW 10s, 20s, 21s and other similar Cat type, Terra Cobra, LeTourneau Pulls, Tournorocker, Euclid and similar type Equipment when pulling fuel and/or grease tank trailers or other miscellaneous trailers

GROUP 5
Dump Truck 65 yards and over
Holland Hauler
Lowbed Heavy Duty Transport (over 7 axles)

GROUP 6 (Use dump truck yardage rate)
Articulated Dump Truck
Bulk Cement Spreader (w/ or w/o Auger)
Dumpcrete Truck
Skid Truck (Debris Box)
Dry Pre-Batch Concrete Mix Trucks
Dumpster or Similar Type
Slurry Truck

GROUP 7 (Use appropriate Rate for the Power Unit or the Equipment Utilized)
Heater Planer
Asphalt Burner
Scarifier Burner
Fire Guard
Industrial Lift Truck (mechanical tailgate)
Utility and Clean-up Truck
Composite Crewman

GROUP 8
Trainee

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: TEAMSTER (SPECIAL SINGLE SHIFT RATE)
(APPLIES ONLY TO WORK ON THE CONSTRUCTION SITE)

DETERMINATION: NC-23-261-1-2011-2A
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 30, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

LOCALITY: All Localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

		Employer Payments					Straight-Time		Overtime Hourly Rate		
Classification[g] (Journeyperson)	Basic Hourly Rate	Health and Welfare	Pension	Vacation/ Holiday	Training	Other Payments	Hours	Total Hourly Rate	Daily 1 1/2X	Saturday[b] 1 1/2X	Sunday/ Holiday 2X
Group 1	$29.13	$12.54	$5.20	$2.15	$0.80	[a]$0.48	8	$50.30	$64.865	$64.865	$79.43
Group 2	29.43	12.54	5.20	2.00	0.75	0.48	8	50.60	65.315	65.315	80.03
Group 3	29.73	12.54	5.20	2.00	0.75	0.48	8	50.90	65.765	65.765	80.63
Group 4	30.08	12.54	5.20	2.00	0.75	0.48	8	51.25	66.29	66.29	81.33
Group 5	30.43	12.54	5.20	2.00	0.75	0.48	8	51.60	66.815	66.815	82.03
Group 6		USE DUMP TRUCK YARDAGE RATE									
Group 7		USE APPROPRIATE RATE FOR THE POWER UNIT OR THE EQUIPMENT UTILIZED									
Group 8 (Trainee)[c]											
[d] Step I – 1st 1000 Hours											
[e] Step II – 2nd 1000 Hours											
[f] Step III – 3rd 1000 Hours											

[a] Supplemental Dues and Contract Administration.
[b] Saturday in the same work week may be worked at straight-time hourly rate if a job is shut down during the normal work week due to inclement weather.
[c] An individual employer may employ one (1) trainee for every four (4) journey level Teamsters actively employed. Individual employers with less than four (4) journey level Teamsters may utilize one (1) trainee; thereafter, one (1) for every four (4) journey level Teamsters.
[d] Sixty-five percent (65%) of the Journey level wage for the type of equipment operated, plus full fringes without Vacation/Holiday.
[e] Seventy-five percent (75%) of the Journey level wage for the type of equipment operated, plus full fringes without Vacation/Holiday.
[f] Eighty-five percent (85%) of the Journey level wage for the type of equipment operated, plus full fringes without Vacation/Holiday.
[g] For classifications within each group, see page 56.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

CRAFT: ## LANDSCAPE MAINTENANCE LABORER

DETERMINATION: NC-LML-2008-1
ISSUE DATE: February 22, 2008
EXPIRATION DATE OF DETERMINATION: December 31, 2008* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.

		Employer Payments					Straight -Time		Overtime
LOCALITY:	Basic Hourly Rate	Health and Welfare	Pension	Vacation	Holiday	Training	Hours	Total Hourly Rate	1 1/2x
Alameda	8.00	0.43	-	[a] 0.14	0.24	-	8	[b] 8.81	[b] 12.81
Alpine, El Dorado	8.00	-	-	0.12	0.14	-	8	8.26	12.26
	8.00	-	-	0.14	0.16	-	8	8.30	12.30
Amador	8.00	-	-	0.16	0.06	-	8	8.22	12.22
Butte, Glenn, and Plumas	8.00	0.16	-	[c] 0.13	0.05	-	8	[b] 8.34	[b] 12.34
Calaveras	8.00	-	-	0.10	0.12	-	8	8.22	12.22
Colusa and Sutter	8.00	-	-	0.12	0.14	-	8	8.26	12.26
	8.00	-	-	0.14	0.16	-	8	8.30	12.30
Contra Costa	10.00	-	-	-	0.12	-	8	10.12	15.12
Del Norte and Humboldt	8.00	-	-	0.25	0.07	-	8	8.32	12.32
Fresno	8.00	-	-	0.11	-	-	8	8.11	12.11
	8.00	-	-	[d] 0.19	0.19	-	8	[b] 8.38	[b] 12.38
Kings	8.00	-	-	[e] 0.25	0.25	-	8	[b] 8.50	[b] 12.50
Lake and Mendocino	8.00	-	-	[f] 0.13	0.03	-	8	[b] 8.16	[b] 12.16
	8.00	-	-	[g] 0.14	0.03	-	8	[b] 8.17	[b] 12.17
Lassen, Modoc, Shasta, Siskiyou and Trinity	8.00	-	-	0.31	0.09	-	8	8.40	12.40
Madera, Mariposa and Merced	8.00	-	-	0.115	0.115	-	8	8.23	12.23
Marin	10.00	-	-	-	0.12	-	8	10.12	15.12
Monterey	8.00	-	-	0.14	0.22	-	8	8.36	12.36
	8.00	-	-	0.16	0.25	-	8	8.41	12.41
Napa	8.00	-	-	[q] 0.11	0.14	-	8	8.25	12.25
Nevada and Sierra	8.00	-	-	0.16	0.19	-	8	8.35	12.35
Placer	8.00	-	-	0.12	0.14	-	8	8.26	12.26
Sacramento	8.00	-	-	0.16	-	-	8	8.16	12.16
	8.00	-	-	0.15	-	-	8	8.15	12.15
San Benito	8.00	-	-	[h] 0.15	0.18	-	8	[b] 8.33	[b] 12.33
San Francisco	9.00	-	-	0.17	0.17	-	8	9.34	13.84
San Joaquin	8.00	0.37	-	[i] 0.12	0.12	-	8	[b] 8.61	[b] 12.61
San Mateo	8.00	0.43	-	[j] 0.12	0.14	-	8	[b] 8.69	[b] 12.69
	8.00	-	-	[k] 0.13	0.17	-	8	[b] 8.30	[b] 12.30
Santa Clara	8.00	0.03	-	[l] 0.13	0.18	-	8	[b] 8.34	[b] 12.34
Santa Cruz	8.00	-	-	0.16	-	-	8	8.16	12.16
	8.00	-	-	0.19	-	-	8	8.19	12.19
Solano	8.00	-	-	-	0.07	-	8	8.07	12.07
Sonoma	8.00	-	-	[m] 0.13	0.16	-	8	[b] 8.29	[b] 12.29
	8.00	0.38	-	[n] 0.15	0.19	-	8	[b] 8.72	[b] 12.72
Stanislaus and Tuolumne	8.00	-	-	0.115	0.14	-	8	8.255	12.255
	8.00	-	-	[o] 0.13	0.11	-	8	[b] 8.24	[b] 12.24
Tehama	8.00	-	-	0.12	0.19	-	8	8.31	12.31
Tulare	8.00	0.69	-	[p] 0.12	-	-	8	[b] 8.81	[b] 12.81
Yolo	8.00	-	-	-	0.14	-	8	8.14	12.14
	8.00	-	-	-	0.19	-	8	8.19	12.19
Yuba	8.00	-	-	0.14	0.16	-	8	8.30	12.30

Craft is not apprenticeable
NOTE: If there are two rates, the first rate is for routine work, the second rate is for complex work.

a. $0.20 after 3 years of service; $0.27 after 5 years of service.
b. Computation is based on first years of employment. This rate should be increased by any applicable vacation increase as stated in other footnotes.
c. $0.25 after 7 years of service.
d. $0.38 after 3 years of service.
e. $0.37 after 5 years of service; $0.49 after 15 years of service.
f. $0.19 after 1 year of service; $0.25 after 2 years of service.
g. $0.22 after 1 year of service; $0.29 after 2 years of service.
h. $0.31 after 5 years of service.
i. $0.24 after 5 years of service.
j. $0.23 after 2 years of service; $0.35 after 6 years of service.
k. $0.26 after 1 year of service; $0.39 after 5 years of service.
l. $0.27 after 1 year of service; $0.40 after 5 years of service.
m. $0.26 after 7 years of service.
n. $0.31 after 3 years of service; $0.46 after 7 years of service.
o. $0.27 after 3 years of service; $0.40 after 5 years of service.
p. $0.23 after 2 years of service.
q $0.23 after 7 years of service.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

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GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: # TUNNEL/UNDERGROUND (OPERATING ENGINEER-HEAVY AND HIGHWAY WORK)

DETERMINATION: NC-23-63-1-2011-1C
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 24, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba counties.

Classification (Journeyperson)	Basic Hourly Rate		Employer Payments: Health and Welfare	Pension	Vacation and Holiday[c]	Training	Other Payments	Straight-Time: Hours[e]	Total Hourly Rate		Overtime Hourly Rate: Daily/ Saturday[d] 1 1/2X		Sunday and Holiday 2X	
Classification Group	Area 1[a]	Area 2[b]							Area 1[a]	Area 2[b]	Area 1[a]	Area 2[b]	Area 1[a]	Area 2[b]
Underground Rate														
Group 1-A	$36.24	$38.24	$11.58	$8.26	$3.66	$0.62	$0.73	8	$61.09	$63.09	$79.21	$82.21	$97.33	$101.33
Group 1	$33.77	$35.77	$11.58	$8.26	$3.66	$0.62	$0.73	8	$58.62	$60.62	$75.51	$78.51	$92.39	$96.39
Group 2	$32.51	$34.51	$11.58	$8.26	$3.66	$0.62	$0.73	8	$57.36	$59.36	$73.62	$76.62	$89.87	$93.87
Group 3	$31.18	$33.18	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.03	$58.03	$71.62	$74.62	$87.21	$91.21
Group 4	$30.04	$32.04	$11.58	$8.26	$3.66	$0.62	$0.73	8	$54.89	$56.89	$69.91	$72.91	$84.93	$88.93
Group 5	$28.90	$30.90	$11.58	$8.26	$3.66	$0.62	$0.73	8	$53.75	$55.75	$68.20	$71.20	$82.65	$86.65
Shafts Stopes & Raises														
Group 1-A	$36.34	$38.34	$11.58	$8.26	$3.66	$0.62	$0.73	8	$61.19	$63.19	$79.36	$82.36	$97.53	$101.53
Group 1	$33.87	$35.87	$11.58	$8.26	$3.66	$0.62	$0.73	8	$58.72	$60.72	$75.66	$78.66	$92.59	$96.59
Group 2	$32.61	$34.61	$11.58	$8.26	$3.66	$0.62	$0.73	8	$57.46	$59.46	$73.77	$76.77	$90.07	$94.07
Group 3	$31.28	$33.28	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.13	$58.13	$71.77	$74.77	$87.41	$91.41
Group 4	$30.14	$32.14	$11.58	$8.26	$3.66	$0.62	$0.73	8	$54.99	$56.99	$70.06	$73.06	$85.13	$89.13
Group 5	$29.00	$31.00	$11.58	$8.26	$3.66	$0.62	$0.73	8	$53.85	$55.85	$68.35	$71.35	$82.85	$86.85

CLASSIFICATIONS:

GROUP 1-A
Tunnel Bore Machine Operator - 20 feet in diameter or more

GROUP 1
Heading Shield Operator
Heavy Duty Repairman/Welder
Mucking Machine
Raised Bore Operator
Tunnel Mole Bore Operator
Tunnel Boring Machine Operator 10 ft up to 20 ft

GROUP 2
Combination Slusher and Motor Operator
Concrete Pump or Pumpcrete Guns
Power Jumbo Operator

GROUP 3
Drill Doctor
Mine or Shaft Hoist

GROUP 4
Combination Slurry Mixer Cleaner
Grouting Machine Operator
Motorman

GROUP 5
Bit Sharpener
Brakeman
Combination Mixer and Compressor (Gunite)
Compressor Operator
Assistant to Engineer
Pump Operator
Slusher Operator

# Indicates an apprenticeable craft. Effective as of July 1, 2008, the determination, issuance and publication of the prevailing wage apprentice schedules/apprentice wage rates have been reassigned by the Department of Industrial Relations from the Division of Labor Statistics and Research to the Division of Apprenticeship Standards. To obtain any apprentice schedules/apprentice wage rates, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at http://www.dir.ca.gov/das/das.html.

[a] **AREA 1** - Alameda, Contra Costa, Butte, Marin, Merced, Napa, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Solano, Stanislaus, Sutter, Yolo and Yuba counties; and portions of Alpine, Amador, Calaveras, Colusa, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Monterey, Nevada, Placer, Plumas, Shasta, Sierra, Siskiyou, Sonoma, Tehama, Tulare, Tuolumne and Trinity counties.

[b] **AREA 2** - Del Norte and Modoc, and portions of Alpine, Amador, Calaveras, Colusa, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Monterey, Nevada, Placer, Plumas, Shasta, Sierra, Siskiyou, Sonoma, Tehama, Tulare, Tuolumne and Trinity counties. (Portions of counties falling in each area detailed on page 41).

[c] Includes an amount for supplemental dues.

[d] Saturday in the same work week may be worked at straight-time if a job is shut down during the normal work week due to inclement weather.

[e] When three shifts are employed for five (5) or more consecutive days, seven and one-half (7 1/2) consecutive hours (exclusive of meal period), shall constitute a day of work, for which eight (8) times the straight time hourly rate shall be paid at the non-shift wage rate for the second shift. The third shift shall be seven (7) hours of work for eight (8) hours of pay at the non-shift wage rate.

NOTE: For Special Single and Second Shift rates, please see page 58A.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at http://www.dir.ca.gov/DLSR/PWD. Holiday provisions for current or superseded determinations may be obtained by contacting the Prevailing Wage Unit at (415) 703-4774.

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FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: # TUNNEL/UNDERGROUND (OPERATING ENGINEER-HEAVY AND HIGHWAY WORK)
(SPECIAL SINGLE AND SECOND SHIFT)

DETERMINATION: NC-23-63-1-2011-1C
ISSUE DATE: August 22, 2011
EXPIRATION DATE OF DETERMINATION: June 24, 2012** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774

LOCALITY: All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba counties.

Classification (Journeyperson)	Basic Hourly Rate		Employer Payments: Health and Welfare	Pension	Vacation and Holiday[c]	Training	Other Payments	Straight-Time: Hours	Total Hourly Rate		Overtime Hourly Rate: Daily/ Saturday[d] 1 1/2X		Sunday and Holiday 2X	
Classification Group	Area 1[a]	Area 2[b]							Area 1[a]	Area 2[b]	Area 1[a]	Area 2[b]	Area 1[a]	Area 2[b]
Underground Rate														
Group 1-A	$40.37	$42.37	$11.58	$8.26	$3.66	$0.62	$0.73	8	$65.22	$67.22	$85.41	$88.41	$105.59	$109.59
Group 1	$37.58	$39.58	$11.58	$8.26	$3.66	$0.62	$0.73	8	$62.43	$64.43	$81.22	$84.22	$100.01	$104.01
Group 2	$36.17	$38.17	$11.58	$8.26	$3.66	$0.62	$0.73	8	$61.02	$63.02	$79.11	$82.11	$97.19	$101.19
Group 3	$34.69	$36.69	$11.58	$8.26	$3.66	$0.62	$0.73	8	$59.54	$61.54	$76.89	$79.89	$94.23	$98.23
Group 4	$33.39	$35.39	$11.58	$8.26	$3.66	$0.62	$0.73	8	$58.24	$60.24	$74.94	$77.94	$91.63	$95.63
Group 5	$32.12	$34.12	$11.58	$8.26	$3.66	$0.62	$0.73	8	$56.97	$58.97	$73.03	$76.03	$89.09	$93.09
Shafts Stopes & Raises														
Group 1-A	$40.48	$42.48	$11.58	$8.26	$3.66	$0.62	$0.73	8	$65.33	$67.33	$85.57	$88.57	$105.81	$109.81
Group 1	$37.69	$39.69	$11.58	$8.26	$3.66	$0.62	$0.73	8	$62.54	$64.54	$81.39	$84.39	$100.23	$104.23
Group 2	$36.28	$38.28	$11.58	$8.26	$3.66	$0.62	$0.73	8	$61.13	$63.13	$79.27	$82.27	$97.41	$101.41
Group 3	$34.80	$36.80	$11.58	$8.26	$3.66	$0.62	$0.73	8	$59.65	$61.65	$77.05	$80.05	$94.45	$98.45
Group 4	$33.50	$35.50	$11.58	$8.26	$3.66	$0.62	$0.73	8	$58.35	$60.35	$75.10	$78.10	$91.85	$95.85
Group 5	$32.23	$34.23	$11.58	$8.26	$3.66	$0.62	$0.73	8	$57.08	$59.08	$73.20	$76.20	$89.31	$93.31

CLASSIFICATIONS:

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Heavy Duty Repairman/Welder
Mucking Machine
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Tunnel Mole Bore Operator
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Concrete Pump or Pumpcrete Guns
Power Jumbo Operator

GROUP 3
Drill Doctor
Mine or Shaft Hoist

GROUP 4
Combination Slurry Mixer Cleaner
Grouting Machine Operator
Motorman

GROUP 5
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Brakeman
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COUNTY

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1
FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

LOCALITY: ALAMEDA COUNTY

DETERMINATION: ALA-2012-1

CRAFT (JOURNEY LEVEL)	ISSUE DATE	EXPIRATION DATE	BASIC HOURLY RATE	EMPLOYER PAYMENTS: HEALTH AND WELFARE		PENSION	VACATION / HOLIDAY	TRAINING	STRAIGHT-TIME: OTHER		HOURS	TOTAL HOURLY RATE	OVERTIME HOURLY RATE: DAILY		SATURDAY		SUN A HOL
# ELECTRICIAN:																	
COMM & SYSTEM INSTALLER, SECOND SHIFT	02/22/2011	11/20/2011*	35.050	7.850	A	4.000	-	1.100	B	0.210	7.5	49.440	67.580	C	67.580	D	85
COMM & SYSTEM INSTALLER, THIRD SHIFT	02/22/2011	11/20/2011*	39.260	7.850	A	4.000	-	1.100	B	0.210	7.0	53.800	74.120	C	74.120	D	94
COMM & SYSTEM TECH., SECOND SHIFT	02/22/2011	11/20/2011*	39.910	7.850	A	4.000	-	1.100	B	0.210	7.5	54.470	75.570	C	75.570	D	96
COMM & SYSTEM TECH., THIRD SHIFT	02/22/2011	11/20/2011*	44.700	7.850	A	4.000	-	1.100	B	0.210	7.0	59.420	82.440	C	82.440	D	105
INSIDE WIREMAN, 2ND SHIFT	08/22/2011	05/31/2012**	52.800	14.840	A	10.900	E -	1.460		1.150	F 7.5	82.730	110.210	G	137.680	H	137
INSIDE WIREMAN, 3RD SHIFT	08/22/2011	05/31/2012**	59.140	15.900	A	11.680	E -	1.590		1.210	I 7.0	91.290	121.460	G	151.620	H	151
CABLE SPLICER-WELDER, 2ND SHIFT	08/22/2011	05/31/2012**	59.410	14.840	A	10.900	E -	1.460		1.220	F 7.5	89.610	120.520	G	151.430	H	151
CABLE SPLICER-WELDER, 3RD SHIFT	08/22/2011	05/31/2012**	66.550	15.900	A	11.680	E -	1.590		1.290	I 7.0	99.010	133.630	G	168.250	H	168
# PLASTERER																	
PLASTERER: 2ND SHIFT	08/22/2011	06/30/2012**	J 34.130	14.650		9.340	E -	0.650		0.780	K 7.0	59.550	L 76.610	L	76.610		93
PLASTERER: 3RD SHIFT	08/22/2011	06/30/2012**	J 35.130	14.650		9.340	E -	0.650		0.780	K 7.0	60.550	L 78.110	L	78.110		95

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1

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C DISREGARD THIS RATE. USE THE SATURDAY NON-SHIFT DIFFERENTIAL RATE FOR THIS CLASSIFICATION AS PUBLISHED IN THE DIRECTOR'S GENERAL PREVAILING WAGE DETERMINATIONS.

D DISREGARD THIS RATE. USE THE SUNDAY AND HOLIDAY NON-SHIFT DIFFERENTIAL RATE FOR THIS CLASSIFICATION AS PUBLISHED IN THE DIRECTOR'S GENERAL PREVAILING WAGE DETERMINATIONS.

E INCLUDED IN STRAIGHT-TIME HOURLY RATE.

F 8 HOURS PAY FOR 7.5 HOURS WORKED AT THE STRAIGHT TIME BASIC HOURLY RATE

G DISREGARD THIS RATE. FOR THE FIRST EIGHT HOURS OF WORK PERFORMED ON SATURDAY, USE THE SATURDAY NON-SHIFT DIFFERENTIAL RATE FOR THIS CLASSIFICATION AS PUBLISHED IN THE DIRECTOR'S GENERAL PREVAILING WAGE DETERMINATIONS.

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COUNTY

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1
FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

LOCALITY: ALAMEDA COUNTY

DETERMINATION: ALA-2012-1

CRAFT (JOURNEY LEVEL)	ISSUE DATE	EXPIRATION DATE	BASIC HOURLY RATE	EMPLOYER PAYMENTS: HEALTH AND WELFARE		PENSION	VACATION / HOLIDAY	TRAINING		OTHER	STRAIGHT-TIME HOURS	TOTAL HOURLY RATE	OVERTIME HOURLY RATE: DAILY		SATURDAY		SUN A HOL
# ELECTRICIAN:																	
COMM & SYSTEM INSTALLER, SECOND SHIFT	02/22/2011	11/20/2011*	35.050	7.850	A	4.000	-	1.100	B	0.210	7.5	49.440	67.580	C	67.580	D	85
COMM & SYSTEM INSTALLER, THIRD SHIFT	02/22/2011	11/20/2011*	39.260	7.850	A	4.000	-	1.100	B	0.210	7.0	53.800	74.120	C	74.120	D	94
COMM & SYSTEM TECH., SECOND SHIFT	02/22/2011	11/20/2011*	39.910	7.850	A	4.000	-	1.100	B	0.210	7.5	54.470	75.570	C	75.570	D	96
COMM & SYSTEM TECH., THIRD SHIFT	02/22/2011	11/20/2011*	44.700	7.850	A	4.000	-	1.100	B	0.210	7.0	59.420	82.440	C	82.440	D	105
INSIDE WIREMAN, 2ND SHIFT	08/22/2011	05/31/2012**	52.800	14.840	A	10.900	E -	1.460		1.150	F 7.5	82.730	110.210	G	137.680	H	137
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PLASTERER: 2ND SHIFT	08/22/2011	06/30/2012**	J 34.130	14.650		9.340	E -	0.650		0.780	K 7.0	59.550	L 76.610	L	76.610		93
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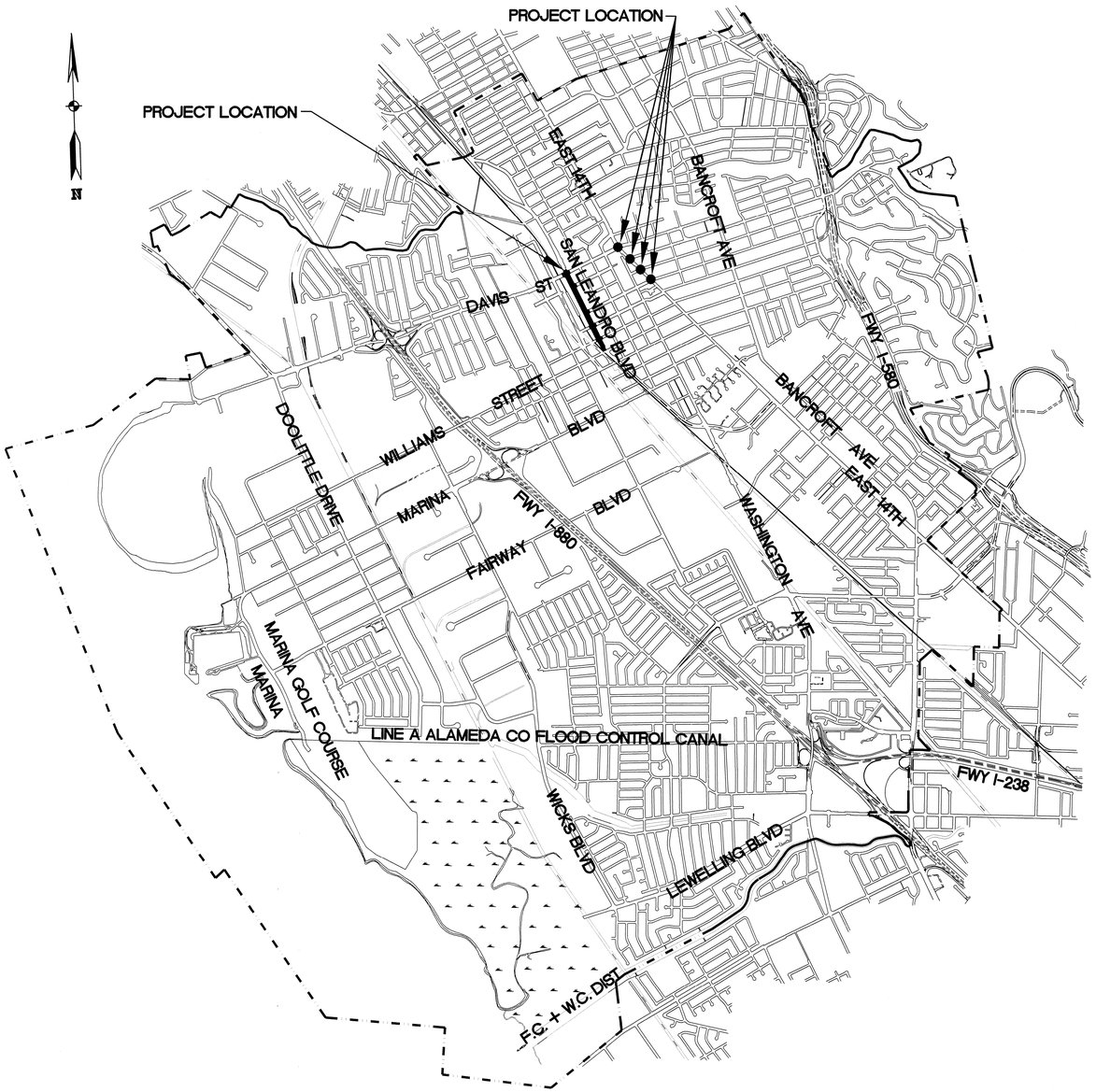
CITY OF SAN LEANDRO

BART-DOWNTOWN PEDESTRIAN INTERFACE

BID NO. 12-13.003, COSL PROJECT NO. 11-150-38-331

FEDERAL AID PROJECT NO.: CML 5041 (036)



VICINITY MAP

SHEET NO.	SHEET NAME.	DRAWING	DWG. NO.	CASE NO.
1	TI	TITLE SHEET	D3602	C0202
2	G1	KEY MAP AND LEGEND	D3603	C0202
3	G2	TYPICAL STREET SECTIONS	D3604	C0202
4	G3	CONSTRUCTION SIGNS AND BIKE DETOUR SIGNS	D3605	C0202
5	DI	DEMOLITION PLAN STA 8+50 TO 11+25	D3606	C0202
6	D2	DEMOLITION PLAN STA 11+25 TO 17+50	D3607	C0202
7	D3	DEMOLITION PLAN STA 17+50 TO 24+00	D3608	C0202
8	D4	DEMOLITION PLAN STA 24+00 TO 32+50	D3609	C0202
9	C1	PLAN AND PROFILE STA 8+50 TO 11+25	D3610	C0202
10	C2	PLAN AND PROFILE STA 11+25 TO 17+50	D3611	C0202
11	C3	PLAN AND PROFILE STA 17+50 TO 24+00	D3612	C0202
12	C4	PLAN AND PROFILE STA 24+00 TO 30+00	D3613	C0202
13	C5	PLAN AND PROFILE STA 30+00 TO 32+50	D3614	C0202
14	C6	BULBOUT LAYOUT – DAVIS ST.	D3615	C0202
15	C7	BULBOUT LAYOUT – ESTUDILLO AVE.	D3616	C0202
16	C8	BULBOUT LAYOUT – W. JUANA AVE.	D3617	C0202
17	C9	BULBOUT LAYOUT – PARROTT ST.	D3618	C0202
18	C10	BULBOUT LAYOUT – THORTON ST	D3619	C0202
19	CD1	DETAILS	D3620	C0202
20	CD2	STANDARD DETAILS	D3621	C0202
21	CD3	STANDARD DETAILS	D3622	C0202
22	CD4	STANDARD DETAILS	D3623	C0202
23	CD5	STANDARD DETAILS	D3624	C0202
24	U1	UTILITY PLAN STA 8+50 TO 11+25	D3625	C0202
25	U2	UTILITY PLAN STA 11+25 TO 17+50	D3626	C0202
26	U3	UTILITY PLAN STA 17+50 TO 24+00	D3627	C0202
27	U4	UTILITY PLAN STA 24+00 TO 30+00	D3628	C0202
28	U5	UTILITY PLAN – FIBER OPTIC CONNECTION/STANDARD DETAILS	D3629	C0202
29	SS–1	SIGNING AND STRIPING PLAN	D3630	C0202
30	SS–2	SIGNING AND STRIPING PLAN	D3631	C0202
31	E1	SIGNAL SCHEDULE – DAVIS ST.	D3632	C0202
32	E2	CONDUCTOR, EQUIPMENT & POLE SCHEDULES – DAVIS ST.	D3633	C0202
33	E3	SIGNAL – BART ENTRANCE	D3634	C0202
34	E4	CONDUCTOR, EQUIPMENT & POLE SCHEDULES – BART ENTRANCE.	D3635	C0202
35	E5	SIGNAL – WEST JUANA AVE	D3636	C0202
36	E6	CONDUCTOR, EQUIPMENT & POLE SCHEDULES – WEST JUANA AVE.	D3637	C0202
37	E7	SIGNAL – PARROTT ST.	D3638	C0202
38	E8	CONDUCTOR, EQUIPMENT & POLE SCHEDULES – PARROTT ST	D3639	C0202
39	SL1.1	STREET LIGHTING – ELECTRICAL LEGEND AND DETAILS	D3640	C0202
40	SL1.2	ELECTRICAL DETAILS	D3641	C0202
41	SL1.3	FULL LINE DIAGRAM FOR SERVICE METER PEDESTAL #1	D3642	C0202
42	SL1.4	FULL LINE DIAGRAM FOR SERVICE METER PEDESTAL #2	D3643	C0202
43	SL1.5	CITY STANDARD DETAILS	D3644	C0202
44	SL1.6	PHOTOMETRIC STUDY	D3645	C0202
45	SL2.1	STREET LIGHTING – ELECTRICAL SITE PLAN, STA 10+50 TO 15+00	D3646	C0202
46	SL2.2	STREET LIGHTING – ELECTRICAL SITE PLAN, STA 15+00 TO 20+50	D3647	C0202
47	SL2.3	STREET LIGHTING – ELECTRICAL SITE PLAN, STA 20+50+ TO 26+00	D3648	C0202
48	SL2.4	STREET LIGHTING – ELECTRICAL SITE PLAN, STA 26+00 TO 29+50	D3649	C0202
49	LL–1	LANDSCAPE LAYOUT PLAN, STA 8+50 TO 13+00	D3650	C0202
50	LL–2	LANDSCAPE LAYOUT PLAN, STA 13+00 TO 18+00	D3651	C0202
51	LL–3	LANDSCAPE LAYOUT PLAN, STA 18+00 TO 23+00	D3652	C0202
52	LL–4	LANDSCAPE LAYOUT PLAN, STA 23+00 TO 27+00	D3653	C0202
53	LL–5	LANDSCAPE LAYOUT PLAN, STA 27+00 TO 30+00	D3654	C0202
54	LD–1	PAVING DETAILS	D3655	C0202
55	LD–2	WEST JOAQUIN PASEO TRELLIS DETAILS	D3656	C0202
56	LD–3	WEST JUANA ENTRY COLUMNS	D3657	C0202
57	LD–4	SITE FURNISHINGS	D3658	C0202
58	LD–5	CONCRETE PAVING AND SCORING DETAIL	D3659	C0202
59	S–1	WEST JOAQUIN PASEO TRELLIS DETAILS	D3660	C0202
60	S–2	WEST JAUNA ENTRY COLUMNS	D3661	C0202
61	IR–1	IRRIGATION PLAN NOTES & LEGEND STA 8+50 TO 13+00	D3662	C0202
62	IR–2	IRRIGATION PLAN STA 18+00 TO 18+00	D3663	C0202
63	IR–3	IRRIGATION PLAN STA 23+00 TO 23+00	D3664	C0202
64	IR–4	IRRIGATION PLAN STA 27+00 TO 27+00	D3665	C0202
65	IR–5	IRRIGATION PLAN STA 27+00 TO 30+00	D3666	C0202
66	IR–6	IRRIGATION DETAILS	D3667	C0202
67	IR–7	IRRIGATION DETAILS	D3668	C0202
68	IR–8	IRRIGATION DETAILS	D3669	C0202
69	IR–9	IRRIGATION DETAILS	D3670	C0202
70	PL–1	PLANTING PLAN, NOTES & LEGEND STA 8+50 TO 13+00	D3671	C0202
71	PL–2	PLANTING PLAN STA 13+00 TO 18+00	D3672	C0202
72	PL–3	PLANTING PLAN STA 18+00 TO 23+00	D3673	C0202
73	PL–4	PLANTING PLAN STA 23+00 TO 27+00	D3674	C0202
74	PL–5	PLANTING PLAN STA 27+00 TO 30+00	D3675	C0202
75	PL–6	PLANTING DETAILS	D3676	C0202
76	WSL–1	SIGN COPY LIST	D3677	C0202
77	WSL–2	SIGNAGE DETAILS	D3678	C0202
78	WSL–3	SIGNAGE DETAILS	D3679	C0202
79	R1	EAST 14TH ST. RAMPS AND CROSSWALKS, JUANA AVE/JOAQUIN AVE	D3680	C0202
80	R2	EAST 14TH ST. RAMPS AND CROSSWALKS, JUANA AVE/JOAQUIN AVE	D3681	C0202

T1

REGISTERED PROFESSIONAL ENGINEER
KENNETH C. JOSEPH
No. 34870
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

CITY OF SAN LEANDRO
INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY	MJG	DATE	8/31/12
DRAWN BY	AMS	DATE	
PROJECT MGR.	MJG	DATE	8/31/12
TRANS ADMIN.	RJC	DATE	8/31/12
SENIOR ENGR.		DATE	8/31/12
APPROVED BY:		DATE	9/4/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE TITLE SHEET

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 1 OF 80

JOB NO. 150-38-331

SCALE NTS

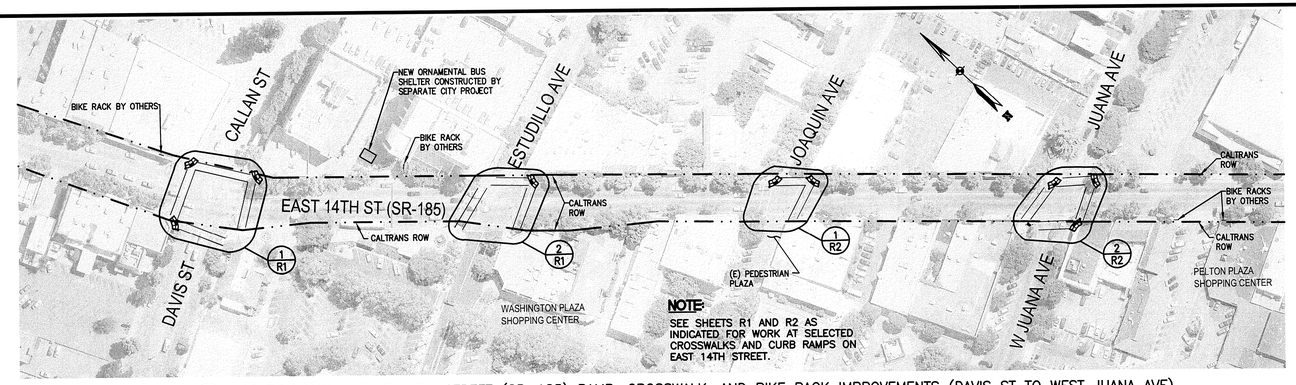
DWG 3602 CASE 202

LEGEND:

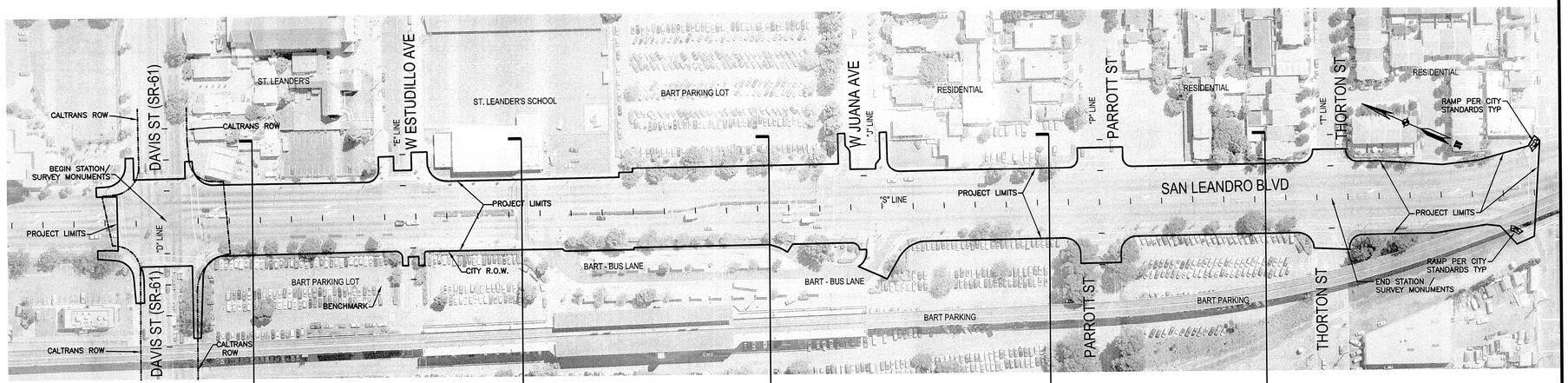
- SANITARY SEWER MANHOLE
- GAS VALVE
- WATER VALVE
- MONUMENT
- CONTROL POINT
- FIRE HYDRANT
- CATCH BASIN
- STORM DRAIN MANHOLE
- AC REHABILITATION
- 3000K — ADDRESS ADJACENT TO CONCRETE WALK
- 55.55 — EXISTING GRADE
- 55.55 — PROPOSED GRADE
- CENTERLINE
- CONCRETE CURB
- CONCRETE CURB & GUTTER
- DRIVEWAY
- EDGE OF PAVEMENT
- E — ELECTRIC LINE
- X — FENCE LINE
- FO — FIBER OPTICS LINE
- G — GAS LINE–VALVE & METER
- GUARD RAIL
- LOT LINE
- MONUMENT/MONUMENT LINE
- OH — OVERHEAD POWER LINE
- PROPERTY LINE
- SS — SANITARY SEWER–MANHOLE & CLEANOUT
- SIDEWALK
- 300.00 — SPOT ELEVATION
- SD — STORM DRAIN–MANHOLE & CATCH BASIN
- T — TELEPHONE LINE
- W — WATER LINE & VALVE
- ELECTROLIER
- FIRE DEPARTMENT CONNECTION
- FIRE HYDRANT
- POWER POLE/JOINT POLE
- TRAFFIC SIGN
- TREE
- UTILITY BOX

CIVIL ABBREVIATIONS:

AC	ASPHALT CONCRETE
BC	BEGIN CURVE
CT	CALTRANS
C&G	CURB & GUTTER
CR	CURB RETURN
EX	EXISTING
EC	END OF CURVE
EP	EDGE OF PAVEMENT
FC	FACE OF CURB
FL	FLOW LINE
GB	GRADE BREAK
GV	GAS VALVE
LF	LINEAR FEET
LIP	LIP OF GUTTER
MH	MANHOLE
MON	SURVEY MONUMENT
<PT.	ANGLE POINT
P	PAVEMENT
RET	RETURN
RR	RAIL ROAD
SL	STREET LIGHT
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEAN OUT
TOC	TOP OF CURB
TG	TREE GRATE
TOV	TOP OF VALVE
WV	WATER VALVE
ROW	RIGHT OF WAY
COSL	CITY OF SAN LEANDRO
SWI	STORM WATER CURB INLET
SD	STORM DRAIN



1 LOCATION MAP – EAST 14TH STREET (SR–185) RAMP, CROSSWALK, AND BIKE RACK IMPROVEMENTS (DAVIS ST TO WEST JUANA AVE)
Scale: 1" = 100'–0"



1 G2 TYP STREET SECTION
2 G2 TYP STREET SECTION
3 G2 TYP STREET SECTION
4 G2 TYP STREET SECTION
5 G2 TYP STREET SECTION

2 LOCATION MAP – SAN LEANDRO BOULEVARD IMPROVEMENTS
Scale: 1" = 100'–0"

STATION LINE SURVEY NOTES:

THE SAN LEANDRO BOULEVARD "S" STATION HORIZONTAL CONTROL LINE BASED ON A STRAIGHT LINE BETWEEN MONUMENTS AT SAN LEANDRO BLVD/DAVIS INTERSECTION AND THE SAN LEANDRO BLVD/THORNTON STREET INTERSECTION. THIS LINE IS NOT NECESSARILY THE SAME AS THE EXISTING STREET CENTERLINE. SIDE STREET STATION LINES ("D", "E", "J", "P", AND "T" LINES) ARE PERPENDICULAR TO THE "S" LINE, AND SIMILARLY ARE NOT NECESSARILY THE SAME AS THE EXISTING STREET CENTERLINE.

SEE SHEET C1 FOR S LINE OFFSETS FROM EXISTING CITY MONUMENTS AT THE DAVIS STREET / SLB INTERSECTION

"S" LINE SURVEY CONTROL DATA.
BEGIN STATION 10+00.... NORTH: 2088786.0159 EAST: 6082437.5005
END STATION 28+72.84... NORTH: 2090461.2672 EAST: 6081600.2083
DISTANCE: 1872.84 COURSE: N 26–33–21 W

BENCHMARK NOTES:

VERTICAL CONTROL BASED ON CITY OF SAN LEANDRO DATUM – CINCH PIN WEST SIDE OF SAN LEANDRO BLVD AT WEST ESTUDILLO ELEV – 48.12

HORIZONTAL CONTROL SURVEY POINTS:

HORIZONTAL CONTROL BASED ON CCS83 2002.0 EPOCH COORDINATES THAT WERE GROUND SCALED USING A COMBINED FACTOR OF 0.9999321544

SELECTED CROSS REFERENCE POINTS:

1	2090323.66	6081292.95	47.27	FLT X DAVIS
3	2090062.48	6081753.44	47.64	FLT X SLB AT BART ENTRANCE
5	2089696.81	6082116.56	47.85	FLT X BART LOT
6	2088896.39	6082280.23	46.75	FLT X BART LOT
10	2090438.87	6081525.14	49.56	CUTX – ISLAND DAVIS
13	2090320.23	6081437.12	51.88	NGS BENCH
14	2089825.65	6081629.25	46.85	MAG BART LOT
15	2089857.51	6081780.19	47.26	CHAD–WP
16	2089261.66	6081927.22	46.61	MAG BART LOT
17	2089395.06	6081989.91	46.02	MAG TC BUS AREA
18	2089115.24	6082278.42	46.50	MON SLB & PARROTT
20	2088917.94	6082375.21	47.78	CHAD–WP
22	2089455.60	6082108.31	45.19	MON SLB & JUANA
23	2089629.77	6081865.95	47.01	CUT X BUS STOP
26	2088783.83	6082433.12	48.08	FLT X SLB AT THORTON
101	2088929.43	6081941.60	46.20	MAG MARTINEZ
109	2089375.83	6082083.87	44.86	CITY BENCHMARK BUS EXIT
1627	2088698.88	6082238.40	48.64	CP
1723	2089079.12	6082076.41	47.95	MAG
1915	2089280.40	6082030.36	46.36	MAG

GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL DESIGN INTENT TO BE IMPLEMENTED ON THE SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE ENGINEER FOR ANY ADDITIONAL CLARIFICATION OR DETAIL NECESSARY TO ACCOMMODATE SITE CONDITIONS OR DETAIL.

2. CONTRACTOR SHALL COORDINATE AND OTHERWISE INTEGRATE HIS WORK WITH THAT OF OTHERS IN AN EFFICIENT, CRAFTSMANLIKE AND TIMELY MANNER SO AS TO PROVIDE THE CITY WITH A WELL CONSTRUCTED, EASILY MAINTAINABLE PROJECT.

3. AT ALL TIMES, CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY AND ITS EMPLOYEES HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.

4. THE CONTRACTOR IS HEREBY NOTIFIED THAT, PRIOR TO COMMENCING CONSTRUCTION, HE IS RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES INVOLVED AND REQUESTING A VISUAL VERIFICATION OF LOCATIONS OF THEIR UNDERGROUND FACILITIES. THE UTILITY COMPANIES ARE MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) ON CALL PROGRAM. THE CONTRACTOR SHALL NOTIFY MEMBERS OF U.S.A. AT LEAST TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING 811 or (800) 227–2600.

G1

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

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NO.	DATE	REVISION

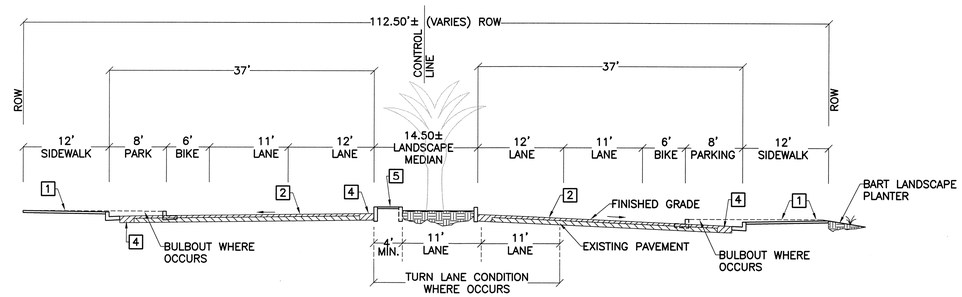
CITY OF SAN LEANDRO

DESIGNED BY MJG DATE
DRAWN BY AMS DATE
PROJECT MGR. MJG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. AO DATE 8/31/12
APPROVED BY: DATE 9/12/12
CITY ENGINEER, R.C.E. No. 34870

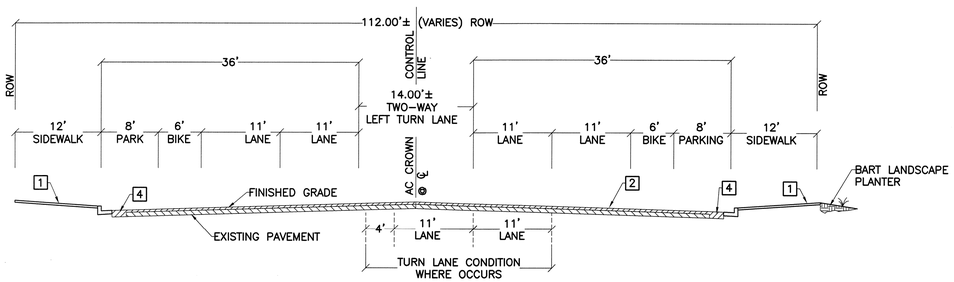
BART-DOWNTOWN PEDESTRIAN INTERFACE KEY MAP, LEGEND, AND GENERAL NOTES

AT FULL SIZE THIS LINE MEASURES 1"

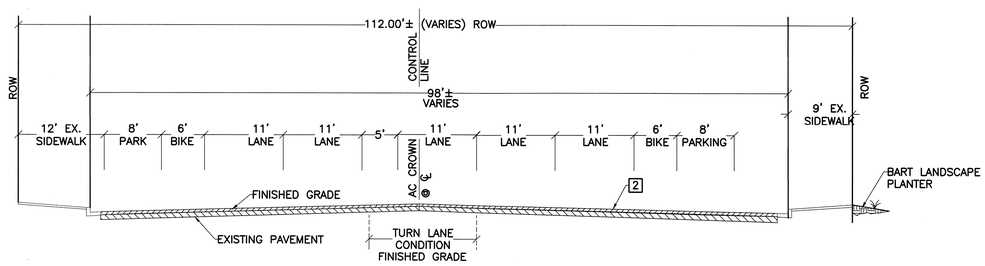
SHEET 2 OF 80
JOB NO. 150–38–331
SCALE AS NOTED
DWG 3603 CASE 202



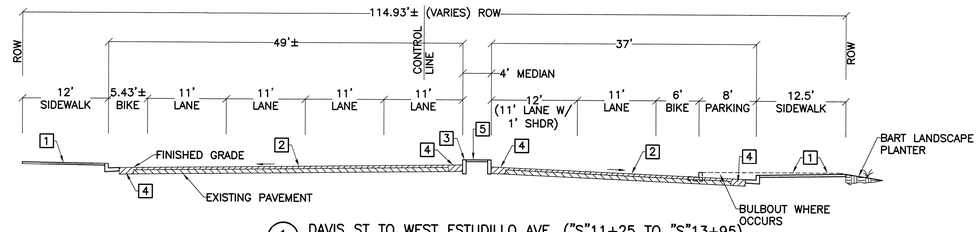
4 WEST JUANA AVE. TO PARROTT ST. ("S"21+25 TO "S"25+00)
Horiz. Scale: 1" = 10'



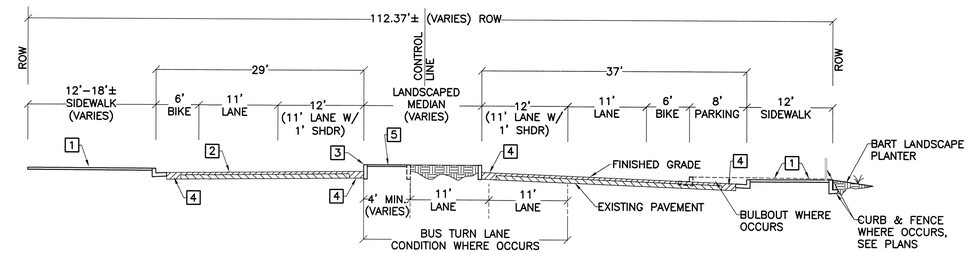
5 PARROTT ST. TO THORTON ST. ("S"25+00 TO "S"29+50)
Horiz. Scale: 1" = 10'



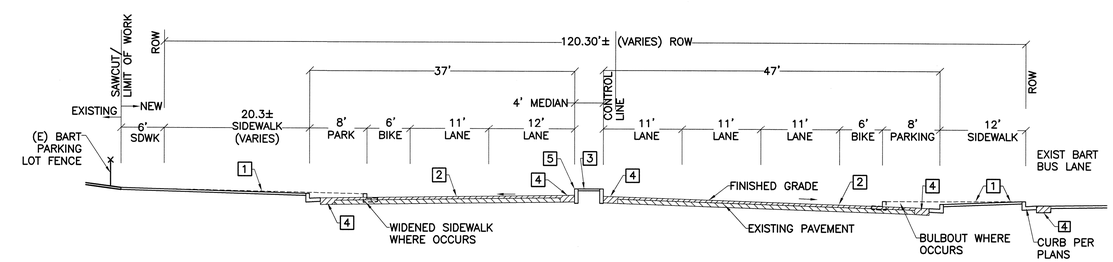
6 THORNTON ST. TO WILLIAMS ST. ("S"29+50 TO "S"32+10)
Horiz. Scale: 1" = 10'



1 DAVIS ST TO WEST ESTUDILLO AVE. ("S"11+25 TO "S"13+95)
Horiz. Scale: 1" = 10'



2 WEST ESTUDILLO AVE. TO WEST JOAQUIN AVE. ("S"13+95 TO "S"17+26)
Horiz. Scale: 1" = 10'



3 WEST JOAQUIN AVE. TO WEST JUANA AVE. ("S"17+26 TO "S"21+25)
Horiz. Scale: 1" = 10'

KEY NOTES:

1. NEW CITY STANDARD SIDEWALK, CURB & GUTTER PER STD. PLAN 100.
2. AC PAVEMENT 4" MILL AND OVERLAY OF EXISTING PAVEMENT SECTION, (TWO 2-INCH LIFT WITH GEOTEXTILE FABRIC PER
3. VERTICAL CURB PER CITY STANDARD.
4. 2'-0" WIDE TIE-IN PAVING REPLACEMENT PER STD PLAN 100 TYP.
5. MEDIAN PAVERS, AT NARROW CONDITION, SEE PLANS.

SHEET NOTES:

1. SIDEWALK WIDTH IS DIMENSIONED TO FACE OF CURB.

G2

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

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NO.	DATE	REVISION

CITY OF SAN LEANDRO

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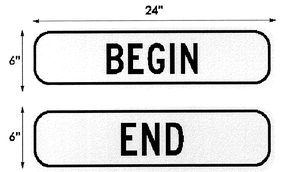
SENIOR ENGR. DATE 8/31/12
APPROVED BY: DATE 9/14/12
CITY ENGINEER/ R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE TYPICAL STREET SECTIONS

AT FULL SIZE THIS LINE MEASURES 1"

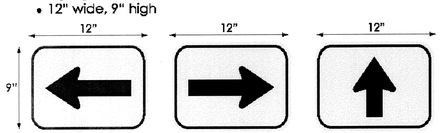
SHEET 3 OF 80
JOB NO. 150-38-331
SCALE AS NOTED
DWG 3604 CASE 202

M4 series (modified)
- 24" wide, 6" high
- 3" letter height, CAPS



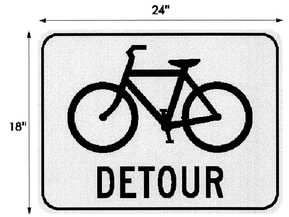
M4 BIKE DETOUR SIGN M4 NTS

M7-1 (L/R); M7-2
- 12" wide, 9" high



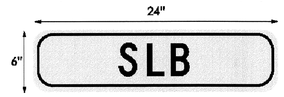
M7-1 BIKE DETOUR SIGN M7-1(L/R); M7-2 NTS

D11-1
- 24" wide, 18" high
- 3" letter height, CAPS



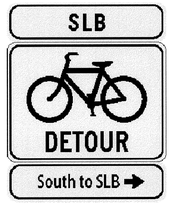
D11-1 BIKE DETOUR SIGN D11-1 NTS

S17
- 24" wide, 6" high
- 2.5" letter height, CAPS
(route name shown is example)



S17 BIKE DETOUR SIGN S17 NTS

M



• 24" w x 39" h

M BIKE DETOUR SIGN M NTS

S

S BIKE DETOUR SIGN S NTS

I

• 24" w x 39" h

I BIKE DETOUR SIGN I NTS

J

• 24" w x 39" h

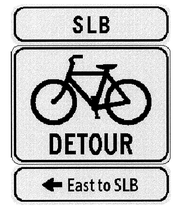
J BIKE DETOUR SIGN J NTS

K

• 24" w x 39" h

K BIKE DETOUR SIGN K NTS

L



• 24" w x 39" h

L BIKE DETOUR SIGN L NTS

E

• 24" w x 39" h

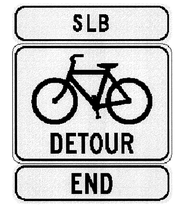
E BIKE DETOUR SIGN E NTS

F

• 24" w x 39" h

F BIKE DETOUR SIGN F NTS

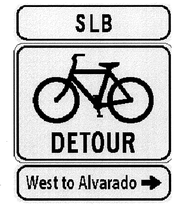
G



• 24" w x 30" h

G BIKE DETOUR SIGN G NTS

H



• 24" w x 39" h

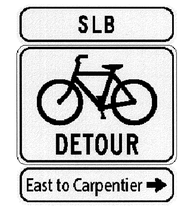
H BIKE DETOUR SIGN H NTS

A

• 24" w x 39" h

A BIKE DETOUR SIGN A NTS

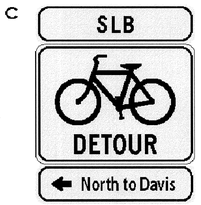
B



• 24" w x 39" h

B BIKE DETOUR SIGN B NTS

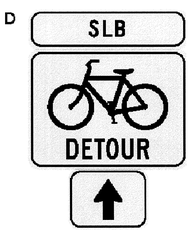
C



• 24" w x 39" h

C BIKE DETOUR SIGN C NTS

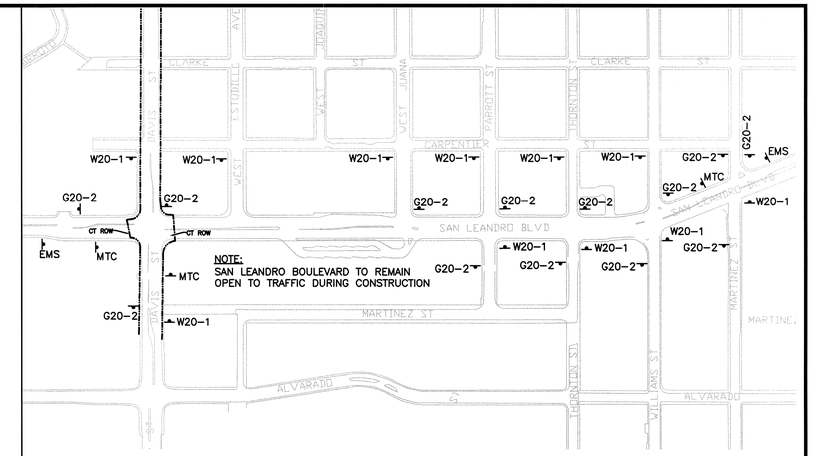
D



• 24" w x 33" h

D BIKE DETOUR SIGN D NTS

3 BIKE DETOUR SIGNS LAYOUTS NTS



NOTES:

1) SIGN LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL DETERMINE EXACT SIGN LOCATIONS IN THE FIELD.

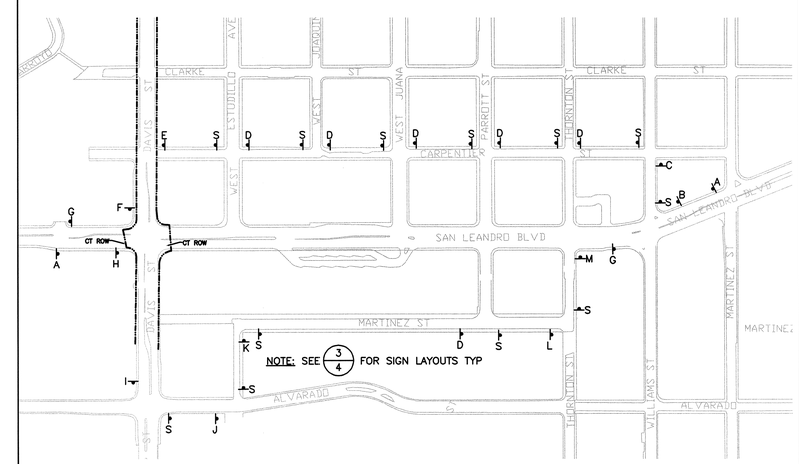
2) ELECTRONIC MESSAGING SIGNS TO BE INSTALLED TWO WEEKS PRIOR TO CONSTRUCTION. EMS WORDING: "CONSTRUCTION STARTS (DATE) THRU (DATE). TRAFFIC SUBJECT TO DELAY. USE ALTERNATE ROUTES IF POSSIBLE".

3) ALL TRAFFIC CONTROL SHALL COMPLY WITH LATEST MUTCD STANDARDS AND PROVISIONS OF CALTRANS ENCROACHMENT PERMIT.

LEGEND:

W20-1	'ROAD WORK AHEAD' SIGN
W20-2	'DETOUR AHEAD' SIGN
R3-5R	'RIGHT TURN ONLY' SIGN
G20-2	'END ROAD WORK' SIGN
EMS	ELECTRONIC MESSAGING SIGN
MTC	GRANT FUNDING SIGNAGE
←	DIRECTION OF TRAFFIC

1 ROAD CONSTRUCTION SIGNS NTS



2 BIKE DETOUR MAP NTS

G3

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

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DRAWN BY	AMS	DATE
PROJECT MGR.	MG	DATE 8/31/12
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SENIOR ENGR.		DATE 8/21/12
APPROVED BY:		DATE 9/4/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE CONSTRUCTION SIGNS AND BIKE DETOUR SIGNS

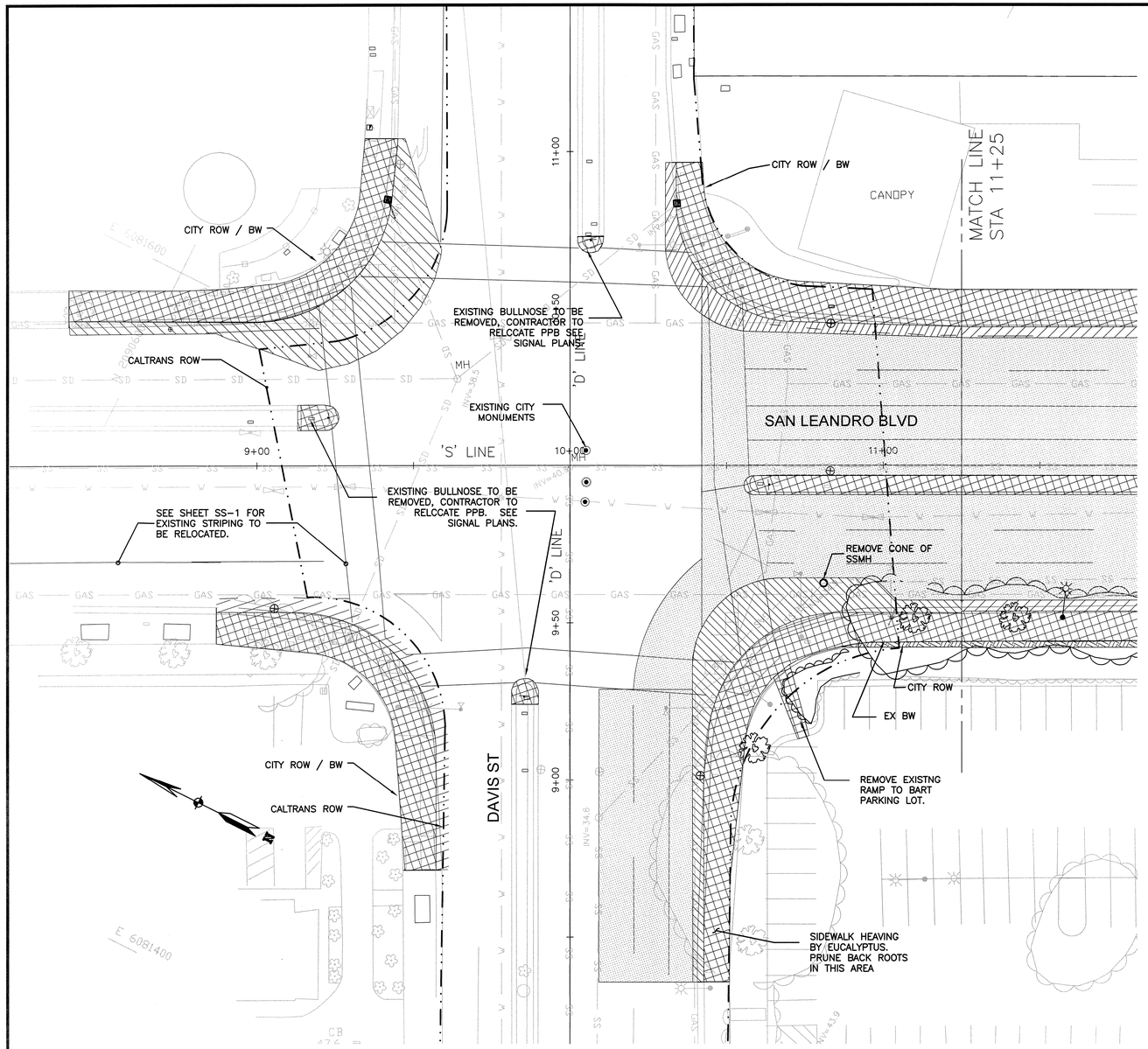
AT FULL SIZE THIS LINE MEASURES 1"

SHEET 4 OF 80

JOB NO. 150-38-331

SCALE AS NOTED

DWG 3605 CASE 202



LEGEND

- REMOVE EXISTING CONCRETE SIDEWALK / MEDIAN (4" THICK)
- REMOVE EXISTING PAVING (11" THICK AC)
- 2" DEEP MILL EXISTING PAVEMENT
- REMOVE VEGETATION/GRADE EXIST LANDSCAPE AREA
- REMOVE EXISTING TREES, TYP. MULCH WHERE PRACTICAL FOR REUSE ON SITE, SEE SPECIFICATIONS.
- (E) SWI TO BE REMOVED
- REMOVE STREETLIGHT SYSTEM: INCLUDING STREETLIGHT, FOOTING, PULLBOXES AND CONDUIT.
- EXISTING UTILITY BOX TO BE REMOVED.
- LOOP DETECTOR TO BE REMOVED.

GENERAL DEMOLITION NOTES:

1. SEE PLAN AND PROFILE SHEETS FOR HORIZONTAL CONTROL AND EXACT LIMITS OF IMPROVEMENTS. CONTRACTOR TO REVIEW AND APPRAISE HIMSELF OF ADDITIONAL DEMOLITION–RELATED ACTIVITIES REQUIRED BY THE CONTRACT DOCUMENTS THAT ARE NOT SHOWN; SUCH AS UTILITY TRENCHING OR FOUNDATION EXCAVATIONS.
2. SEE PLANS FOR INFORMATION ON UTILITIES AND UTILITY WORK WITHIN DEMOLITION LIMITS. UNLESS OTHERWISE SPECIFIED FOR REMOVAL, RELOCATION, OR REPLACEMENT; ALL SIGNS, MARKERS, POSTS OR OTHER PUBLIC AND PRIVATE IMPROVEMENTS SHALL BE PROTECTED IN PLACE. IMPROVEMENTS TO BE PROTECTED IN PLACE (OR ADJUSTED TO GRADE) ARE NOT SPECIFICALLY LISTED ON THE DEMOLITION PLAN.
3. SEE SHEETS R1 AND R2 FOR ADDITIONAL DEMOLITION RELATED TO THE INSTALLATION OF CROSSWALK RAMPS ON EAST 14TH STREET.
4. SEE SIGNING AND STRIPING SHEETS SS–1 AND SS–2 FOR STRIPING TO BE REMOVED.
5. ALL PIPELINES AND UNDERGROUND UTILITIES MAY NOT BE SHOWN. EXISTING UNDERGROUND FACILITIES AS SHOWN ARE APPROXIMATELY ONLY AND WERE OBTAINED FROM AVAILABLE UTILITY RECORDS. HOWEVER, THE CITY ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY OR COMPLETENESS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT ALL UTILITIES AND TO HAVE ALL FACILITIES LO9ACTED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICES ALERT AT 1–800–642–2444 AT LEAST TWO WORKING DAYS PRIOR TO ANY EXCAVATION.
6. WORK ON BART AND CALTRANS PROPERTY ALSO SUBJECT TO CONDITIONS OF ENCROACHMENT PERMITS., SEE SPECIFICATIONS.

D1

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

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SENIOR ENGR.		DATE	8/31/12
APPROVED BY:		DATE	9/4/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE DEMOLITION PLAN STATION 8+50 TO 11+25

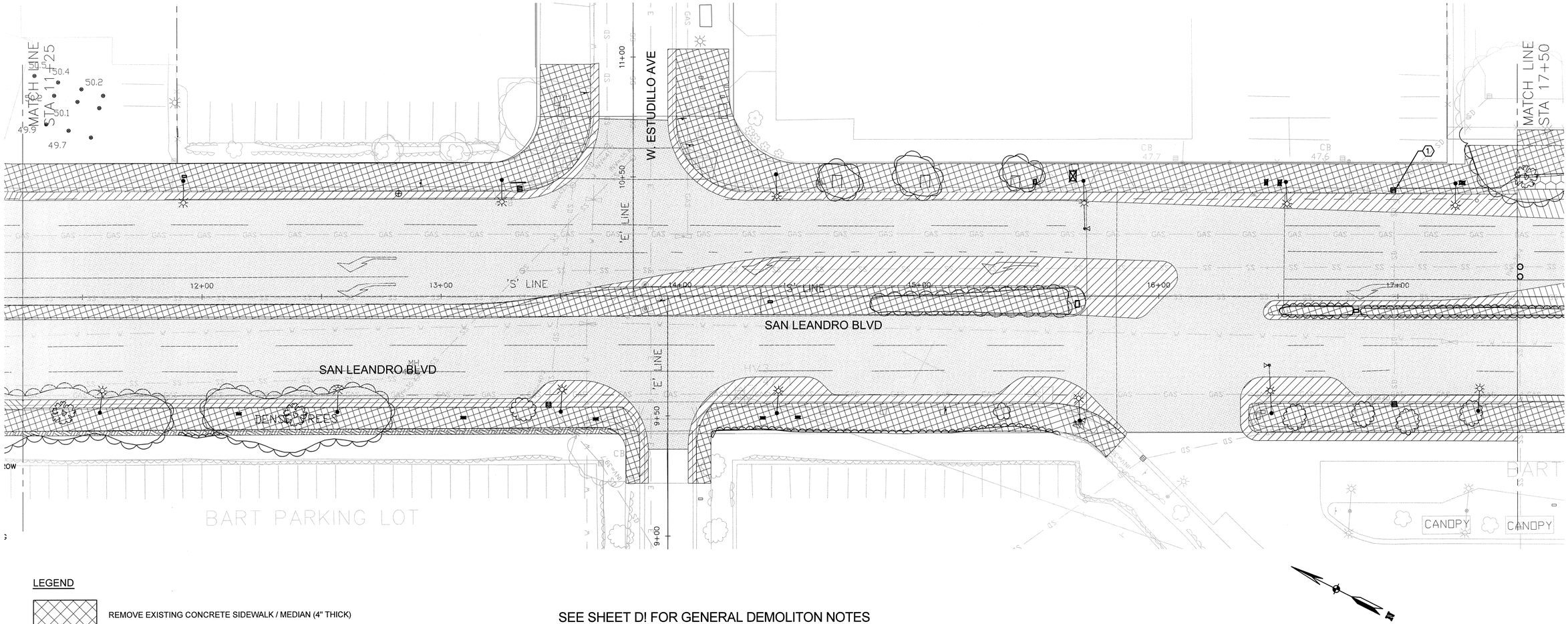
AT FULL SIZE THIS LINE MEASURES 1"

SHEET 5 OF 80

JOB NO. 150-38-331

SCALE 1"=20'

DWG 3606 CASE 202



LEGEND

REMOVE EXISTING CONCRETE SIDEWALK / MEDIAN (4" THICK)

REMOVE EXISTING PAVING (11" THICK AC)

2" DEEP MILL EXISTING PAVEMENT

REMOVE EXISTING TREES, TYP. MULCH WHERE PRACTICAL FOR REUSE ON SITE, SEE SPECIFICATIONS.

EXIST STORM INLET TO BE REMOVED

REMOVE EXISTING STREETLIGHT SYSTEM: INCLUDING STREETLIGHT, FOOTING, PULLBOXES AND CONDUIT.

EXISTING UTILITY BOX TO BE REMOVED.

LOOP DETECTOR TO BE REMOVED.

SEE SHEET D! FOR GENERAL DEMOLITON NOTES

D2

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION

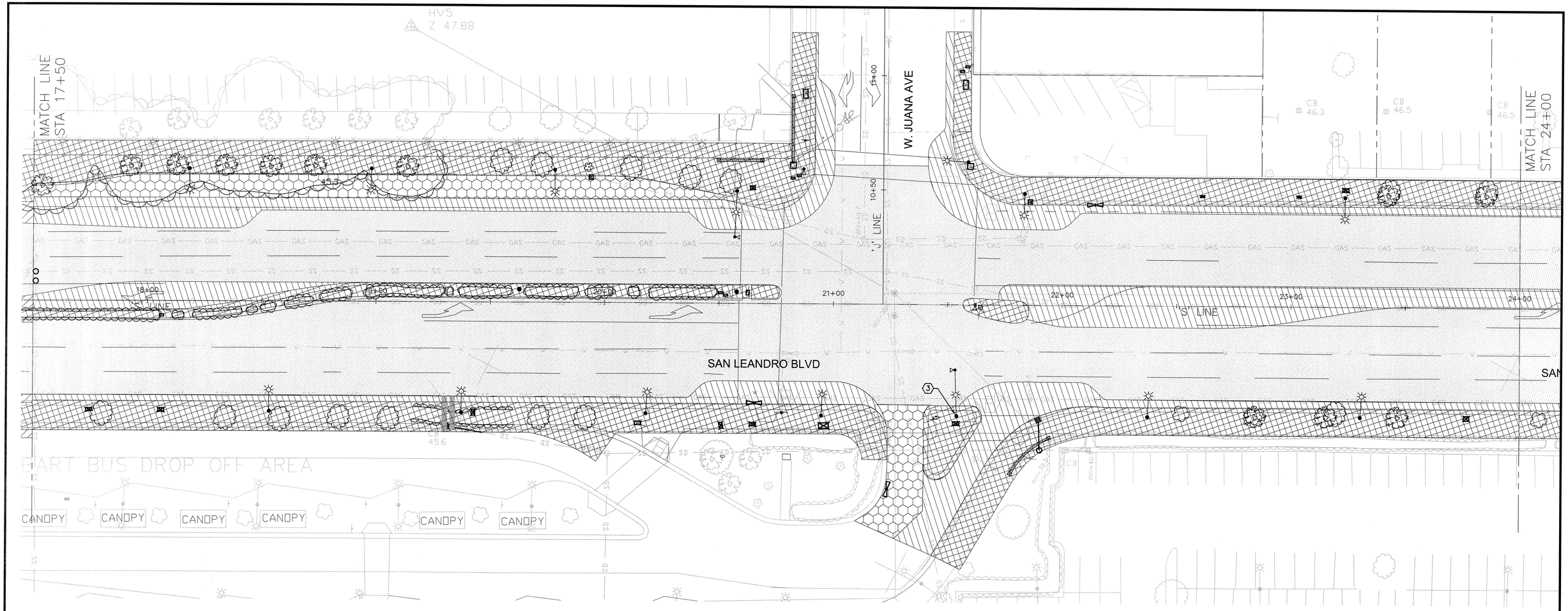
CITY OF SAN LEANDRO

DESIGNED BY MJG DATE 8/31/12
DRAWN BY AMS DATE
PROJECT MGR. MJG DATE 8/31/12
TRANS ADMIN. KLC DATE 8/31/12
SENIOR ENGR. DATE 8/31/12
APPROVED BY: DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE DEMOLITION PLAN STATION 11+25 TO 17+50

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 6 OF 80
JOB NO. 150-38-331
SCALE 1"=20'
DWG 3607 CASE 202



SEE SHEET D1 FOR GENERAL DEMOLITON NOTES

LEGEND

REMOVE EXISTING CONCRETE SIDEWALK/MEDIAN

REMOVE EXISTING PAVING/BASE ROCK

MILL EXISTING PAVEMENT FOR OVERLAY/DECORATIVE PAVING

REMOVE EXISTING CONCRETE BUS PULL OUT PAVING

REMOVE EXISTING TREES, TYP. MULCH WHERE PRACTICAL FOR REUSE ON SITE, SEE SPECIFICATIONS.

EXIST STORM INLET TO BE REMOVED

REMOVE EXISTING STREETLIGHT SYSTEM: INCLUDING STREETLIGHT, FOOTING, PULLBOXES AND CONDUIT.

EXISTING UTILITY BOX TO BE REMOVED.

LOOP DETECTOR TO BE REMOVED.

REGISTERED PROFESSIONAL ENGINEER
KENNETH C. JOSEPH
No. 34870
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

CITY OF SAN LEANDRO
INCORPORATED 1872

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SENIOR ENGR.		DATE	8/31/12
APPROVED BY:		DATE	9/14/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE DEMOLITION PLAN STATION 17+50 TO 24+00

D3

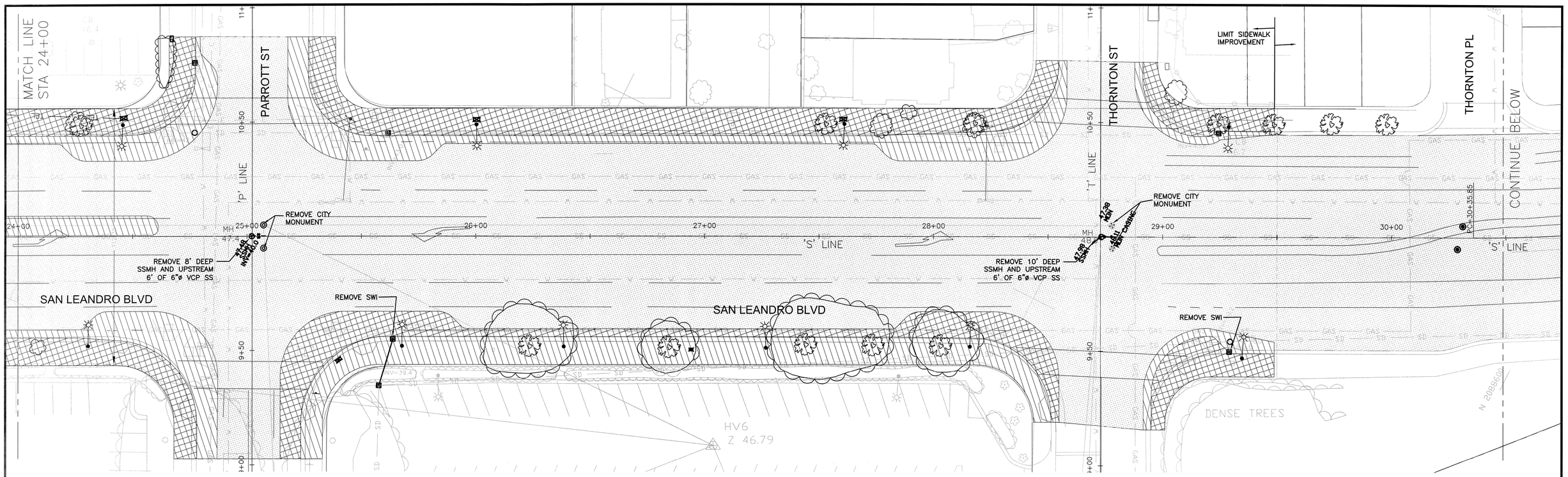
AT FULL SIZE THIS LINE MEASURES 1"

SHEET 7 OF 80

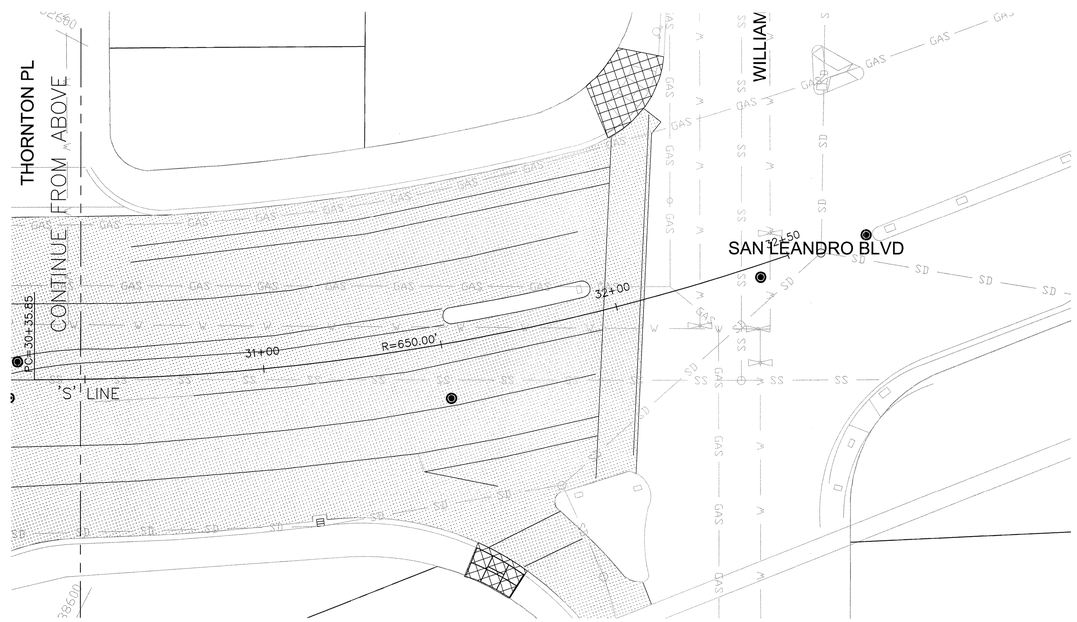
JOB NO. 150-38-331

SCALE 1"=20'

DWG 3608 CASE 202



SEE SHEET D1 FOR GENERAL DEMOLITON NOTES



LEGEND

- REMOVE EXISTING CONCRETE SIDEWALK/MEDIAN
- REMOVE EXISTING PAVING/BASE ROCK
- MILL EXISTING PAVEMENT FOR OVERLAY/DECORATIVE PAVING
- REMOVE EXISTING TREES, TYP. MULCH WHERE PRACTICAL FOR REUSE ON SITE, SEE SPECIFICATIONS.
- EXIST STORM INLET TO BE REMOVED
- REMOVE EXISTING STREETLIGHT SYSTEM: INCLUDING STREETLIGHT, FOOTING, PULLBOXES AND CONDUIT.
- EXISTING UTILITY BOX TO BE REMOVED.
- LOOP DETECTOR TO BE REMOVED.

D4

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

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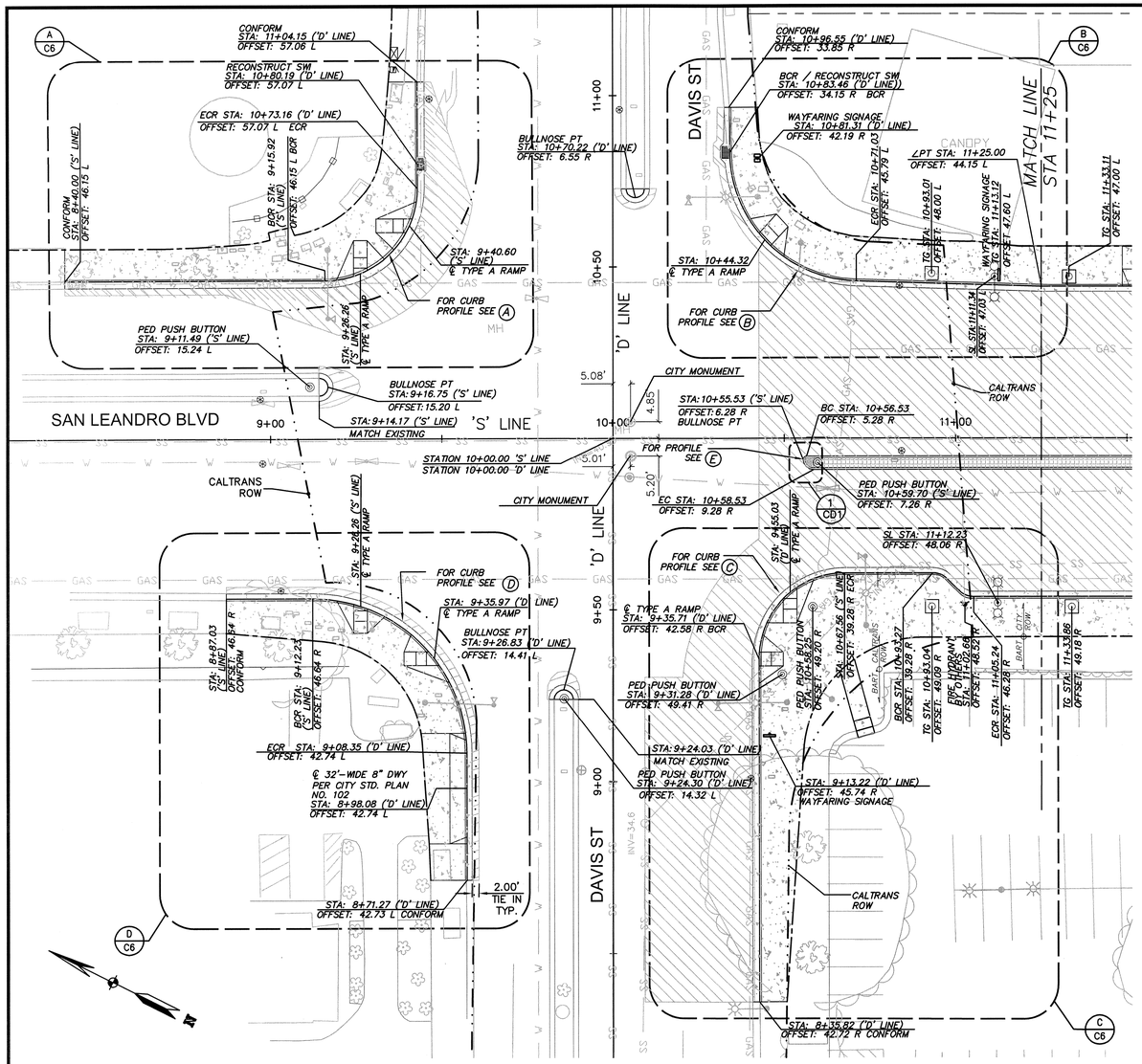
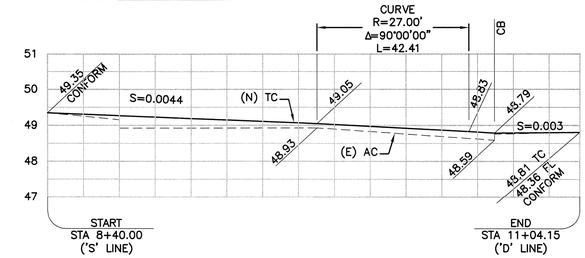
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE DEMOLITION PLAN STATION 24+00 TO 32+50

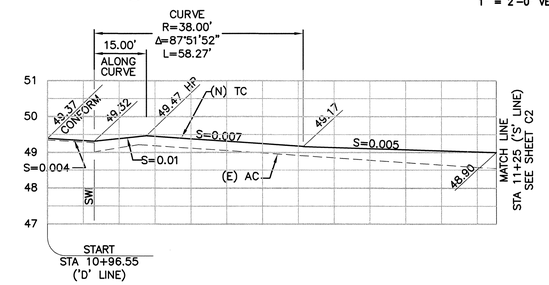
AT FULL SIZE THIS LINE MEASURES 1"

SHEET 8 OF 80
JOB NO. 150-38-331
SCALE 1"=20'
DWG 3609 CASE 202

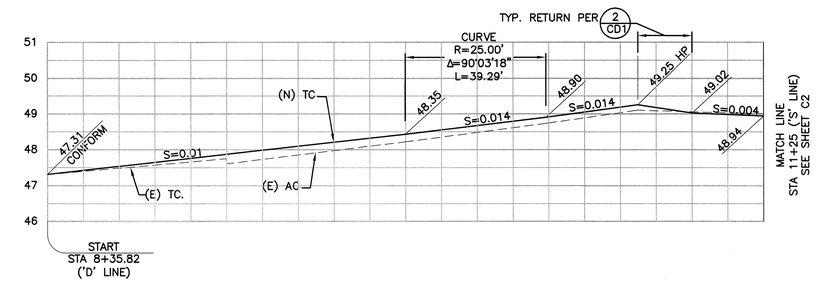




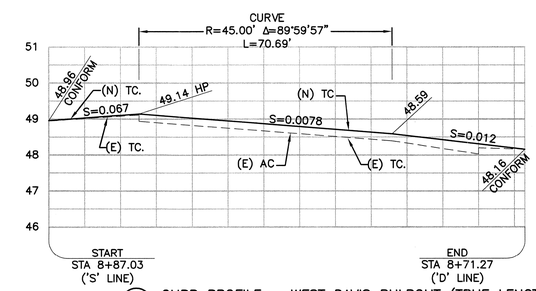
A CURB PROFILE – NORTH DAVIS BULBOUT (TRUE LENGTH)
Scale: 1" = 20'-0" HORIZ.
1" = 2'-0" VERT.



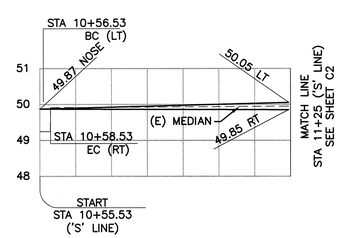
B CURB PROFILE – EAST DAVIS BULBOUT (TRUE LENGTH)
Scale: 1" = 20'-0" HORIZ.
1" = 2'-0" VERT.



C CURB PROFILE – SOUTH DAVIS BULBOUT (TRUE LENGTH)
Scale: 1" = 20'-0" HORIZ.
1" = 2'-0" VERT.



D CURB PROFILE – WEST DAVIS BULBOUT (TRUE LENGTH)
Scale: 1" = 20'-0" HORIZ.
1" = 2'-0" VERT.



E MEDIAN PROFILE (TRUE LENGTH)
Scale: 1" = 20'-0" HORIZ.
1" = 2'-0" VERT.

LEGEND

- NEW PAVEMENT PER 9 / CD1
- NEW TREE GRATE
- NEW FIRE HYDRANT
- NEW PEDESTRIAN PUSH BUTTON
- NEW STREET LIGHT
- NEW CATCH BASIN
- EX. TRAFFIC SIGNAL

BENCHMARK

CINCH NAIL NEAR CATCH BASIN ON THE WEST SIDE OF SAN LEANDRO BLVD AND W. JUANA AVE INTERSECTION.

ELEVATION = 44.80'

C1

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

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APPROVED BY:		DATE 9/4/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE PLAN & PROFILE DAVIS STREET INTERSECTION STATION 8+50 TO 11+25

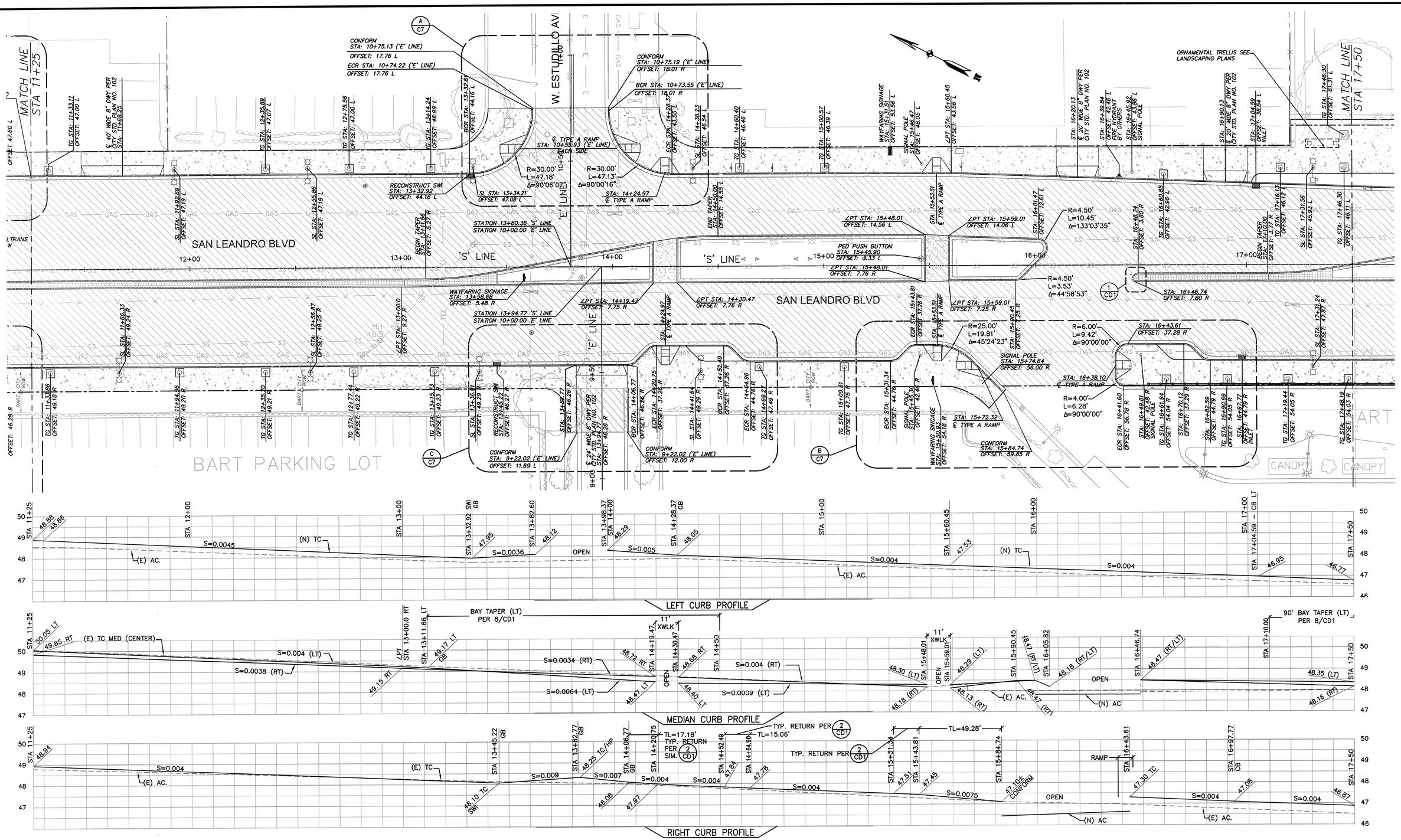
AT FULL SIZE THIS LINE MEASURES 1"

SHEET 9 OF 80

JOB NO. 150-38-331

SCALE 1"-20'

DWG 3610 CASE 202



C2

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CITY OF SAN LEANDRO INCORPORATED 1872

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SENIOR ENGR.	J.	DATE 8/31/12
APPROVED BY:		DATE 9/4/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE PLAN & PROFILE STATION 11+25 TO 17+50

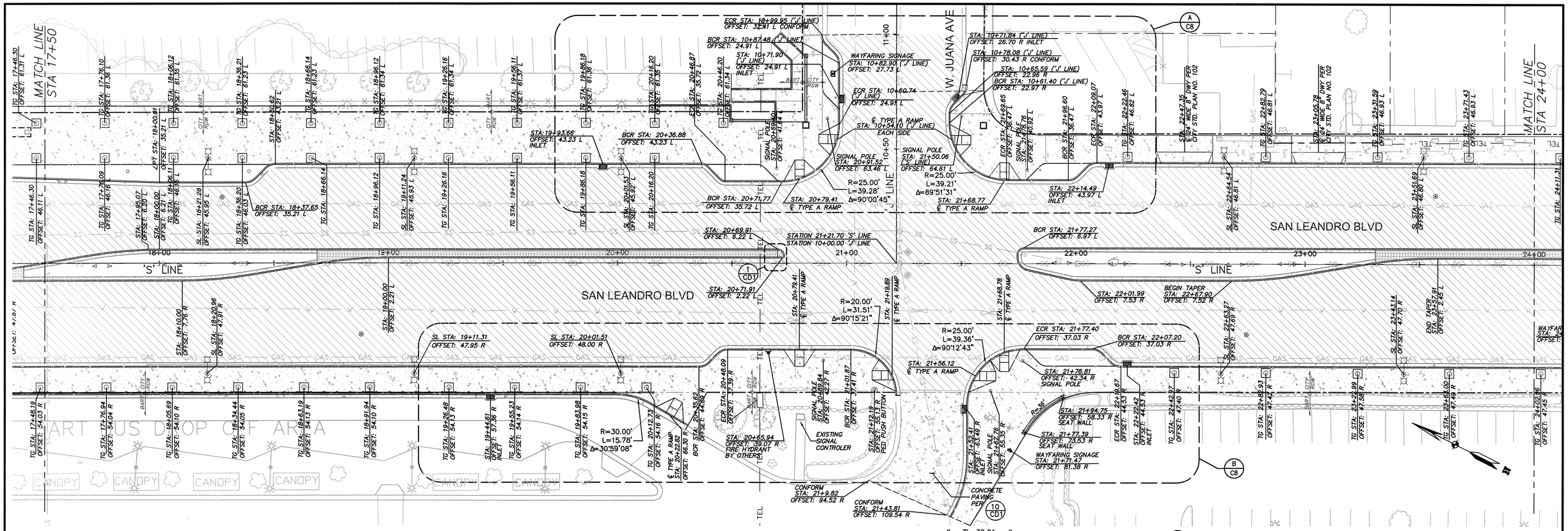
AT FULL SIZE THIS LINE MEASURES 1"

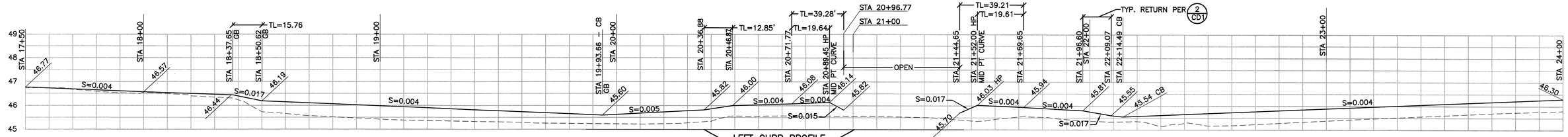
SHEET 10 OF 80

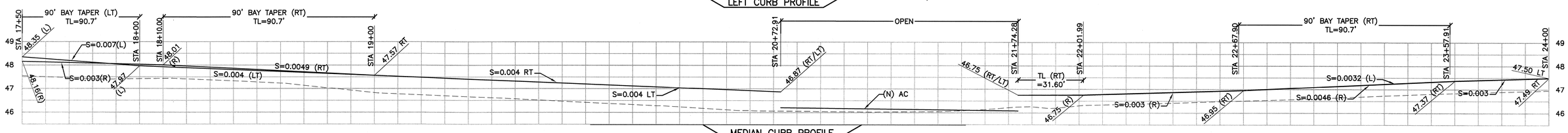
JOB NO. 150-38-331

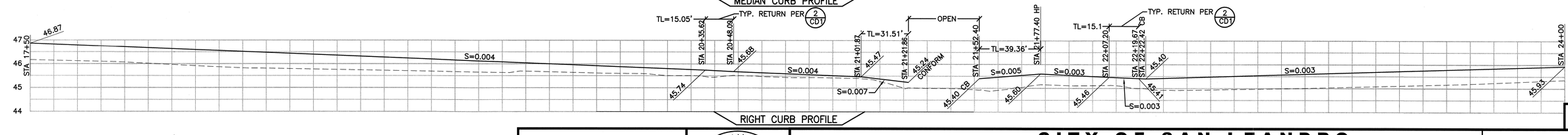
SCALE 1"-20'

DWG 3611 CASE 202









C3

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

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CITY ENGINEER, R.C.E. No. 34870

CITY OF SAN LEANDRO

BART-DOWNTOWN PEDESTRIAN INTERFACE PLAN & PROFILE STATION 17+50 TO 24+00

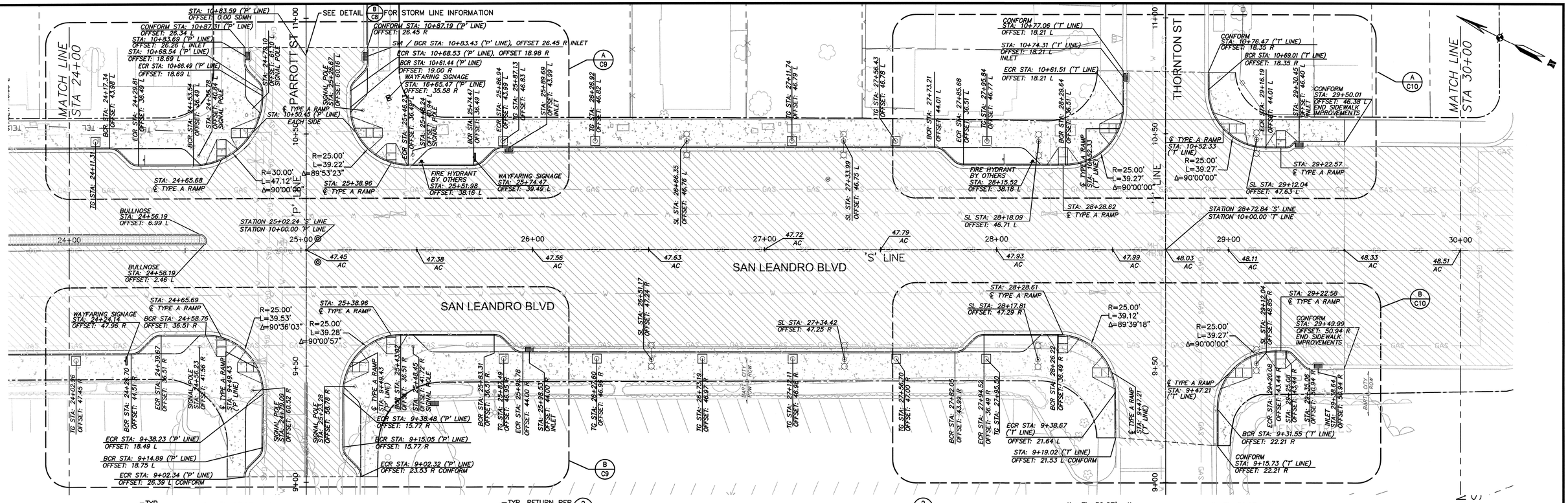
AT FULL SIZE THIS LINE MEASURES 1"

SHEET 11 OF 80

JOB NO. 150-38-331

SCALE 1"=20'

DWG 3612 CASE 202



C4

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BART-DOWNTOWN PEDESTRIAN INTERFACE PLAN & PROFILE STATION 24+00 TO 30+00

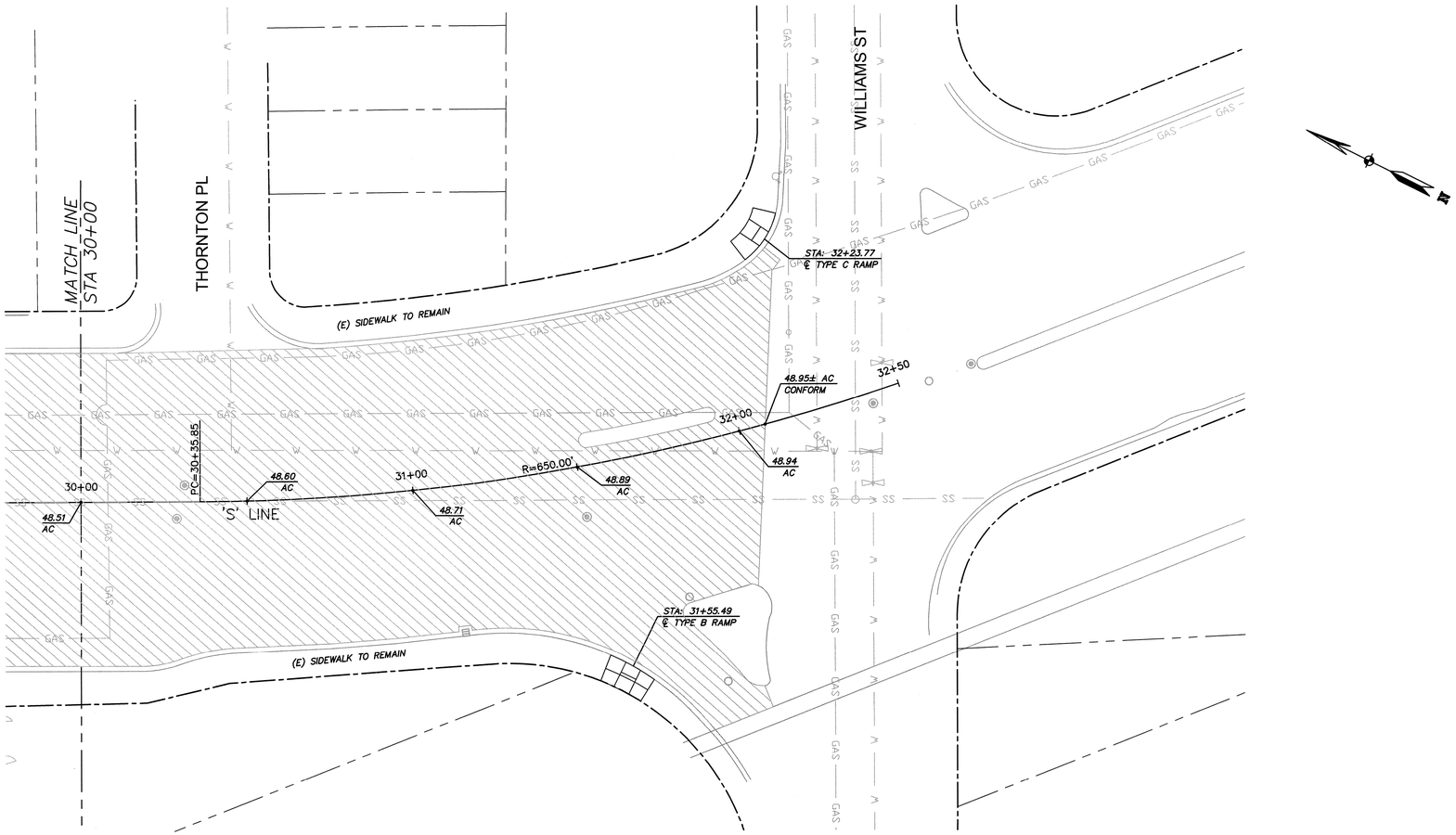
AT FULL SIZE THIS LINE MEASURES 1"

SHEET 12 OF 80

JOB NO. 150-38-331

SCALE 1"-20'

DWG 3613 CASE 202



C5

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No. 34870
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

CITY OF SAN LEANDRO
INCORPORATED 1872

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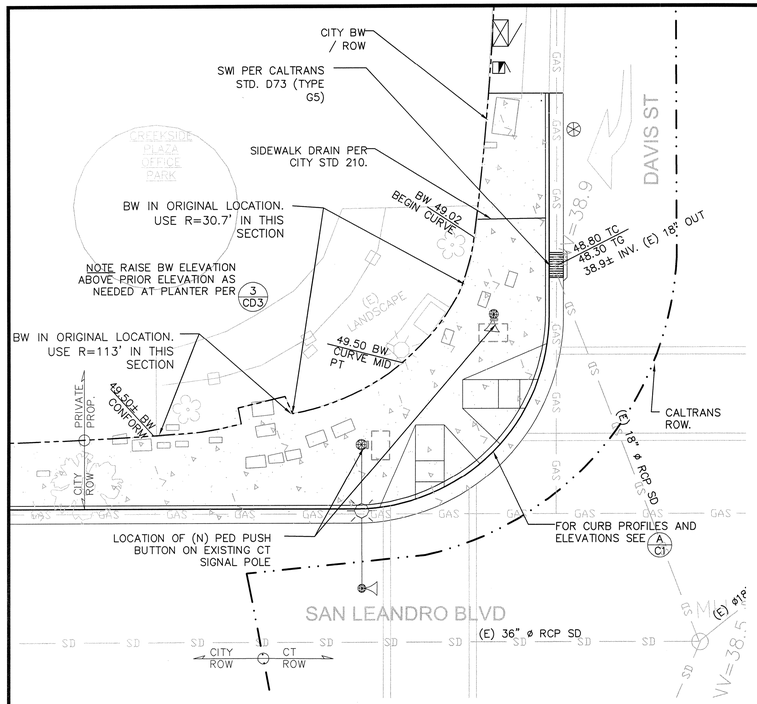
CITY ENGINEER, R.C.E. No. 34870

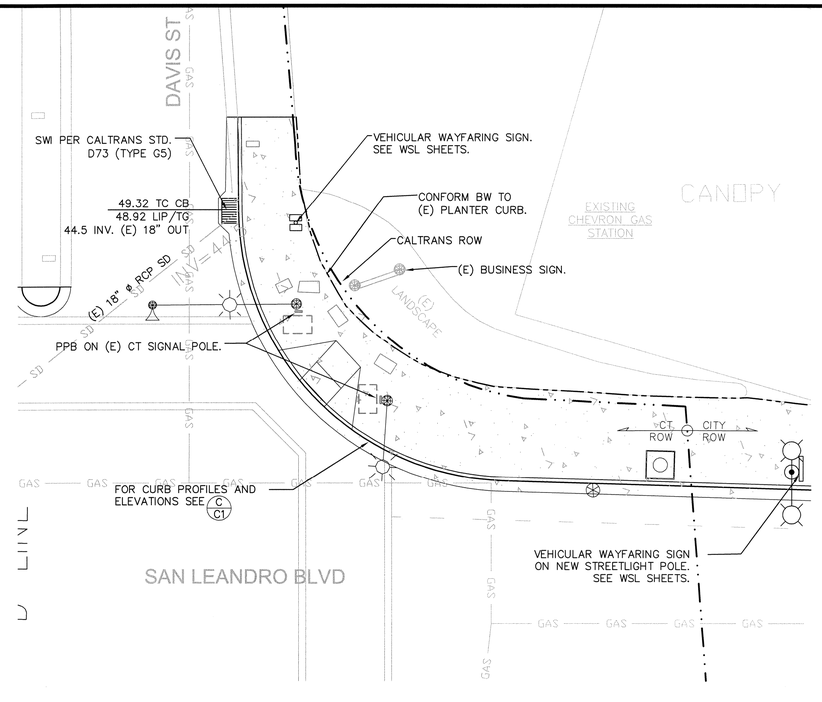
BART-DOWNTOWN PEDESTRIAN INTERFACE PLAN & PROFILE STATION 30+00 TO 32+50

AT FULL SIZE THIS LINE MEASURES 1"

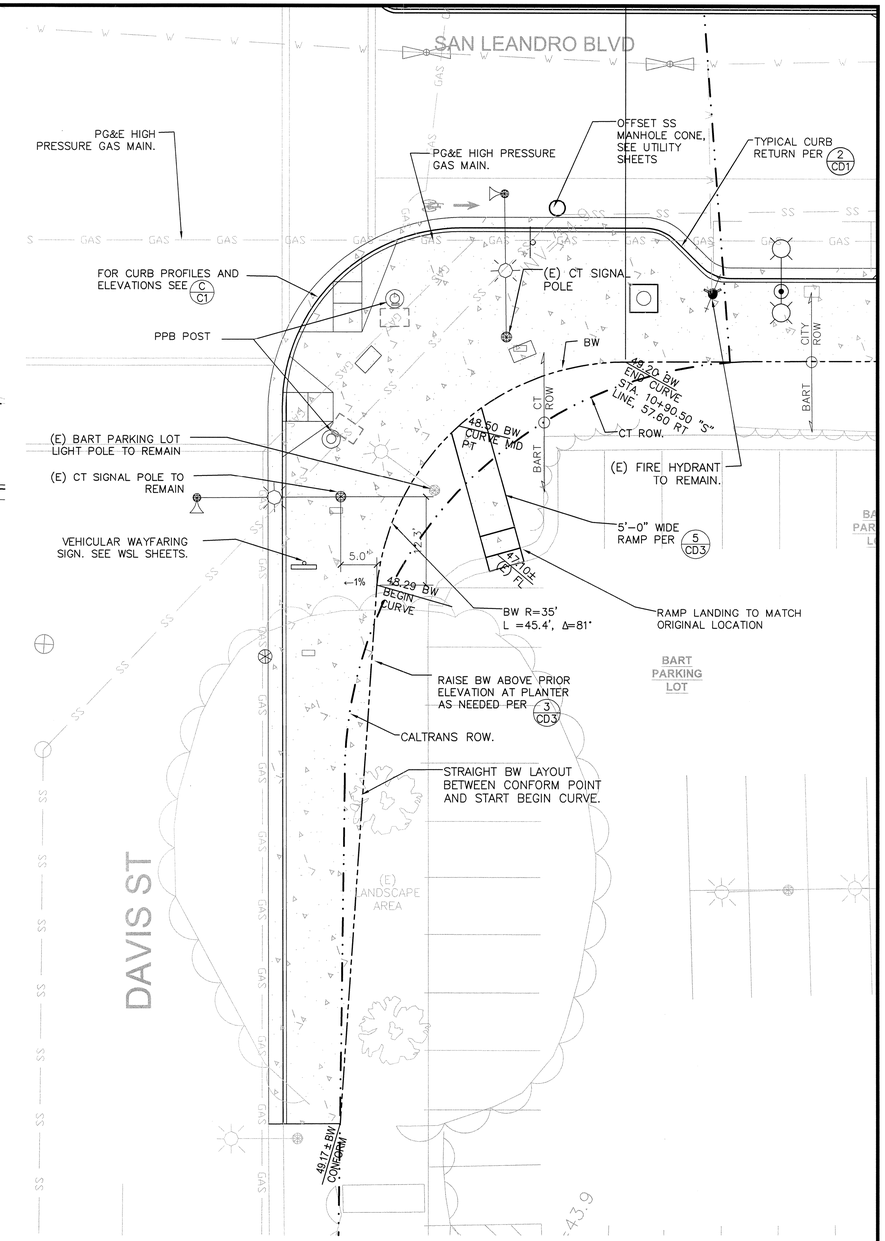
SHEET 13 OF 80
JOB NO. 150-38-331
SCALE 1"-20'
DWG 3614 CASE 202



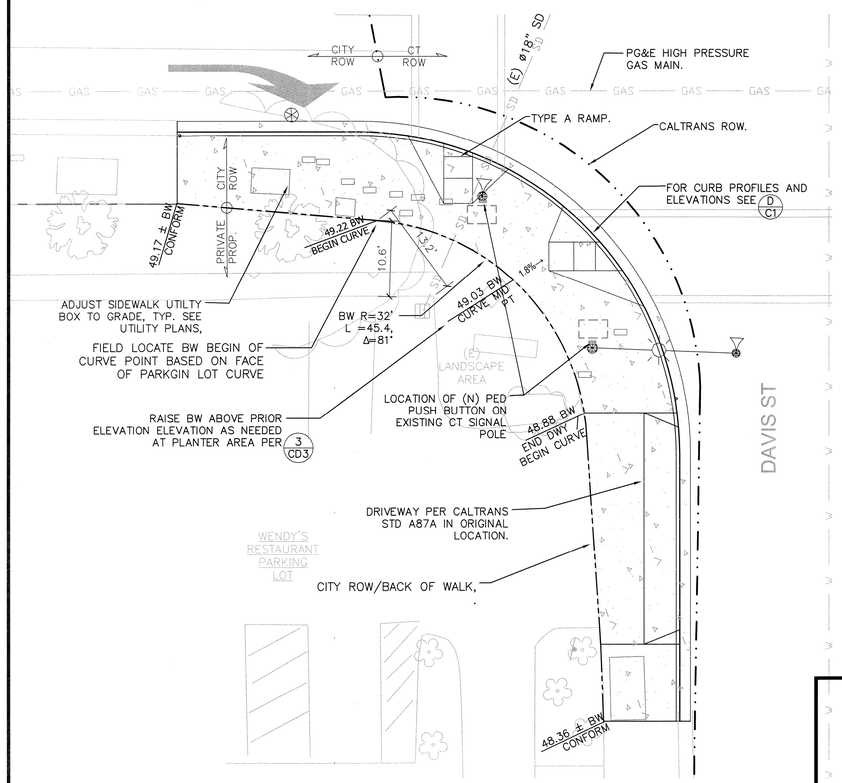
A BULBOUT DETAIL – NORTH DAVIS ST INTERSECTION
Scale: 1" = 10'-0"



B BULBOUT DETAIL – EAST DAVIS ST INTERSECTION
Scale: 1" = 10'-0"



C BULBOUT DETAIL – SOUTH DAVIS ST INTERSECTION
Scale: 1" = 10'-0"



D BULBOUT DETAIL – WEST DAVIS ST INTERSECTION
Scale: 1" = 10'-0"

TYPICAL BULBOUT DETAIL SHEET NOTES:

1. BULBOUT DETAILS ARE TO INTENDED TO PROVIDE ADDITIONAL STORM DRAIN DETAILS AND CLARIFY SCOPE OF WORK ON SIDE STREETS AND BACK OF WALK CONDITIONS. SEE OTHER SHEETS FOR RELATED WORK NOT SHOWN.
2. EXISTING UTILITY BOXES SHALL BE RESET TO GRADE, SEE UTILITY PLAN.
3. SEE SPECIFICATIONS FOR ADDITIONAL PERMIT REQUIREMENTS FOR WORK IN CALTRANS ROW OR BART PROPERTY.
4. BACK OF WALK ELEVATIONS SHALL CONFORM TO EXISTING CONDITIONS AND ELEVATIONS, UNLESS NOTED OTHERWISE ON PLANS
5. WHEELCHAIR CURB CUT RAMPS TO BE TYPE A PER CITY STANDARD PLAN 106 UNLESS NOTED OTHERWISE.

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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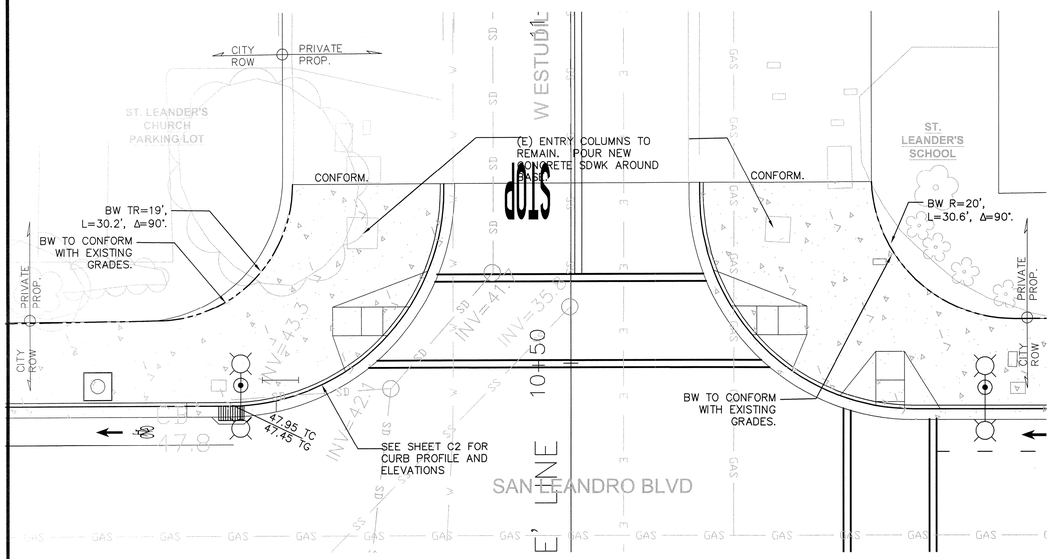
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE
BULBOUT LAYOUT - DAVIS ST

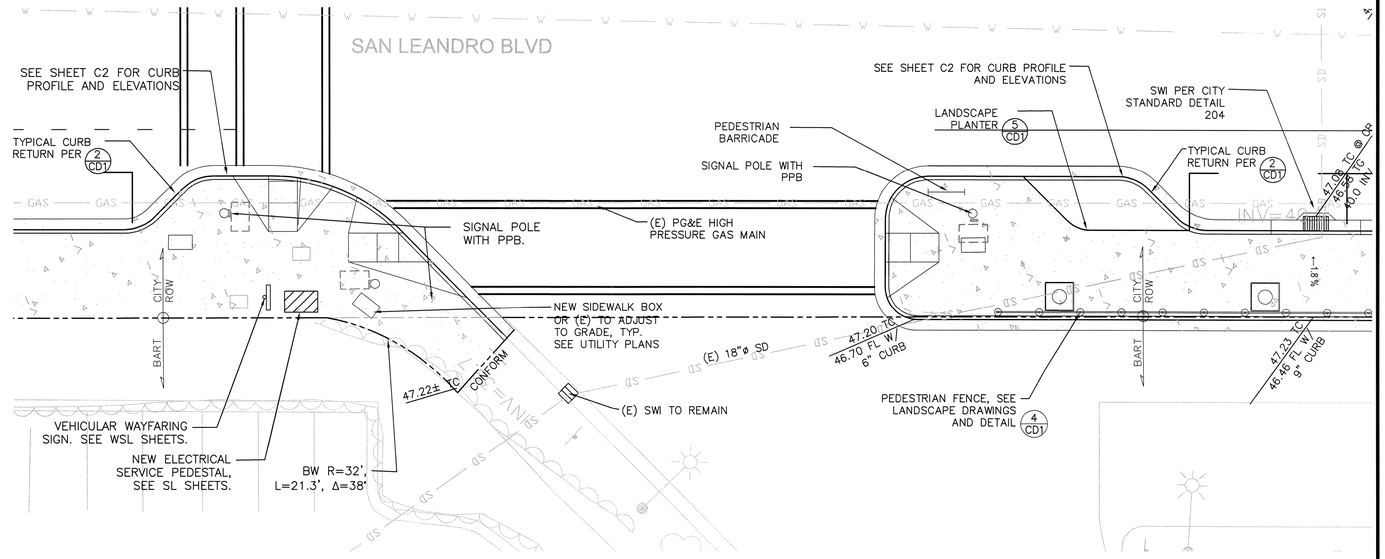
AT FULL SIZE THIS LINE MEASURES 1"

SHEET 14 OF 80
JOB NO. 150-38-331
SCALE AS SHOWN
DWG 3615 CASE 202

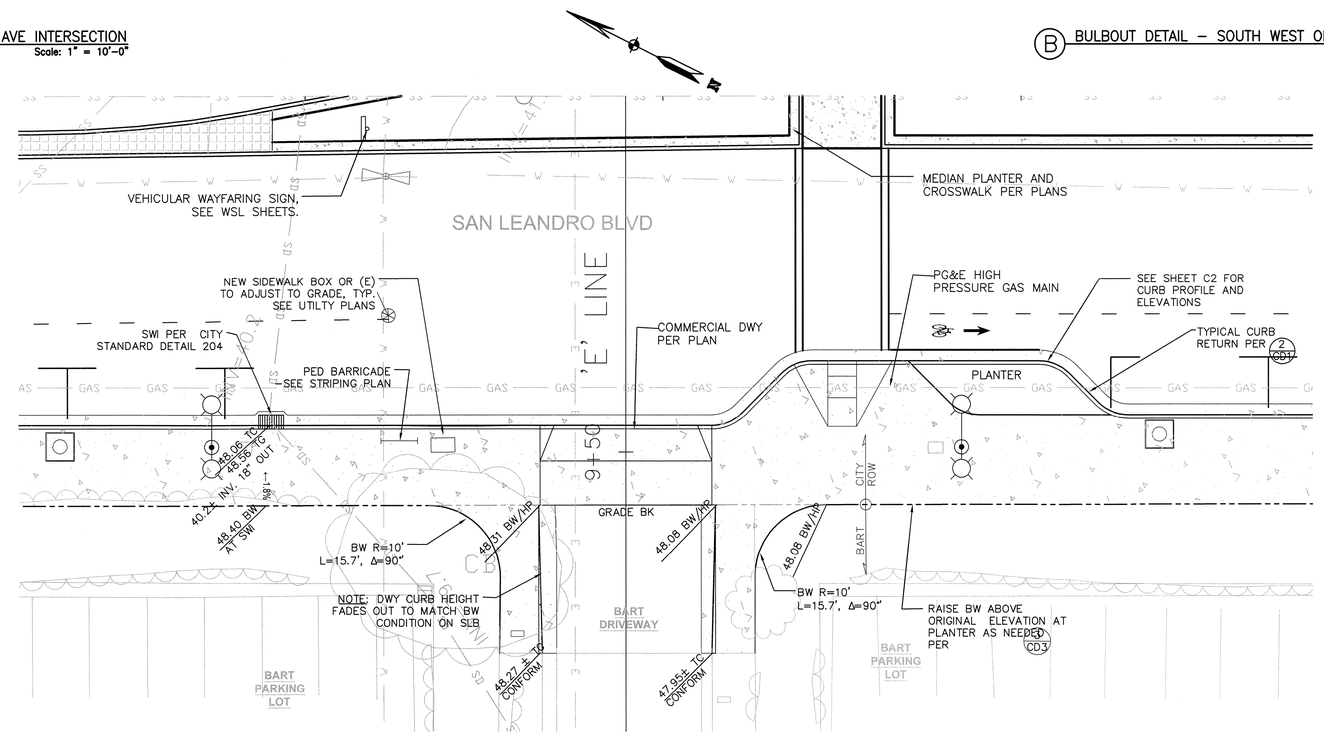
C6



A BULBOUT DETAIL – ESTUDILLO AVE INTERSECTION
Scale: 1" = 10'-0"



B BULBOUT DETAIL – SOUTH WEST OF ESTUDILLO AVE
Scale: 1" = 10'-0"



C BULBOUT DETAIL – WEST OF ESTUDILLO AVE INTERSECTION
Scale: 1" = 10'-0"

C7

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOLDETH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

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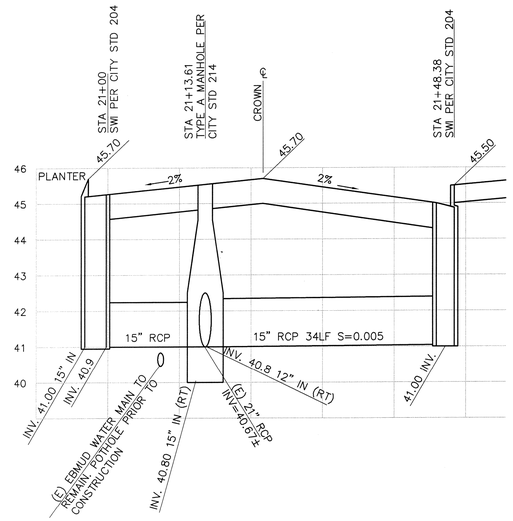
APPROVED BY:		DATE 9/4/12

CITY ENGINEER, R.C.E. No. 34870

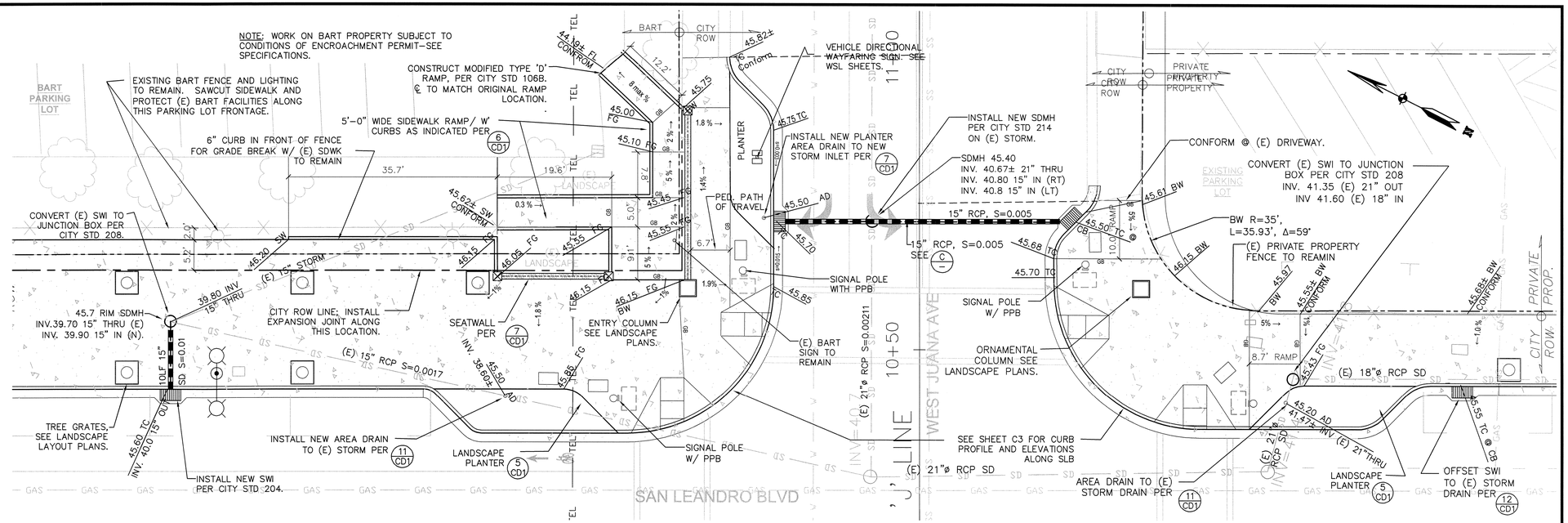
BART-DOWNTOWN PEDESTRIAN INTERFACE BULBOUT LAYOUT - ESTUDILLO AVE

AT FULL SIZE THIS LINE MEASURES 1"

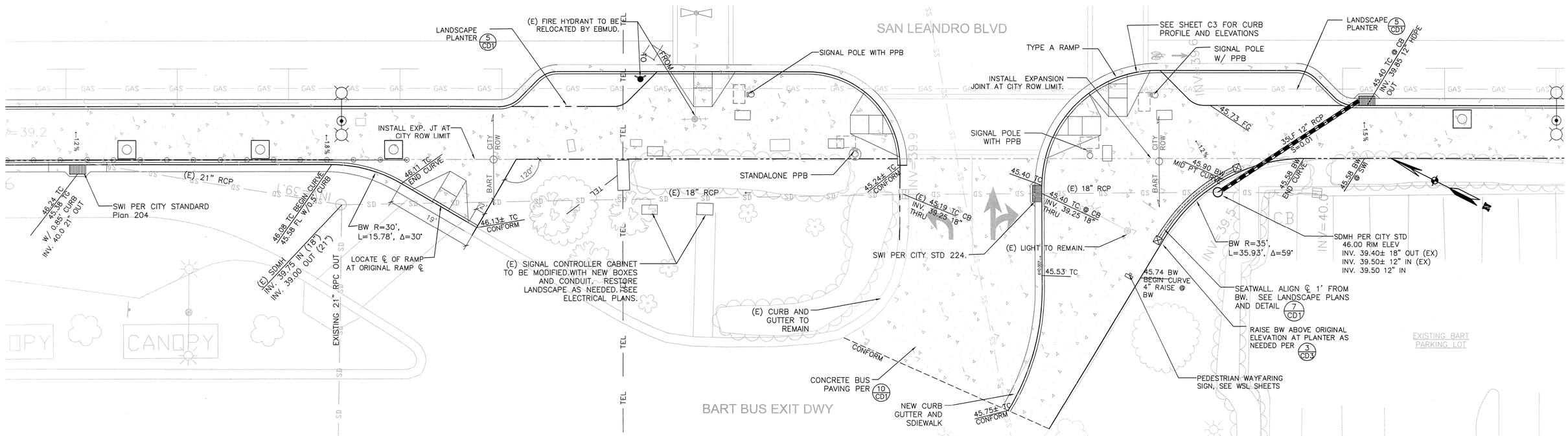
SHEET 15 OF 80
JOB NO. 150-38-331
SCALE AS SHOWN
DWG 3616 CASE 202



C STORM DRAIN PROFILE WEST JUANA CROSSING
Scale: 1" = 10'-0" H
Scale: 1" = 2'-0" V



A BULBOUT DETAIL – EAST W JUANA AVE INTERSECTION
Scale: 1" = 10'-0"



B BULBOUT DETAIL – WEST OF W JUANA AVE INTERSECTION
Scale: 1" = 10'-0"

C8

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION

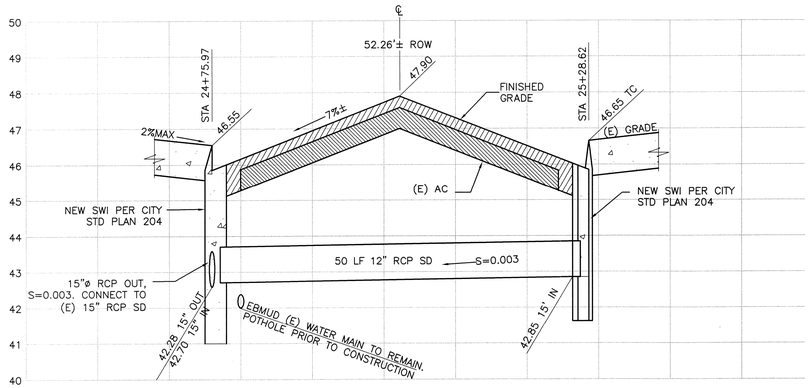
CITY OF SAN LEANDRO

DESIGNED BY MJG DATE
DRAWN BY AMS DATE
PROJECT MGR. MJG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. DATE 8/31/12
APPROVED BY: DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870

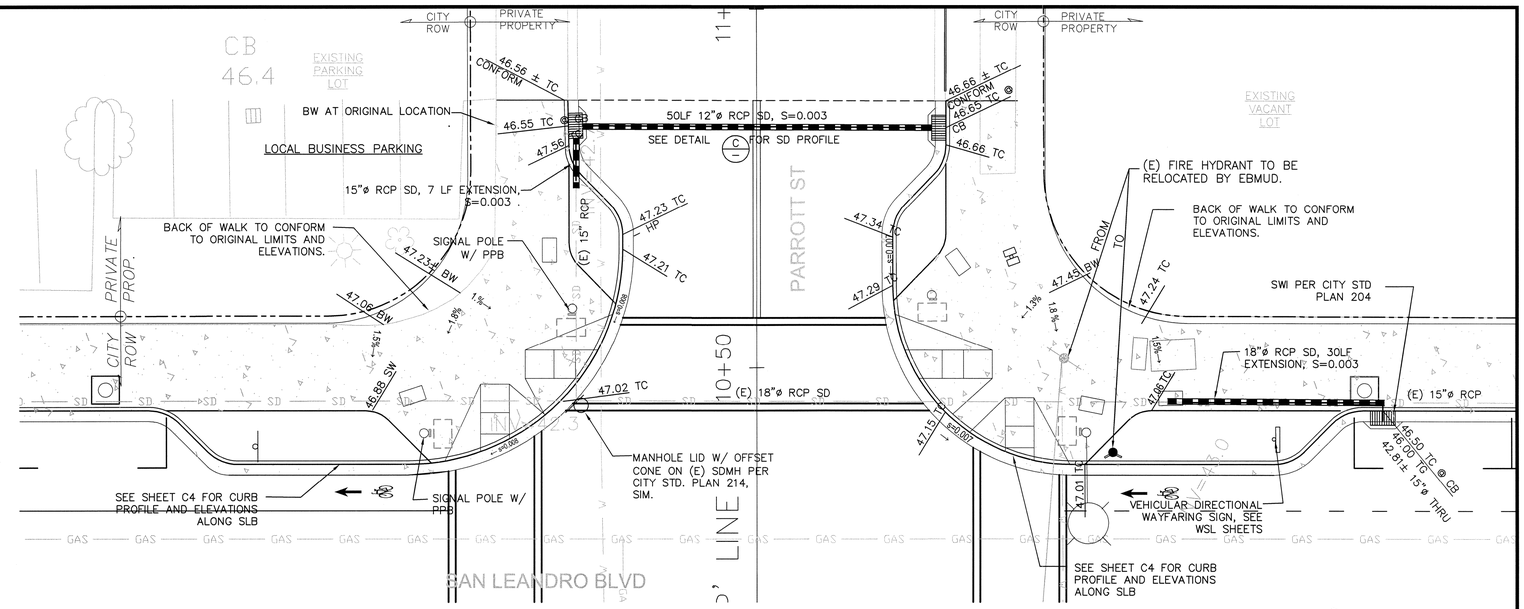
BART-DOWNTOWN PEDESTRIAN INTERFACE BULBOUT LAYOUT - W JUANA AVE

AT FULL SIZE THIS LINE MEASURES 1"

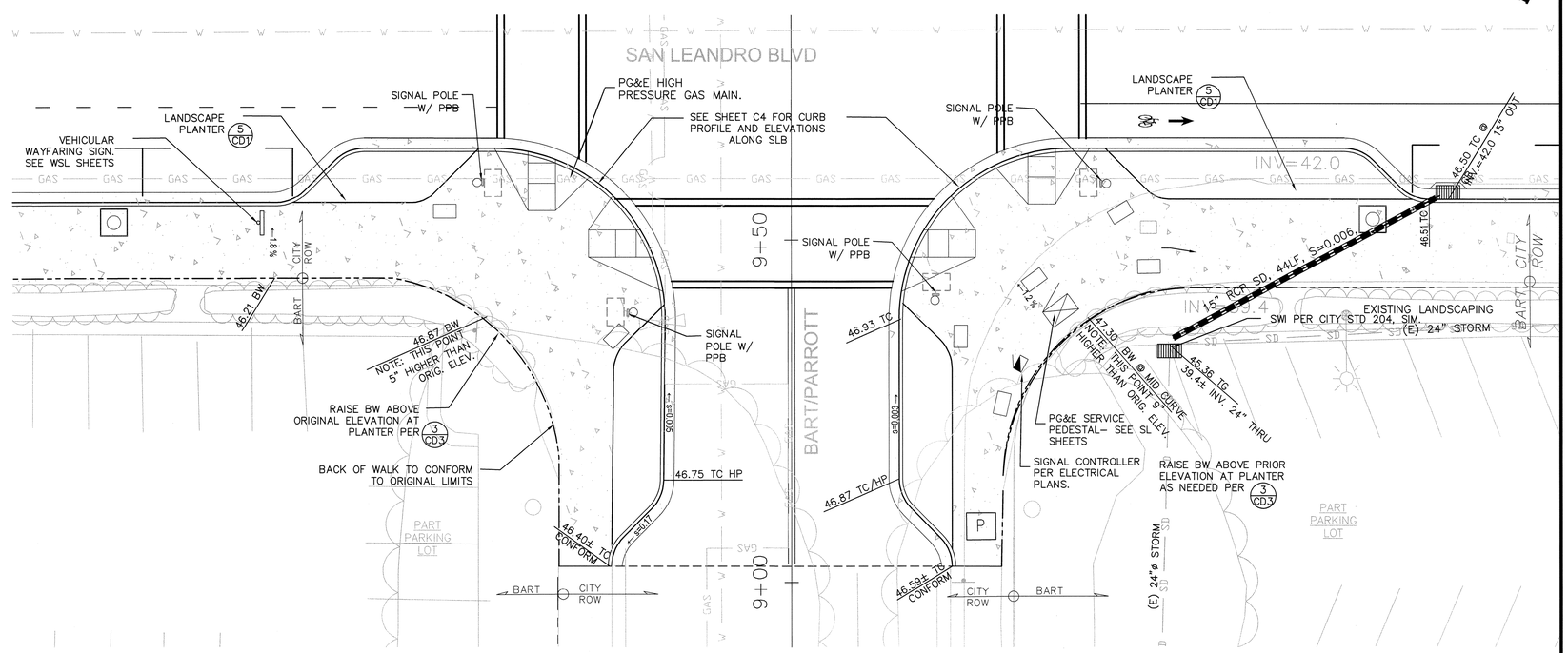
SHEET 16 OF 80
JOB NO. 150-38-331
SCALE AS SHOWN
DWG 3617 CASE 202



C STORM DRAIN PROFILE PARROT STREET CROSSING
Scale: 1" = 10'-0" H
Scale: 1" = 2'-0" V



A BULBOUT DETAIL – EAST PARROTT ST INTERSECTION
Scale: 1" = 10'-0"



B BULBOUT DETAIL – WEST PARROTT ST INTERSECTION
Scale: 1" = 10'-0"

C9

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

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NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY	MJG	DATE 8/31/11
DRAWN BY	AMS	DATE
PROJECT MGR.	MJG	DATE 8/31/12
TRANS ADMIN.	RJC	DATE 8/31/12
SENIOR ENGR.		DATE 8/31/12
APPROVED BY:		DATE 9/4/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE BULBOUT LAYOUT - PARROTT ST

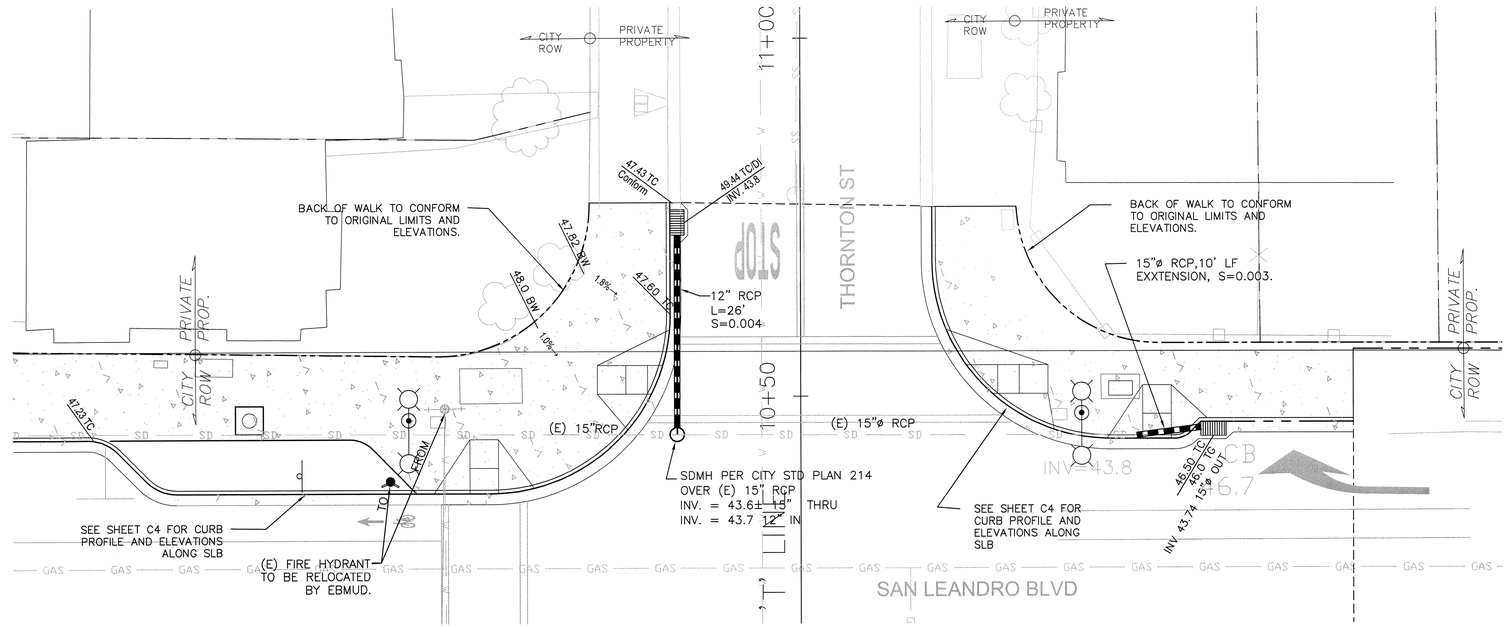
AT FULL SIZE THIS LINE MEASURES 1"

SHEET 17 OF 80

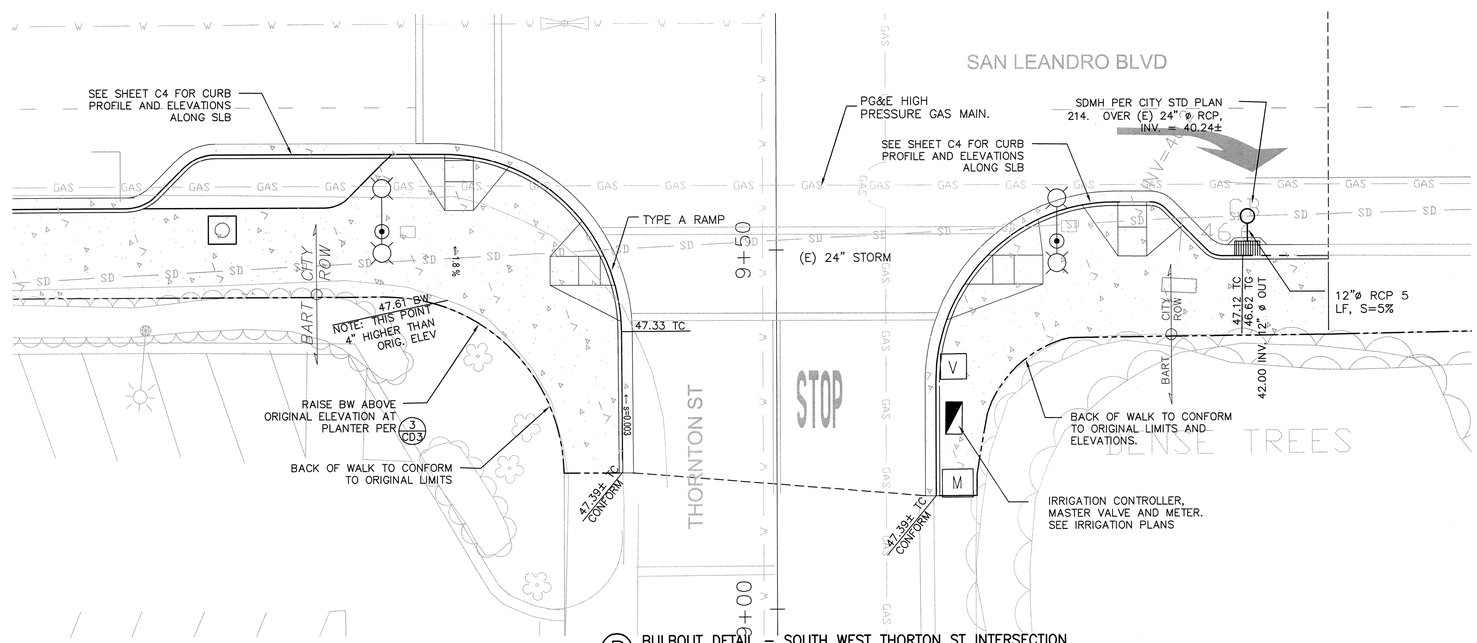
JOB NO. 150-38-331

SCALE AS SHOWN

DWG 3618 CASE 202



(A) BULBOUT DETAIL – NORTH EAST THORTON ST INTERSECTION
Scale: 1" = 10'-0"



(B) BULBOUT DETAIL – SOUTH WEST THORTON ST INTERSECTION
Scale: 1" = 10'-0"

C10

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY	MJG	DATE	8/31/12
DRAWN BY	AMS	DATE	
PROJECT MGR.	MJG	DATE	8/31/12
TRANS ADMIN.	RLC	DATE	8/31/12
SENIOR ENGR.		DATE	8/31/12
APPROVED BY:		DATE	9/4/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE BULBOUT DETAIL THORTON ST

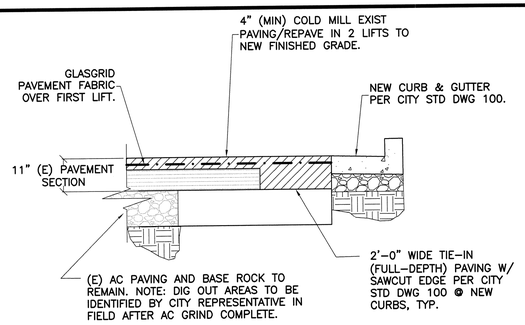
AT FULL SIZE THIS LINE MEASURES 1"

SHEET 18 OF 80

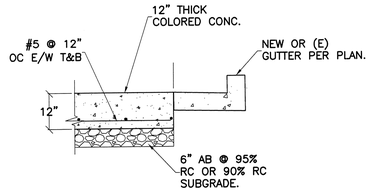
JOB NO. 150-38-331

SCALE AS SHOWN

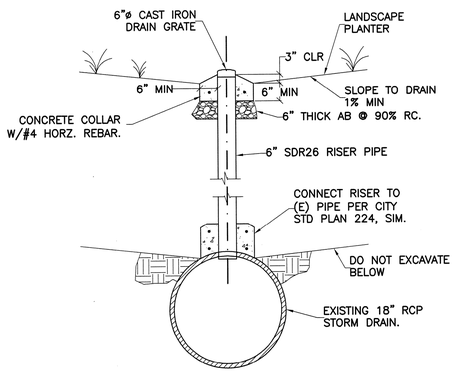
DWG 3619 CASE 202



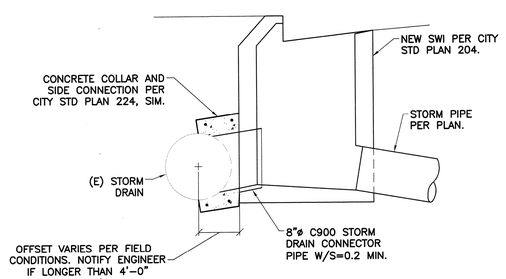
9 TYPICAL PAVEMENT SECTION
Scale: 1" = 2'-0"



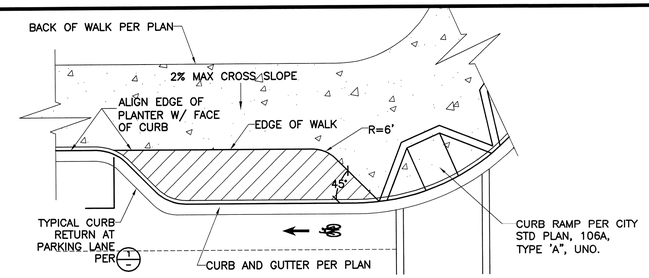
10 CONCRETE BUS AREA PAVING
Scale: 1" = 2'-0"



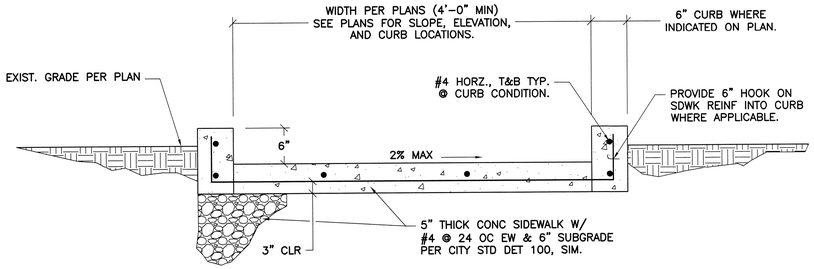
11 LANDSCAPE AREA DRAIN CONNECTION TO EXISTING STORM
Scale: 1" = 2'-0"



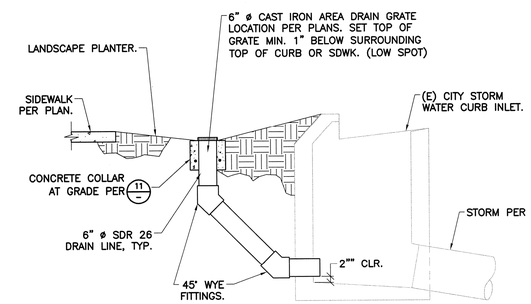
12 LANDSCAPE AREA DRAIN TO STORM WATER CURB INLET
Scale: NTS



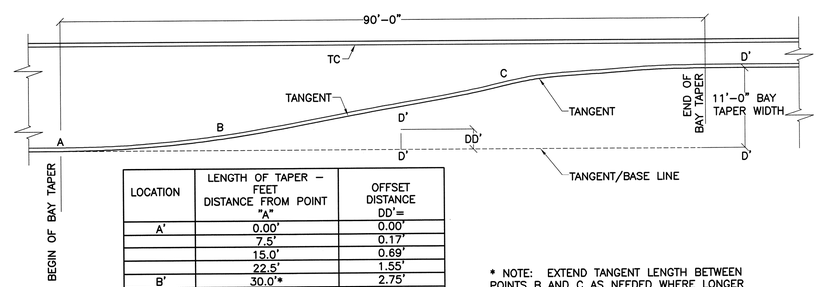
5 DETAIL – TYPICAL PLANTER LAYOUT AT BULBOUT
Scale: 1" = 10'-0"



6 DETAIL – SIDEWALK ACCESS RAMP (W/CURBS)
Scale: 1" = 10'-0"



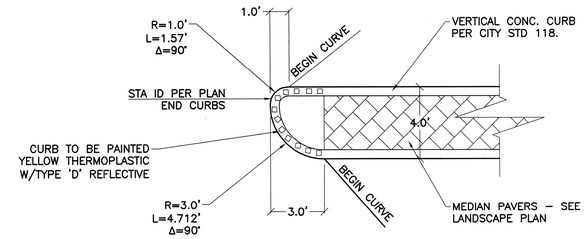
7 LANDSCAPE AREA DRAIN TO STORM WATER CURB INLET
Scale: 1/2" = 1'-0"



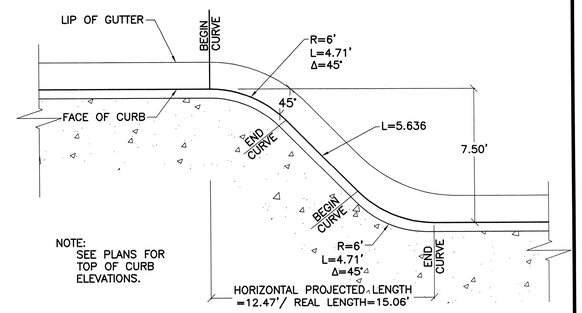
LOCATION	LENGTH OF TAPER – FEET DISTANCE FROM POINT "A"	OFFSET DISTANCE DD'=
A'	0.00'	0.00'
	7.5'	0.17'
	15.0'	0.69'
	22.5'	1.55'
B'	30.0'*	2.75'
	45.0'*	5.50'
C'	60.0'*	8.25'
	67.5'	9.45'
	75.0'	10.31'
	82.5'	10.83'
D'	90.0'	11.00'

* NOTE: EXTEND TANGENT LENGTH BETWEEN POINTS B AND C AS NEEDED WHERE LONGER BAY TAPERS ARE SPECIFIED.

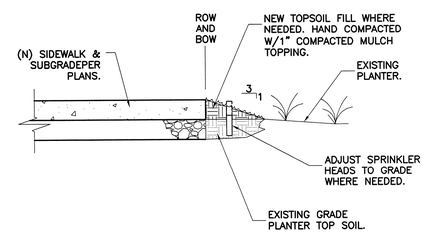
8 DETAIL – TYPICAL BAY TAPER
Scale: 1" = 10'-0"



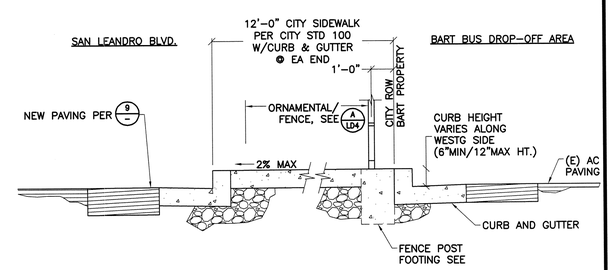
1 DETAIL – TYPICAL 4' WIDE MEDIAN BULLNOSE
Scale: 1/4" = 1'-0"



2 DETAIL – TYPICAL CURB RETURN @ PARKING LANE
Scale: 1/4" = 1'-0"



3 DETAIL – BACK OF WALK @ PLANTER
Scale: 1" = 10'-0"



4 SECTION–SIDEWALK @ BART BUS DROP-OFF FRONTAGE
Scale: 1/2" = 1'-0"

CD1

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

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NO.	DATE	REVISION

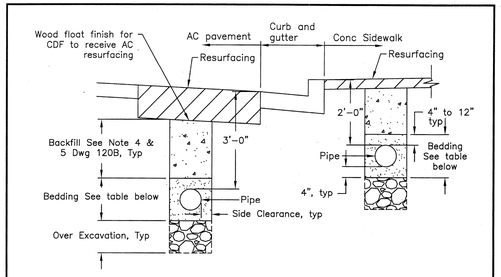
CITY OF SAN LEANDRO

DESIGNED BY MJG DATE 8/31/12
DRAWN BY AMS DATE
PROJECT MGR. MG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. DATE 8/31/12
APPROVED BY: DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE DETAILS

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 19 OF 80
JOB NO. 150-38-331
SCALE AS NOTED
DWG 3620 CASE 202



All work to be done in accordance with the notes on drawing 120B Case 3101.

Cover shown is minimum except that cover under the sidewalk may be reduced to 18" for galvanized rigid metal, type K copper, ductile iron, and cast iron pipe 6" diameter or smaller.

When street gutters are not at equal elevations cover is measured from the low side of the street.

Bedding shall be per the table below.

Bedding			
Pipe or Conduit	Material	Side Clearance Min.	Side Clearance Max.
All solid wall with d=6" or less	Sand	4"	4"
All perf pipe with d=6" or less	3/4" Crushed Rock	4"	4"
Plastic, DIP, and CMP with 6"<d<15"	3/4" Crushed Rock	8"	12"
Plastic, DIP, and CMP with d>15"	3/4" Crushed Rock	12"	18"
RCP and VCP with d>6"	Crushed AB	6"	12"

ACAD FILE NO.C3101010120A.DWG

CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY

TRENCH BACKFILL

APPROVED Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/13

DRAWN NT/AMS CHECKED KJ/KRC DATE May 2012 SCALE NONE SHEET 1 OF 2 DWG. NO. 120A CASE 3101

7 STANDARD PLAN NTS

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. Over Excavation. Bottom of trenches shall be firm, unyielding, and acceptable to the City Engineer. When trench bottoms are unacceptable. Contractor shall over excavate and install 12" of 2" crushed rock.
3. Bedding: Crushed rock bedding shall be installed in two lifts minimum. Bedding for perforated pipes shall be wrapped in filter fabric. Bedding shall be compacted to the same percentage as backfill.
4. Backfill: Backfill shall be crushed aggregate base (CAB) or crushed miscellaneous base (CMB). Backfill 5'-0" below finished grade and lower shall be compacted to 90% relative compaction. Backfill less than 5'-0" below finished grade shall be compacted to 95% relative compaction. JETTING IS NOT ALLOWED. Backfill in landscape areas may be native material, free from trash, debris, and other objectionable substances compacted to 90% relative compaction regardless of depth. Contractor shall provide compaction testing of backfill material by a City approved lab. Certified test results shall be provided to the City Engineer prior to resurfacing.
5. CDF: Controlled density fill (CDF), also known as controlled low strength material (CLSM), meeting the specification herein may be used in lieu of backfill or bedding except that CDF shall not be used for bedding below any pipe or around perforated pipes. Contractor shall anchor pipes, place CDF in lifts, and take any measures necessary to prevent pipe flotation and eliminate voids.
   28 day compressive strength: 50psi to 150psi
   3/8" max aggregate. Min 60% of aggregate passing 3/8" sieve.
   ASTM C-150 type II cement, 30lbs to 40lbs per cubic yard.
   Fly ash meeting ASTM C-618 for class F pozzolans, 300lbs per cubic yard max.
   Air entraining agent meeting ASTM C-260 yielding 7% entrained air min.
6. Resurfacing: Provide resurfacing per standard drawings. Drawing 100, 102, and 104 contain requirements for most concrete replacement. Drawing 122A, 122B and 122C contain requirements for most AC replacement.
7. Pipes shall not be stacked or located within 4" horizontally of each other.
8. PVC for storm drainage or sanitary sewer shall be SDR 26. Conduit for electrical systems shall be UL listed. Conduit for potable water shall be NSF approved. Ductile iron pipe shall be installed with loose polyethylene encasement in accordance with AWWA C 105.
9. All plastic pipe, conduit, or sleeves shall be Schedule 40 or SDR 26 minimum and shall be UL listed if for electrical systems or NSF approved for potable water or sanitary systems. A bare #8 stranded tracing conductor and pull rope shall be installed in all non-electrical or empty plastic pipes or conduits, terminate w/36" coil in a splice box, Christy F1 or equal. A #8 Tracing conductor Type THHN in conduit or Type UF taped 5' O.C. on the exterior of all water or sanitary pipelines is required.
10. In accordance with Government code Section 4216.4 (a): When an excavation is within the approximate location of subsurface installation, the excavator shall determine the exact location of subsurface installations by excavating with hand tools within the area of the subsurface installations before using any power operated or power driven excavating of boring equipment.

ACAD FILE NO. C3101012O8 Rev4.DWG

CITY OF SAN LEANDRO * STANDARD PLANS

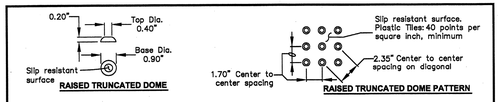
NO.	REVISIONS	DATE	BY
2	Updated all notes	5/29/12	NT

TRENCH BACKFILL NOTES

APPROVED Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/13

DRAWN NT/AMS CHECKED KJ/KRC DATE May 2012 SCALE NONE SHEET 2 OF 2 DWG. NO. 120B CASE 3101

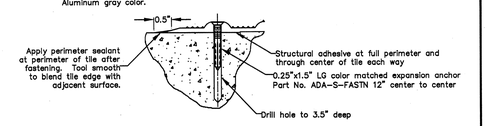
8 STANDARD PLAN NTS



15. TRUNCATED DOMES – PLASTIC TILES: Tiles shall be "Armor Tile" as manufactured by Engineered Plastics Inc., Tel: (800)-682-2525, or approved equal. Tiles shall be a single tile, full width x 36" deep nominal, manufactured of an epoxy polymer composite with an ultraviolet stabilized, colorfast coating employing aluminum oxide particles in the truncated cones. Color shall be Safety Yellow (Federal Color #33538). The tile shall incorporate an in-line pattern of truncated domes; 0.20" in height, 0.90" diameter at the base, and 0.40" diameter at the top of dome, spaced 2.35" nominal as measured on a diagonal and 1.70" nominal as measured side by side; rows shall be oriented parallel with ramp direction; domes shall be aligned throughout entire detectable surface area. The field area shall consist of a nonslip surface with a minimum of 40-90 raised points .045" high, per square inch. The tile shall be manufactured with embedment flanges, 3" center to center, 1" min. depth with 5/16" diameter holes, 3 holes minimum per flange. Where tiles are cut, sealant shall be worked under the tile along perimeter wherever the embedment flange is removed.

16. TRUNCATED DOMES – CONCRETE: Upon prior approval from Engineer high strength concrete panels reinforced with pre-stressed stainless steel strands may be used. Concrete panels shall be CASTinTACT Detectable Warning Panels Tel: (530) 878-2440 or approved equal; two panels max to achieve full width x 36" deep nominal; 7/8" thick, 69 MPa (10,000 psi) high strength concrete; 1/16" Type 304 SS pre-stressed reinforcement strands 4" O.C. each way and along edges; color shall be yellow unless otherwise specified. Installation shall be per manufacturers directions.

17. TRUNCATED DOMES – SURFACE APPLICATION: Upon prior approval from Engineer, retrofit and unique circumstances may allow surface application:
   a. Surface applied detectable tiles shall be "Armor Tile" manufactured without embedment flanges and the edges shall be beveled, sloped at 1:2 maximum. When the detectable surface edge and/or dome is cut and the resulting edge is not flush with the surface of the ramp, the edge shall be beveled or conformed with perimeter sealant at 1:2 maximum slope in accordance with the manufacturer's requirements.
   b. Adhesive: Urethane electrometric adhesive by Sika Corp., Uniroyal, Mapei, Bostik, or approved equal.
   c. Fasteners: Color matched, corrosion resistant, flat head drive anchor: 1/4" diameter x 1-3/4" long, 12" center to center both directions minimum. Armor-Drive by Engineered Plastics or approved equal.
   d. Perimeter Sealants: Epoxy two component sealant by Powers, Simpson, Hilti or approved equal. Aluminum gray color.



ACAD FILE NO. C3101010BD Rev4.DWG

CITY OF SAN LEANDRO * STANDARD PLANS

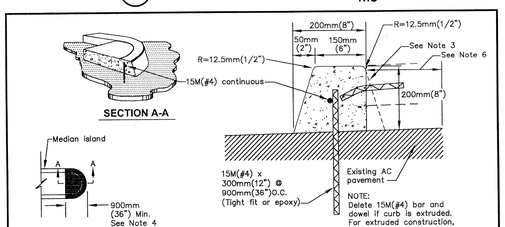
NO.	REVISIONS	DATE	BY
2	Deleted all Metric dimensions	4/24/12	AMS

WHEELCHAIR CURB CUT RAMP DETECTABLE WARNING SURFACE NOTES

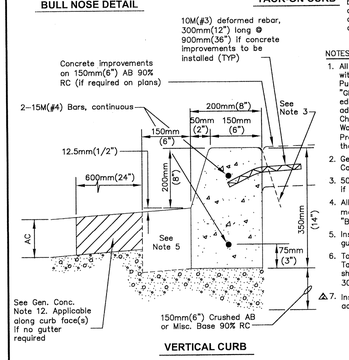
APPROVED Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/13

DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE June 2004 SCALE NONE SHEET 4 OF 4 DWG. NO. 106D CASE 3101

5 STANDARD PLAN NTS



NOTE:
Delete 15M(#4) bar and dowel if curb is extruded. For extruded construction, epoxy resin adhesive shall be applied in lieu of bar and dowel reinforcing. Extruded curb requires PRIOR approval of the City Engineer.



NOTES:
1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) there to adopted by the City.
2. General Concrete Notes Dwg. 104 Case 3101 shall apply.
3. 50mm(2") batter and finish back side if back of curb is exposed.
4. All island noses to be poured monolithically with "Bull Nose" (See "Bull Nose" detail).
5. Install 150mm(6") monolithic spill gutter with curb if required on plans.
6. To provide adequate foundation for Tack-on Curb, the existing pavement shall not be removed to within 300mm(12") of curb.
7. Install 375mm(15") wide maintenance access strip when shown on plans.

ACAD FILE NO. C3101011B Rev2.DWG

CITY OF SAN LEANDRO * STANDARDS

NO.	REVISIONS	DATE	BY
2	ADDED NOTES 7 & 8	9/6/05	
3	REV NOTE 7	9/27/07	AMS

VERTICAL CURB

APPROVED Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/13

DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 1 OF 1 DWG. NO. 118 CASE 3101

6 STANDARD PLAN NTS

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. Concrete shall be 213-C-17 (470-C-2500, 5 sack, one inch maximum aggregate, 2500 psi). Aggregate base (AB) shall be Crushed AB (CAB) or Crushed Miscellaneous Base (CMB).
3. Concrete for curb, gutter, sidewalk and driveway shall contain 0.45kg (one (1) pound) of lampblock per cu. yd. (at batch plant). 1.8kg (4 pounds) of lampblock to be used in the basket weave sidewalk. Decorative finish see note 20.
4. Subgrade and Crushed Aggregate Base or Crushed Misc. Base shall be compacted to not less than 90% relative compaction, as tested by a City approved lab at contractor's expense, except under Valley Gutter, which shall be compacted to 95% RC.
5. Expansion joints shall be constructed at the EC and BC of curb returns, at each side of driveways and at 6m (20') nominal intervals. 1/4" bituminous impregnated felt, ASTM 994 shall be installed vertically, shall extend through the full depth and width of the work and be installed perpendicular to the work. Weakened-plane joints, 2" deep for sidewalks, 3" deep for 6" thick driveways, and 4" deep for (8" thick driveways), shall be spaced at 10'-0" nominal intervals, and at each side of curb ramps, mid-points of driveways with curb cuts exceeding 20'-0" and as directed by the City Engineer. All joints shall extend through the curb and gutter.
6. Exposed surfaces of sidewalk, driveway, curb and gutter shall be steel trowled followed by a medium broom finish.
7. Except as shown Dwg 100, all exposed edges, including at expansion joints and weakened-plane joints, shall be tooled to 1/2" radius. Decorative finish see note 20.
8. Sidewalk shall be score marked at 30" nominal intervals each way or to match existing score marks. Monolithic curb, sidewalk and driveway shall have a continuous score mark 6" from curb face.
9. All concrete shall be cured by keeping continuously moist for three days after pouring either by sprinkling, covering with a waterproof membrane, or applying TYPE 1 concrete curing compound. Decorative finish see note 20.
10. Extruded curb or gutter requires PRIOR approval by the City Engineer. Extruded sidewalks or driveways are prohibited.
11. For existing AC overlayed gutter, flow line of new concrete gutter shall match existing concrete gutter flow line. Curb lip at driveways shall be increased to 1/2" higher than AC overlay. AC overlay shall be reinstated to establish flow line.
12. All gutter lips, sidewalk, curb ramp or driveway edges, or curbings constructed adjacent to AC, shall be formed, finished and tooled. A 24" wide full depth AC street structural section shall be constructed adjacent to the concrete improvement in accordance with Pavement Tie-in Dwg. 128 Case 3101. The AC shall be saw cut and the AC section shall be a minimum of 6" deep on minor streets, parking lots, pathways, etc., 9" deep on collector streets and 12" on arterial streets. All AC 95% RC SS-1h Tack Coat (paint binder) all hard surfaces (AC, Conc., etc.).
13. All concrete improvements shall be doweled to adjacent concrete improvements using 300mm (12") long 10M (#3) rebar dowels (2 dowels min. each side) at 36" OC max. 4" min. embedment. Drill for drive tight fit or epoxy in place. Decorative finish see note 20.
14. Dowels shall be installed per Note 13 when planter strips are filled with concrete or when sidewalk is added to the back of the existing walk. Street tree wells shall be provided in accordance with City requirements.
15. All concrete improvements to be removed shall be saw cut along existing scorelines to a minimum depth of 1/2 the thickness of the concrete improvement. No section to be replaced shall be smaller than 30" in either length or width. If the saw cut in sidewalk or driveway would fall within 30" of a construction joint, expansion joint, cold joint, or edge, the concrete shall be removed to the joint or edge, including AB. All saw cut residue shall be vacuumed concurrently with sawing operation.
16. New imported full depth AB shall be placed under all new or replacement curb, gutter, sidewalk and driveway.
17. The typical City standard curb height is 6" and the typical City gutter width is 18". However, existing curb heights 3" to 9" and gutter widths 12" to 24" shall be matched in kind when directed by the City Engineer.
18. Any acts of vandalism or deformation to finish of the concrete shall be repaired within the first 24 hrs. after placement. Repairs made after 24 hrs. of placement shall consist of complete removal and replacement of the affected area.
19. Suitable native soil backfill shall be flush with adjacent concrete finish grade along all form voids and planter strips. Reseed as appropriate.
20. Decorative Finish Concrete Paving shall be colored and finished as shown on plans. Existing decorative finishes shall be matched in kind. Expansion joints shall be constructed and sealed as shown Dwg 100. Curing compound/color hardener/wax sealer matching decorative finish shall be used.

ACAD FILE: C3101010A4 Rev2.DWG

CITY OF SAN LEANDRO * STANDARD PLANS

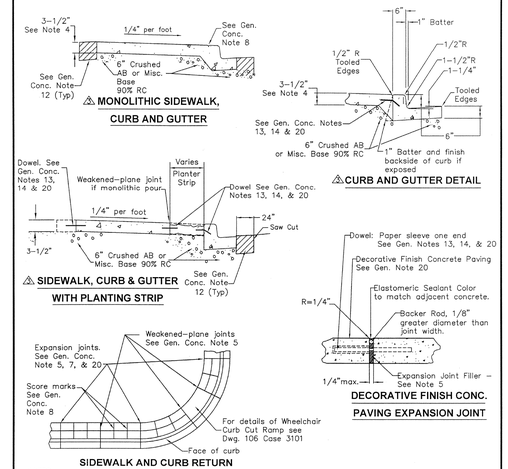
NO.	REVISIONS	DATE	BY
2	Removed Metric Dims	8/23/12	AMS

GENERAL CONCRETE NOTES

APPROVED Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/13

DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 1 OF 1 DWG. NO. 104 CASE 3101

3 STANDARD PLAN NTS



NOTES:
1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. General Concrete Notes Dwg. 104 Case 3101 shall apply.
3. Minimum sidewalk width shall be 6'-0" for residential, 8'-0" for commercial areas unless approved otherwise by City Engineer.
4. Sidewalk contiguous with rolled curb shall be 6" thick.

ACAD FILE: C3101010O Rev3.DWG

CITY OF SAN LEANDRO * STANDARD PLANS

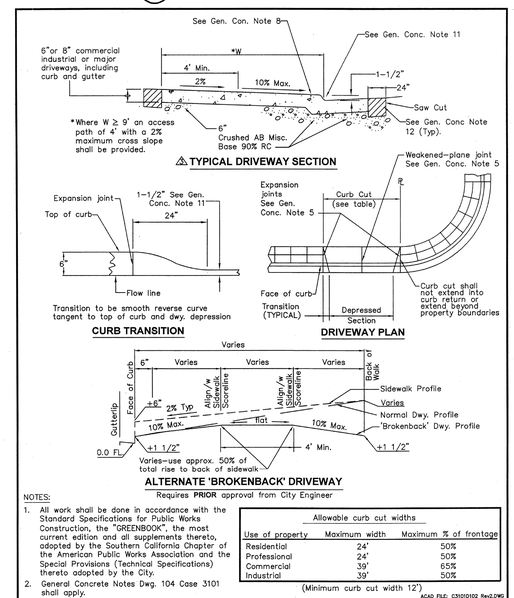
NO.	REVISIONS	DATE	BY
2	Removed "Limit of Pay Item by SF/LF"	8/23/12	AO

CONCRETE CURB, GUTTER AND SIDEWALK

APPROVED Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/13

DRAWN GF/AMS CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 1 OF 1 DWG. NO. 100 CASE 3101

1 STANDARD PLAN NTS



NOTES:
1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. General Concrete Notes Dwg. 104 Case 3101 shall apply.

Allowable curb cut widths

Use of property	Maximum width	Maximum % of frontage
Residential	24'	50%
Professional	24'	50%
Commercial	39'	65%
Industrial	39'	50%

(Minimum curb cut width 12')

ACAD FILE: C3101010 Rev2.DWG

CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY
2	Removed "Limit of Pay Item by SF/LF"	8/23/12	AO
3	Removed metric dimensions	8/23/12	AMS

CONCRETE DRIVEWAY APPROACH

APPROVED Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/13

DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 1 OF 1 DWG. 102 CASE 3101

2 STANDARD PLAN NTS

CD2

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY	MJG	DATE 8/31/12
DRAWN BY	AMS	DATE
PROJECT MGR.	MJG	DATE 8/31/12
TRANS ADMIN.	RLC RLC	DATE 8/31/12
SENIOR ENGR.	AO	DATE 8/31/12
APPROVED BY:		DATE 9/5/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE STANDARD DETAILS

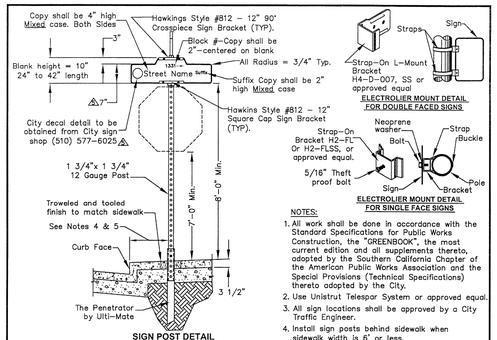
AT FULL SIZE THIS LINE MEASURES 1"

SHEET 20 OF 80

JOB NO. 150-38-331

SCALE NTS

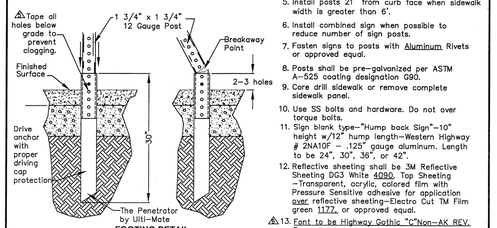
DWG 3621 CASE 202



SIGN POST DETAIL

NOTES:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. Use Unistrut Telespar System or approved equal.
3. All sign locations shall be approved by a City Traffic Engineer.
4. Install sign posts behind sidewalk when sidewalk width is 6' or less.
5. Install posts 21" from curb face when sidewalk width is greater than 6'.
6. Install combined sign when possible to reduce number of sign posts.
7. Fasten signs to posts with Aluminum Rivets or approved equal.
8. Posts shall be pre–galvanized per ASTM A–525 coating designation G90.
9. Core drill sidewalk or remove complete sidewalk panel.
10. Use SS bolts and hardware. Do not over torque bolts.
11. Sign blank type–"Hump back Sign"–10" height x/12" hump length–Western Highway # 2NA10F – .125" gauge aluminum. Length to be 24", 30", 36", or 42".
12. Reflective sheeting shall be 3M Reflective Sheeting DG3 White 4090, Top Sheeting –Transparent, acrylic, colored film with Pressure Sensitive adhesive for application over reflective sheeting–Electro Cut TM Film green 1177, or approved equal.
13. Font to be Highway Gothic "C"Non–AK REV. D.



FOOTING DETAIL

ACAD FILE. C310101S8 Rev4.DWG

CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY
4	"C" Non–AK Rev. D.	2/1/11	CR

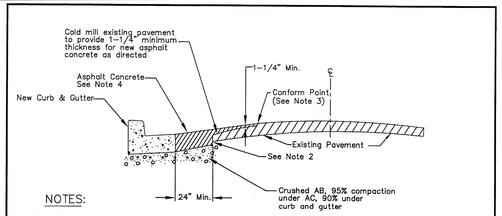
SIGN INSTALLATION AND MOUNTING DETAIL

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/11

DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 1 OF 1 DWG. NO. 138 CASE. 3101

7 – STANDARD PLAN

NTS



NOTES:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. Tie–in pavement section shall be sawcut minimum 1/2 thickness of the (E) AC and the (N) AC section shall be a minimum of 6" deep on local residential streets, parking lots, pathways, etc., 9" on collector streets and 12" on arterial & commercial/industrial streets.
3. Conform point shall be determined by the City Engineer and may occur anywhere between the edge of pavement and the centerline. 2% minimum, 5% maximum cross slope.
4. Maximum installed and compacted thickness of AC lifts shall be per table:

Compaction Equipment	Maximum Compacted Thickness mm (in)
Vibratory Plate	38mm (1–1/2")
Pneumatic Plate	50mm (2")
Vibratory Rammers	50mm (2")
Steel Wheel Roller*	63mm (2–1/2")
Vibratory Roller*	75mm (3")
Pneumatic Tired Rollers	Not Permitted

*Rollers must fit entirely within the trench for base courses.

All base courses shall be mechanically compacted with a rammer or tamper with particular attention to the perimeter and corners of the excavation. Surface course shall be compacted with steel wheeled roller. A vibratory plate may be used for surface course of .37m² (4 sq. ft.) maximum. Caltrans Type A, Medium and all Type B AC mixes are prohibited. AC mixes containing recycled products are allowed for base course only. They are prohibited for surface courses.
Base Course: B–PG64–10 (3/4") Dense Medium Coarse) (Caltrans Type A, Coarse equivalent).
Surface Course: C2–PG64–10 (1/2") Dense Medium) (Caltrans Type A, Coarse equivalent).

5. 95% Relative Compaction minimum all courses. AC shall be tested by a City approved lab at contractor's expense. Certified test results shall be provided to the City Engineer.
6. SS–1h Tack Coat (paint binder) all hard surfaces (AC, PCC, etc.).
7. The City Engineer may specify PG70–10 Paving Grade Asphalt to bridge poor subgrade conditions, or if air temperatures become hot enough to warrant its use, at no additional cost to the City.
8. All striping shall be replaced in kind and must be approved by City Engineer prior to final of project.

ACAD FILE. C310101S5 Rev2.DWG

CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY
4	All Striping to be replaced	4/12/10	NT

PAVEMENT TIE-IN

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/11

DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 1 OF 1 DWG. NO. 128 CASE. 3101

5 – STANDARD PLAN

NTS

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. Final pavement surface shall not vary more than 1/8" from a 10' straight edge (except at changes of grade).
3. Permanent full depth asphalt section resurfacing shall extend a minimum of 12" outside excavation and at least 6" beyond any pavement damaged by excavation.

4a. AC resurfacing shall be extended to any adjacent gutter lip, curb, or cold joint that is within 24" of the Standard Tee cut.
4b. AC resurfacing shall extend to the far side of any adjacent parallel trench, or cracked or failed pavement when the near edge of said feature is within 24" of the Standard Tee cut.
4c. If the Standard Tee cut width is expanded by the above notes and the edge of the Expanded Tee cut is within 12" of any gutter lip, curb, cold joint, or existing trench then the AC resurfacing shall extend to said feature or in the case of an existing trench, to the far side of said feature.

5. Initially saw cut AC even with the excavation walls. Make final saw cut for T section immediately prior to paving. Saw cuts for T section shall be the full thickness of the existing pavement.
6. All saw cut residue shall be vacuumed concurrently with the sawing operations.
7. Seal saw cut extending beyond new pavement with approved crack sealant.
8. Compaction of AC and base shall be tested by a City approved lab at contractor's expense. Certified test results shall be provided to the City Engineer.
9. For Curb, Gutter and Sidewalk resurfacing see Dwg. 100 Case 3101.
For Driveway resurfacing see Dwg. 102 Case 3101.
10. Replace all traffic striping, legends, markings, and markers in kind.
11. The City Engineer may specify PG70–10 Paving Grade Asphalt to bridge poor subgrade conditions, or if air temperatures become hot enough to warrant its use, at no additional cost to the City.
12. Caltrans Type A, Medium and all Type B AC mixes are prohibited. AC mixes containing recycled products are allowed for base course only, but are prohibited for surface courses.
13. Traffic Control Guideline Dwg 608 A, B, & C shall apply.
14. Full Depth Asphalt Section Resurfacing:
All existing pavement shall be removed from the Tee cut. Contractor shall compact subgrade and either install full depth AC or a combination of AC & AB. Minimum AC sections are listed below.
12" Minimum for arterial and commercial/industrial streets.
9" Minimum for collector streets.
6" Minimum for all non–arterial streets, parking lots, pathways, etc.
Base Courses: B–PG64–10 or B–PG64–10–RAP (3/4" Dense Medium Coarse) (Caltrans Type A, Coarse equivalent).
Surface Course: B–PG64–10 (3/4" Dense Medium Coarse) (Caltrans Type A, Coarse equivalent).
Maximum installed and compacted thickness of AC lifts shall be per table:

Compaction Equipment	Maximum Compacted Thickness mm (in)
Vibratory Plate	1–1/2"
Pneumatic Plate	2"
Vibratory Rammers	2"
Steel Wheel Roller*	2–1/2"
Vibratory Roller*	3"
Pneumatic Tired Rollers	Not Permitted

*Rollers must fit entirely within the trench for base courses.

All base courses shall be mechanically compacted with a rammer or tamper with particular attention to the perimeter and corners of the excavation. Surface course shall be compacted with steel wheeled roller. A vibratory plate may be used for surface course of 4 sq.²ft. maximum.

95% Relative Compaction minimum all courses. See Note 8.

SS–1h Tack Coat (paint binder) all hard surfaces. (AC, PCC, etc.)

ACAD FILE NO. C310101222C Rev4.DWG

CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY
4	Saw cut full depth. Demo full depth pvt at Tee cut	7/25/11	NT

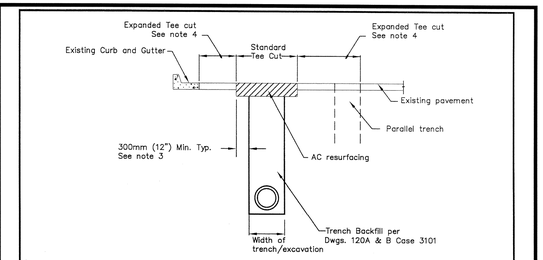
EXCAVATION RESURFACING NOTES

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/11

DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 3 OF 3 DWG. NO. 122C CASE. 3101

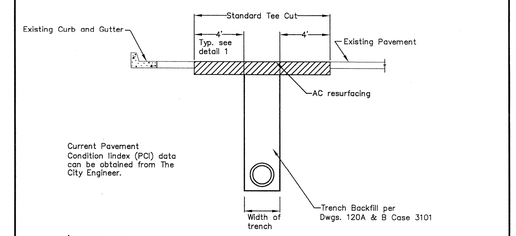
3 – STANDARD PLAN

NTS



DETAIL 1

All excavations in AC pavement with PCI<85 except cores of 12" diameter or less



DETAIL 2

Longitudinal Trenches (parallel to traffic lanes) in AC pavement with PCI >= 85

ACAD FILE NO. C310101222ABC Rev2.DWG

CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY
4	Changed name "Trench Resurfacing" Revised drawings & notes for Details 1 & 2	12/8/08	NT

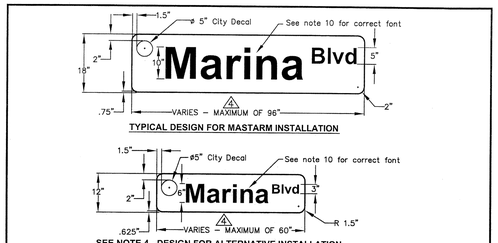
EXCAVATION RESURFACING

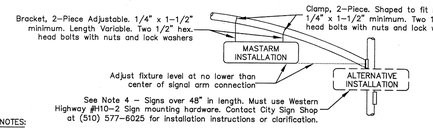
APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/08

DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 1 OF 3 DWG. NO. 122A CASE. 3101

1 – STANDARD PLAN

NTS





NOTES:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. Mastarm Installation–Sign blank shall be 18" x variable length (96" maximum), with 2" radius rounded corners.
3. Sign blank shall be 0.080" gauge aluminum.
4. Alternative Installation – Place sign at this location when Mastarm is non–existent or too short for typical installation. Maximum sign length of 60".
5. Reflective sheeting shall be 3M Reflective Sheeting DG3 White 4090, Top Sheeting –Transparent, acrylic, colored film with Pressure Sensitive adhesive for application over reflective sheeting–Electro Cut TM Film green 1177, or approved
6. Fabricate sign for signal pole mounting and install using Hawkins & Hawkins fixed or adjustable length swing sign brackets or approved equal.
7. City decal detail to be obtained from City sign shop (510) 577–6025
8. Install sign on mastarm where shown on plan.
9. Use Hot Dipped Galvanized or SS bolts and hardware.
10. Font to be Highway Gothic F/M AK REV. F

ACAD FILE. C310101S3 Rev4.DWG

CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY
4	Multiple Revisions see above	2/1/11	NL

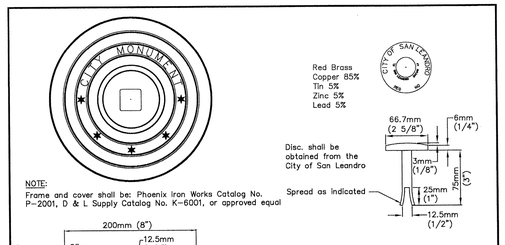
STREET NAME SIGN SIGNAL MASTARM

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/11

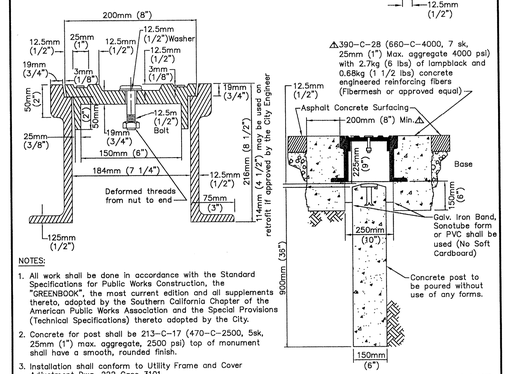
DRAWN GF/MLWH/AMS CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 1 OF 1 DWG. NO. 138 CASE. 3101

8 – STANDARD PLAN

NTS



NOTE:
Frame and cover shall be: Phoenix Iron Works Catalog No. P–2001, D & L Supply Catalog No. K–6001, or approved equal



NOTES:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. Concrete for post shall be 213–C–17 (470–C–2500, 5sk, 25mm (1") max. aggregate, 2500 psi) top of monument shall have a smooth, rounded finish.
3. Installation shall conform to Utility Frame and Cover Adjustment Dwg. 222 Case 3101.

ACAD FILE. C310101S4 Rev4.DWG

CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE
4	REVISED NOTES	10/24/05

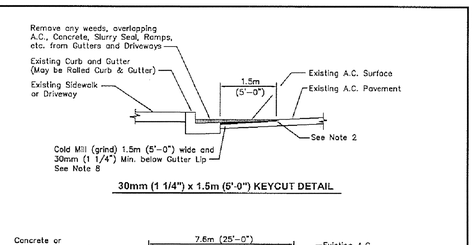
SURVEY MONUMENT

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/07

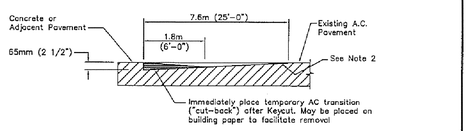
DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 1 OF 1 DWG. NO. 134 CASE. 3101

6 – STANDARD PLAN

NTS



30mm (1 1/4") x 1.5m (5'-0") KEYCUT DETAIL



65mm (2 1/2") x 7.6m (25'-0") CONFORM DETAIL

NOTES:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. Keycut shall be flush with pavement surface for subsequent overlays. Keycut shall be 30mm (1 1/4") min. below pavement surface for A.C. tie–ins.
3. Lower Manhole, Water Valve, Monument Frames and Covers below the grinding plane prior to beginning grinding / rehabilitation operations. Protect monument core from damage.
4. When Manholes, Monuments, Water Valves, Cleanouts, etc. occur within any Keycut areas, asphalt shall be removed by grinding to the grinding plane. Chipping and /or Jack Hammering is strictly prohibited.
5. The surface of pavement after milling shall be uniform and the grade shall not deviate from a straight edge by more than 10mm (3/8") at any point.
6. A False Bottom shall be installed in all manholes and storm water inlets in the grind / rehabilitation area to prevent debris from entering the systems. Immediately remove upon completion of paving operation.
7. Manholes, Cleanouts, Utility Covers and Monuments shall be raised to grade per Dwg. 222 Case 3101.
8. For subsequent open graded AC mixes, the grinding plane shall be flush with the gutter lip.

ACAD FILE NO. C310101S8

CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE

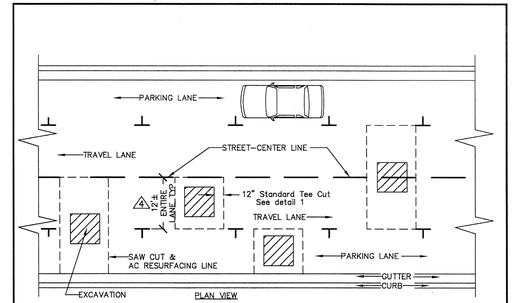
PAVEMENT COLD MILLING DETAILS (KEYCUT & CONFORM)

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/03 6/24/02

DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 1 OF 1 DWG. NO. 126 CASE. 3101

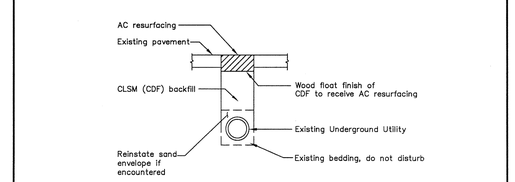
4 – STANDARD PLAN

NTS



DETAIL 3

All excavations in AC pavement with PCI>=85 except cores of 12" diameter or less and longitudinal trenches



Contractor shall submit a plan showing location and depth of all found utilities upon completion of the work

DETAIL 4

Cores of 12" diameter or less (PCI 0 to 100)

ACAD FILE NO. C310101S3B Rev4.DWG

CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY
4	Added 12"a to detail 3	2/22/11	NT

EXCAVATION RESURFACING

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/11

DRAWN NT/AMS CHECKED DATE DEC 2008 SCALE NONE SHEET 2 OF 3 DWG. NO. 122B CASE. 3101

2 – STANDARD PLAN

NTS

CD3

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION

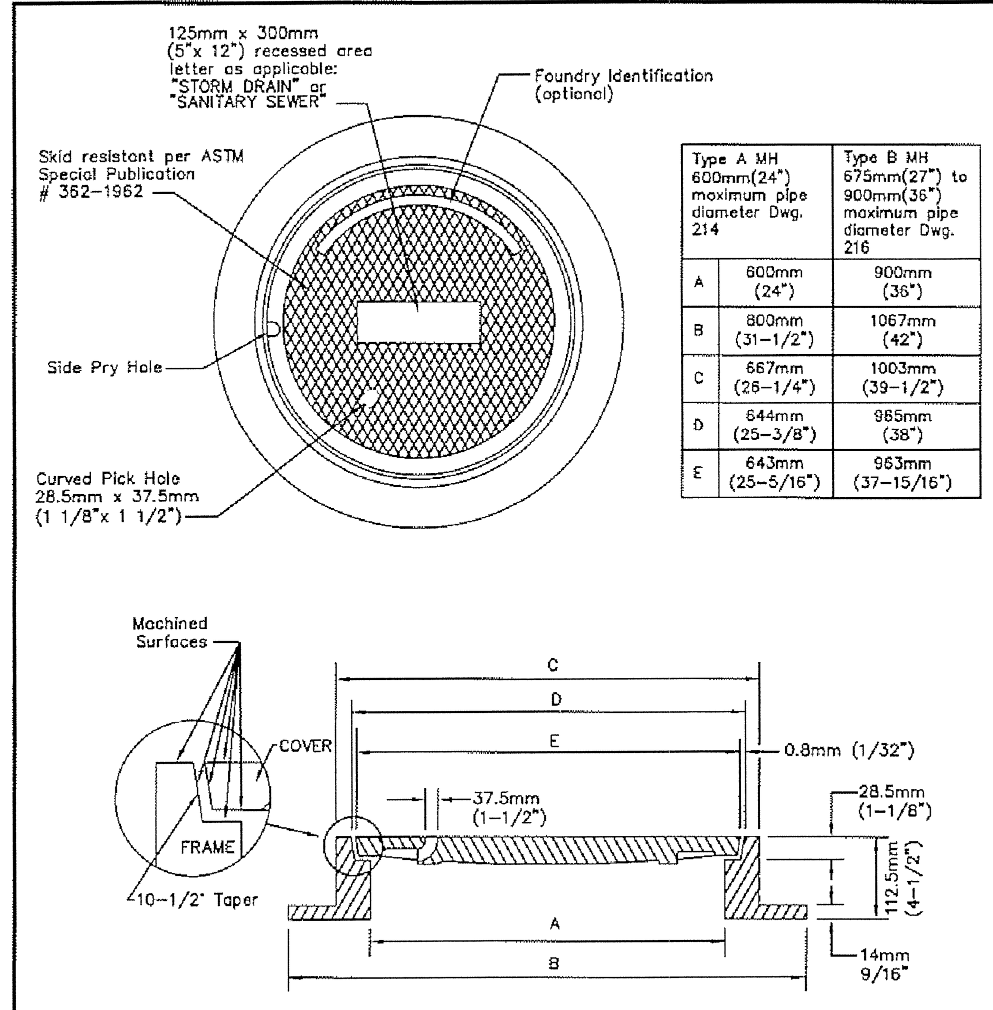
CITY OF SAN LEANDRO

DESIGNED BY MJG DATE 8/31/12
DRAWN BY AMS DATE
PROJECT MGR. MJG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. AO DATE 8/31/12
APPROVED BY: DATE 9/14/12
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE STANDARD DETAILS

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 21 OF 80
JOB NO. 150-38-331
SCALE NTS
DWG 3622 CASE 202



	Type A MH 600mm(24") maximum pipe diameter Dwg. 214	Type B MH 675mm(27") to 900mm(36") maximum pipe diameter Dwg. 216
A	600mm (24")	900mm (36")
B	800mm (31-1/2")	1067mm (42")
C	667mm (26-1/4")	1003mm (39-1/2")
D	644mm (25-3/8")	965mm (38")
E	643mm (25-5/16")	963mm (37-15/16")

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. Frame & Cover shall be Phoenix Iron Works Catalog No. P 1090 (600mm/24"), P 1006 (900mm/36") D & L Supply Catalog No. A-1024 (600mm/24"), A 1463 (900mm/36") or approved equal.
3. Materials: Cast Iron conforming to ASTM specification A 48 Class 35 B.
4. Fasten frame to MH deck or slab with approved anchor bolts when appropriate.

ACAD FILE NO. C3101D220.DWG.

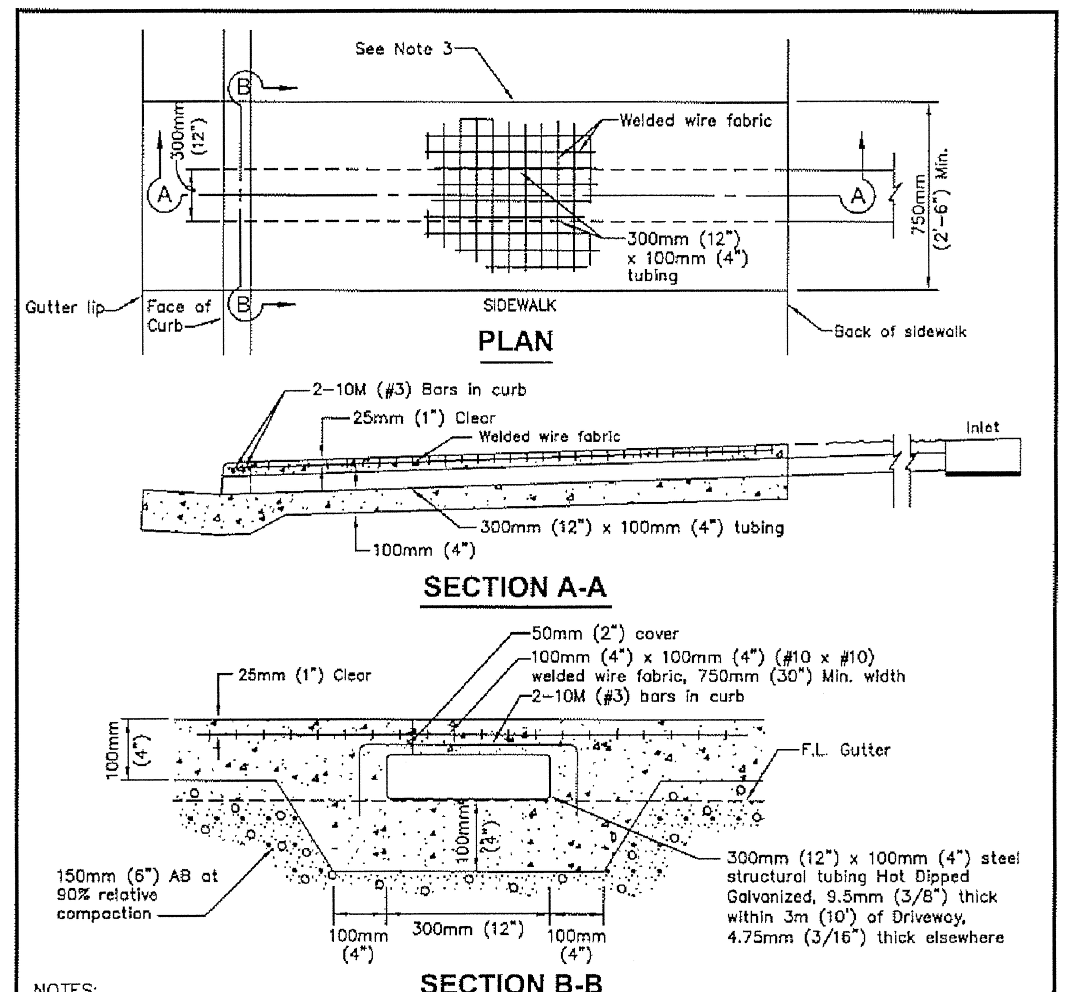
CITY OF SAN LEANDRO * STANDARD PLANS

MANHOLE FRAME AND COVER

APPROVED Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/03 6/24/02

DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 1 OF 1 DWG. NO. 220 CASE. 3101

7 STANDARD PLAN NTS



NOTES:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. General Concrete Notes Dwg. 104 Case 3101 shall apply.
3. Existing curb, gutter and sidewalk shall be saw cut along score lines.
4. Trim tubing flush with curb face.
5. Drain may be skewed as directed by the City Engineer. Drains shall not be installed in driveway curb transitions. Maintain 300mm (12") clear from driveway approaches.
6. One drain required for each 1,675m² (18,000 sq. ft.) of drained area.
7. Minimum 25mm (1") clearance between adjacent tubing.

ACAD FILE NO. C3101D210.DWG.

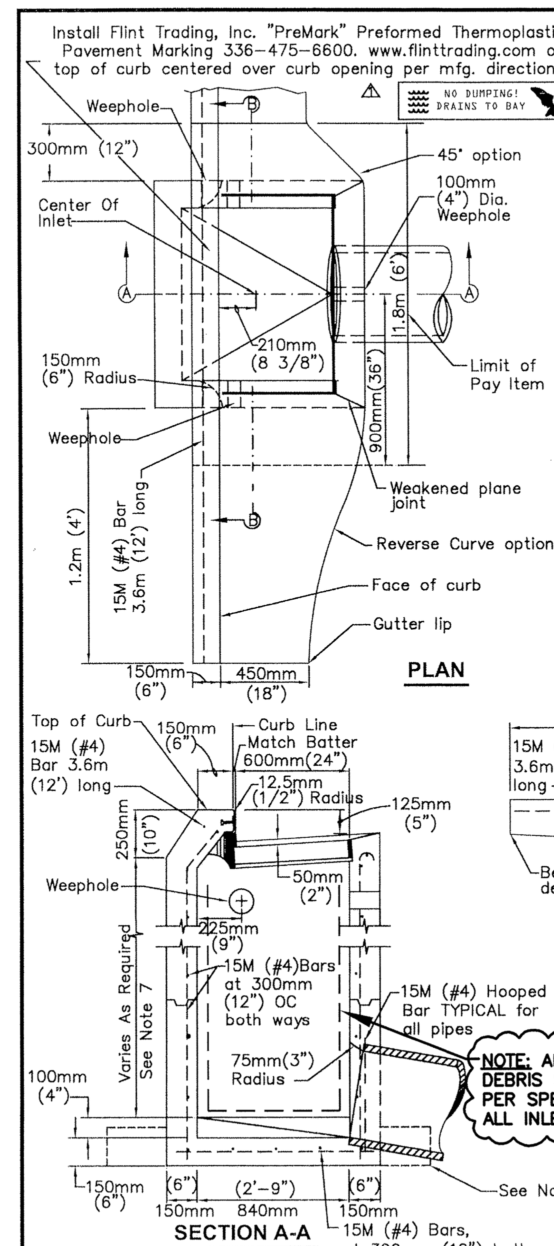
CITY OF SAN LEANDRO * STANDARD PLANS

STRUCTURAL TUBE CURB DRAIN

APPROVED Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/03 6/24/02

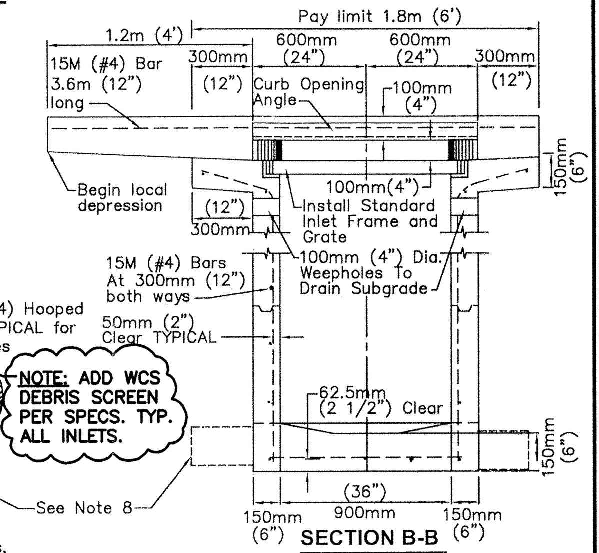
DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 1 OF 1 DWG. NO. 210 CASE. 3101

5 STANDARD PLAN NTS



NOTES:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. Location and direction of pipe entering and leaving inlet are shown on general plan. Pipes shall not enter corners of inlets.
3. Reinforcing steel may be bent, cut, or spread as directed by the City Engineer to permit connection of lateral pipe.
4. Inlets with pipes entering and leaving the inlets shall be sloped to drain as directed by the City Engineer.
5. Where rolled curbs are encountered, transition curb face from vertical at curb opening angle to conform to rolled curb in 1m (3'-0").
6. For Standard Frame and Grate details refer to Dwg. 202 Case 3101.
7. Box wall and bottom shall be 200mm (8") thick when difference in elevation between normal gutter grade and pipe flow line is 2.4m (8'-0") or greater.
8. 200mm (8") thick spread footing to be constructed when poor subgrade conditions exist, as directed by the City Engineer.
9. All construction joints shall be keyed.
10. All concrete shall be 213-C-17 (470-C-2500, 5 sk 5mm (1") Max aggregate, 2500 psi).



ACAD FILE NO. C3101D204 Rev1.DWG.

CITY OF SAN LEANDRO * STANDARD PLANS

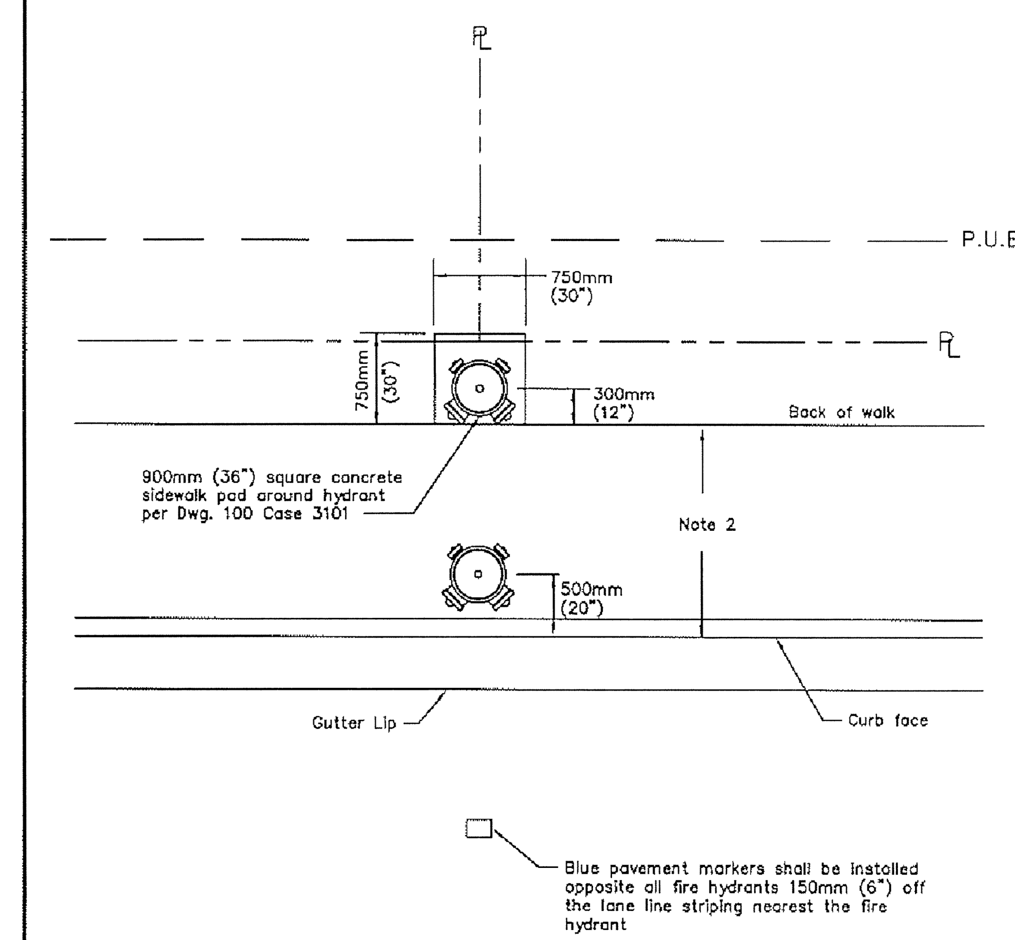
NO.	REVISIONS	DATE	BY
1	Added PreMark Marking	1/17/07	AMS

STORM WATER CURB INLET

APPROVED Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/09

DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 1 OF 1 DWG. NO. 204 CASE. 3101

3 STANDARD PLAN NTS



NOTES:

1. All work be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. Place fire hydrant behind sidewalk where sidewalk and curb is a total of 1.8m (6') wide or less.
3. Fire hydrant and pad must be within street right-of-way or P.U.E.
4. Do not locate street light or tree at same property line junction as fire hydrant.

ACAD FILE. C3101D142.DWG.

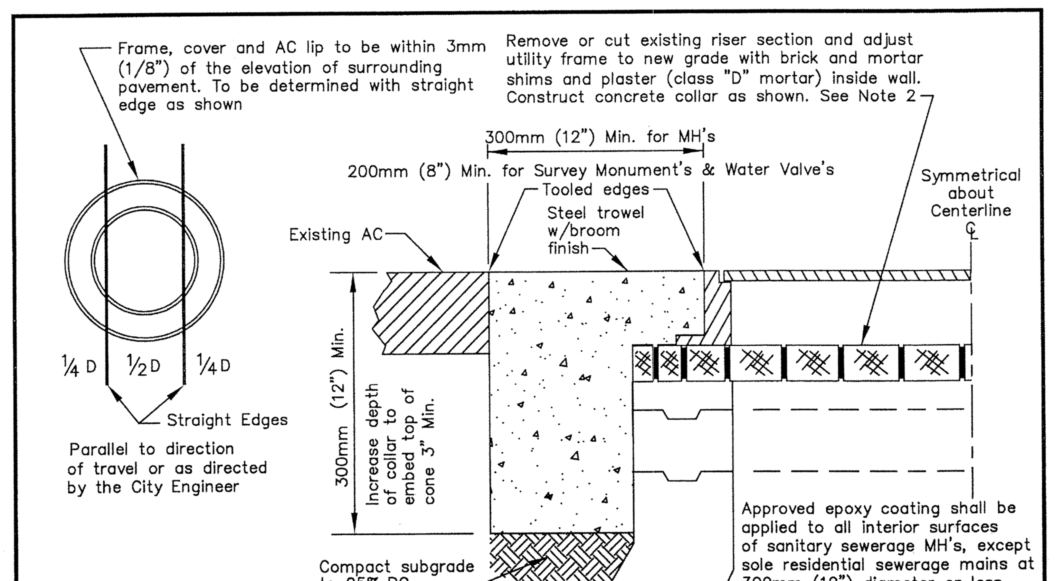
CITY OF SAN LEANDRO * STANDARD PLANS

FIRE HYDRANT LOCATION

APPROVED Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/03 6/24/02

DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 1 OF 1 DWG. NO. 142 CASE. 3101

1 STANDARD PLAN NTS



NOTES:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. Contractor is responsible for referencing out all manholes, valves, monuments, etc., and for locating them after the paving work and notifying the City of any discrepancies found in the field. If existing manholes, etc., are not properly referenced, the City will charge for researching and locating manholes, etc. Contractor shall lower ALL frames and covers for manholes, monuments, clean-outs, splice boxes, etc., and Utility Company manholes and valves below the lowest grading plane (15 inch maximum) in all streets prior to beginning any grinding/excavation operations. This work is not limited to removal of riser rings and shall include cutting, chipping, or sawing of collars, cones, barrels, bricks, metallic valve pots/riser sections, etc, to provide an unobstructed grading plane. Facilities below shall be protected from damage and debris entering. False bottoms shall be installed in all manholes and storm water inlets to prevent debris from entering. Such false bottoms shall be immediately removed upon completion of adjustment to grade operation.
3. Adjust frame and cover flush to finished grade after final lift of paving. Set frame and cover 75mm (3") above finish grade in non-paved areas, slope 25mm (1") to edge of concrete collar.
4. Traffic control approval is required prior to any traffic lane obstruction.
5. Installation or adjustment of all structures shall be in accordance with the following requirements:
   - (a). Concrete shall be minimum 390-C-28 (660-C-4000, 7 sk 25mm (1") Max. aggregate, 4000 psi) with 2.7kg (6 lbs) of lampblack and 0.68kg (1 1/2 lbs) concrete engineered reinforcing fibers (Fibermesh or approved equal) per cubic yard. Steel trowel and broom finish surface, finish tool all edges.
   - (b). Pour all concrete before 12:00 noon.
   - (c). All traffic lanes shall be opened by 4:30 p.m. or as otherwise noted on Lane Closure Charts. Protect newly poured collars subject to vehicular traffic with trench plates until concrete has sufficiently set to withstand traffic loads without damage, 3 days minimum.
   - (d). No more than (5) structures may be opened at any one time on any street.
   - (e). All work shall be confined to one traffic lane at a time in each direction. Traffic not to weave to avoid adjustments.
   - (f). Coordinate work among subcontractors to avoid cutting through new traffic striping and vehicle detector loops. Contractor shall be responsible for all replacement costs due to poor coordination.

ACAD FILE NO. C3101D222 Rev2.DWG.

CITY OF SAN LEANDRO * STANDARD PLANS

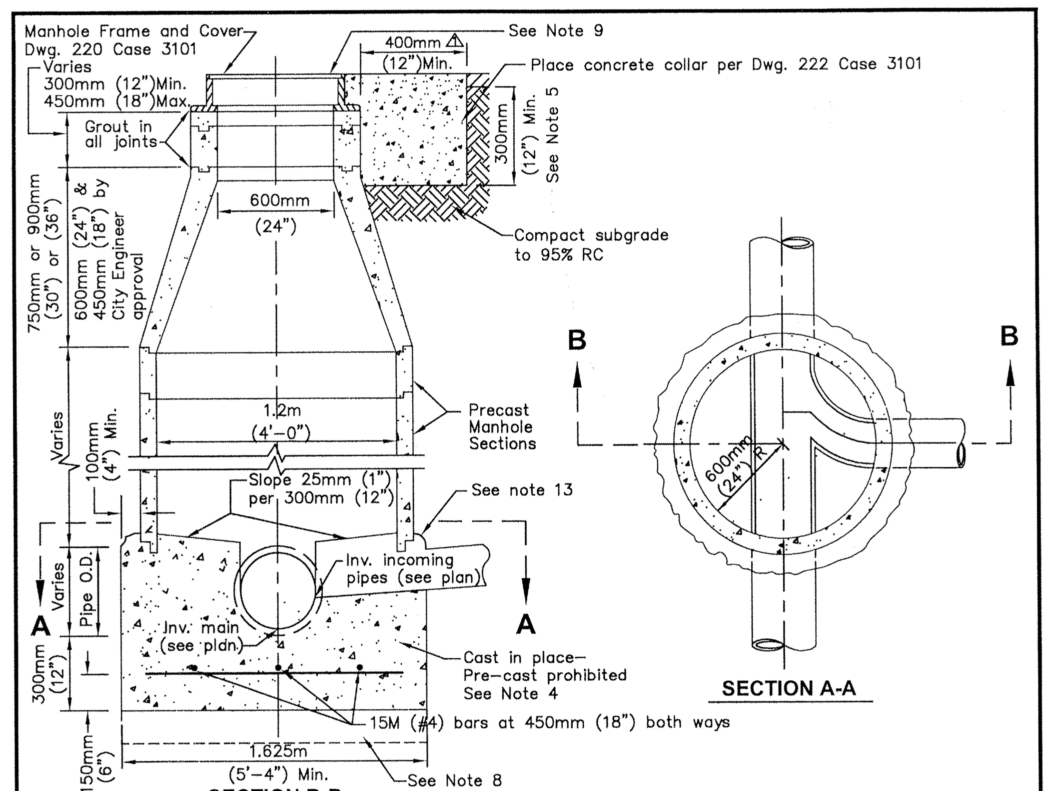
NO.	REVISIONS	DATE
2	REVISED NOTE 5 C, add "3 days minimum"	11/5/10

UTILITY FRAME AND COVER ADJUSTMENT

APPROVED Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/11

DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 1 OF 1 DWG. NO. 222 CASE. 3101

8 STANDARD PLAN NTS



NOTES:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. This manhole shall be used only with pipe lines having 600mm (24") diameter or less.
3. Precast reinforced concrete manhole sections shall conform to current A.S.T.M. specifications; C478. Grout or mastic between joints.
4. Concrete base shall be 213-C-17 (470-C-2500, 5 sk, 25mm (1") max. aggregate, 2500 psi) cast in place. Precast base prohibited.
5. Increase depth of collar to embed top of cone 75mm (3") min.
6. Minimum clear spacing between surfaces of concrete and reinforcing steel shall be 50mm (2") on formed surfaces and 75mm (3") on unformed surfaces except as noted.
7. No steps shall be installed in manhole.
8. Unsuitable material shall be removed when directed by the City Engineer and replaced with 300mm (12") min. of 50mm (2") Crushed Rock to provide adequate foundation for pipe bedding.
9. Utility Frame and Cover Adjustment, Dwg. 222 Case 3101 shall apply.
10. All construction joints shall be keyed.
11. Extend main pipe through manhole; shape and plaster channels for incoming pipes.
12. All MH's constructed for sanitary sewerage shall have PVC T lock interior liners and/or approved epoxy coatings applied to all interior surfaces, except solely residential sewerage mains at 300mm (12") diameter or less.
13. Form recess with approved metal forming ring to receive precast manhole joint. Seal with grout or mastic.

ACAD FILE NO. C3101D214 Rev1.DWG.

CITY OF SAN LEANDRO * STANDARD PLANS

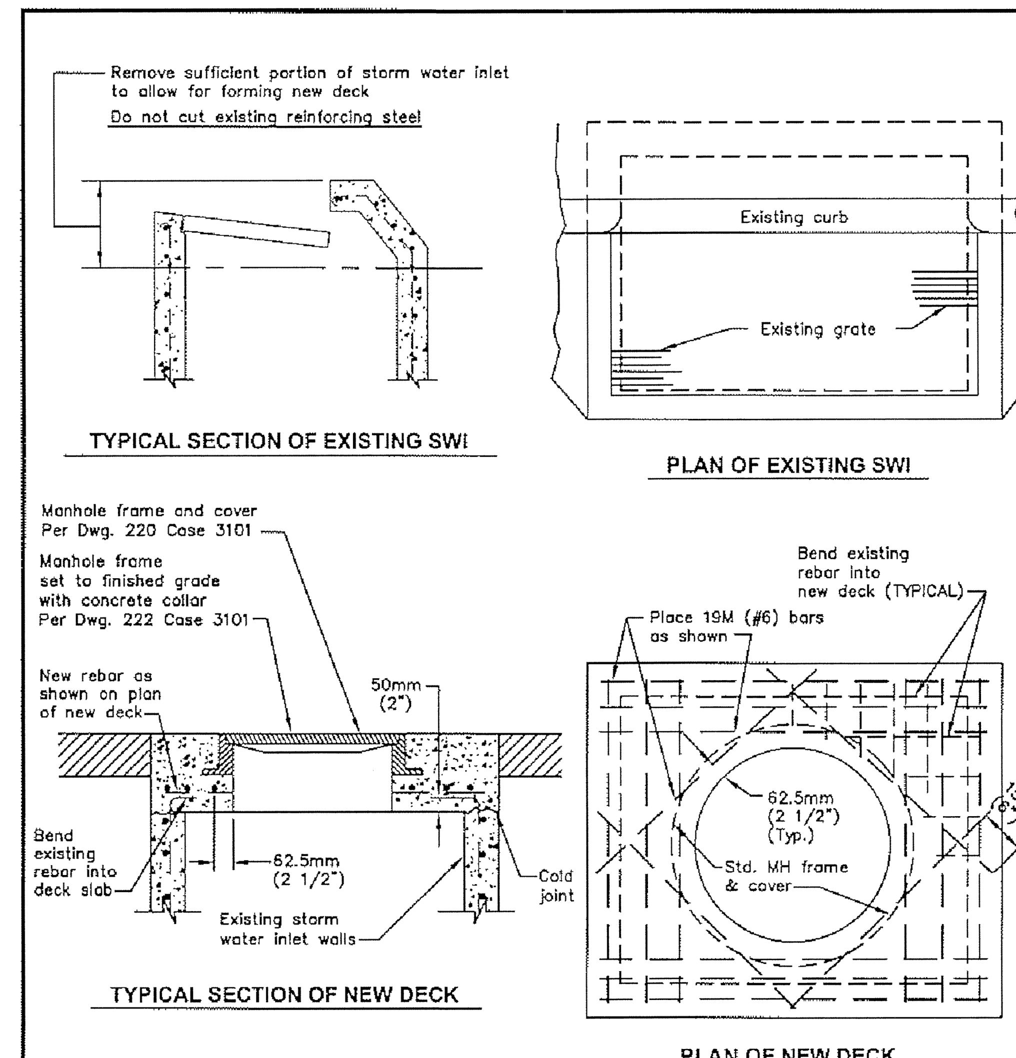
NO.	REVISIONS	DATE	BY
1	Was 450mm (18")	1/17/07	AMS

TYPE A CONCRETE MANHOLE 600mm (24") maximum pipe diameter

APPROVED Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/09

DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 1 OF 1 DWG. NO. 214 CASE. 3101

6 STANDARD PLAN NTS



NOTE:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. Concrete shall be minimum 390-C-28 (660-C-4000, 7 sk 25mm (1") max aggregate, 4000 psi) with 2.7kg (6lbs) of lampblack per cubic yard. Steel trowel and broom finsh surface; finish tool all edges.

ACAD FILE NO. C3101D208.DWG.

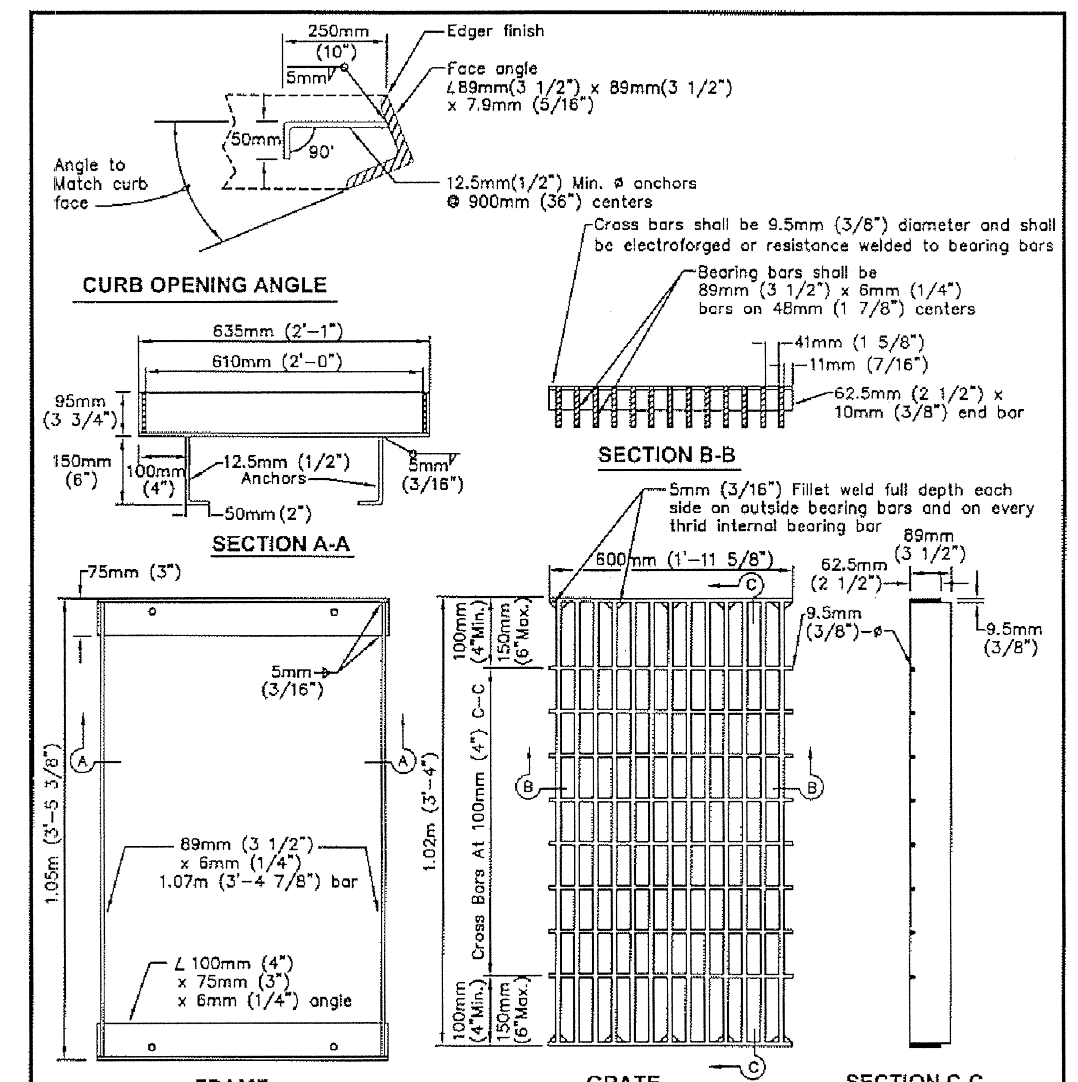
CITY OF SAN LEANDRO * STANDARDS

STORM WATER INLET TO JUNCTION BOX CONVERSION

APPROVED Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/03 6/24/02

DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 1 OF 1 DWG. NO. 208 CASE. 3101

4 STANDARD PLAN NTS



NOTES:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. Frame, grate and anchor shall be Hot Dipped Galvanized after fabrication.
3. Caltrans Type 600-10S grate (Reticuline Type) may be substituted with approval of the City Engineer.

ACAD FILE C3101D202.DWG.

CITY OF SAN LEANDRO * STANDARD PLANS

STORM WATER INLET FRAME AND GRATE (Caltrans Type 600-13 Equivalent)

APPROVED Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/03 6/24/02

DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 1 OF 1 DWG. NO. 202 CASE. 3101

2 STANDARD PLAN NTS

CD4

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY MJG DATE 8/31/12
DRAWN BY AMS DATE
PROJECT MGR. MJG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. AO DATE 8/31/12
APPROVED BY: DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE STANDARD DETAILS

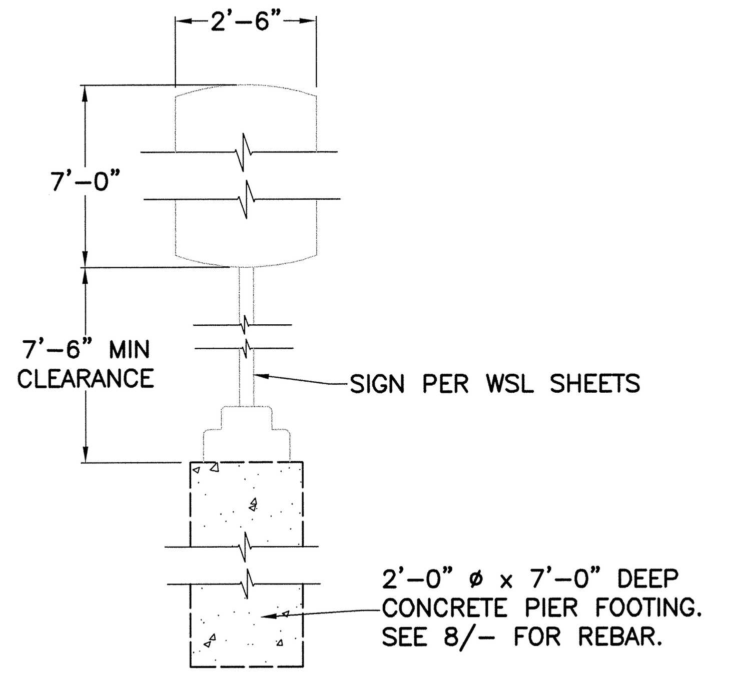
AT FULL SIZE THIS LINE MEASURES 1"

SHEET 22 OF 80

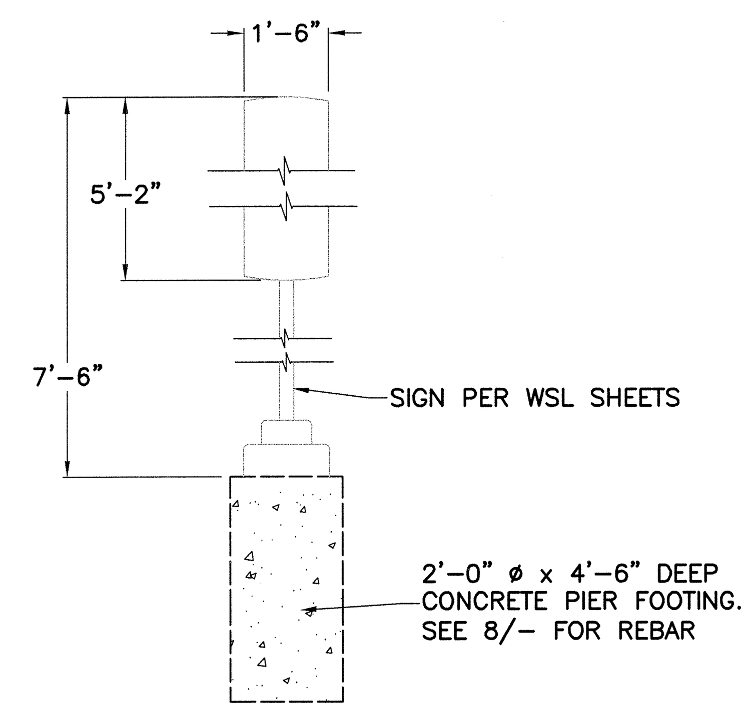
JOB NO. 150-38-331

SCALE NTS

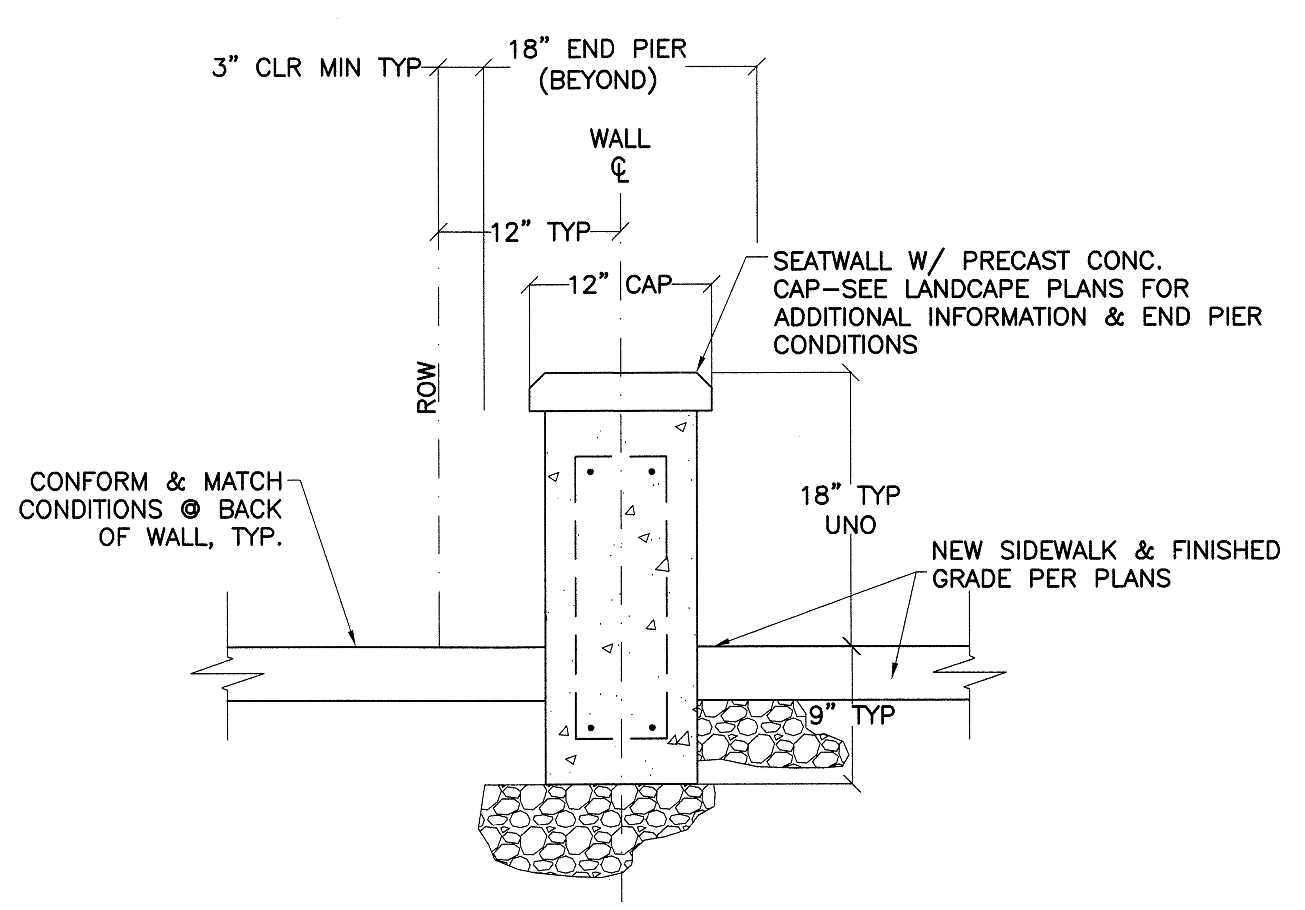
DWG 3623 CASE 202



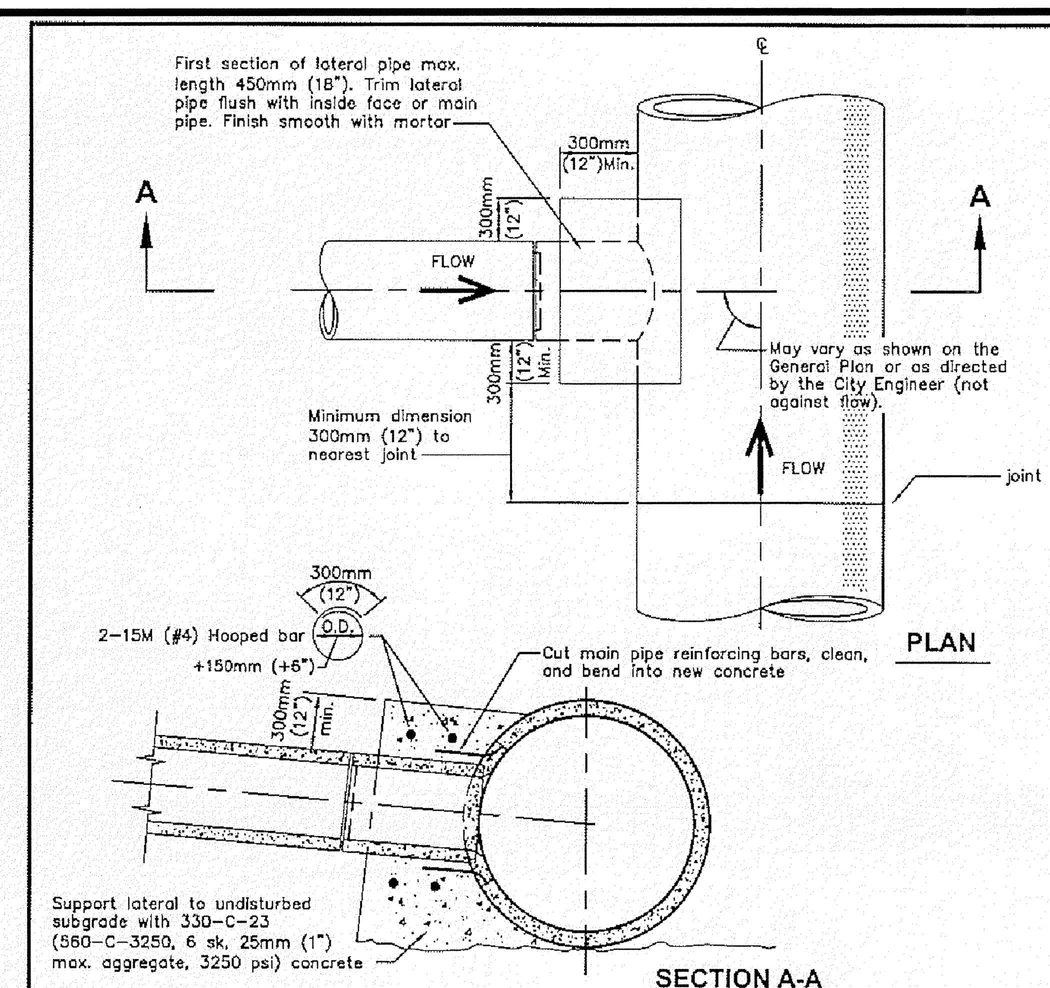
6/– WAYFARING SIGNAGE FOOTING – VEHICLE DIRECTIONAL NTS



7/– WAYFARING SIGNAGE FOOTING – PEDESTRIAN DIRECTIONAL NTS



8/– SEATWALL
Scale: 1"–10'-0"



NOTES:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. Inside diameter of lateral shall be not larger than 1/3 of inside diameter of main pipe.
3. Concrete must set 24 hrs. min. prior to installing remaining pipeline to avoid shoving first section into main. Connection shall be approved by the City Engineer prior to installation of remaining pipe.
4. Diamond core drill and neoprene compression connection ("Tap Tite" or approved equal) preferred. Install in presence of the City Engineer.
5. Lateral cleanout access shall be provided within 18m (60') of connection to main.
6. Resurfacing per Dwg. 122 Case 3101. Backfill per Dwg. 120 Case 3101.

ACAD FILE NO. C31010224.DWG.

CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE		APPROVED
			REINFORCED CONCRETE PIPE SIDE CONNECTION	Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/03 6/24/02
DRAWN GF/MLWH/VL	CHECKED KJ/KRC	DATE May 2002	SCALE NONE SHEET 1 OF 1	DWG. NO. 224 CASE. 3101

4/– STANDARD PLAN NTS

TRAFFIC CONTROL PLAN GUIDELINES

Temporary traffic control shall be provided around work zones for the safety and protection of the workers and public traffic in conformance with the Manual on Uniform Traffic Control Devices (MUTCD) 2003 and the MUTCD 2003 California Supplement, Part 6 Temporary Traffic Control, when work is being performed within the roadway or road shoulder. Traffic Control Plans shall be submitted and accepted by the City of San Leandro Engineering and Transportation Department for work being performed on a roadway listed on the attached Table – Traffic Control Plans Required. For roadways not listed, a Traffic Control Plan submittal is not required, however the temporary traffic controls shall conform to the MUTCD 2003 and MUTCD 2003 California Supplement, Part 6 Temporary Traffic Control.

Traffic Control Plans shall include:

- "Typical" Traffic Control Plans are acceptable for many non–intersection locations. Photo copies of the MUTCD 2003 and MUTCD 2003 California Supplement, Part 6 Temporary Traffic Control are acceptable. "Typical" traffic controls are not acceptable for intersection work. Site–specific Traffic Control Plans are required for intersections.
- Traffic Control Plans shall specify the signage, cones, flashing arrow panels and other devices that will be used to redirect traffic. Distances between signs, the taper length, and the lane widths shall be specified to illustrate conformance to above standards.
- Traffic Control Plans shall indicate where parking is proposed to be restricted. The duration of the parking restriction shall be indicated. "No Parking" Signs provided by the City shall be posted and verified by Engineer 72 hours prior to effective dates.
- The dates and hours of the proposed Traffic Control Plan shall be specified.
- No work that interferes with public traffic on collector and arterial roadways shall be performed between the hours of 6:00 a.m. to 9:00 a.m., nor between 3:00 p.m. and 6:00 p.m. except as otherwise provided in the lane closure chart(s) or approved by the Engineer.
- The full width of the traveled way shall be open for use by public traffic on Saturdays, Sundays, and designated legal holidays; after 3:00 p.m. on Fridays, and the day proceeding designated legal holidays; and when construction operations are not actively in progress, unless approved by Engineer.
- For multi–phase operations, such as trenching across a roadway one lane at a time, provide a separate Traffic Control Plan for each phase. Each Traffic Control Plan should state the approximate duration of the phase.
- Flashing Arrow Panel shall be required per attached Table – Traffic Control Plans Required. When two of three lanes will be taken, then two arrow panels will be required. Multiple lane closures require multiple Flashing Arrow Panels. The Engineer may require changeable message signs in addition to the arrow panel.
- Excavations exceeding 6" in depth and within 6 feet of a travel lane, require K–rail between the excavation and the travel lane unless otherwise approved by the Engineer.
- Residents and businesses affected by the Traffic Control Plans shall be provided notification 7 days in advance. For a roadway closure/detours 14 days advance notification, including advance warning signs, are required.
- The Engineer may provide lane closure charts that specify minimum travel lane requirements for specific times for the contractor to prepare the Traffic Control Plans accordingly.
- The San Leandro Police Department (510) 577–3208, Alameda County Fire Department (510) 670–5858 and A.C. Transit (510) 891–4901 if applicable – shall be notified of daily closures, detours, etc.

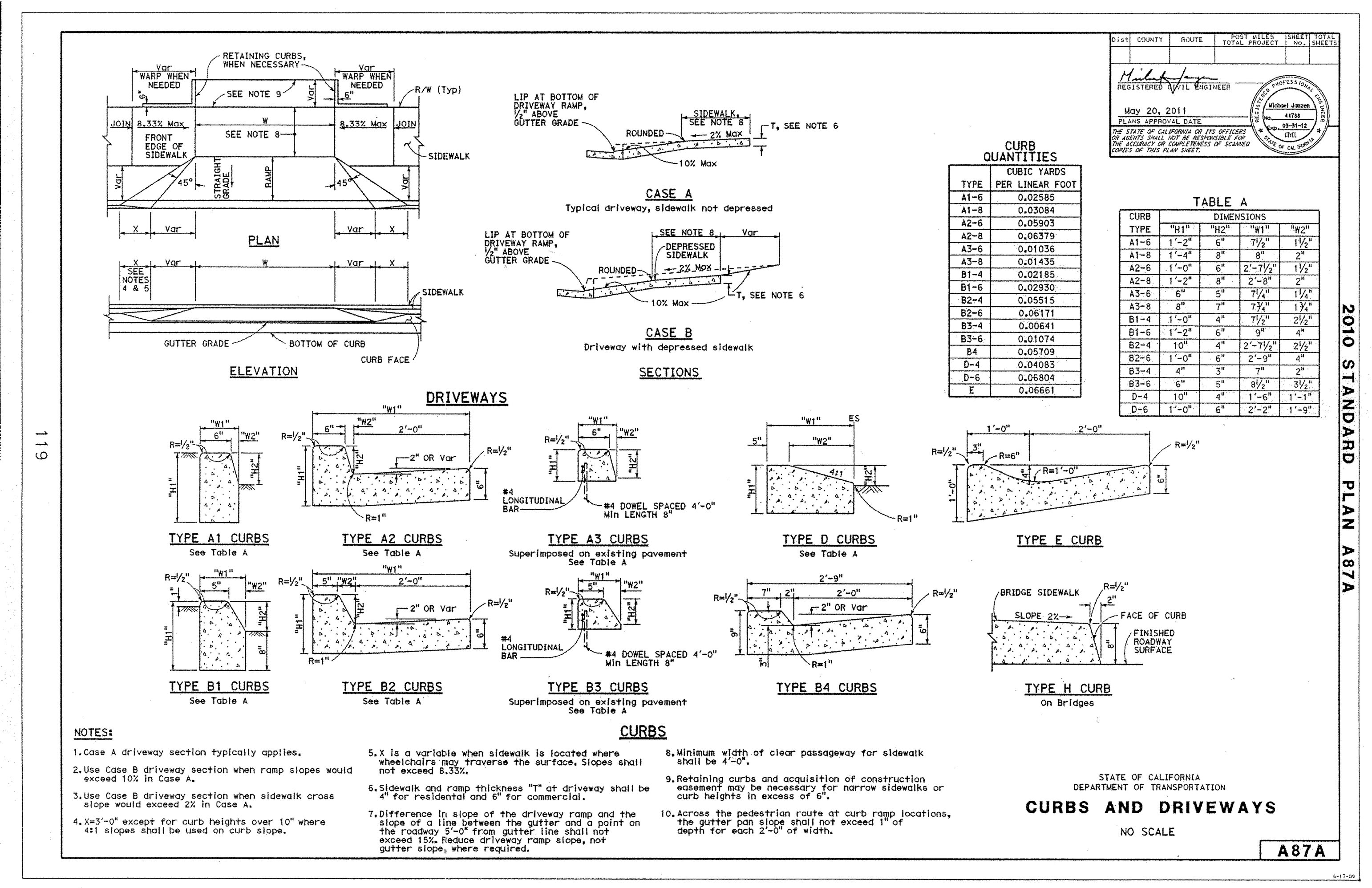
For questions about these requirements please contact the City of San Leandro Transportation Section at (510) 577–3410.

ACAD FILE NO. C3101D608ABC Rev1.DWG

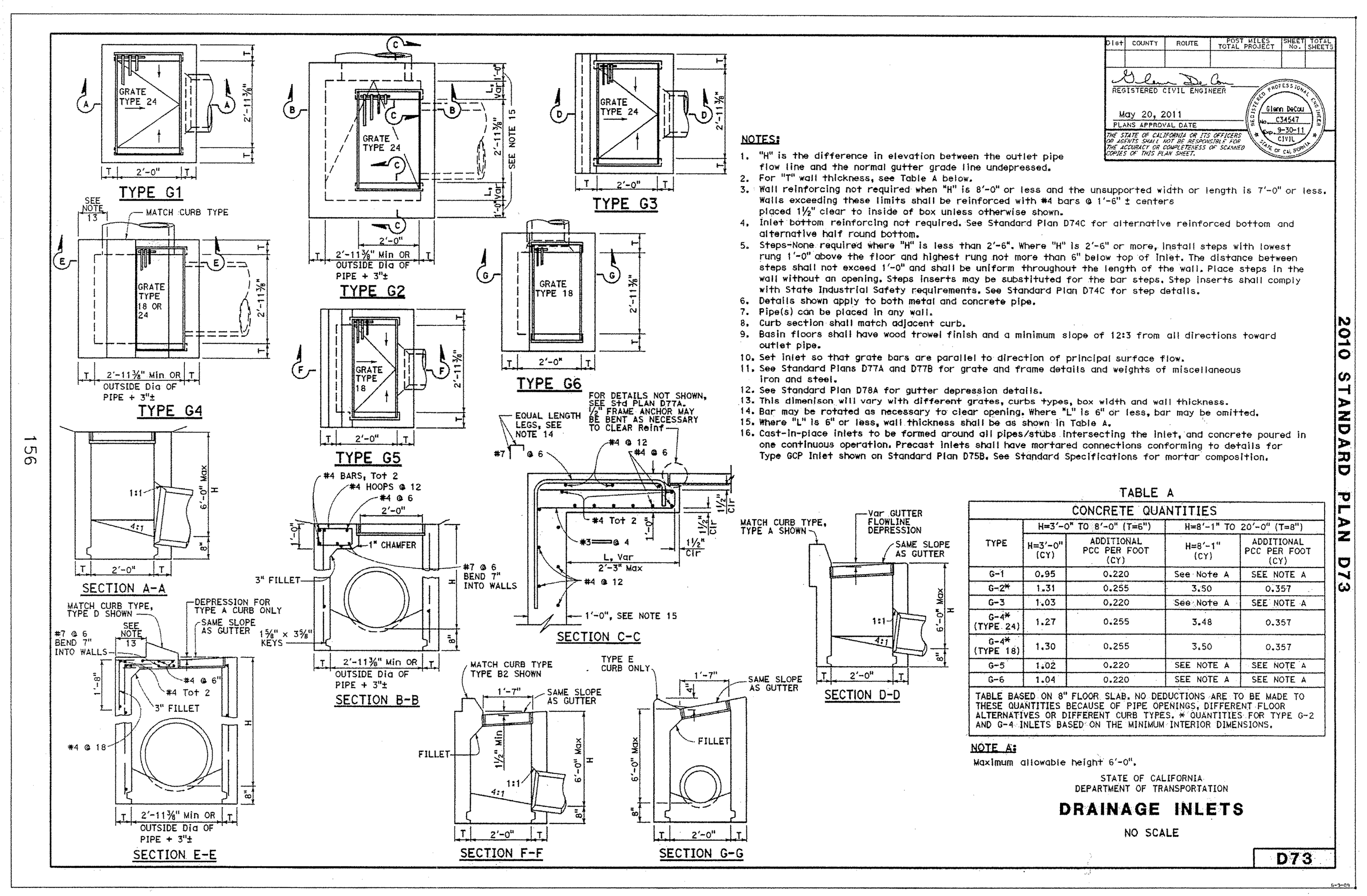
CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY		APPROVED
⚠	ADDED "GUIDELINES" TO TITTLE	10/1/07	AMS	TRAFFIC CONTROL PLAN ⚠ GUIDELINES	Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/09
DRAWN GF/MLWH/VL	CHECKED KJ/KRC	DATE October 2007	SCALE NONE	SHEET 1 OF 3	DWG. NO. 608A CASE. 3101

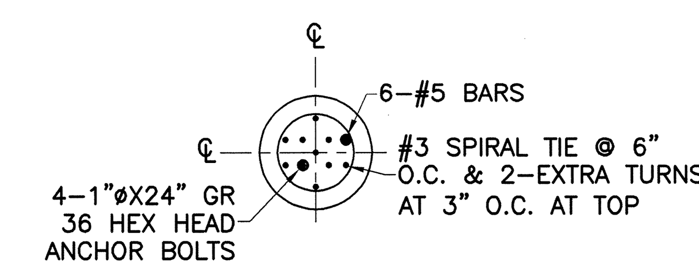
5/– STANDARD PLAN NTS



1/– STANDARD PLAN NTS



2/– STANDARD PLAN NTS



3/– DRILLED PIER NTS

CD5

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

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NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY	MJG	DATE 8/31/12
DRAWN BY	AMS	DATE
PROJECT MGR.	MJG	DATE 8/31/12
TRANS ADMIN.	RLC RLC	DATE 8/31/12
SENIOR ENGR.	AO	DATE 8/31/12
APPROVED BY		DATE 9/4/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE STANDARD DETAILS CALTRANS

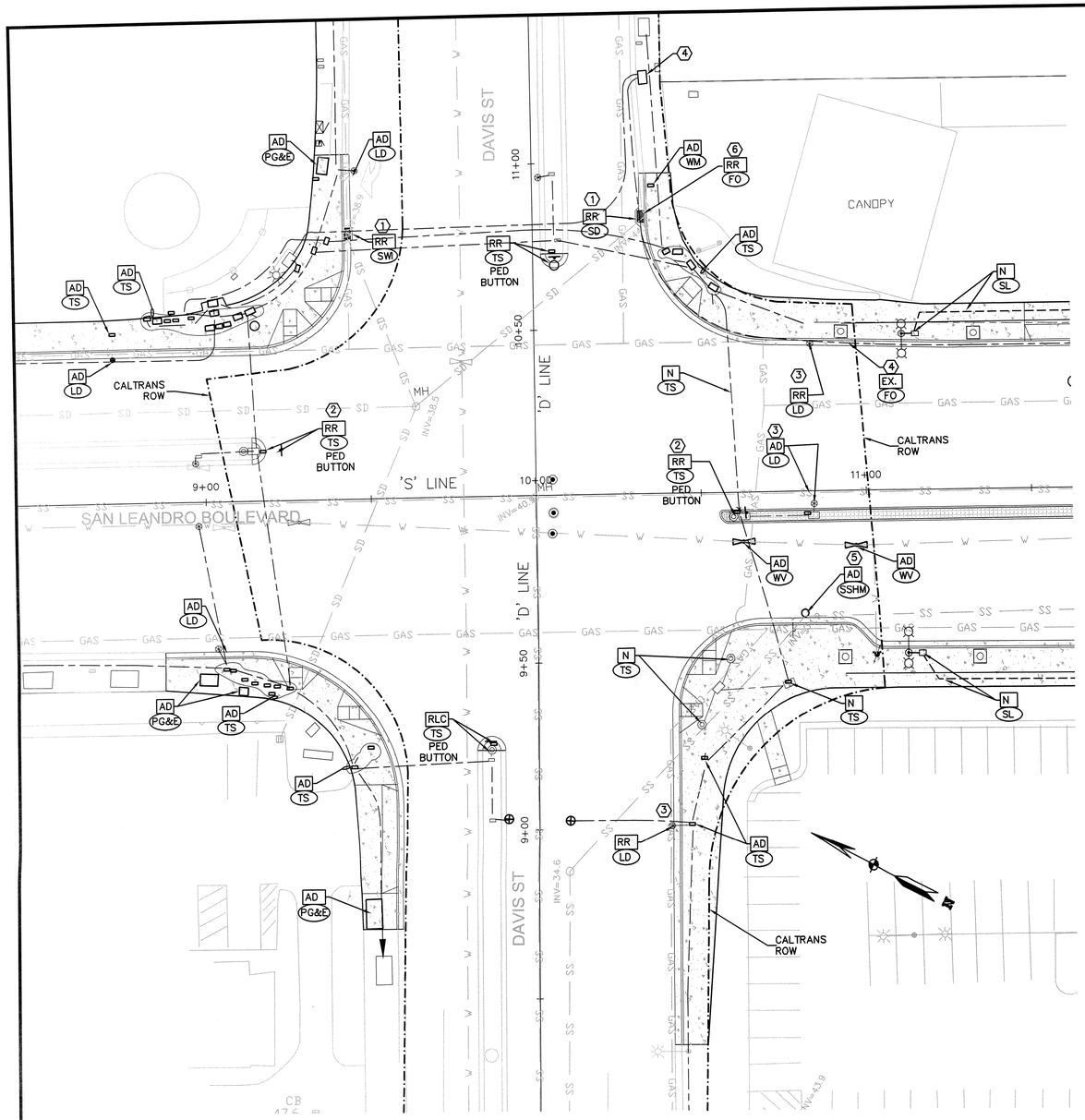
AT FULL SIZE THIS LINE MEASURES 1"

SHEET 23 OF 80

JOB NO. 150-38-331

SCALE NTS

DWG 3624 CASE 202



ABBREVIATIONS:

ACTION

AD	ADJUST EXISTING FACILITY TO GRADE (BY CONTRACTOR)
ADO	ADJUST EXISTING FACILITY TO GRADE (BY UTILITY)
N	INSTALL NEW FACILITY (BY CONTRACTOR)
NO	INSTALL NEW FACILITY (BY OTHERS)
RR	REMOVE AND RECONSTRUCT EXISTING FACILITY (BY CONTRACTOR)
RRU	REMOVE AND RECONSTRUCT EXISTING FACILITY (BY UTILITY)
EX	EXISTING UTILITY TO REMAIN

UTILITY TYPE

CA	CABLE (COMCAST)
FH	FIRE HYDRANT (EBMUD)
FO	FIBER OPTIC
GV	GAS VALVE (PG&E)
HVE	HIGH VOLTAGE ELECTRICAL (PG&E)
IRR	IRRIGATION (CITY)
LD	LOOP DETECTOR
LVE	LOW VOLTAGE ELECTRICAL
PG&E	PACIFIC GAS AND ELECTRIC
MON	SURVEY MONUMENT (CITY)
SDMH	STORM DRAIN MANHOLE
SL	STREETLIGHT (CITY)
SSMH	SANITARY SEWER (CITY) MANHOLE
SWI	STORM WATER INLET (CITY)
TEL	TELECOMMUNICATIONS (AT&T)
TS	TRAFFIC SIGNAL (CITY/CALTRANS) – SEE 'E' SHEETS FOR ADD.L INFO.
WM	WATER METER (EBMUD)
WV	WATER VALVE (EBMUD)

SHEET NOTES:

1. RELOCATE EXISTING STORM WATER INLET OVER EXISTING STORM DRAIN LINE. INSTALL TYPE G5 PER CALTRANS STANDARDS. INVERT TO MATCH EXISTING STORM LINE.
2. NEW PEDESTRIAN PUSH BUTTON TO BE INSTALLED PER CALTRANS STANDARDS ON EXISTING SIGNAL POLE, SEE ELECTRICAL PLANS. SPLICE CONTROL WIRES INTO EXISTING SIGNAL SIDEWALK BOX.
3. RELOCATION OF LOOP DETECTOR PULL BOX WILL REQUIRE REINSTALLATION OF LOOP DETECTORS, SEE ELECTRICAL PLANS.
4. EXISTING FIBER SPLICE BOX. DISCONNECT AND REMOVE EXISTING FIBER CABLE ON AND INSTALL NEW 24 STRAND FIBER CABLE IN EXISTING 2"ø CONDUIT TO BOX AT TRAFFIC SIGNAL ACROSS BART ENTRANCE ON SHEET U2. SEE FIVER SPLICE DIAGRAM ON (A / U5)
5. INSTALL OFFSET MANHOLE CONE AND LID TO MOVE OUTSIDE SDWK GUTTER ON (E) SSMH PER CITY STD. PLAN 216 SIM.
6. REROUTE 2"ø FIBER OPTIC CONDUIT AROUND SWI AS NEEDED

UTILITY PLAN GENERAL NOTES:

1. THESE UTILITY PLANS PROVIDE INFORMATION ON SIDEWALK BOX ADJUSTMENTS AND RELOCATIONS. THESE PLANS ALSO SHOW INFORMATION ON SANITARY SEWER AND FIBER OPTIC WORK.
2. FOR OTHER UTILITY RELATED WORK, SEE INFORMATION ON PLANS, INCLUDING:
   DEMOLITION PLANS FOR REMOVAL OF SIDEWALK BOXES AND OTHER UTILITY DEMOLITION
   STORM DRAIN WORK ON 'C' SHEETS
   STREETLIGHTS, ELECTRICAL SERVICE, AND CONDUIT ON 'SL' SHEETS
   SIGNALS AND CONDUITS ON 'E' SHEETS
3. ALL PIPELINES AND UNDERGROUND UTILITIES MAY NOT BE SHOWN. EXISTING UNDERGROUND FACULTIES AS SHOWN ARE APPROXIMATELY ONLY AND WERE OBTAINED FROM AVAILABLE UTILITY RECORDS. HOWEVER, THE CITY ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY OR COMPLETENESS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT ALL UTILITIES AND TO HAVE ALL FACILITIES LO9ACTED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICES ALERT AT 1-800-642-2444 AT LEAST TWO WORKING DAYS PRIOR TO ANY EXCAVATION.
4. A PG&E GAS TRANSMISSION MAIN(s) ARE WITHIN THE PROJECT LIMITS. A STAN BY PG&E EMPLOYEE IS REQUIRED DURING ANY EXCAVATIONS WITH 10 FEET OF A GAS TRANSMISSION LINE. CONTACT JIM RECHTIN, T&R SUPERVISOR AT 510-784-3349 TO ARRANGE FOR A STANDBY PG&E EMPLOYEE THREE WORKING DAYS PRIOR TO AN EXCAVATION WITHIN 10 FEET OF GAS TRANSMISSION LINES.
5. UNLESS OTHERWISE INDICATED, ALL UTILITIES SHALL BE PROTECTED IN PLACE.

LEGEND:

NEW TREE GRATE	
FIRE HYDRANT	
PEDESTRIAN PUSH BUTTON	
NEW STREET LIGHT	
NEW CATCH BASIN	
SIGNAL LOOP DETECTOR PULL BOX	
UTILITY ACCESS BOX, TYP	
MANHOLE	
E	ELECTRICAL LINE (PG&E)
	ELECTRICAL, SIGNAL / STREETLIGHT (CITY / CALTRANS)
GAS	GAS (PG&E)
W	WATER LINE (EBMUD)
	CABLE (COMCAST)
SS	SANITARY SEWER (CITY)
SD	STORM DRAIN (CITY)
TEL	FIBER OPTIC (CITY)

U1

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY	MJG	DATE 8/31/12
DRAWN BY	AMS	DATE
PROJECT MGR.	MJG	DATE 8/31/12
TRANS ADMIN.	RLC	DATE 8/31/12
SENIOR ENGR.	AO	DATE 8/31/12
APPROVED BY:		DATE 9/4/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE UTILITY PLAN STATION 8+50 TO 11+25

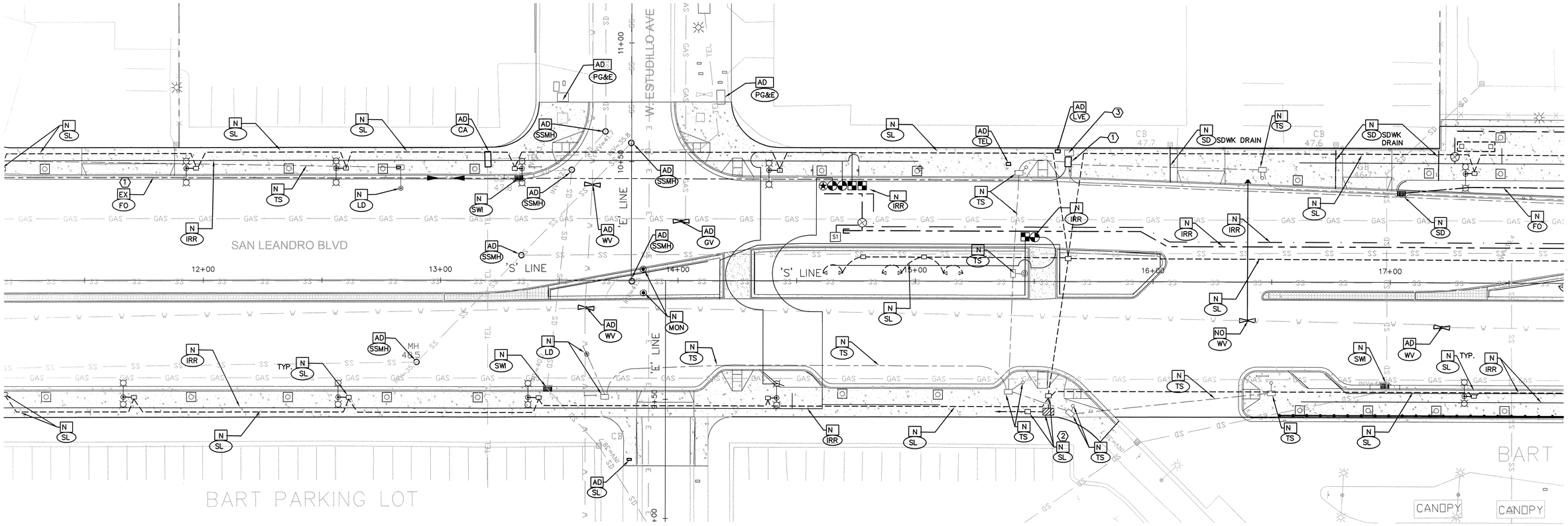
AT FULL SIZE THIS LINE MEASURES 1"

SHEET 24 OF 80

JOB NO. 150-38-331

SCALE 1"=20'

DWG 3625 CASE 202



LEGEND:

- NEW TREE GRATE
- FIRE HYDRANT
- PEDESTRIAN PUSH BUTTON
- NEW STREET LIGHT
- NEW CATCH BASIN
- SIGNAL LOOP DETECTOR PULL BOX
- UTILITY ACCESS BOX, TYP
- MANHOLE

- E — ELECTRICAL LINE (PG&E)
- ELECTRICAL, SIGNAL / STREETLIGHT (CITY / CALTRANS)
- GAS — GAS (PG&E)
- W — WATER LINE (EBMUD)
- CABLE (COMCAST)
- SS — SANITARY SEWER (CITY)
- SD — STORM DRAIN (CITY)
- TEL — FIBER OPTIC (CITY)

ABBREVIATIONS:

ACTION

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EX	EXISTING UTILITY TO REMAIN

UTILITY TYPE

CA	CABLE (COMCAST)
FH	FIRE HYDRANT (EBMUD)
FO	FIBER OPTIC
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HVE	HIGH VOLTAGE ELECTRICAL (PG&E)
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MON	SURVEY MONUMENT (CITY)
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SWI	STORM WATER INLET (CITY)
TEL	TELECOMMUNICATIONS (AT&T)
TS	TRAFFIC SIGNAL (CITY/CALTRANS) – SEE 'E' SHEETS FOR ADD.L INFO.
WM	WATER METER (EBMUD)
WV	WATER VALVE (EBMUD)

SHEET NOTES:

1. NEW 48 STRAND FIBER OPTIC IN EX. CONDUIT FROM DAVIS STREET TO SIGNAL CONTROLLER LOCATIONS ACROSS FROM BART ENTRANCE, SEE SHEET U5. INSTALL NEW N48 BOX AND CONTINUE NEW FIBER IN NEW CONDUIT CONTINUES SOUTH FROM NEW N 48 BOX.
2. PG&E ELECTRICAL SERVICE POINT OF CONNECTION FOR STREETLIGHTS
3. EX. SIGNAL CABINATE AND PG&E SERVICE POINT FOR SIGNAL

U2

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

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CITY OF SAN LEANDRO

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DRAWN BY	AMS	DATE
PROJECT MGR.	MJG	DATE 8/31/12
TRANS ADMIN.	RLC	DATE 8/31/12
SENIOR ENGR.	AO	DATE 8/31/12
APPROVED BY:		DATE 9/9/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE UTILITY PLAN STATION 11+25 TO 17+50

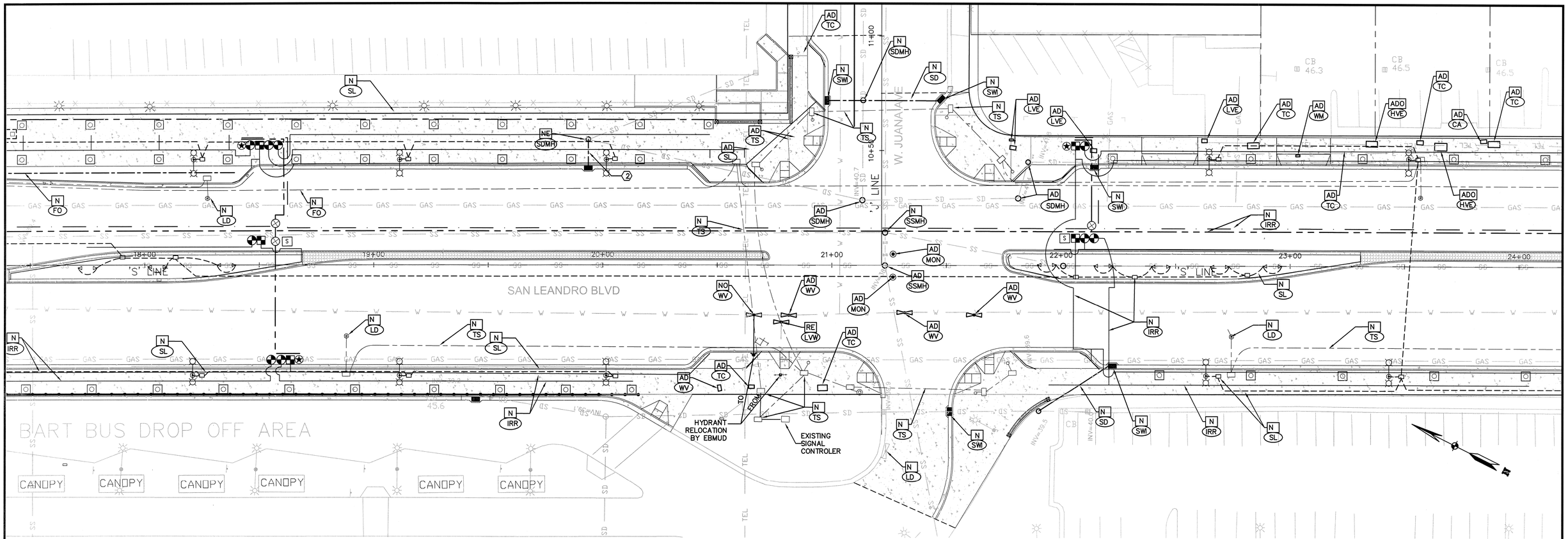
AT FULL SIZE THIS LINE MEASURES 1"

SHEET 25 OF 80

JOB NO. 150-38-331

SCALE 1"=20'

DWG 3626 CASE 202



LEGEND:

- NEW TREE GRATE
- FIRE HYDRANT
- PEDESTRIAN PUSH BUTTON
- NEW STREET LIGHT
- NEW CATCH BASIN
- SIGNAL LOOP DETECTOR PULL BOX
- UTILITY ACCESS BOX, TYP
- MANHOLE

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TEL	TELECOMMUNICATIONS (AT&T)
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WM	WATER METER (EBMUD)
WV	WATER VALVE (EBMUD)

U3

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

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CITY OF SAN LEANDRO

DESIGNED BY	MJG	DATE 8/31/12
DRAWN BY	AMS	DATE
PROJECT MGR.	MJG	DATE 8/31/12
TRANS ADMIN.	RLC ~~XLC~~	DATE 8/31/12
SENIOR ENGR.	~~AO~~ MJ	DATE 8/31/12
APPROVED BY:		DATE 9/14/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE UTILITY PLAN STATION 17+50 TO 24+00

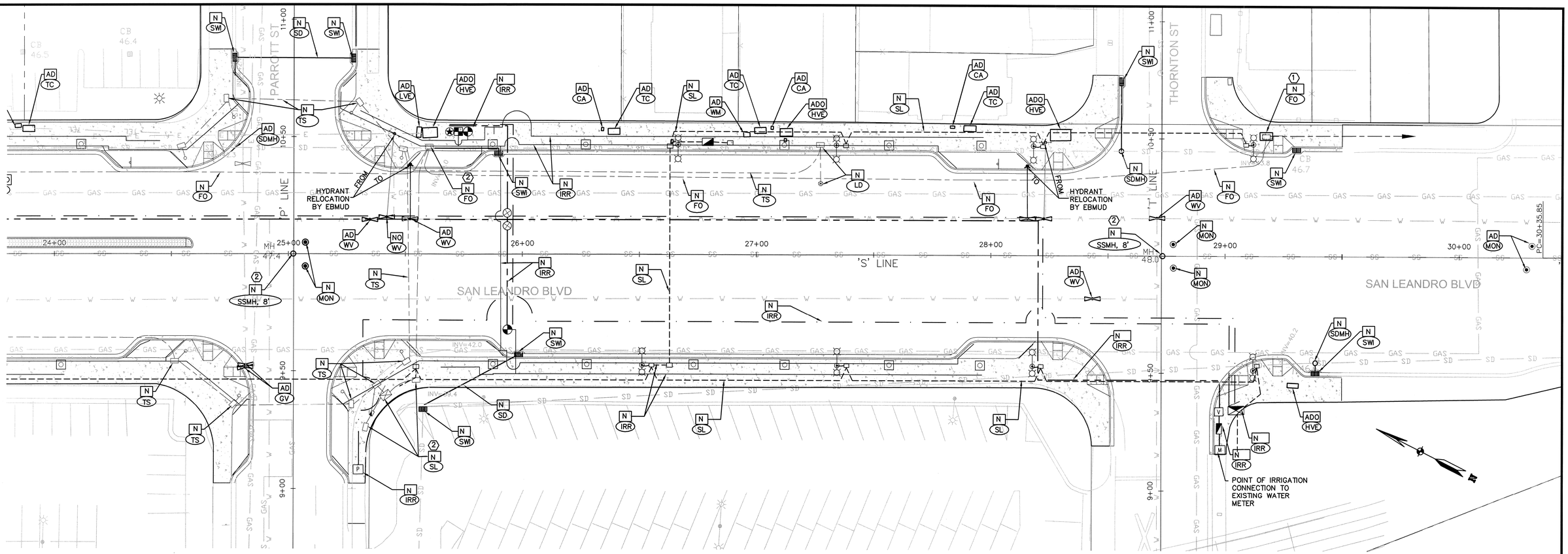
AT FULL SIZE THIS LINE MEASURES 1"

SHEET 26 OF 80

JOB NO. 150-38-331

SCALE 1"=20'

DWG 3627 CASE 202



LEGEND:

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- FIRE HYDRANT
- PEDESTRIAN PUSH BUTTON
- NEW STREET LIGHT
- NEW CATCH BASIN
- SIGNAL LOOP DETECTOR PULL BOX
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TEL	TELECOMMUNICATIONS (AT&T)
TS	TRAFFIC SIGNAL (CITY/CALTRANS) – SEE 'E' SHEETS FOR ADD.L INFO.
WM	WATER METER (EBMUD)
WV	WATER VALVE (EBMUD)

SHEET NOTES:

(1) N48 FIBER SPLICE BOX. INSTALL NEW 48 STRAND FIBER FROM THIS BOX (IN A COMBINATION OF NEW AND EX. CONDUIT) TO EX. SPLICE BOX AT THE DAVIS STREET INTERSECTION. SEE SHEET U5. RUN NEW 2" ø CONDUIT AND 48 STRAND FIBER SPLICE NEW 48 STRAND TO RING SLICE BOX FOR BART ENTRANCE SIGNAL.

U4

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

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NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY	MJG	DATE 8/31/12
DRAWN BY	AMS	DATE
PROJECT MGR.	MJG	DATE 8/31/12
TRANS ADMIN.	RLC RLC	DATE 8/31/12
SENIOR ENGR.	AG	DATE 9/31/12
APPROVED BY:		DATE 9/4/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE UTILITY PLAN STATION 24+00 TO 30+00

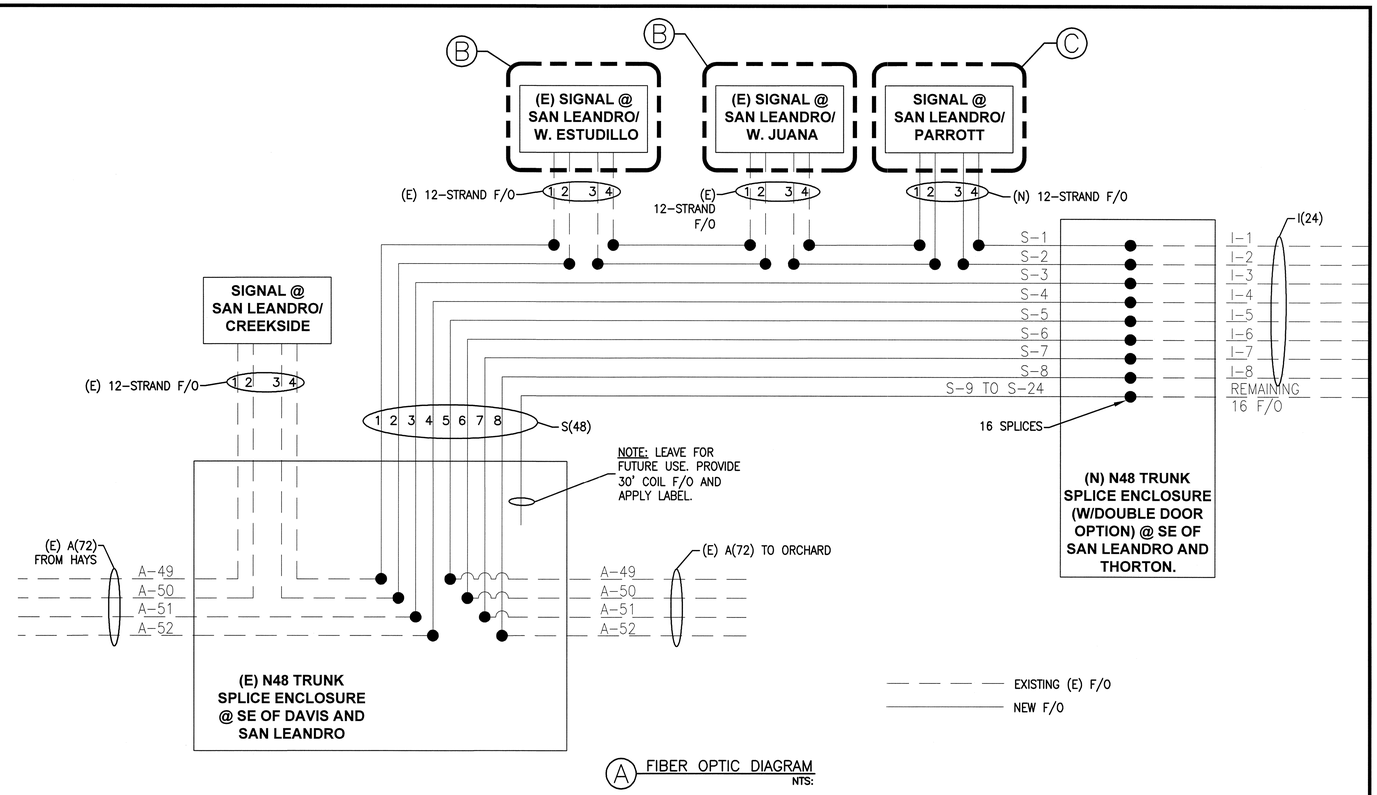
AT FULL SIZE THIS LINE MEASURES 1"

SHEET 27 OF 80

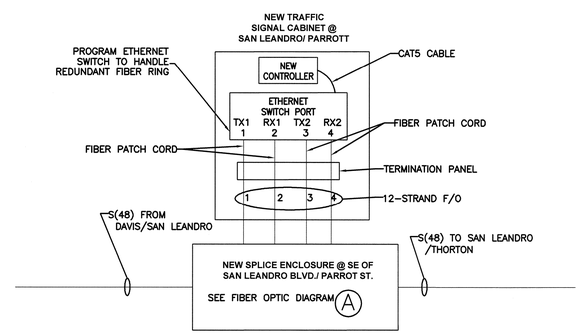
JOB NO. 150-38-331

SCALE 1"=20'

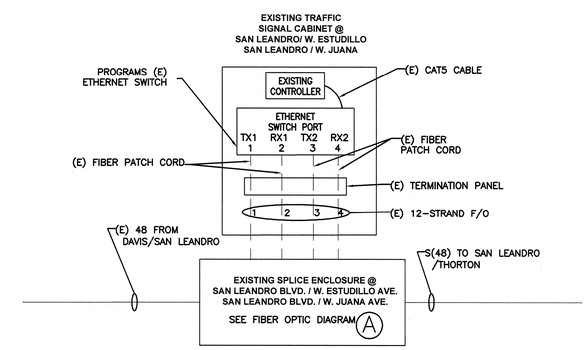
DWG 3628 CASE 202



A FIBER OPTIC DIAGRAM
NTS:



C FIBER OPTIC DETAIL CABINET CONNECTION AT NEW SIGNAL
NTS:



B FIBER OPTIC DETAIL CABINET CONNECTION AT EXISTING SIGNAL
NTS:

U5

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOUPPI No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

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NO.	DATE	REVISION

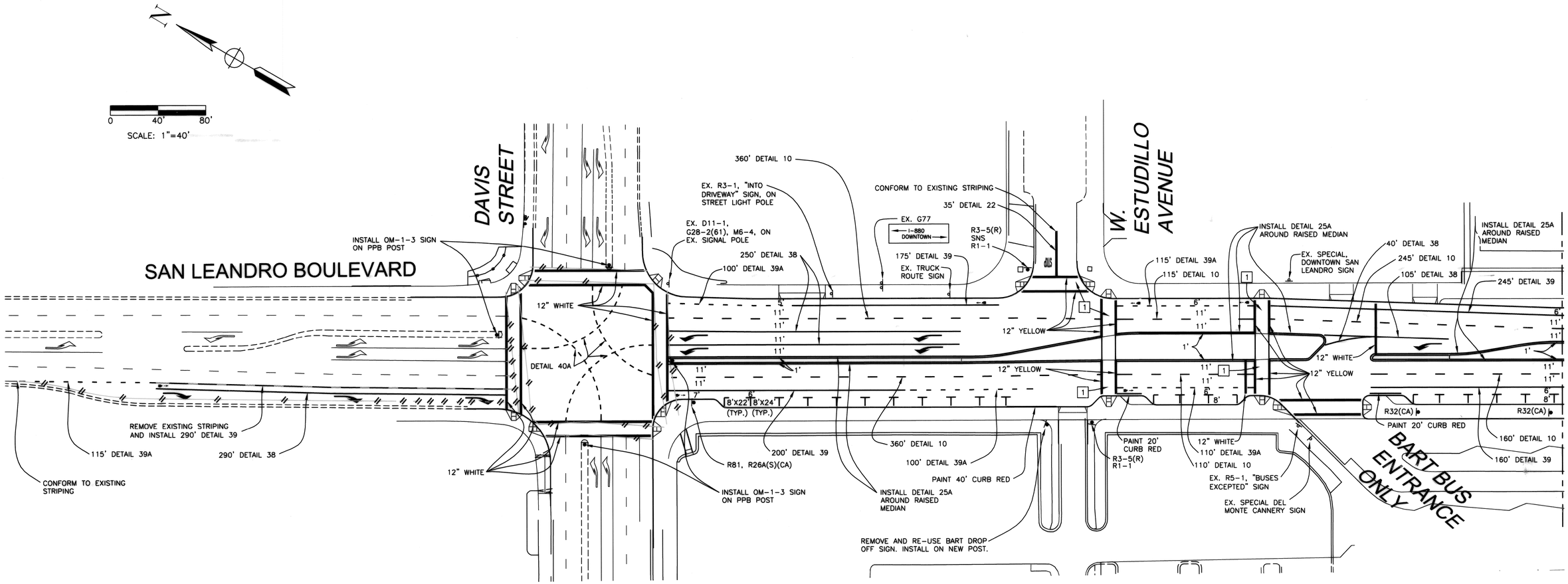
CITY OF SAN LEANDRO

DESIGNED BY MJG DATE 8/31/12
DRAWN BY AMS DATE
PROJECT MGR. MJG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. AO DATE 8/31/12
APPROVED BY: DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE UTILITY PLAN FIBER OPTIC CONNECTION

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 28 OF 80
JOB NO. 150-38-331
SCALE 1"-20'
DWG 3629 CASE 202



LEGEND

- INSTALL NEW SIGN
- EXISTING SIGN (EX.)
- EXISTING PAVEMENT MARKING
- INSTALL NEW PAVEMENT MARKING
- INSTALL NEW STRIPING PER DETAIL NUMBER
- REMOVE EXISTING STRIPING

NOTES (SS-1 AND SS-2 ONLY)

1. SIGNING AND STRIPING SHALL CONFORM TO THE APPLICABLE DETAILS OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS DATED 2010, AND THE LATEST CA-MUTCD, SIGN SPECIFICATIONS SHEETS, AND THE SPECIAL PROVISIONS.
2. ALL PAVEMENT ARROWS SHALL BE TYPE III, UNLESS NOTED OTHERWISE.
3. ALL STRIPING SHALL BE THERMOPLASTIC.
4. ANY EXISTING STRIPING THAT CONFLICTS WITH THE PROPOSED STRIPING SHALL BE REMOVED TO THE APPROVAL OF THE CITY TRAFFIC ENGINEER.
5. ALL EXISTING STRIPING ALONG SAN LEANDRO BOULEVARD BETWEEN DAVIS STREET AND THORNTON WILLIAMS STREET SHALL BE REMOVED AS PART OF PROJECT OVERLAY. SEE CIVIL PLANS FOR LIMITS. ALL EXISTING STRIPING BETWEEN THORNTON STREET AND WILLIAMS STREET SHALL BE REMOVED BY GRINDING.
6. ALL EXISTING SIGNS ALONG SAN LEANDRO BOULEVARD INSTALLED ON EXISTING STREET LIGHTS OR IN THE MEDIAN FROM DAVIS STREET TO THORNTON STREET SHALL BE REMOVED AND SALVAGED.

PROJECT NOTES (SS-1 AND SS-2 ONLY):

1 STAMPED ASPHALT CROSSWALK (SEE CIVIL/LANDSCAPE PLANS.)

SS-1

REGISTERED PROFESSIONAL ENGINEER CHRIS D. KINZEL No. 15347 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

TJKM Transportation Consultants
3875 Hopyard Road, Suite 200
Pleasanton, CA 94588
Phone:(925)463-0611 Fax:(925)463-3690
email: tjkm@tjkm.com
R.C.E. 15347

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

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NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY	ESB	DATE 8/22/12
DRAWN BY	ESB	DATE
PROJECT MGR.	NW	DATE 8/21/12
TRANS ADMIN.	RLC	DATE 8/31/12
SENIOR ENGR.	A.T.	DATE 8/21/12
APPROVED BY:		DATE 9/4/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE SAN LEANDRO BOULEVARD

SIGNING AND STRIPING PLAN

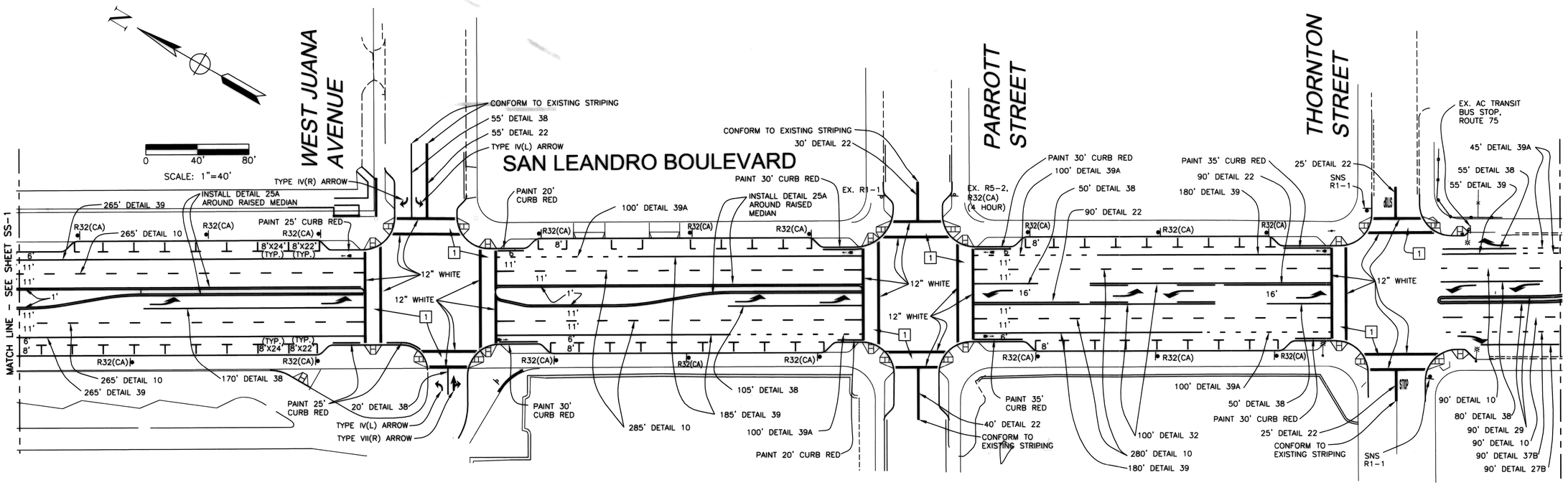
AT FULL SIZE THIS LINE MEASURES 1"

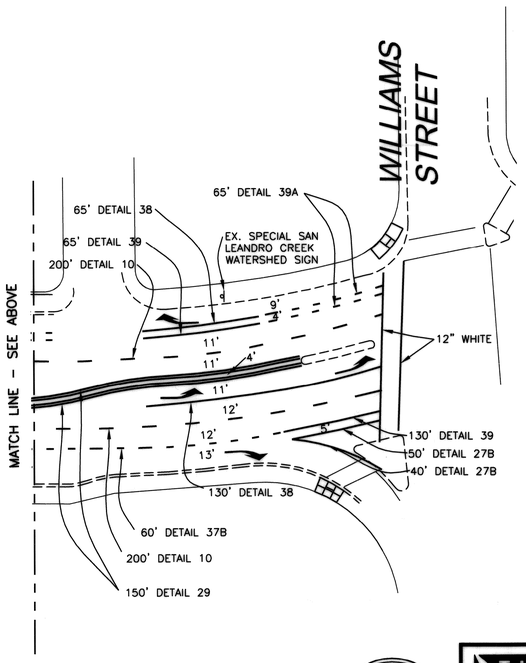
SHEET 29 OF 80

JOB NO. 150-38-331

SCALE 1"=40'

DWG 3630 CASE 202





SS-2

REGISTERED PROFESSIONAL ENGINEER CHRIS D. KINZEL No. 15347 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

TJKM Transportation Consultants
3875 Hopyard Road, Suite 200
Pleasanton, CA 94588
Phone:(925)463-0611 Fax:(925)463-3690
email: tjkm@tjkm.com
R.C.E. 15347

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NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY ESB DATE 8/22/12
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PROJECT MGR. MG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. DATE 8/31/12
APPROVED BY: DATE 9/19/12
CITY ENGINEER, R.C.E. No. 34870

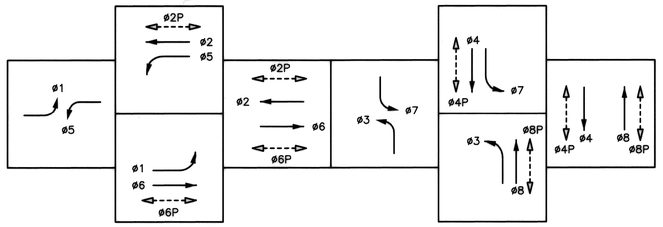
BART-DOWNTOWN PEDESTRIAN INTERFACE SAN LEANDRO BOULEVARD

SIGNING AND STRIPING PLAN

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 30 OF 80
JOB NO. 150-38-331
SCALE 1"=40'
DWG 3631 CASE 202

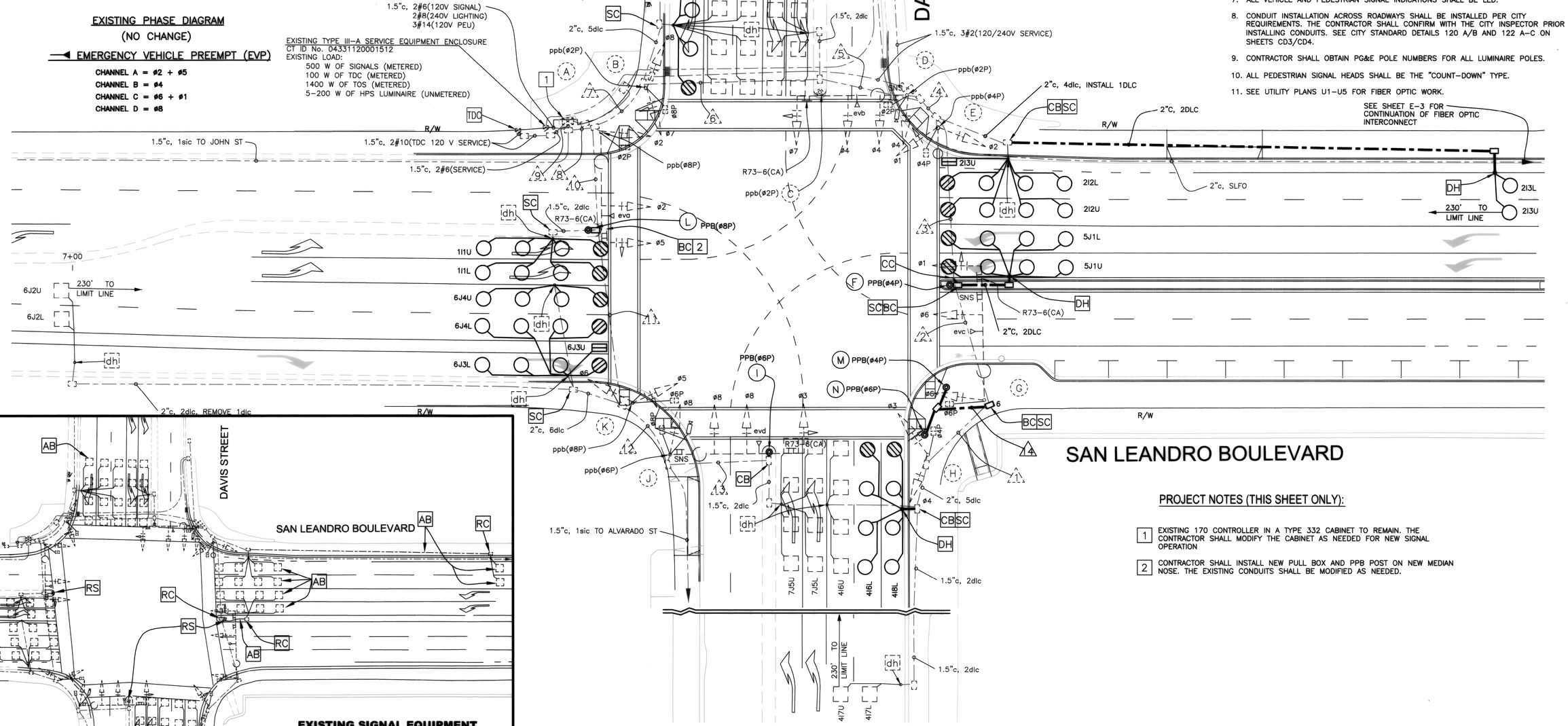
STEADY DEMAND SEQUENCE



EXISTING PHASE DIAGRAM
(NO CHANGE)

EMERGENCY VEHICLE PREEMPT (EVP)

CHANNEL A = ø2 + ø5
CHANNEL B = ø4
CHANNEL C = ø6 + ø1
CHANNEL D = ø8



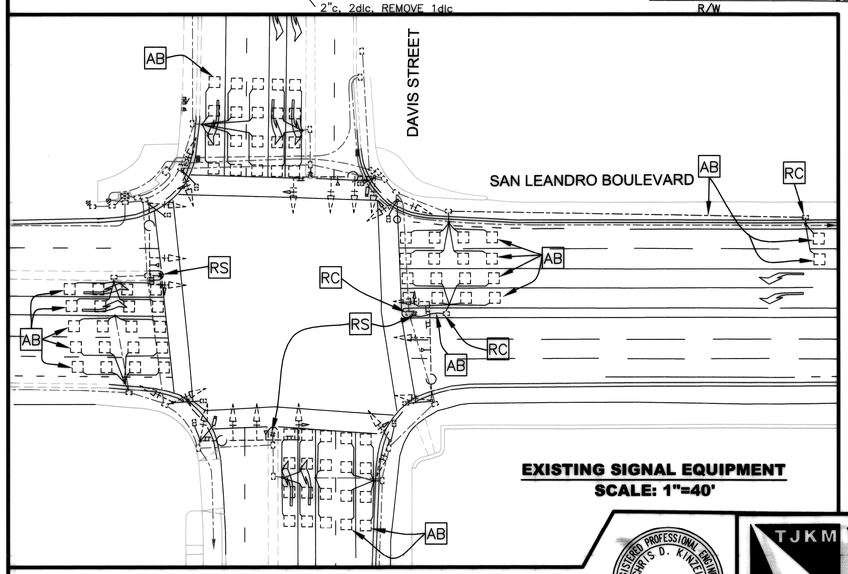
GENERAL NOTES:

1. WORK ON THESE PLANS SHALL CONFORM TO THE 2010 EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS, STANDARD PLANS, SIGN SPECIFICATION SHEETS, SPECIAL PROVISIONS, THE LATEST CA-MUTCD AND THE CITY OF SAN LEANDRO SPECIFICATIONS.
2. LOCATIONS OF CONTROLLER, STANDARDS, CONDUITS, PULL BOXES AND OTHER EQUIPMENT ARE APPROXIMATE AND WILL BE LOCATED IN THE FIELD AS DIRECTED BY THE ENGINEER.
3. ALL UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY OVERHEAD AND UNDERGROUND CLEARANCE WITH PG&E, AT&T, AND OTHER AFFECTED UTILITIES PRIOR TO THE START OF WORK.
4. THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
5. ALL NEW PULL BOXES SHALL BE NO. 5 UNLESS OTHERWISE NOTED. INSTALL PER CITY STANDARD 500A (SIM) ON SHEET SL 1.5.
6. ALL NEW SIGNAL HEADS SHALL HAVE 12" INDICATIONS, WITH BACKPLATES AND TUNNEL VISORS.
7. ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL BE LED.
8. CONDUIT INSTALLATION ACROSS ROADWAYS SHALL BE INSTALLED PER CITY REQUIREMENTS. THE CONTRACTOR SHALL CONFIRM WITH THE CITY INSPECTOR PRIOR TO INSTALLING CONDUITS. SEE CITY STANDARD DETAILS 120 A/B AND 122 A-C ON SHEETS CD3/CD4.
9. CONTRACTOR SHALL OBTAIN PG&E POLE NUMBERS FOR ALL LUMINAIRE POLES.
10. ALL PEDESTRIAN SIGNAL HEADS SHALL BE THE "COUNT-DOWN" TYPE.
11. SEE UTILITY PLANS U1-U5 FOR FIBER OPTIC WORK.

SAN LEANDRO BOULEVARD

PROJECT NOTES (THIS SHEET ONLY):

1. EXISTING 170 CONTROLLER IN A TYPE 332 CABINET TO REMAIN. THE CONTRACTOR SHALL MODIFY THE CABINET AS NEEDED FOR NEW SIGNAL OPERATION
2. CONTRACTOR SHALL INSTALL NEW PULL BOX AND PPB POST ON NEW MEDIAN NOSE. THE EXISTING CONDUITS SHALL BE MODIFIED AS NEEDED.



EXISTING SIGNAL EQUIPMENT
SCALE: 1"=40'

E-1

REGISTERED PROFESSIONAL ENGINEER CHRIS D. KNIGHT No. 15347 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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email: tjkm@tjkm.com

Chris D. Knight

R.C.E. 15347

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY	ESB	DATE 8/22/12
DRAWN BY	ESB	DATE
PROJECT MGR.	MG	DATE 8/31/12
TRANS ADMIN.	BLC	DATE 8/31/12
SENIOR ENGR.	TJ	DATE 8/31/12
APPROVED BY:		DATE 9/4/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN
PEDESTRIAN INTERFACE
SAN LEANDRO BLVD AT DAVIS STREET

SIGNALS AND LIGHTING

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 31 OF 80
JOB NO. 150-38-331
SCALE 1"=20'
DWG 3632 CASE 202

CONDUCTOR TABLE

AWG	CIRCUIT	RUNS 1	2	3	4	5	6	7	8	9	10	11	12	13	14
NO. 14	ø1		3	3	3	3	3	3	3	3					
	ø2				3	3	3	3	3	3					
	ø3	3	3	3	3	3	3	3	6	6	3	3	3		
	ø4	3	3	3	3	3	3	3	3	3					
	ø5								3	3	3	3			
	ø6		3	3	3	3	3	3	6	6	3	3			
	ø7					3	3	3	3	3					
	ø8							3	6	6	3	3	3		
	ø2P					2	2	2	2	2					
	ø4P	2	2	2	2	2	2	2	2	2					
	ø6P		2	2	2	2	2	2	4	4	2	2			
	ø8P							2	4	4	2	2	2		
	PPB (ø2P)					1	1	1	1	1					
	PPB (ø4P)		1	1	1	1	1	1	2	2					(1)
	PPB (ø6P)	1	1	1	1	1	1	1	2	2	1	1	1	1	(1)
	PPB (ø8P)								1	1	1	1			
	PPB COMMON	1	1	1	1	1	1	1	2	2	1	1	1	1	(1)
	SPARES	3	3	3	3	3	3	3	6	6	3	3	3		
	PEU								3						
	TOTAL No. 14	13	22	22	25	31	31	36	62	59	22	22	13	2	(3)
NO. 8	SIGNAL COMMON	1	1	1	1	1	1	1	2	2	1	1	1		
	LUMINAIRE		2	2	2	2	2	2	2		2	2	2		
	TOTAL No. 8	1	3	3	3	3	3	3	4	2	3	3	3	#	
VIDEO DET.	VIDEO/POWER/COMM CABLE														
SIC	3 PAIR NO. 16								1	2	1	1	1		
DLC	ø1								2	2	2				
	ø2				4 (1)	4 (1)	4 (1)	4 (1)	4 (1)	4 (1)					
	ø3						2	2	2	2					
	ø4	5	5	5	5	5	5	5	5	5					
	ø5			2	2	2	2	2	2	2					
	ø6								6	6	6	6			
	ø7								2	2	2	2	2		
	ø8							5	5	5					
	TOTAL DLC	5	5	7	11 (1)	11 (1)	13 (1)	18 (1)	28 (1)	28 (1)	10	8	2	#	
OPTICOM CABLE	CHANNEL A								1	1					
	CHANNEL B					1	1	1	1	1					
	CHANNEL C		1	1	1	1	1	1	1	1					
	CHANNEL D								1	1	1	1	1		
	TOTAL CABLES		1	1	1	2	2	2	4	4	1	1	1	#	
CONDUIT SIZE (INCHES)		2.5	3	3.5	4	4	4	2-3.5"	2-3.5"	2-4"	3.5	3.5	2.5	2.5	(3)
PERCENT CONDUIT FILL		15%	15%	13%	13%	15%	16%	13%	21%	16%	16%	15%	16%	1%	2%

NOTES:

ALL CONDUCTORS AND CONDUITS ARE EXISTING UNLESS SPECIFIED OTHERWISE.

( ) = NEW CONDUCTORS AND CONDUITS

EQUIPMENT SCHEDULE

No.	STANDARD TYPE	STANDARD SIG. M.A.	STANDARD LUM. M.A.	VEHICLE SIGNAL MOUNTING MAST ARM	VEHICLE SIGNAL MOUNTING POLE	PED SIGNAL ø	PED SIGNAL MTG	PPB ø	PPB ARROW	HPS LUMINAIRE	SPECIAL REQUIREMENTS
A	26-4-70	45'	15'	MAS MAS	SV-1-T	2	SP-1-T	8	LEFT	200W	EXISTING R73-6 AND OPTICOM CHANNEL "A" ON SMA.
B	1-B	–	–	–	TV-2-T	8	SP-1-T	2	RIGHT	–	
C	PPB POST	–	–	–	–	–	–	2	BOTH	–	
D	26-4-70	45'	15'	MAS MAS MAS	SV-1-T	2	SP-1-T	2	LEFT	200W	EXISTING SNS "SAN LEANDRO BLVD". EXISTING R3-18 AND OPTICOM CHANNEL "B" ON SMA. EXISTING VIDEO DETECTION CAMERA ON POLE.
E	15	–	15'	–	SV-2-TB	4	SP-1-T	4	LEFT	200W	
F	PPB POST (N)	–	–	–	–	–	–	4 (N)	BOTH (N)	–	
G	29-5-70	55'	15'	MAS MAS	SV-1-T	6	SP-1-T	4	LEFT	200W	EXISTING SNS "DAVIS ST", R73-6 AND OPTICOM CHANNEL "C" ON SMA.
H	1-B	–	–	–	TV-2-T	4	SP-1-T	6	RIGHT	–	
I	PPB POST (N)	–	–	–	–	–	–	6 (N)	BOTH (N)	–	
J	29-5-70	55'	15'	MAS MAS MAS	SV-1-T	8	SP-1-T	6	LEFT	200W	EXISTING SNS "SAN LEANDRO BLVD". EXISTING R73-6(CA) AND OPTICOM CHANNEL "B" ON SMA. EXISTING VIDEO DETECTION CAMERA ON POLE.
K	1-B	–	–	–	TV-2-T	6	SP-1-T	8	RIGHT	–	
L	PPB POST	–	–	–	–	–	–	8	BOTH	–	
M	PPB POST (N)	–	–	–	–	–	–	4 (N)	LEFT (N)	–	
N	PPB POST (N)	–	–	–	–	–	–	6 (N)	RIGHT (N)	–	

NOTES (THIS SHEET ONLY):

1. ALL EQUIPMENT IS EXISTING UNLESS SPECIFIED OTHERWISE.
2. (N) = NEW EQUIPMENT
3. OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS. FOR TYPE OF STANDARD, VEHICLE AND PEDESTRIAN SIGNAL MOUNTING, SEE STANDARD PLANS.
4. STREET NAME SIGN SHALL BE CONSTRUCTED PER CITY OF SAN LEANDRO STANDARDS.

E-2

REGISTERED PROFESSIONAL ENGINEER CHRIS D. KNIGHT No. 15347 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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Chris D. Knight
R.C.E. 15347

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

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NO.	DATE	REVISION

CITY OF SAN LEANDRO

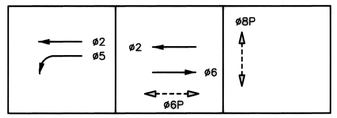
DESIGNED BY ESB DATE 8/22/12
DRAWN BY ESB DATE
PROJECT MGR. MG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. DATE 8/31/12
APPROVED BY DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE SAN LEANDRO BLVD AT DAVIS STREET CONDUCTOR, EQUIPMENT AND POLE SCHEDULES

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 32 OF 80
JOB NO. 150-38-331
SCALE NONE
DWG 3633 CASE 202

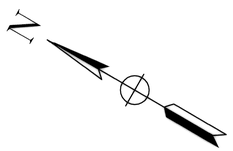
STEADY DEMAND SEQUENCE



PROPOSED PHASE DIAGRAM

EMERGENCY VEHICLE PREEMPT (EVP)

CHANNEL A = ø2 + ø5
CHANNEL C = ø6



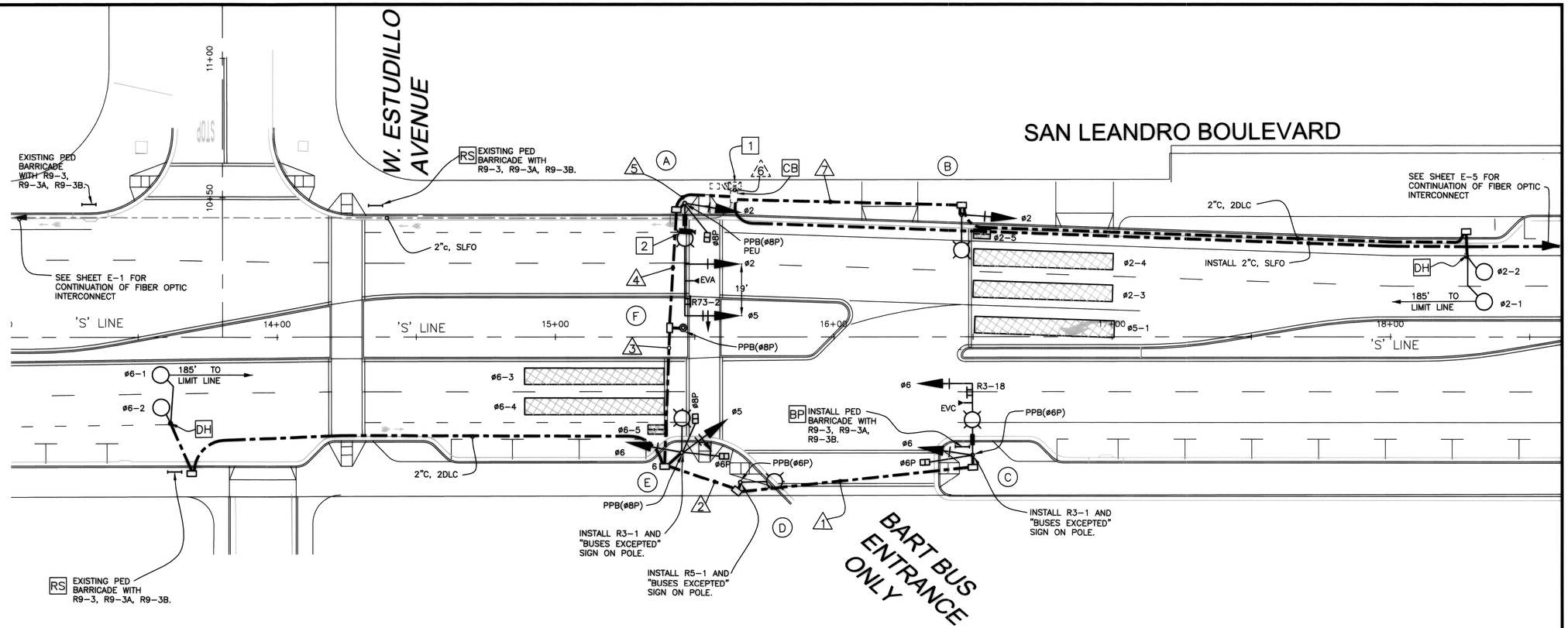
0 20' 40'
SCALE: 1"=20'

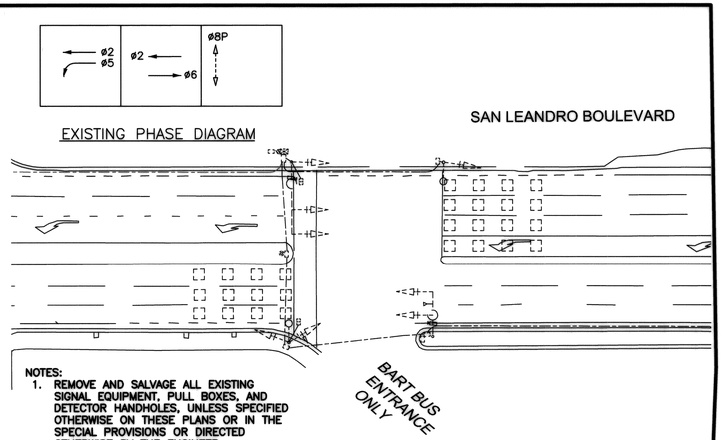
LEGEND:

VIDEO CAMERA

VIDEO DETECTION ZONE

SLFO FIBER OPTIC CABLE PER CITY OF SAN LEANDRO REQUIREMENTS. SEE UTILITY PLANS U1–U5





NOTES:
1. REMOVE AND SALVAGE ALL EXISTING SIGNAL EQUIPMENT, PULL BOXES, AND DETECTOR HANDHOLES, UNLESS SPECIFIED OTHERWISE ON THESE PLANS OR IN THE SPECIAL PROVISIONS OR DIRECTED OTHERWISE BY THE ENGINEER.
2. ABANDON ALL CONDUITS AND LOOP DETECTORS, UNLESS SPECIFIED OTHERWISE ON THESE PLANS OR IN THE SPECIAL PROVISIONS OR DIRECTED OTHERWISE BY THE ENGINEER.

EXISTING SIGNAL EQUIPMENT
SCALE: 1"=40'

PROJECT NOTES (THIS SHEET ONLY):

1. EXISTING CONTROLLER IN A TYPE P CABINET WITH TYPE II SERVICE ATTACHED TO REMAIN. THE CONTRACTOR SHALL FURNISH ALL NEW EQUIPMENT REQUIRED AND REWIRE CONTROLLER AS NEEDED FOR NEW SIGNAL OPERATION
2. FURNISH AND INSTALL ALDIS VIDEO DETECTION CAMERA, OR APPROVED EQUAL, ON POLE.

GENERAL NOTES:

1. WORK ON THESE PLANS SHALL CONFORM TO THE 2010 EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS, STANDARD PLANS, SIGN SPECIFICATION SHEETS, SPECIAL PROVISIONS, THE LATEST CA–MUTCD AND THE CITY OF SAN LEANDRO SPECIFICATIONS.
2. LOCATIONS OF CONTROLLER, STANDARDS, CONDUITS, PULL BOXES AND OTHER EQUIPMENT ARE APPROXIMATE AND WILL BE LOCATED IN THE FIELD AS DIRECTED BY THE ENGINEER.
3. ALL UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY OVERHEAD AND UNDERGROUND CLEARANCE WITH PG&E, AT&T, AND OTHER AFFECTED UTILITIES PRIOR TO THE START OF WORK.
4. THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
5. ALL NEW PULL BOXES SHALL BE NO. 5 UNLESS OTHERWISE NOTED. INSTALL PER CITY STANDARD 500A (SIM) ON SHEET SL 1.5.
6. ALL NEW SIGNAL HEADS SHALL HAVE 12" INDICATIONS, WITH BACKPLATES AND TUNNEL VISORS.
7. ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL BE LED.
8. CONDUIT INSTALLATION ACROSS ROADWAYS SHALL BE INSTALLED PER CITY REQUIREMENTS. THE CONTRACTOR SHALL CONFIRM WITH THE CITY INSPECTOR PRIOR TO INSTALLING CONDUITS. SEE CITY STANDARD DETAILS 120 A/B AND 122 A–C ON SHEETS CD3/CD4.
9. CONTRACTOR SHALL OBTAIN PG&E POLE NUMBERS FOR ALL LUMINAIRE POLES.
10. ALL PEDESTRIAN SIGNAL HEADS SHALL BE THE "COUNT–DOWN" TYPE.
11. ALL SIGNAL POLES SHALL BE POWDER–COATED PER CITY OF SAN LEANDRO REQUIREMENTS.
12. SEE UTILITY PLANS U1–U5 FOR FIBER OPTIC WORK.

E-3

REGISTERED PROFESSIONAL ENGINEER CHRIS D. KINZEL No. 15347 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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R.C.E. 15347

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY ESB DATE 8/22/12
DRAWN BY ESB DATE
PROJECT MGR. MG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. DATE 8/31/12
APPROVED BY DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE
SAN LEANDRO BLVD AT BART BUS ENTRANCE
SIGNAL AND LIGHTING

AT FULL SIZE THIS LINE MEASURES 1"
SHEET 33 OF 80
JOB NO. 150–38–331
SCALE 1"=20'
DWG 3634 CASE 202

CONDUCTOR TABLE

AWG	CIRCUIT	RUNS 1	2	3	4	5	6	7
NO. 14	ø2					3	6	3
	ø5			3	3	3	3	
	ø6	3	3	3	3	3	3	
	ø6P	2	2	2	2	2	2	
	ø8P			2	2	2	2	
	PPB (ø6P)	1	1	1	1	1	1	
	PPB (ø8P)			1	1	1	1	
	PPB COMMON	1	1	1	1	1	1	
	SPARES	3	3	3	3	3	6	3
	PEU					3	3	
	IISNS	2	2	2	2	2	2	
	TOTAL No. 14	12	12	18	18	24	30	6
NO. 8	SIGNAL COMMON	1	1	1	1	1	2	1
	LUMINAIRE	2	2	2	2	2	4	2
	TOTAL No. 8	3	3	3	3	3	6	3
VIDEO DET.	VIDEO/POWER/COMM CABLE	1	1	1	1	2	2	
FIBER	12-STRAND SMFO						1	
DLC	ø2						2	
	ø6			2	2	2	2	
	TOTAL DLC			2	2	2	4	
OPTICOM CABLE	CHANNEL A					1	1	
	CHANNEL C	1	1	1	1	1	1	
	TOTAL CABLES	1	1	1	1	2	2	
CONDUIT SIZE (INCHES)		4	4	4	4	4	(2-3")	3
PERCENT CONDUIT FILL		5%	5%	7%	7%	10%	12%	5%

NOTES:

ALL CONDUCTORS AND CONDUITS ARE NEW UNLESS SPECIFIED OTHERWISE.

( ) = EXISTING CONDUCTORS AND CONDUITS

EQUIPMENT SCHEDULE

No.	STANDARD TYPE	SIG. M.A.	LUM .M.A.	VEHICLE SIGNAL MOUNTING MAST ARM	POLE	PED SIGNAL ø	MTG	PPB ø	ARROW	HPS LUMINAIRE	SPECIAL REQUIREMENTS
A	26-4-100	40'	15'	MAS MAS	SV-1-T	8	SP-1-T	8	LEFT	200W	INSTALL IISNS "BUS ONLY", R73-2 AND OPTICOM CHANNEL "A" ON SMA. INSTALL ALDIS VIDEO DETECTION CAMERA ON POLE.
B	15-TS	–	15'	–	SV-1-T	–	–	–	–	200W	
C	19-4-100	25'	15'	MAS	SV-1-T	6	SP-1-T	6	LEFT	200W	INSTALL IISNS "BUS ONLY", R3-18 AND OPTICOM CHANNEL "C" ON SMA.
D	15-TS	–	15'	–	–	–	–	6	LEFT	200W	
E	15-TS	–	15'	–	SV-2-TB	6 8	SP-2-T	8	RIGHT	200W	
F	PPB POST	–	–	–	–	–	–	8	BOTH	–	

NOTES (THIS SHEET ONLY):

1. FOR THE MAST ARMS, ADJUST THE MOUNTING HEIGHT OF THE SIGNAL HEAD ON THE MAST ARM AS NECESSARY TO AVOID PHYSICAL CONFLICT WITH THE IISNS.
2. OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS. FOR TYPE OF STANDARD, VEHICLE AND PEDESTRIAN SIGNAL MOUNTING, SEE STANDARD PLANS.
3. STREET NAME SIGN SHALL BE CONSTRUCTED PER CITY OF SAN LEANDRO STANDARDS.

E-4

REGISTERED PROFESSIONAL ENGINEER CHRIS D. KINGEL No. 15347 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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CITY OF SAN LEANDRO INCORPORATED 1872

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NO.	DATE	REVISION

CITY OF SAN LEANDRO

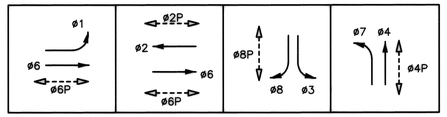
DESIGNED BY ESB DATE 8/22/12
DRAWN BY ESB DATE
PROJECT MGR. MG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. DATE 8/31/12
APPROVED BY: DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE
SAN LEANDRO BLVD AT BART BUS ENTRANCE
CONDUCTOR, EQUIPMENT AND POLE SCHEDULES

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 34 OF 80
JOB NO. 150-38-331
SCALE NONE
DWG 3635 CASE 202

STEADY DEMAND SEQUENCE



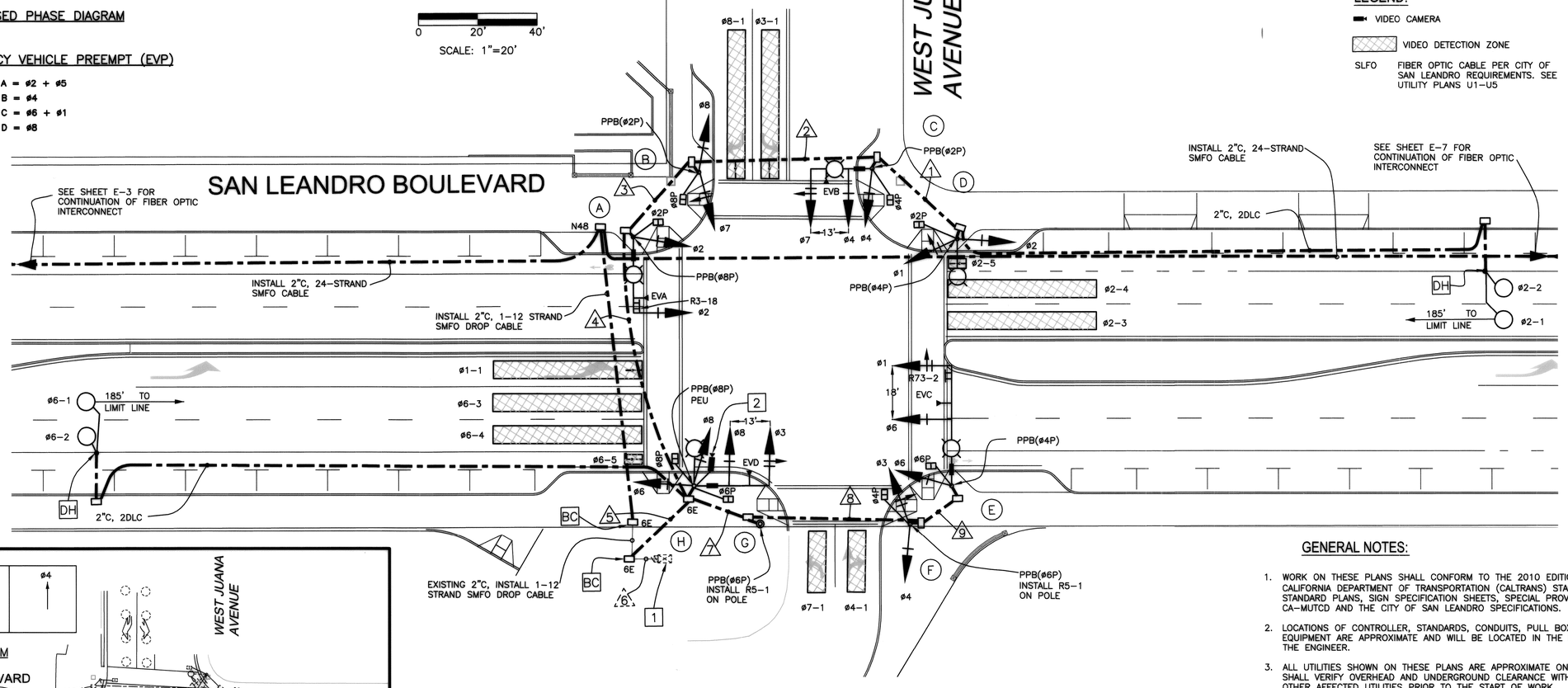
PROPOSED PHASE DIAGRAM

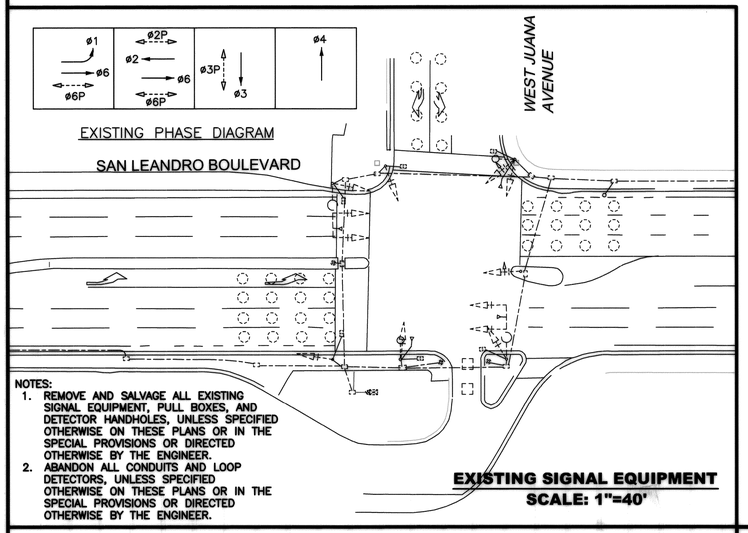
EMERGENCY VEHICLE PREEMPT (EVP)

CHANNEL A = ø2 + ø5
CHANNEL B = ø4
CHANNEL C = ø6 + ø1
CHANNEL D = ø8

N

0 20' 40'
SCALE: 1"=20'





NOTES:
1. REMOVE AND SALVAGE ALL EXISTING SIGNAL EQUIPMENT, PULL BOXES, AND DETECTOR HANDHOLES, UNLESS SPECIFIED OTHERWISE ON THESE PLANS OR IN THE SPECIAL PROVISIONS OR DIRECTED OTHERWISE BY THE ENGINEER.
2. ABANDON ALL CONDUITS AND LOOP DETECTORS, UNLESS SPECIFIED OTHERWISE ON THESE PLANS OR IN THE SPECIAL PROVISIONS OR DIRECTED OTHERWISE BY THE ENGINEER.

EXISTING SIGNAL EQUIPMENT
SCALE: 1"=40'

PROJECT NOTES (THIS SHEET ONLY):

1. EXISTING CONTROLLER IN A TYPE P CABINET WITH TYPE II SERVICE ATTACHED TO REMAIN. THE CONTRACTOR SHALL FURNISH ALL NEW EQUIPMENT REQUIRED AND REWIRE CONTROLLER AS NEEDED FOR NEW SIGNAL OPERATION
2. FURNISH AND INSTALL ALDIS VIDEO DETECTION CAMERA, OR APPROVED EQUAL, ON POLE.

LEGEND:

VIDEO CAMERA

VIDEO DETECTION ZONE

SLFO FIBER OPTIC CABLE PER CITY OF SAN LEANDRO REQUIREMENTS. SEE UTILITY PLANS U1–U5

GENERAL NOTES:

1. WORK ON THESE PLANS SHALL CONFORM TO THE 2010 EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS, STANDARD PLANS, SIGN SPECIFICATION SHEETS, SPECIAL PROVISIONS, THE LATEST CA–MUTCD AND THE CITY OF SAN LEANDRO SPECIFICATIONS.
2. LOCATIONS OF CONTROLLER, STANDARDS, CONDUITS, PULL BOXES AND OTHER EQUIPMENT ARE APPROXIMATE AND WILL BE LOCATED IN THE FIELD AS DIRECTED BY THE ENGINEER.
3. ALL UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY OVERHEAD AND UNDERGROUND CLEARANCE WITH PG&E, AT&T, AND OTHER AFFECTED UTILITIES PRIOR TO THE START OF WORK.
4. THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
5. ALL NEW PULL BOXES SHALL BE NO. 5 UNLESS OTHERWISE NOTED. INSTALL PER CITY STANDARD 500A (SIM) ON SHEET SL 1.5.
6. ALL NEW SIGNAL HEADS SHALL HAVE 12" INDICATIONS, WITH BACKPLATES AND TUNNEL VISORS.
7. ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL BE LED.
8. CONDUIT INSTALLATION ACROSS ROADWAYS SHALL BE INSTALLED PER CITY REQUIREMENTS. THE CONTRACTOR SHALL CONFIRM WITH THE CITY INSPECTOR PRIOR TO INSTALLING CONDUITS. SEE CITY STANDARD DETAILS 120 A/B AND 122 A–C ON SHEETS CD3/CD4.
9. CONTRACTOR SHALL OBTAIN PG&E POLE NUMBERS FOR ALL LUMINAIRE POLES.
10. ALL PEDESTRIAN SIGNAL HEADS SHALL BE THE "COUNT–DOWN" TYPE.
11. ALL SIGNAL POLES SHALL BE POWDER–COATED PER CITY OF SAN LEANDRO REQUIREMENTS.
12. SEE UTILITY PLANS U1–U5 FOR FIBER OPTIC WORK.

E-5

REGISTERED PROFESSIONAL ENGINEER CHRIS D. KINZEL No. 15347 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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Chris D. Kinzel
R.C.E. 15347

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION

DESIGNED BY	ESB	DATE 8/22/12
DRAWN BY	ESB	DATE
PROJECT MGR.	MG	DATE 8/31/12
TRANS ADMIN.	RLC	DATE 8/31/12
SENIOR ENGR.		DATE 8/31/12
APPROVED BY:		DATE 9/14/12

CITY ENGINEER, R.C.E. No. 34870

CITY OF SAN LEANDRO

BART-DOWNTOWN PEDESTRIAN INTERFACE
SAN LEANDRO BLVD AT WEST JUANA AVE
SIGNAL AND LIGHTING

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 35 OF 80
JOB NO. 150-38-331
SCALE 1"=20'
DWG 3636 CASE 202

CONDUCTOR TABLE

AWG	CIRCUIT	RUNS 1	2	3	4	5	6	7	8	9
NO. 14	ø1	3	3	3	3	6	6	3	3	3
	ø2	3	3	3	3	3	3			
	ø3					3	3	3	3	
	ø4		3	3	3	6	6	3	3	
	ø6					3	3	3	3	3
	ø7		3	3	3	3	3			
	ø8			3	3	3	3			
	ø2P	2	2	2	2	2	2			
	ø4P		2	2	2	4	4	2	2	
	ø6P					2	2	2	2	2
	ø8P			2	2	2	2			
	PPB (ø2P)		1	1	1	1	1			
	PPB (ø4P)	1	1	1	1	2	2	1	1	1
	PPB (ø6P)					1	1	1	1	
	PPB (ø8P)				1	1	1			
	PPB COMMON	1	1	1	1	2	2	1	1	1
	SPARES	3	3	3	3	6	6	3	3	3
	PEU					3	3			
	IISNS		2	2	2	4	4	2	2	2
	TOTAL No. 14	13	24	29	30	57	57	24	24	15
NO. 8	SIGNAL COMMON	1	1	1	1	2	2	1	1	1
	LUMINAIRE	2	2	2	2	4	4	2	2	2
	TOTAL No. 8	3	3	3	3	6	6	3	3	3
VIDEO DET.	VIDEO/POWER/COMM CABLE		1	1	2	4	4	1	1	1
FIBER	12-STRAND SMFO						1			
DLC										
	ø2	2	2	2	2	2	2			
	ø6					2	2			
	TOTAL DLC	2	2	2	2	4	4			
OPTICOM CABLE	CHANNEL A				1	1	1			
	CHANNEL B		1	1	1	1	1			
	CHANNEL C					1	1	1	1	1
	CHANNEL D					1	1			
	TOTAL CABLES		1	1	2	4	4	1	1	1
CONDUIT SIZE (INCHES)		3	4	3	4	4	(2-3")	4	4	3
PERCENT CONDUIT FILL		9%	8%	15%	11%	20%	19%	7%	7%	10%

NOTES:

ALL CONDUCTORS AND CONDUITS ARE NEW UNLESS SPECIFIED OTHERWISE.

( ) = EXISTING CONDUCTORS AND CONDUITS

EQUIPMENT SCHEDULE

No.	STANDARD TYPE	STANDARD SIG. M.A.	STANDARD LUM. M.A.	VEHICLE SIGNAL MOUNTING MAST ARM	VEHICLE SIGNAL MOUNTING POLE	PED SIGNAL ø	PED SIGNAL MTG	PPB ø	PPB ARROW	HPS LUMINAIRE	SPECIAL REQUIREMENTS
A	19-4-100	25'	15'	MAS	SV-1-T	2	SP-1-T	8	LEFT	200W	INSTALL IISNS "W. JUANA AVE", R3-18 AND OPTICOM CHANNEL "A" ON SMA.
B	1-B	–	–	–	TV-2-T	8	SP-1-T	2	RIGHT	–	
C	19-4-100	20'	15'	MAS MAS	SV-1-T	4	SP-1-T	2	LEFT	200W	INSTALL IISNS "SAN LEANDRO BLVD" AND OPTICOM CHANNEL "B" ON SMA.
D	15-TS	–	–	–	TV-2-T	2	SP-1-T	4	RIGHT	200W	
E	26-4-100	40'	15'	MAS MAS	SV-1-T	6	SP-1-T	4	LEFT	200W	INSTALL IISNS "W. JUANA AVE", R73-2 AND OPTICOM CHANNEL "C" ON SMA.
F	1-B	–	–	–	TV-2-T	4	SP-1-T	6	RIGHT	–	INSTALL R5-1 ON POLE.
G	PPB POST	–	–	–	–	–	–	6	LEFT	–	
H	19-4-100	25'	15' SEE NOTE 4.	MAS MAS	SV-2-TB	8	SP-2-T	6 8	LEFT	200W	INSTALL IISNS "SAN LEANDRO BLVD" AND OPTICOM CHANNEL "D" ON SMA. INSTALL ALDIS VIDEO DETECTION CAMERA ON POLE.

NOTES (THIS SHEET ONLY):

1. FOR THE MAST ARMS, ADJUST THE MOUNTING HEIGHT OF THE SIGNAL HEAD ON THE MAST ARM AS NECESSARY TO AVOID PHYSICAL CONFLICT WITH THE IISNS.
2. OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS. FOR TYPE OF STANDARD, VEHICLE AND PEDESTRIAN SIGNAL MOUNTING, SEE STANDARD PLANS.
3. STREET NAME SIGN SHALL BE CONSTRUCTED PER CITY OF SAN LEANDRO STANDARDS.
4. MOUNT LUMINAIRE MAST ARM PERPENDICULAR TO SAN LEANDRO BOULEVARD.

E-6

REGISTERED PROFESSIONAL ENGINEER CHRIS D. KUNZEL No. 15347 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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Chris D. Kunzel
R.C.E. 15347

CITY OF SAN LEANDRO INCORPORATED 1872

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NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY ESB DATE 8/22/12
DRAWN BY ESB DATE
PROJECT MGR. NG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. DATE 8/31/12
APPROVED BY: DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE
SAN LEANDRO BLVD AT WEST JUANA AVE
CONDUCTOR, EQUIPMENT AND POLE SCHEDULES

AT FULL SIZE THIS LINE MEASURES 1"
SHEET 36 OF 80
JOB NO. 150-38-331
SCALE NONE
DWG 3637 CASE 202

STEADY DEMAND SEQUENCE

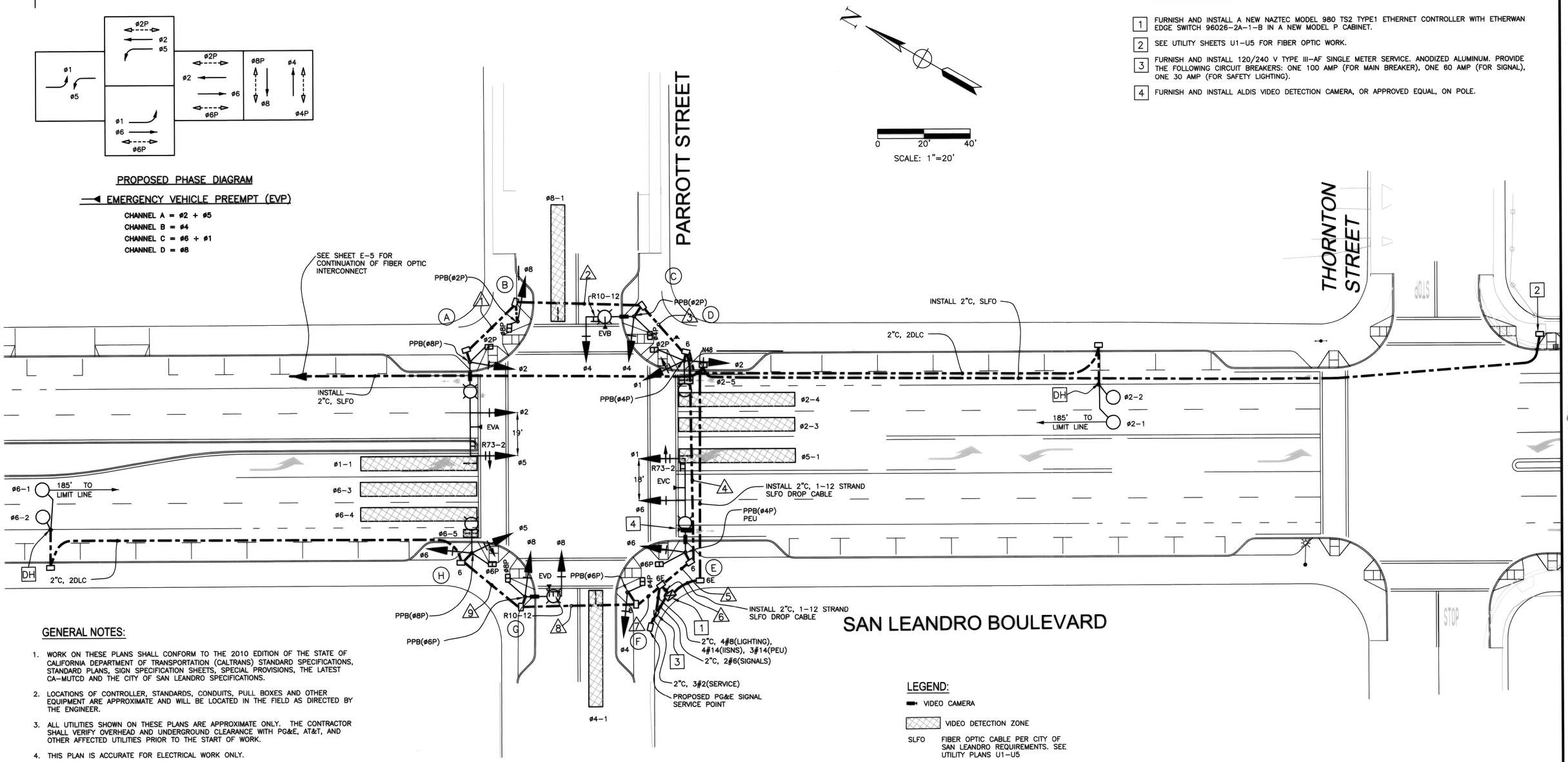
PROPOSED PHASE DIAGRAM

EMERGENCY VEHICLE PREEMPT (EVP)

CHANNEL A = ø2 + ø5
CHANNEL B = ø4
CHANNEL C = ø6 + ø1
CHANNEL D = ø8

PROJECT NOTES (THIS SHEET ONLY):

1. FURNISH AND INSTALL A NEW NAZTEC MODEL 980 TS2 TYPE1 ETHERNET CONTROLLER WITH ETHERWAN EDGE SWITCH 96026-2A-1-B IN A NEW MODEL P CABINET.
2. SEE UTILITY SHEETS U1-U5 FOR FIBER OPTIC WORK.
3. FURNISH AND INSTALL 120/240 V TYPE III-AF SINGLE METER SERVICE. ANODIZED ALUMINUM. PROVIDE THE FOLLOWING CIRCUIT BREAKERS: ONE 100 AMP (FOR MAIN BREAKER), ONE 60 AMP (FOR SIGNAL), ONE 30 AMP (FOR SAFETY LIGHTING).
4. FURNISH AND INSTALL ALDIS VIDEO DETECTION CAMERA, OR APPROVED EQUAL, ON POLE.



GENERAL NOTES:

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7. ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL BE LED.
8. CONDUIT INSTALLATION ACROSS ROADWAYS SHALL BE INSTALLED PER CITY REQUIREMENTS. THE CONTRACTOR SHALL CONFIRM WITH THE CITY INSPECTOR PRIOR TO INSTALLING CONDUITS. SEE CITY STANDARD DETAILS 120 A/B AND 122 A-C ON SHEETS CD3/CD4.
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10. ALL PEDESTRIAN SIGNAL HEADS SHALL BE THE "COUNT-DOWN" TYPE.
11. ALL SIGNAL POLES SHALL BE POWDER-COATED PER CITY OF SAN LEANDRO REQUIREMENTS.
12. SEE UTILITY PLANS U1-U5 FOR FIBER OPTIC WORK.

LEGEND:

VIDEO CAMERA

VIDEO DETECTION ZONE

SLFO FIBER OPTIC CABLE PER CITY OF SAN LEANDRO REQUIREMENTS. SEE UTILITY PLANS U1-U5

E-7

REGISTERED PROFESSIONAL ENGINEER CHRIS D. KINZEL No. 15347 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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CITY OF SAN LEANDRO INCORPORATED 1872

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CITY OF SAN LEANDRO

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TRANS ADMIN.	RLC	DATE	8/31/12
SENIOR ENGR.		DATE	8/31/12
APPROVED BY		DATE	9/4/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE
SAN LEANDRO BLVD AT PARROTT STREET
SIGNAL AND LIGHTING

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 37 OF 80
JOB NO. 150-38-331
SCALE 1"=20'
DWG 3638 CASE 202

CONDUCTOR TABLE

AWG	CIRCUIT	RUNS 1	2	3	4	5	6	7	8	9
NO. 14	ø1				3	3	3			
	ø2	3	3	3	3	3	3			
	ø4			3	3	3	6	3		
	ø5	3	3	3	3	3	6	3	3	3
	ø6					3	6	3	3	3
	ø8		3	3	3	3	6	3	3	
	ø2P	2	2	2	2	2	2			
	ø4P			2	2	2	4	2		
	ø6P					2	4	2	2	2
	ø8P		2	2	2	2	4	2	2	
	PPB (ø2P)		1	1	1	1	1			
	PPB (ø4P)				1	1	1			
	PPB (ø6P)						1	1	1	
	PPB (ø8P)	1	1	1	1	1	2	1	1	1
	PPB COMMON	1	1	1	1	1	2	1	1	1
	SPARES	3	3	3	3	3	6	3	3	3
	PEU					3				
	IISNS	2	2	2	2	2		2	2	
	TOTAL No. 14	15	21	26	30	38	57	26	21	13
NO. 8	SIGNAL COMMON	1	1	1	1	1	2	1	1	1
	LUMINAIRE	2	2	2	2	2		2	2	2
	TOTAL No. 8	3	3	3	3	3	2	3	3	3
VIDEO DET.	VIDEO/POWER/COMM CABLE	1	1	2	2	3	4	1	1	
DLC										
	ø2				2	2	2			
	ø6						2	2	2	2
	TOTAL DLC				2	2	4	2	2	2
OPTICOM CABLE	CHANNEL A	1	1	1	1	1	1			
	CHANNEL B			1	1	1	1			
	CHANNEL C					1	1			
	CHANNEL D						1	1	1	
	TOTAL CABLES	1	1	2	2	3	4	1	1	
CONDUIT SIZE (INCHES)		3	4	3	4	4	2–4"	4	4	3
PERCENT CONDUIT FILL		10%	7%	15%	11%	13%	9%	9%	8%	9%

NOTES:

ALL CONDUCTORS AND CONDUITS ARE NEW.

EQUIPMENT SCHEDULE

No.	STANDARD TYPE	STANDARD SIG. M.A.	STANDARD LUM. M.A.	VEHICLE SIGNAL MOUNTING MAST ARM	VEHICLE SIGNAL MOUNTING POLE	PED SIGNAL ø	PED SIGNAL MTG	PPB ø	PPB ARROW	HPS LUMINAIRE	SPECIAL REQUIREMENTS
A	26–4–100	40'	15'	MAS MAS	SV–1–T	2	SP–1–T	8	LEFT	200W	INSTALL IISNS "PARROTT ST", R73–2 AND OPTICOM CHANNEL "A" ON SMA.
B	1–B	–	–	–	TV–1–T	8	SP–1–T	2	RIGHT	–	
C	19–4–100	20'	15'	MAS	SV–1–T	4	SP–1–T	2	LEFT	200W	INSTALL IISNS "SAN LEANDRO BLVD", R10–12 AND OPTICOM CHANNEL "B" ON SMA.
D	15–TS	–	–	–	SV–2–TB	2	SP–1–T	4	RIGHT	200W	
E	26–4–100	40'	15'	MAS MAS	SV–1–T	6	SP–1–T	4	LEFT	200W	INSTALL IISNS "PARROTT ST", R73–2 AND OPTICOM CHANNEL "C" ON SMA. INSTALL ALDIS VIDEO DETECTION CAMERA ON POLE.
F	1–B	–	–	–	TV–1–T	4	SP–1–T	6	RIGHT	–	
G	17–3–100	15'	15'	MAS	SV–1–T	8	SP–1–T	6	LEFT	200W	INSTALL IISNS "SAN LEANDRO BLVD", R10–12 AND OPTICOM CHANNEL "D" ON SMA.
H	15–TS	–	–	–	SV–2–TB	6	SP–1–T	8	RIGHT	200W	

NOTES (THIS SHEET ONLY):

1. FOR THE MAST ARMS, ADJUST THE MOUNTING HEIGHT OF THE SIGNAL HEAD ON THE MAST ARM AS NECESSARY TO AVOID PHYSICAL CONFLICT WITH THE IISNS.
2. OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS. FOR TYPE OF STANDARD, VEHICLE AND PEDESTRIAN SIGNAL MOUNTING, SEE STANDARD PLANS.
3. STREET NAME SIGN SHALL BE CONSTRUCTED PER CITY OF SAN LEANDRO STANDARDS.

E-8

REGISTERED PROFESSIONAL ENGINEER CARLTS D. KRUGER No. 15347 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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CITY OF SAN LEANDRO INCORPORATED 1872

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CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE
SAN LEANDRO BLVD AT PARROTT STREET
CONDUCTOR, EQUIPMENT AND POLE SCHEDULES

AT FULL SIZE THIS LINE MEASURES 1"
SHEET 38 OF 80
JOB NO. 150–38–331
SCALE NONE
DWG 3639 CASE 202

LEGEND

- A-1 — HOMERUN CONDUIT AND CONDUCTORS TO PANEL 'A' CIRCUIT 1; SLASH MARKS INDICATE NUMBER OF CONDUCTORS, 2 #12 AWG + 1 #12 GND, UON
- CONDUIT UNDERGROUND
- CONDUIT CONTINUED
- CONDUIT STUBBED AND CAPPED FOR FUTURE USE
- SERVICE METER PEDESTAL
- IRRIGATION CONTROLLER
- PULL BOX, CALTRANS NO.5
- PULL BOX, CALTRANS NO.6
- RECEPTACLE
- FUSE/FUSE HOLDER
- CIRCUIT BREAKER
- GROUND TO EARTH
- SWITCH
- CONTACTS, NORMALLY OPEN, NORMALLY CLOSED
- SELECTOR SWITCH
- 30/4 C2 — CONTACTOR #2, 30AMP 4-POLE
- TC — TIME CONTROL
- LIGHT POLE
- 1 / E1 — DETAIL TAG e.g., 1 IS THE DETAIL NUMBER E1 IS THE SHEET NUMBER
- F1 — LIGHT FIXTURE TAG, FIXTURE TYPE F1
- 2 — SEE SHEET NOTE #2
- 1 — FEEDER TAG #1

ABBREVIATIONS

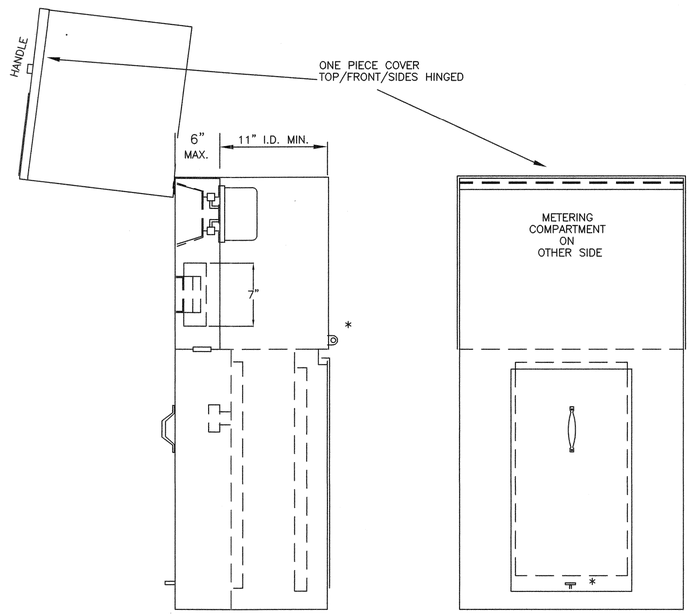
A	AMPERE
AFG	ABOVE FINISHED GRADE
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CO	CONDUIT ONLY
CL	CENTERLINE
CKT	CIRCUIT
(E)	EXISTING TO REMAIN
FLA	FULL LOAD AMPERES
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
LED	LIGHT EMITTING DIOD
LTG	LIGHTING
MTD	MOUNTED
(N)	NEW
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
(R)	EXISTING TO BE REMOVED
(RL)	RELOCATED EXISTING
RSC	RIGID STEEL CONDUIT
OA	OVERALL
PB	PULLBOX
PC	PHOTOCONTROL
PCC	PORTLAND CEMENT CONCRETE
POC	POINT OF CONNECTION
PL	PEDESTRIAN LIGHT
SL	STREET LIGHT
SLD	SEE LANDSCAPE DRAWINGS
STL	STEEL
TC	TIMECLOCK
TBD	TO BE DETERMINED
TS	TIMESWITCH
UON	UNLESS OTHERWISE NOTED
V	VOLT
WP	WATT
WP	WEATHERPROOF

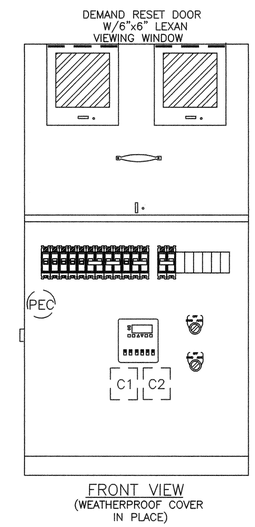
ENCLOSURES CONSTRUCTION NOTES

1. EXTERIOR, 1/8" ALUMINUM, AND INTERIOR 14 GA COLD ROLLED STEEL ELECTRICALLY WELDED AND REINFORCED WHERE REQUIRED.
2. CONSTRUCTION WILL BE NEMA 3R, RAINTIGHT.
3. ALL NUTS, BOLTS AND SCREWS WILL BE STAINLESS STEEL.
4. NUTS, BOLTS & SCREWS WILL NOT BE VISIBLE FROM OUTSIDE OF ENCLOSURE.
5. NAMEPLATES WILL BE PROVIDED AS REQUIRED.
6. CONTROL WIRING WILL BE MARKED AT BOTH ENDS BY PERMANENT WIRE MARKERS.
7. A PLASTIC COVERED WIRING DIAGRAM WILL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
8. ENCLOSURE WILL BE FACTORY WIRED AND CONFORM TO REQUIRED NEMA AND UL 508A STANDARDS.
9. ANODIZE AFTER FABRICATION

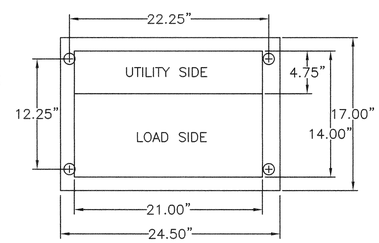
LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER'S CATALOG NO.	MOUNTING	VOLT.	LAMPS	REMARKS
F1	DECORATIVE TEARDROP LED FIXTURES, PRISMATIC GLOBES, ASYMMETRIC OPTICS, DYNADIM LED CONTROLS, FLUTED TAPERED STEEL 25'H POLE WITH BANNER ARMS, WP RECEPTACLE, DECORATIVE BASE, BLACK FINISH	FIXTURES: LUMEC LIGHTING RENAISSANCE SERIES # RN20-135W80LED4K-LE3R-DD-240 AND # RN20-65W49LED4K-LE3R-DD-240 POLE: VISCO #V1-B9/21-L2-F/25' ARM BRACKETS: HADCO #MO401 & #MO402 OR ILLUMINATION AND MATERIAL EQUALS BY HADCO OR STERNBERG	POLE	240	1-135W LED 4000K 1-65W LED 4000K	DET.1 & 2/SHEET SL1.2
F2	METAL HALIDE SPOT LIGHT, DIRECT BURIAL, 25° ADJUSTMENT, CLEAR FLAT LENS, BLACK FINISH	ALLSCAPE LIGHTING # SL-23-HPBB-70MH-T6-240-SPT-F-BK-DS OR HYDREL EQUAL	IN-GROUND	240	70W MH T-6	MEDIAN LIGHT TO LIGHT PALM TREES



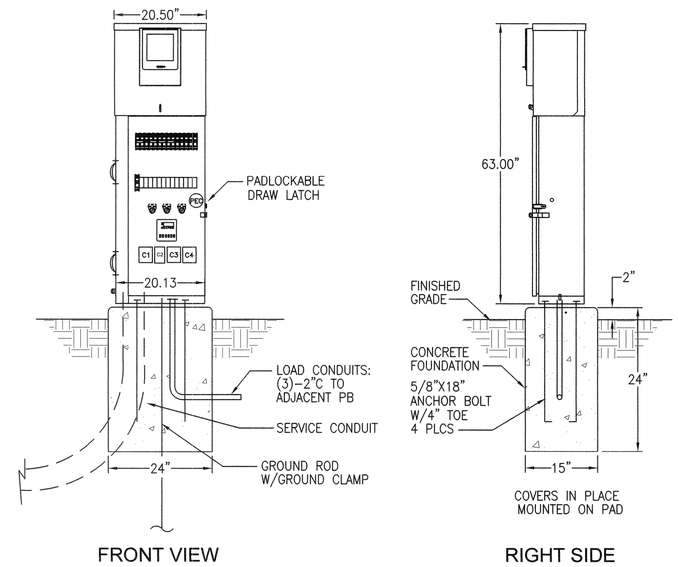


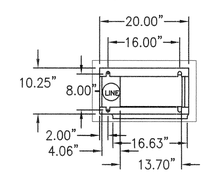
100-200 AMP COMMERCIAL METERING
0-600V SINGLE OR THREE PHASE



SEE ALSO CITY STANDARD PLAN 500C
TESCO SERVICE PEDESTAL MODEL 28-102 (TYPE IIICF)

2 SERVICE METER PEDESTAL #1 DETAIL
SCALE: NONE





SEE ALSO CITY STANDARD PLAN 500C
TESCO SERVICE PEDESTAL MODEL 27-100 SERIES (TYPE IIIAF)

1 SERVICE METER PEDESTAL #2 DETAIL
SCALE: NONE

SL1.1

REGISTERED PROFESSIONAL ENGINEER — Ronald D. Zeiger — NO. E7218 — EXP. 9/30/12 — Electrical — STATE OF CALIFORNIA
8/29/12
DATE SIGNED

ZEIGER ENGINEERS, INC.
ELECTRICAL CONSULTANTS
478 3RD STREET
OAKLAND, CA 94607
TEL (510) 452-9391
FAX (510) 452-0661

CITY OF SAN LEANDRO — INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION
1	5/11/12	PERMIT REVIEW

CITY OF SAN LEANDRO

DESIGNED BY	RZ	DATE
DRAWN BY	AG	DATE
PROJECT MGR.	MG	DATE 8/31/12
TRANS ADMIN.	RLC	DATE 8/31/12
SENIOR ENGR.		DATE 8/31/12
APPROVED BY:		DATE 9/4/12

CITY ENGINEER, R.C.E. No. 34870

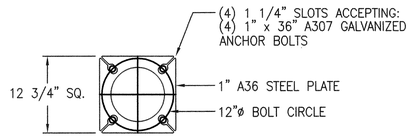
BART-DOWNTOWN PEDESTRIAN INTERFACE

ELECTRICAL LEGEND AND DETAILS

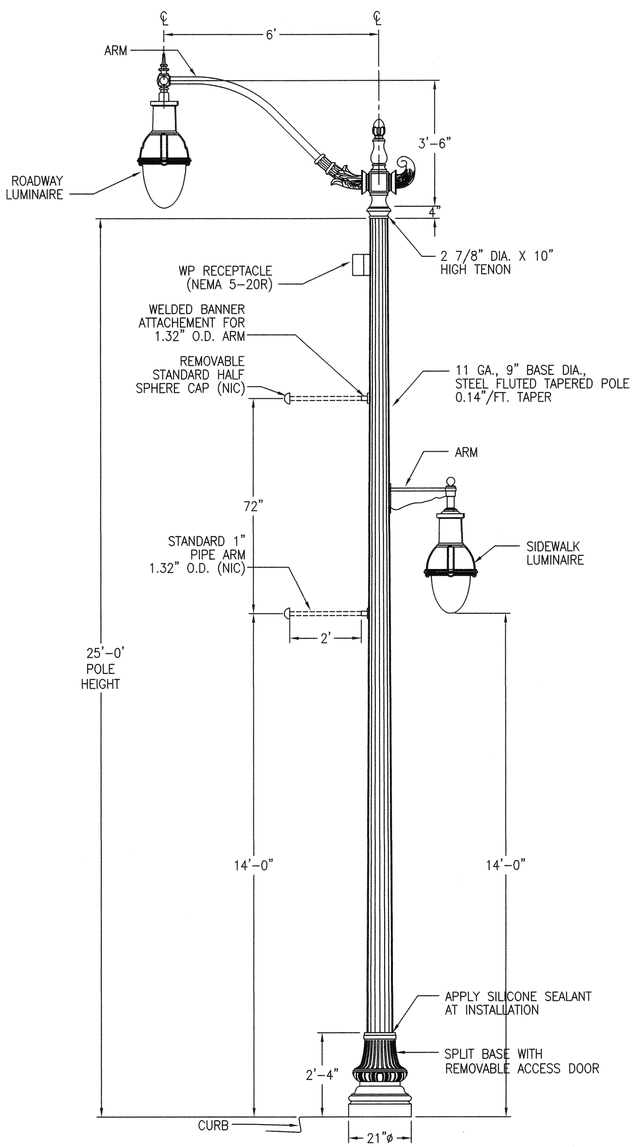
AT FULL SIZE THIS LINE MEASURES 1"

SHEET 39 OF 80
JOB NO. 150-38-331
SCALE AS SHOWN
DWG 3635 CASE 202

3593 8/16/12

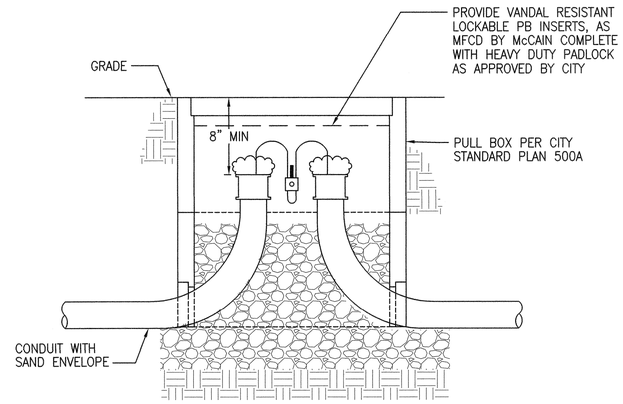


BASE PLATE DETAIL

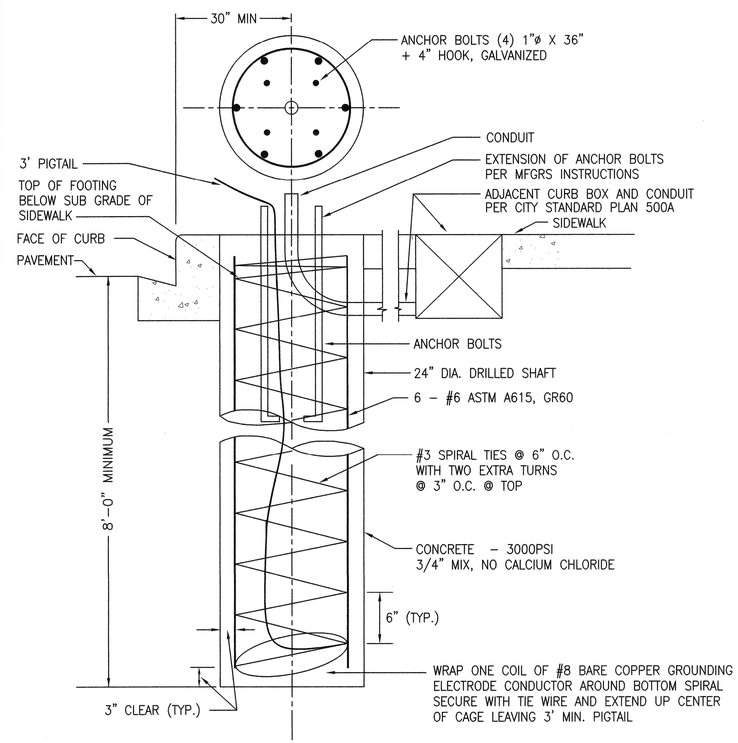


SIDE VIEW

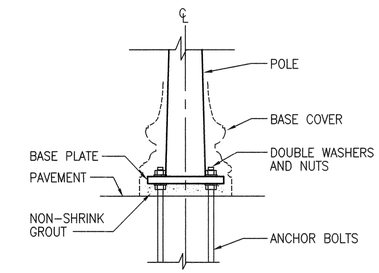
1 LIGHT POLE ASSEMBLY DETAIL
SCALE: NONE



2 PULL BOX DETAIL
SCALE: NONE

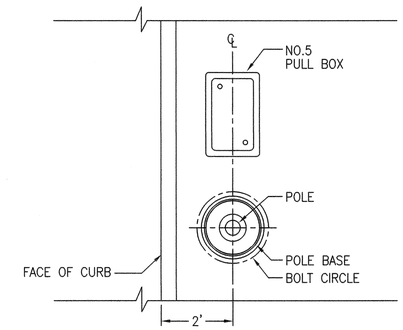


3 LIGHT POLE FOUNDATION DETAIL
SCALE: NONE



SIDE VIEW

4 POLE BASE DETAIL
SCALE: NONE



5 POLE FOUNDATION DETAIL
SCALE: NONE

REGISTERED PROFESSIONAL ENGINEER
Ronald D. Zeiger
NO. E7218
EXP. 9/30/12
Electrical
STATE OF CALIFORNIA
8/29/12
DATE SIGNED

ZEIGER ENGINEERS, INC.
ELECTRICAL CONSULTANTS
478 3RD STREET
OAKLAND, CA 94607
TEL (510) 452-9391
FAX (510) 452-0661

CITY OF SAN LEANDRO
INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

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NO.	DATE	REVISION
1	5/11/12	PERMIT REVIEW

DESIGNED BY	RZ	DATE
DRAWN BY	AG	DATE
PROJECT MGR.	MG	DATE 8/31/12
TRANS ADMIN.	RLC	DATE 8/31/12
SENIOR ENGR.		DATE 8/31/12
APPROVED BY		DATE 9/4/12

CITY ENGINEER, R.C.E. No. 34870

CITY OF SAN LEANDRO

BART-DOWNTOWN PEDESTRIAN INTERFACE

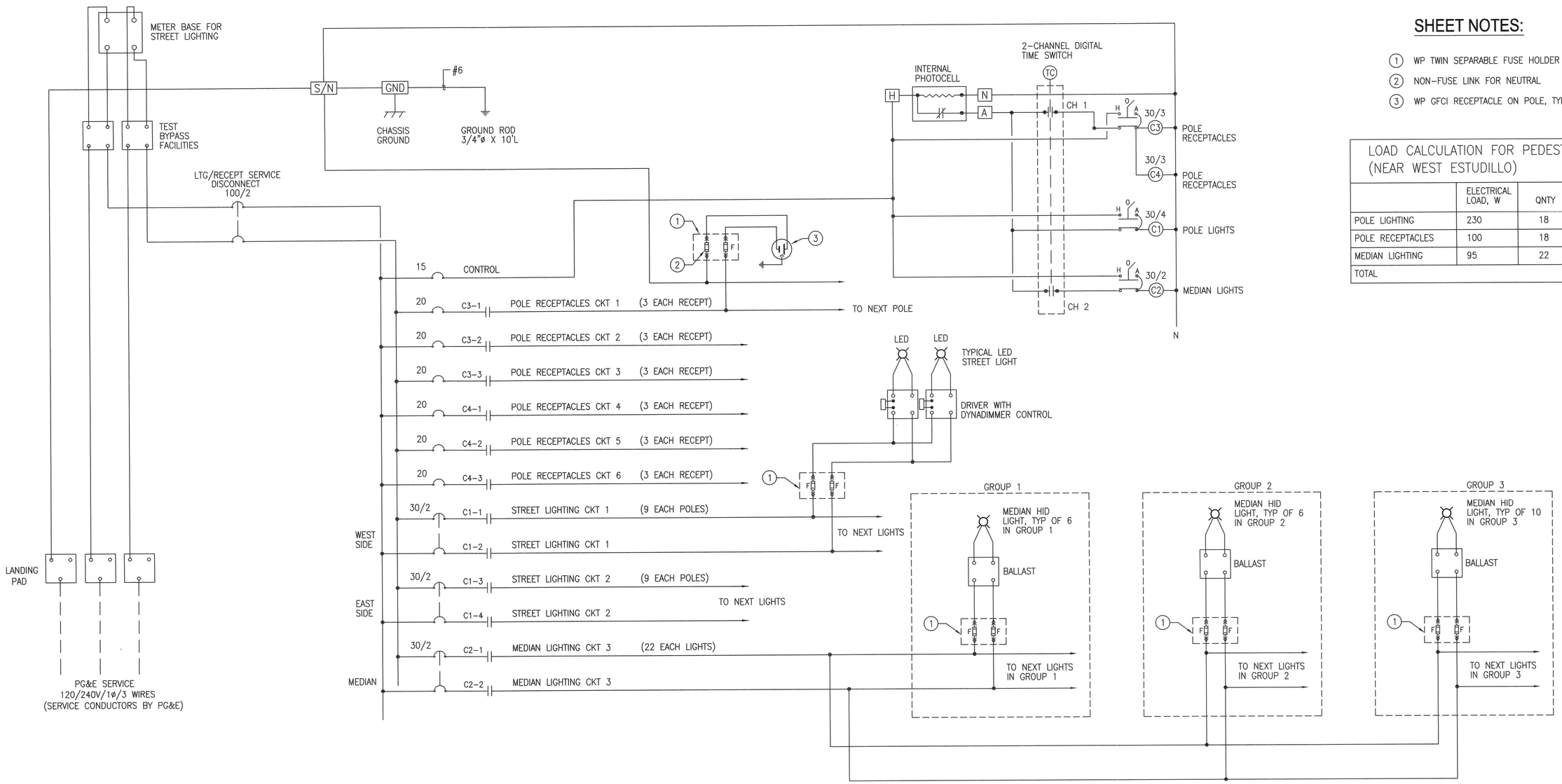
ELECTRICAL DETAILS

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 40 OF 80
JOB NO. 150-38-331
SCALE AS SHOWN
DWG 3636 CASE 202

SL1.2

3593 8/16/12



SHEET NOTES:

1. WP TWIN SEPARABLE FUSE HOLDER WITH FUSES
2. NON-FUSE LINK FOR NEUTRAL
3. WP GFCI RECEPTACLE ON POLE, TYP

LOAD CALCULATION FOR PEDESTAL #2 (NEAR WEST ESTUDILLO)

	ELECTRICAL LOAD, W	QNTY	SUBTOTAL LOAD, W
POLE LIGHTING	230	18	4140
POLE RECEPTACLES	100	18	1800
MEDIAN LIGHTING	95	22	2090
TOTAL			8030

1 FULL-LINE DIAGRAM FOR SERVICE METER PEDESTAL #2 (NEAR WEST ESTUDILLO)
SCALE: NONE

SL1.3

REGISTERED PROFESSIONAL ENGINEER Ronald D. Zeiger NO. E7218 EXP. 9/30/12 Electrical STATE OF CALIFORNIA
8/29/12
DATE SIGNED

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ELECTRICAL CONSULTANTS
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CITY OF SAN LEANDRO INCORPORATED 1872

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CITY OF SAN LEANDRO

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PROJECT MGR. MG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. DATE 8/31/12
APPROVED BY DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870

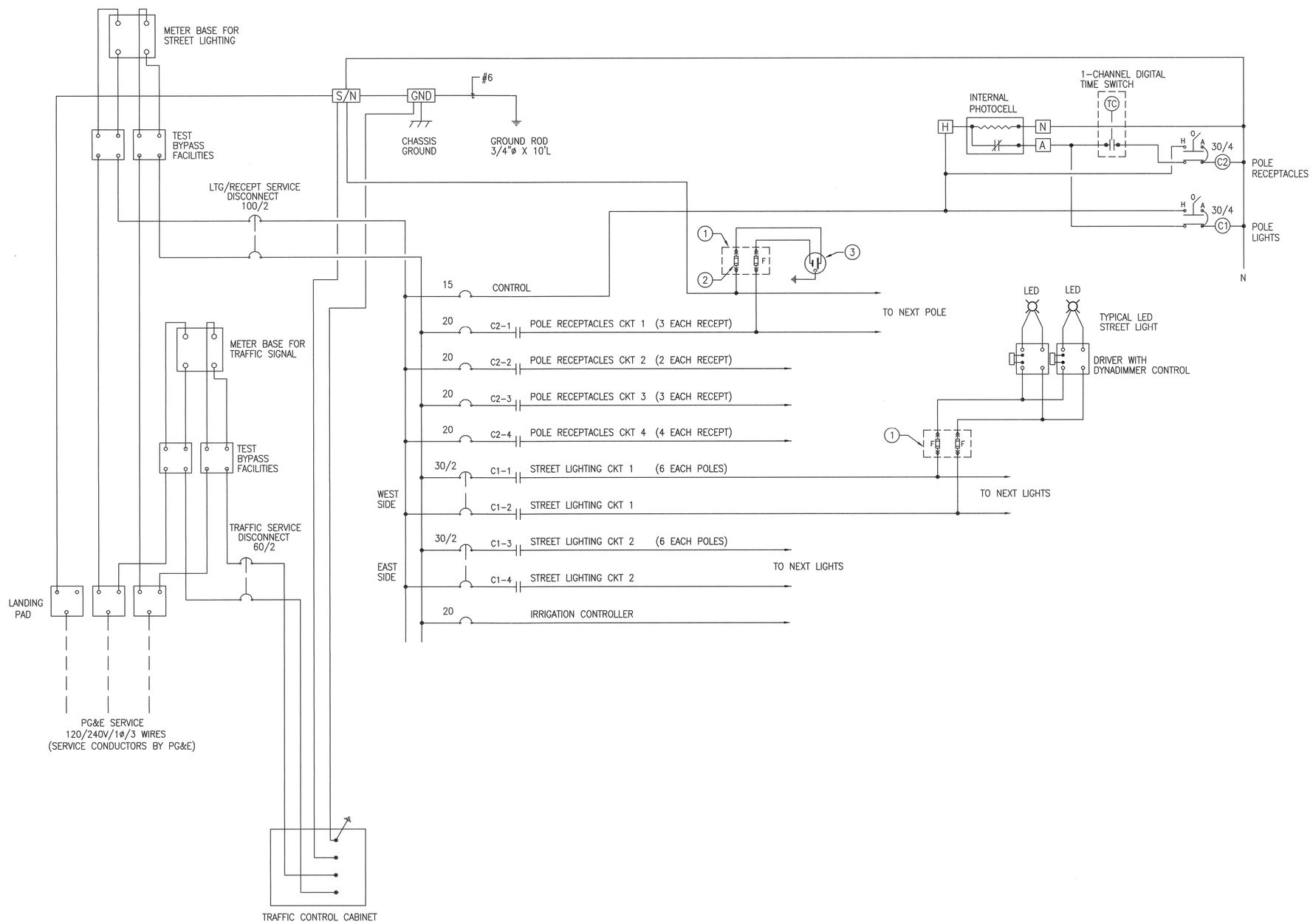
BART-DOWNTOWN PEDESTRIAN INTERFACE

FULL-LINE DIAGRAM FOR SERVICE METER PEDESTAL #2

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 41 OF 80
JOB NO. 150-38-331
SCALE AS SHOWN
DWG 3637 CASE 202

3593 8/16/12



SHEET NOTES:

1. WP TWIN SEPARABLE FUSE HOLDER WITH FUSES
2. NON-FUSE LINK FOR NEUTRAL
3. WP GFCI RECEPTACLE ON POLE, TYP

LOAD CALCULATION FOR PEDESTAL #1 (AT PARROTT STREET)

	ELECTRICAL LOAD, W	QNTY	SUBTOTAL LOAD, W
POLE LIGHTING	230	12	2760
POLE RECEPTACLES	100	12	1200
IRRIGATION CONTROLLER	200	1	200
TRAFFIC SIGNAL	10800	1	10800
TOTAL			14960

1 FULL-LINE DIAGRAM FOR SERVICE METER PEDESTAL #1 (AT PARROTT STREET)
SCALE: NONE

SL1.4

REGISTERED PROFESSIONAL ENGINEER Ronald D. Zeiger NO. E7218 EXP. 9/30/12 Electrical STATE OF CALIFORNIA
8/20/12
DATE SIGNED

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CITY OF SAN LEANDRO INCORPORATED 1872

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1	5/11/12	PERMIT REVIEW

CITY OF SAN LEANDRO

DESIGNED BY RZ DATE
DRAWN BY AG DATE
PROJECT MGR. MG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. DATE 8/31/12
APPROVED BY: DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870

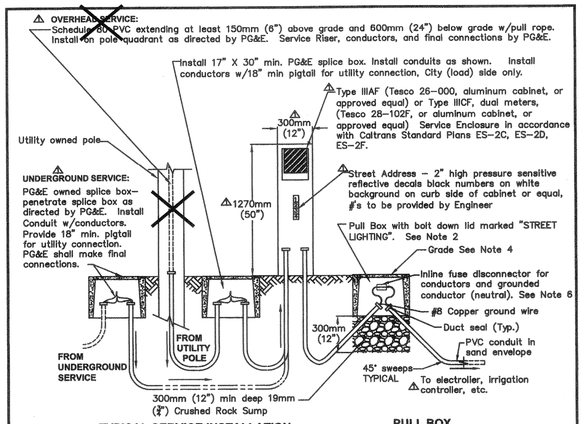
BART-DOWNTOWN PEDESTRIAN INTERFACE

FULL-LINE DIAGRAM FOR SERVICE METER PEDESTAL #1

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 42 OF 80
JOB NO. 150-38-331
SCALE AS SHOWN
DWG 3638 CASE 202

3593 8/16/12



TYPICAL SERVICE INSTALLATION

(See Note 7)

NOTES:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. Pull boxes shall be Christy No. 3 1/2 min., reinforced concrete with bolt down lid or approved equal. Pull box covers shall be marked "STREET LIGHTING". No. 5 or No. 6 size boxes shall be used as required by NEC box capacity or otherwise noted.
3. For pull boxes in parking areas, traffic rated galvanized steel checked plate cover w/bonding jumper shall be used. Boxes subject to vehicular traffic shall be H20 rated minimum with 300mm x 300mm (12" x 12") min. concrete collar all around similar to Dwg. 222 Case 3101.
4. Top of pull box shall be flush with surrounding grade or top of adjacent curb, except that in non-paved areas where pull box is not immediately adjacent to and protected by a concrete foundation, pole or other protective construction, the box shall be placed with its top 25mm (1") above surrounding grade. Where practicable, pull boxes shown in the vicinity of curbs shall be placed adjacent to the back of curb, and pull boxes shown adjacent to standards shall be placed on side of foundation down stream of traffic, unless otherwise noted.
5. Pull box required at service points, at each street light, 61m (200') OC max. and as required by the City Engineer.
6. Inline fuse disconnects shall be installed at all pull boxes at each electrolier.
7. Contractor shall verify all PG&E requirements and insure that service installation is installed in accordance therewith.

ACAD FILE NO. C310105000ABCD Rev1.DWG.

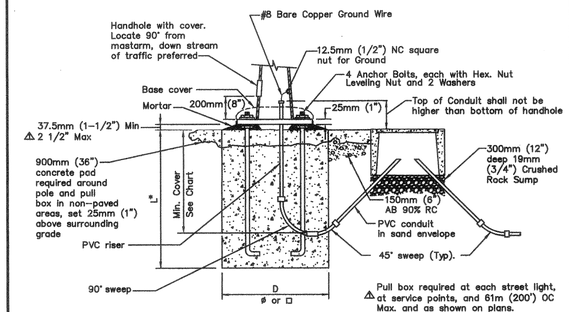
CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY
	Add "Overhead Service", "Underground Service"	1/28/07	AMS
	Add Street Address Decals to cabinet	1/28/07	AMS
	Add Slimline Pedestal Meter & Note	1/28/07	AMS
	Rev Note #5, #6, & conduit configuration	1/28/07	AMS

STREET LIGHT ELECTRIC SERVICE W/PED METER

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/09

DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 3 OF 4 DWG. NO. 500C CASE. 3101



FOOTING

FOOTING DIMENSIONS		
	SINGLE ARM	DUPLEX ARM
D	600mm (24")	750mm (30")
L	1.45m* (4'-9")	1.625m (5'-4")

*Except 10.67m (35')
Pole L=1.625m (5'-4")

	MINIMUM CONDUIT COVER		
	SIDEWALK	STREET	
		All Non-Arterial Streets, Parking Lots, Pathways, Etc.	Arterial
PVC	600mm (24")	900mm (36")	1070mm (42")
Galv Rigid Metal	450mm (18")	900mm (36")	1070mm (42")

NOTES:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. Anchor bolts=25mm(1") x 900mm(36") x 100mm(4"), 4 each.
3. All steel parts shall be Hot Dip Galvanized after fabrication.
4. Base cover required.
5. Pole shall be 3.04mm (.1198", 11 ga.) wall thickness Type 15, 21, 22 Caltrans equivalent.
6. Conduit size: 32mm (1-1/4") min. unless otherwise noted or required by NEC.
7. Conductor size: In streetlight pole & arm use #10 THWN. Conductor size: In conduit use #8 THWN.
8. Notes Dwg. 500C Case 3101 shall apply.
9. Concrete shall be 213-C-17 (470-C-2500, 5 sack, one inch maximum aggregate, 2500 psi).

ACAD FILE NO. C310105000ABCD Rev1.DWG.

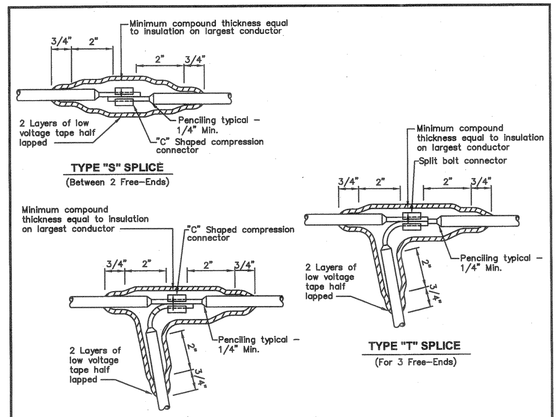
CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY
	Added 2 1/2 max	11/17/07	AMS
	Modified Pull box note	11/17/07	AMS
	Added note #9	11/17/07	AMS

STREET LIGHT INSTALLATION

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/09

DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 1 OF 4 DWG. NO. 500A CASE. 3101



NOTES:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. All dimensions are nominal and minimum.
3. Pressure sleeve type connector may be used for Type "S" and "C" splice. Split bolt connector required for Type "T" splice.
4. Use 2 layers of electrical insulating pad of minimum thickness of 1/8" each or 2 layers, half lapped, synthetic, oil resistant, self fusing rubber tape. Rubber tapes shall be rolled after application.
5. Apply 10 mil. PVC tape to a thickness equal to original insulation.
6. Final wrap with low voltage Type 33 electrical tape. Paint finished splice with electrical insulating coating. (Gardner Bender Liquid Electrical Tape or equal).

ACAD FILE NO. C310105000 Rev2.DWG.

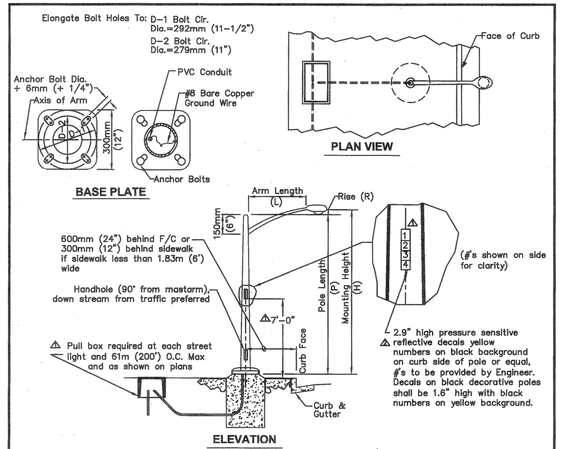
CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY
	CHANGED all TO all	2/17/12	NT
	Rev note 6	2/17/12	KJ
	REMOVED ALL METRIC DIMS		

STREET LIGHT SPLICE DETAILS

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/13

DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 4 OF 4 DWG. NO. 500D CASE. 3101



Handhole reinforcement ring to be 6mm (1/4") x 37.5mm (1 1/2") min.

Luminaire shall be 120v or 240v, IES settings II, III, IV, or V and wattage as shown on plans, clear lamp, semi cut-off, medium distribution, regulator multi-volt ballast, Type IV photocell

Pole length (P) ft.-in.	Arm length (L) ft.	Rise (R) ft.-in.	Mounting height (H) ft.-in.	SHAFT SIZE Top in.	SHAFT SIZE Bottom in.	Bolt Circle in.
7.62m (25'-0")	1.83m (6')	457mm (1'-6")	8.08m (26'-6")	98.9mm (3 7/8")	185.7mm (7 5/16")	292mm (11 1/2")
	2.44m (8')	686mm (2'-3")	8.31m (27'-3")			
	3.05m (10')	762mm (2'-6")	8.40m (27'-6")			
8.70m (28'-6")	1.83m (6')	457mm (1'-6")	9.15m (30'-0")	98.9mm (3 7/8")	196.85mm (7 3/4")	292mm (11 1/2")
	2.44m (8')	686mm (2'-3")	9.38m (30'-9")			
	3.05m (10')	762mm (2'-6")	9.45m (31'-0")			
	3.66m (12')	1143mm (3'-9")	9.83m (32'-3")			
9.15m (30'-0")	2.44m (8')	686mm (2'-3")	9.83m (32'-3")	98.9mm (3 7/8")	203.2mm (8")	292mm (11 1/2")
	3.05m (10')	762mm (2'-6")	9.91m (32'-6")			
	3.66m (12')	1143mm (3'-9")	10.29m (33'-9")			
10.67m (35'-0")	2.44m (8')	686mm (2'-3")	11.36m (37'-3")	98.9mm (3 7/8")	220.66mm (8 11/16")	300mm (12")
	3.05m (10')	762mm (2'-6")	11.43m (37'-6")			
	3.66m (12')	1143mm (3'-9")	11.81m (38'-9")			
	4.57m (15')	1448mm (4'-9")	12.12m (39'-9")			

ACAD FILE NO. C310105000 Rev2.DWG.

CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY
	Corrected decal information	8/5/12	SL

STREET LIGHT POLE AND FITTINGS

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/13

DRAWN GF/MLWH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 2 OF 4 DWG. NO. 500B CASE. 3101

SL1.5

REGISTERED PROFESSIONAL ENGINEER Ronald D. Zeiger NO. E7218 EXP. 9/30/12 Electrical STATE OF CALIFORNIA

8/29/12
DATE SIGNED

ZEIGER ENGINEERS, INC.
ELECTRICAL CONSULTANTS
478 3RD STREET
OAKLAND, CA 94607
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CITY OF SAN LEANDRO INCORPORATED 1872

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NO.	DATE	REVISION
1	5/11/12	PERMIT REVIEW

CITY OF SAN LEANDRO

DESIGNED BY RZ DATE
DRAWN BY AG DATE
PROJECT MGR. MG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. DATE 8/31/12
APPROVED BY: DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE

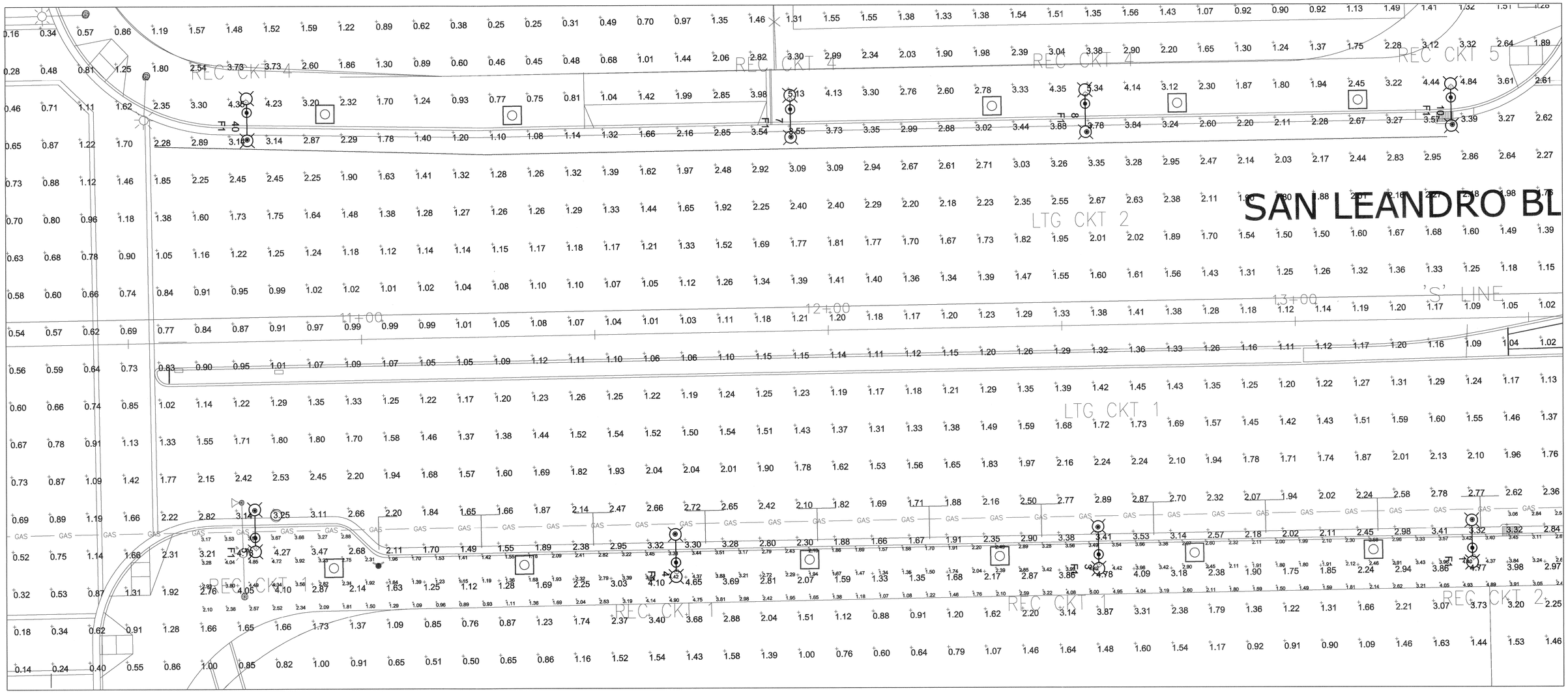
CITY OF SAN LEANDRO STANDARD PLANS

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 43 OF 80
JOB NO. 150-38-331
SCALE AS SHOWN
DWG 3639 CASE 202

3593 8/16/12

ILLUMINATION CONTRIBUTION
FROM INTERSECTION SAFETY
LIGHTS IS NOT INDICATED



Luminaire Schedule					
Project: SAN LEANDRO BLVD - BART					
Symbol	Qty	Label	Arrangement	LLF	Description
◉ ⊕	30	F1	GROUP	0.765	LUMEC RN20-135W80LED4K-ES-GL-LE3R @ 26.5' LC + RN20-65W49LED4K-LE3R @ 15' LC - 25' POLE

Calculation Summary								
Project: SAN LEANDRO BLVD - BART								
Description	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	# Pts
TYPICAL SIDEWALK SECTION	Illuminance	Fc	2.64	5.00	0.89	2.97	5.62	195
TYPICAL ROADWAY SECTION BETWEEN DAVIS ST. & WEST ESTUDILLO AVE	Illuminance	Fc	1.57	3.35	0.77	2.04	4.35	498

THIS IS A SAMPLE OF THE EXPECTED ILLUMINATION PERFORMANCE
REFER TO SPECIFICATION REQUREMENTS

1 PHOTOMETRIC STUDY
SCALE: 1"=10'-0"

SL1.6

REGISTERED PROFESSIONAL ENGINEER
Ronald D. Zeiger
NO. E7218
EXP. 9/30/12
Electrical
STATE OF CALIFORNIA
9/21/12
DATE SIGNED

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DRAWN BY AG DATE
PROJECT MGR. MG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. DATE 8/31/12
APPROVED BY: DATE 9/6/12
CITY ENGINEER, R.C.E. No. 34870

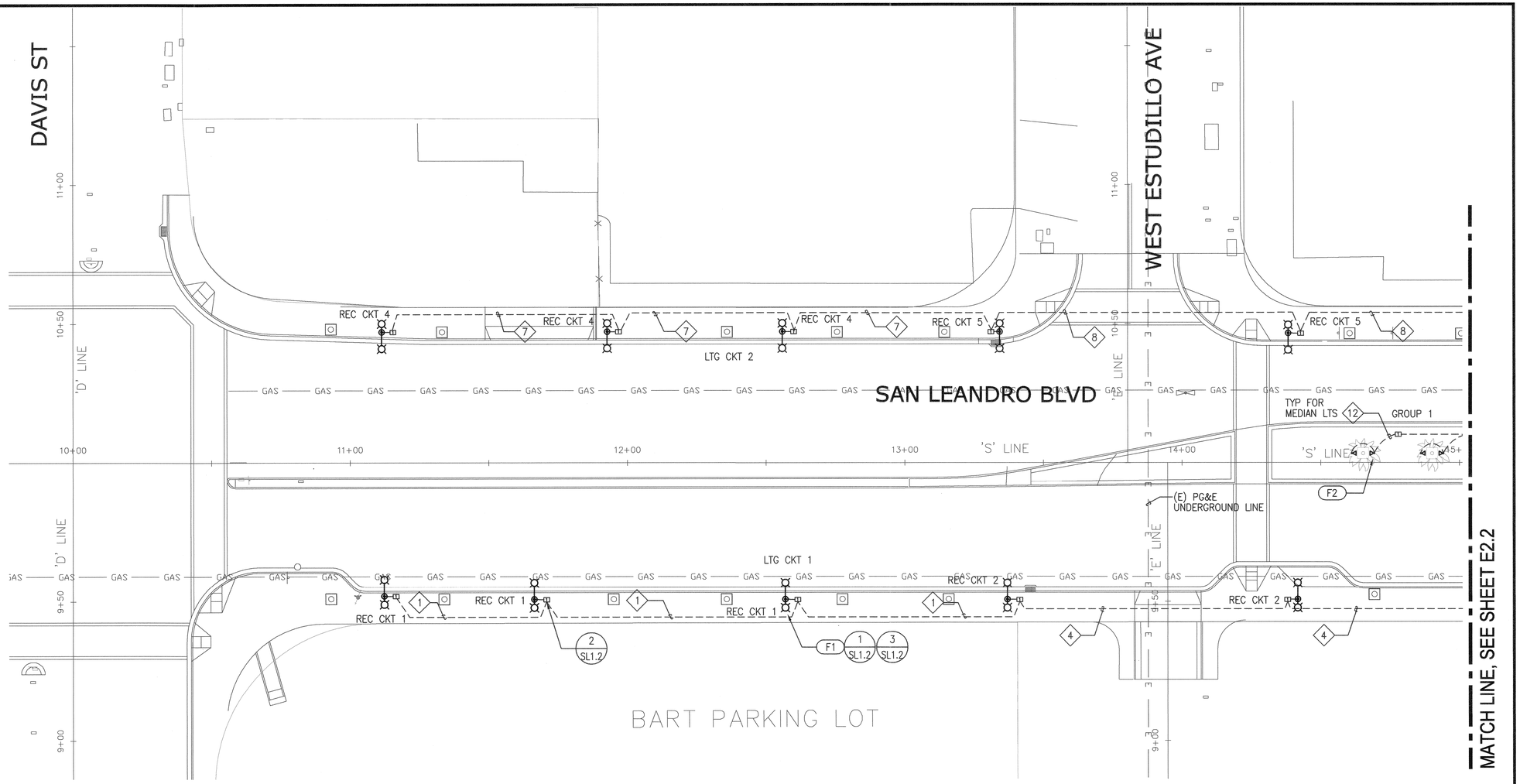
CITY OF SAN LEANDRO
BART-DOWNTOWN PEDESTRIAN INTERFACE
PHOTOMETRIC STUDY
STATION 10+50 TO 21+00

AT FULL SIZE THIS LINE MEASURES 1"
SHEET 44 OF 80
JOB NO. 150-38-331
SCALE AS SHOWN
DWG 3640 CASE 202

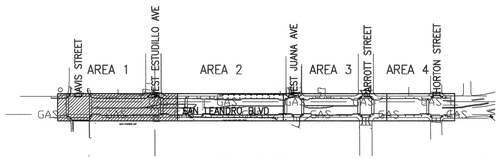
3593 8/16/12

FEEDER SCHEDULE

TAG	CONDUIT	WIRE	GROUND
		PEDESTAL #2 (NEAR WEST ESTUDILLO AVE)	
1	2"	2 #6 (STREET LIGHTING CIRCUIT 1) 2 #8 (RECEPTACLE CIRCUIT 1)	#6 GND
2	2"	2 #6 (STREET LIGHTING CIRCUIT 1) 2 #8 (RECEPTACLE CIRCUIT 3)	#6 GND
3	2"	2 #6 (STREET LIGHTING CIRCUIT 1) 3 #8 (RECEPTACLE CIRCUITS 2 & 3)	#6 GND
4	2"	2 #6 (STREET LIGHTING CIRCUIT 1) 3 #8 (RECEPTACLE CIRCUITS 1 & 2)	#6 GND
5	2"	2 #6 (STREET LIGHTING CIRCUIT 2) 4 #8 (RECEPTACLE CIRCUITS 4, 5 & 6) 2 #8 (MEDIAN LIGHTING CIRCUIT 3)	#6 GND
6	2"	2 #8 (MEDIAN LIGHTING CIRCUIT 3)	#8 GND
7	2"	2 #6 (STREET LIGHTING CIRCUIT 2) 2 #8 (RECEPTACLE CIRCUIT 4)	#6 GND
8	2"	2 #6 (STREET LIGHTING CIRCUIT 2) 3 #8 (RECEPTACLE CIRCUITS 4 & 5)	#6 GND
9	2"	2 #6 (STREET LIGHTING CIRCUIT 2) 3 #8 (RECEPTACLE CIRCUITS 5 & 6)	#6 GND
10	2"	2 #6 (STREET LIGHTING CIRCUIT 2) 2 #8 (RECEPTACLE CIRCUIT 6)	#6 GND
11	2"	2 #6 (STREET LIGHTING CIRCUIT 1) 4 #8 (RECEPTACLE CIRCUITS 1, 2 & 3)	#6 GND
	2"	2 #6 (STREET LIGHTING CIRCUIT 2) 4 #8 (RECEPTACLE CIRCUITS 4, 5 & 6) 2 #8 (MEDIAN LIGHTING CIRCUIT 3)	#6 GND
	2"CO	–	–
12	3/4"	2 #12 (MEDIAN LIGHTS)	#12 GND
		PEDESTAL # 1 (AT PARROT STREET)	
13	2"	2 #6 (STREET LIGHTING CIRCUIT 1) 2 #8 (RECEPTACLE CIRCUIT 1)	#6 GND
14	2"	2 #6 (STREET LIGHTING CIRCUIT 1) 2 #8 (RECEPTACLE CIRCUIT 2) 2 #8 (IRRIGATION CONTROLLER)	#6 GND
15	2"	2 #6 (STREET LIGHTING CIRCUIT 2) 2 #8 (RECEPTACLE CIRCUIT 3)	#6 GND
16	2"	2 #6 (STREET LIGHTING CIRCUIT 2) 2 #8 (RECEPTACLE CIRCUIT 4)	#6 GND
17	2"	2 #6 (STREET LIGHTING CIRCUIT 1) 3 #8 (RECEPTACLE CIRCUITS 1 & 2) 2 #6 (TRAFFIC SIGNAL CONTROLLER)	#6 GND
	2"	2 #6 (STREET LIGHTING CIRCUIT 2) 3 #8 (RECEPTACLE CIRCUITS 3 & 4) 2 #8 (IRRIGATION CONTROLLER)	#6 GND
	2"CO	–	–
18	2"	2 #8 (IRRIGATION CONTROLLER)	#8 GND
19	2"	4 #6 (STREET LIGHTING CIRCUITS 1 & 2) 5 #8 (RECEPTACLE CIRCUITS 1, 2 & 4) 2 #6 (TRAFFIC SIGNAL CONTROLLER)	#6 GND
20	2"	4 #6 (STREET LIGHTING CIRCUITS 1 & 2) 4 #8 (RECEPTACLE CIRCUIT 1 & 3)	#6 GND
21	2"	3 #3/0	–
22	2"	2 #6 (TRAFFIC SIGNAL CONTROLLER)	#8 GND



1 ELECTRICAL SITE PLAN: AREA 1
SCALE: 1"=20'-0"



KEY MAP

GENERAL NOTES:

REFER TO CIVIL DRAWINGS FOR SAN LEANDRO STANDARD TRENCH DETAILS 120A, 120B AND 122A–D, AND HORIZONTAL CONTROL FOR POLE LOCATIONS

SL2.1

REGISTERED PROFESSIONAL ENGINEER Ronald D. Zeiger NO. E7218 EXP. 9/30/12 Electrical STATE OF CALIFORNIA
8/29/12
DATE SIGNED

ZEIGER ENGINEERS, INC.
ELECTRICAL CONSULTANTS
478 3RD STREET
OAKLAND, CA 94607
TEL (510) 452-9391
FAX (510) 452-0661

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION
1	5/11/12	PERMIT REVIEW

DESIGNED BY RZ DATE
DRAWN BY AG DATE
PROJECT MGR. MG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/21/12
SENIOR ENGR. DATE 8/31/12
APPROVED BY DATE 9/05/12
CITY ENGINEER, R.C.E. No. 34870

CITY OF SAN LEANDRO

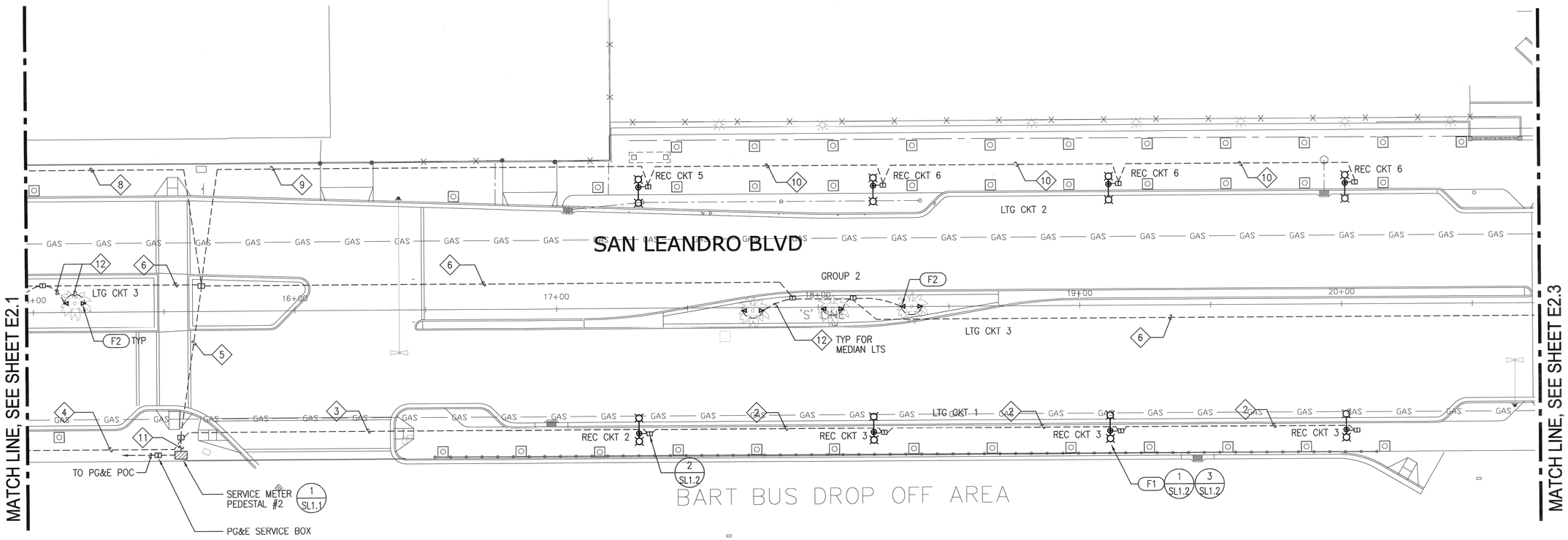
BART-DOWNTOWN PEDESTRIAN INTERFACE

ELECTRICAL SITE PLAN: AREA 1
STATION 10+50 TO 15+00

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 45 OF 80
JOB NO. 150-38-331
SCALE 1" = 20'
DWG 3641 CASE 202

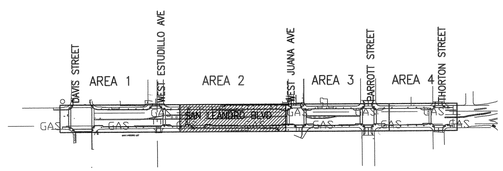
3593 8/16/12



1 ELECTRICAL SITE PLAN: AREA 2

SCALE: 1"=20'-0"

REFER TO SHEET E2.1 FOR FEEDER SCHEDULE



KEY MAP

SL2.2

REGISTERED PROFESSIONAL ENGINEER
Ronald D. Zeiger
NO. E7218
EXP. 8/30/12
Electrical
STATE OF CALIFORNIA
8/29/12
DATE SIGNED

ZEIGER ENGINEERS, INC.
ELECTRICAL CONSULTANTS
478 3RD STREET
OAKLAND, CA 94607
TEL (510) 452-9391
FAX (510) 452-0661

CITY OF SAN LEANDRO
INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

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NO.	DATE	REVISION
1	5/11/12	PERMIT REVIEW

CITY OF SAN LEANDRO

DESIGNED BY RZ DATE
DRAWN BY AG DATE
PROJECT MGR. MG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. DATE 8/31/12
APPROVED BY DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870

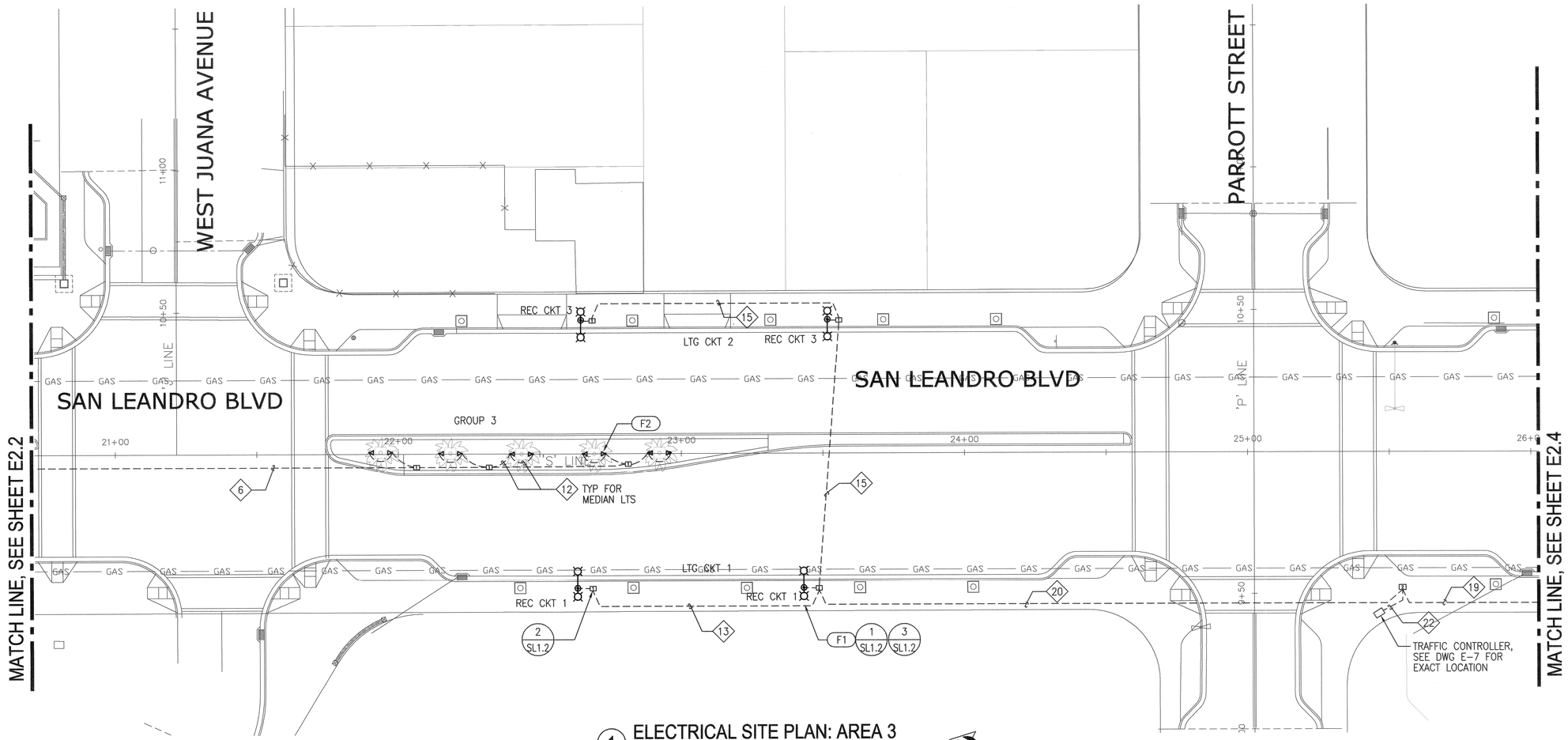
BART-DOWNTOWN PEDESTRIAN INTERFACE

ELECTRICAL SITE PLAN: AREA 2
STATION 15+00 TO 20+50

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 46 OF 80
JOB NO. 150-38-331
SCALE 1" = 20'
DWG 3642 CASE 202

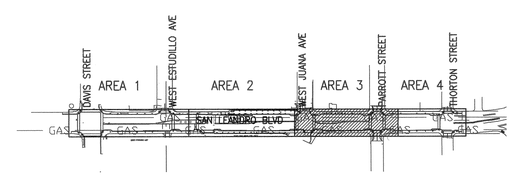
3593 8/16/12



1 ELECTRICAL SITE PLAN: AREA 3

SCALE: 1"=20'-0"

REFER TO SHEET E2.1 FOR FEEDER SCHEDULE



KEY MAP

SL2.3

REGISTERED PROFESSIONAL ENGINEER
Ronald D. Zeiger
NO. E7218
EXP. 9/30/12
Electrical
STATE OF CALIFORNIA
8/29/12
DATE SIGNED

ZEIGER ENGINEERS, INC.
ELECTRICAL CONSULTANTS
478 3RD STREET
OAKLAND, CA 94607
TEL (510) 452-9391
FAX (510) 452-0661

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

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NO.	DATE	REVISION
1	5/11/12	PERMIT REVIEW

CITY OF SAN LEANDRO

DESIGNED BY	RZ	DATE
DRAWN BY	AG	DATE
PROJECT MGR.	MG	DATE 8/30/12
TRANS ADMIN.	RLC	DATE 8/31/12
SENIOR ENGR.		DATE 8/31/12
APPROVED BY		DATE 9/4/12

CITY ENGINEER, R.C.E. No. 34870

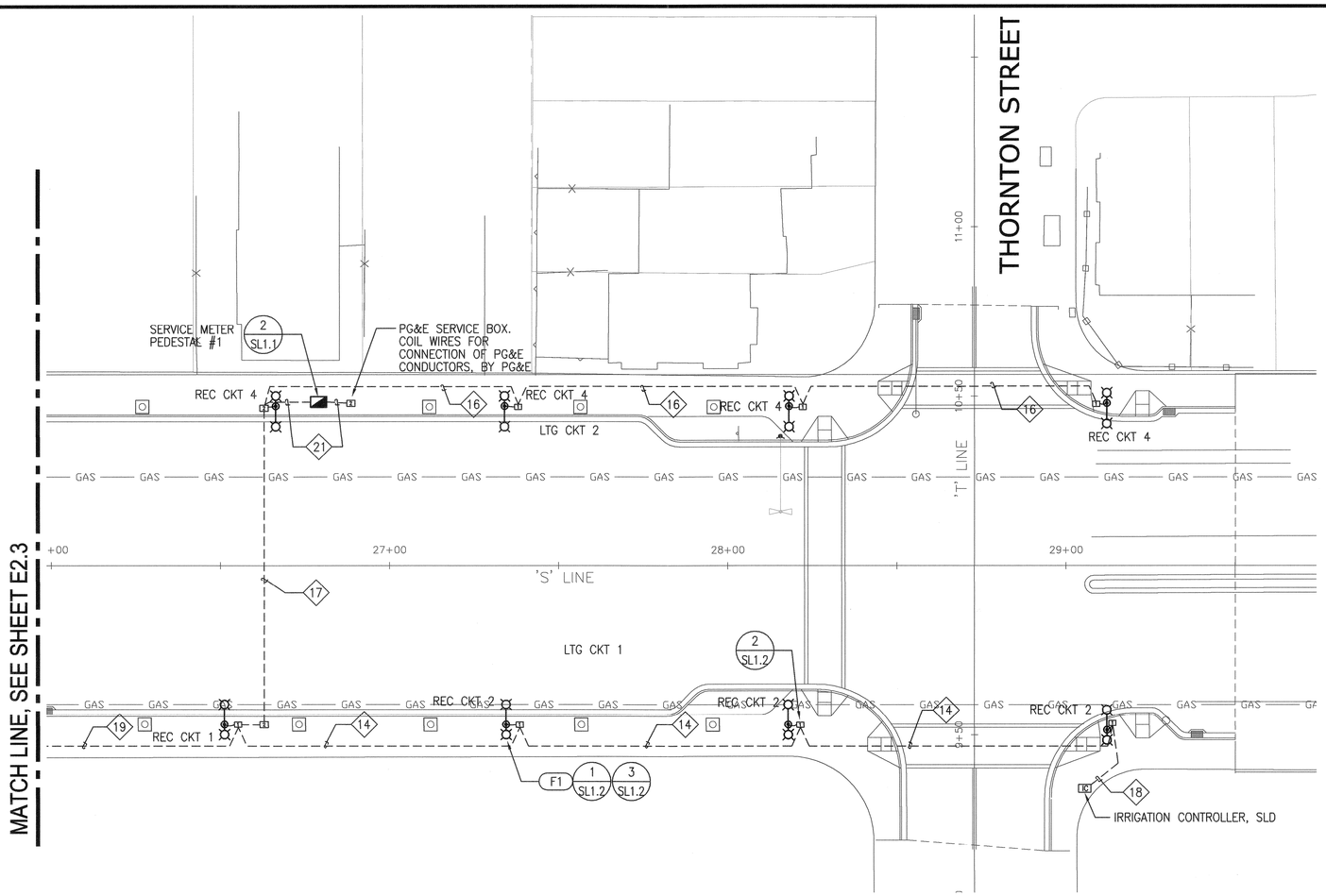
BART-DOWNTOWN PEDESTRIAN INTERFACE

ELECTRICAL SITE PLAN: AREA 3
STATION 20+50 TO 26+00

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 47 OF 80
JOB NO. 150-38-331
SCALE 1" = 20'
DWG 3643 CASE 202

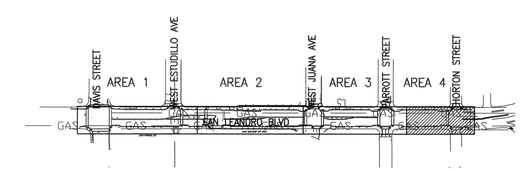
3593 8/16/12



1 ELECTRICAL SITE PLAN: AREA 4

SCALE: 1"=20'-0"

REFER TO SHEET E2.1 FOR FEEDER SCHEDULE



KEY MAP

SL2.4

REGISTERED PROFESSIONAL ENGINEER Ronald D. Zeiger NO. E7218 EXP. 9/30/12 Electrical STATE OF CALIFORNIA

8/29/12
DATE SIGNED

ZEIGER ENGINEERS, INC.
ELECTRICAL CONSULTANTS
478 3RD STREET
OAKLAND, CA 94607
TEL (510) 452-9391
FAX (510) 452-0661

CITY OF SAN LEANDRO INCORPORATED 1872

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NO.	DATE	REVISION
1	5/11/12	PERMIT REVIEW

DESIGNED BY	RZ	DATE
DRAWN BY	AG	DATE
PROJECT MGR.	MG	DATE 8/31/12
TRANS ADMIN.	RLC	DATE 8/31/12
SENIOR ENGR.		DATE 8/31/12
APPROVED BY:		DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870		

CITY OF SAN LEANDRO

BART-DOWNTOWN PEDESTRIAN INTERFACE

ELECTRICAL SITE PLAN: AREA 4
STATION 26+00 TO 29+50

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 48 OF 80
JOB NO. 150-38-331
SCALE 1" = 20'
DWG 3644 CASE 202

3593 8/16/12

LAYOUT LEGEND

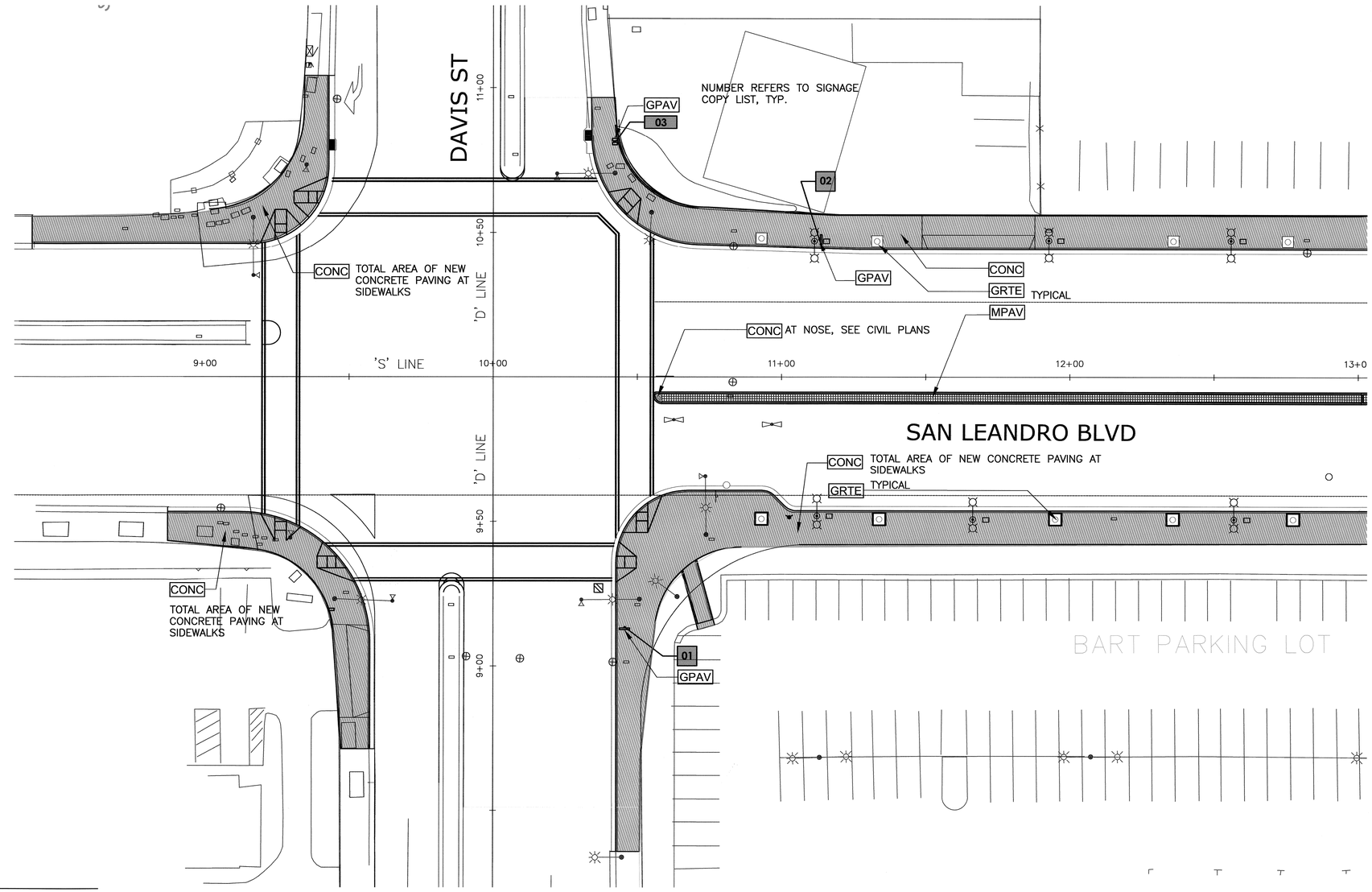
KEY	SYMBOL	DESCRIPTION	DETAIL(S)
CONC		COLORED CONCRETE PAVING SEE SHEET LD5 FOR SCORING	A LD1
MPAV		CONCRETE PAVERS AT MEDIANS	E LD1
GPAV	NOT SHOWN	SPLIT-GRANITE SETS 3" X 3" FIELD CENTERED AT BASE OF WAYFINDING SIGNAGE POLES	C LD1
DURA		DURATHERM THERMOPLASTIC CROSSWALK PATTERN	D LD1
TRLS		WEST JOAQUIN AVENUE GATEWAY TRELLIS	A LD2 / B LD2
CLMN		COLUMNS AT WEST JUANA AVENUE	A LD3
SEAT		SEATWALL WITH COLUMNS	B LD3 / D LD4
FENC		METAL FENCE	A LD4
GRTE		TREE GRATE	B LD4
PALM		PALM TREE 4X4 PLANTING AREA W/HEADER	A PL6 / C LD4
		FOR UPLIGHTING AT PALM TREES IN MEDIAN SEE ELECTRICAL PLANS	

KEY *wayfinding / identification*

	VEHICULAR DIRECTIONAL	DR.03 WSL.03
	PEDESTRIAN DIRECTIONAL	DR.06 WSL.03

FOR WAYFINDING SIGNAGE COPY LIST SEE SHEET WSL.1,
FOR DETAILS SEE SHEETS WSL.2 AND WSL.3

LEGEND SYMBOLS ARE FOR REFERENCE ONLY AND DO NOT REPRESENT EXACT SHAPE OR DIMENSION OF EXISTING OR NEW CONDITION.



KEY

	LIGHTING, REFER TO ELECTRICAL PLANS	FOC	FACE OF CURB
		PA	PLANTING AREA
	ALIGN	TYP.	TYPICAL
BOC	BACK OF CURB	℄	CENTER LINE
EQ.	EQUAL		UPLIGHTS AT PALMS

LAYOUT NOTES

CONTRACTOR SHALL VERIFY ALL GRADES, EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO COMMENCING WORK. ALL DISCREPANCIES OR QUESTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR RESOLUTION.

ALL WRITTEN DIMENSIONS SUPERSEDE ALL SCALED DISTANCES AND DIMENSIONS. ALL DIMENSIONS ARE TO THE FRONT OF CURB AND CENTERLINE UNLESS OTHERWISE NOTED ON DRAWINGS.

IN GENERAL, ALL ANGLES SHOWN ON THE LANDSCAPE LAYOUT PLANS ARE 45 DEGREES, 90 DEGREES OR 135 DEGREES UNLESS OTHERWISE NOTED. AND ALL CURVES AND TRANSITIONS BETWEEN CURVES AND STRAIGHT EDGES SHALL BE SMOOTH. SEE CIVIL SHEETS FOR LAYOUT OF RAMPS, CURB AND GUTTERS, ROADWAY TRANSITIONS AND BULBOUTS.

SEE IRRIGATION PLANS FOR LOCATION OF IRRIGATION PIPING. SLEEVES SHALL ACCOMMODATE IRRIGATION PIPING, SIZED AS NEEDED, AND SHALL BE IN PLACE UNDER AND THROUGH SLABS AND WALLS PRIOR TO POURING.

SCORELINES AND JOINTING PER SHEET LD-5.

REFER TO STRUCTURAL SHEETS FOR STRUCTURAL DETAILS OF ORNAMENTAL CONCRETE FEATURES.

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
Signature
10/31/12
Renewal Date
STATE OF CALIFORNIA

GOLDEN associates
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING
4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
f. 510 465 5325
CA lic. #2431

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY	LG,LB	DATE 1/31/12
DRAWN BY	LB	DATE 1/31/12
PROJECT MGR.	MJG	DATE 8/31/12
TRANS ADMIN.	RLC	DATE 8/31/12
SENIOR ENGR.		DATE 8/31/12
APPROVED BY:		DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870		

BART-DOWNTOWN PEDESTRIAN INTERFACE

LANDSCAPE LAYOUT PLAN, LEGEND & NOTES
STATION 8+50 TO 13+00

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 49 OF 80
JOB NO. 150-38-331
SCALE 1" = 20'
DWG 3650 CASE 202

LL1

LAYOUT LEGEND

KEY	SYMBOL	DESCRIPTION	DETAIL(S)
CONC		COLORED CONCRETE PAVING SEE SHEET LD5 FOR SCORING	A / LD1
MPAV		CONCRETE PAVERS AT MEDIANS	E / LD1
GPAV	NOT SHOWN	SPLIT–GRANITE SETS 3' X 3' FIELD CENTERED AT BASE OF WAYFINDING SIGNAGE POLES	C / LD1
DURA		DURATHERM THERMOPLASTIC CROSSWALK PATTERN	D / LD1
TRLS		WEST JOAQUIN AVENUE GATEWAY TRELLIS	A / LD2 B / LD2
CLMN		COLUMNS AT WEST JUANA AVENUE	A / LD3
SEAT		SEATWALL WITH COLUMNS	B / LD3 D / LD4
FENC		METAL FENCE	A / LD4
GRTE		TREE GRATE	B / LD4
PALM		PALM TREE 4X4 PLANTING AREA W/HEADER	A / PL6 C / LD4
	◁	FOR UPLIGHTING AT PALM TREES IN MEDIAN SEE ELECTRICAL PLANS	

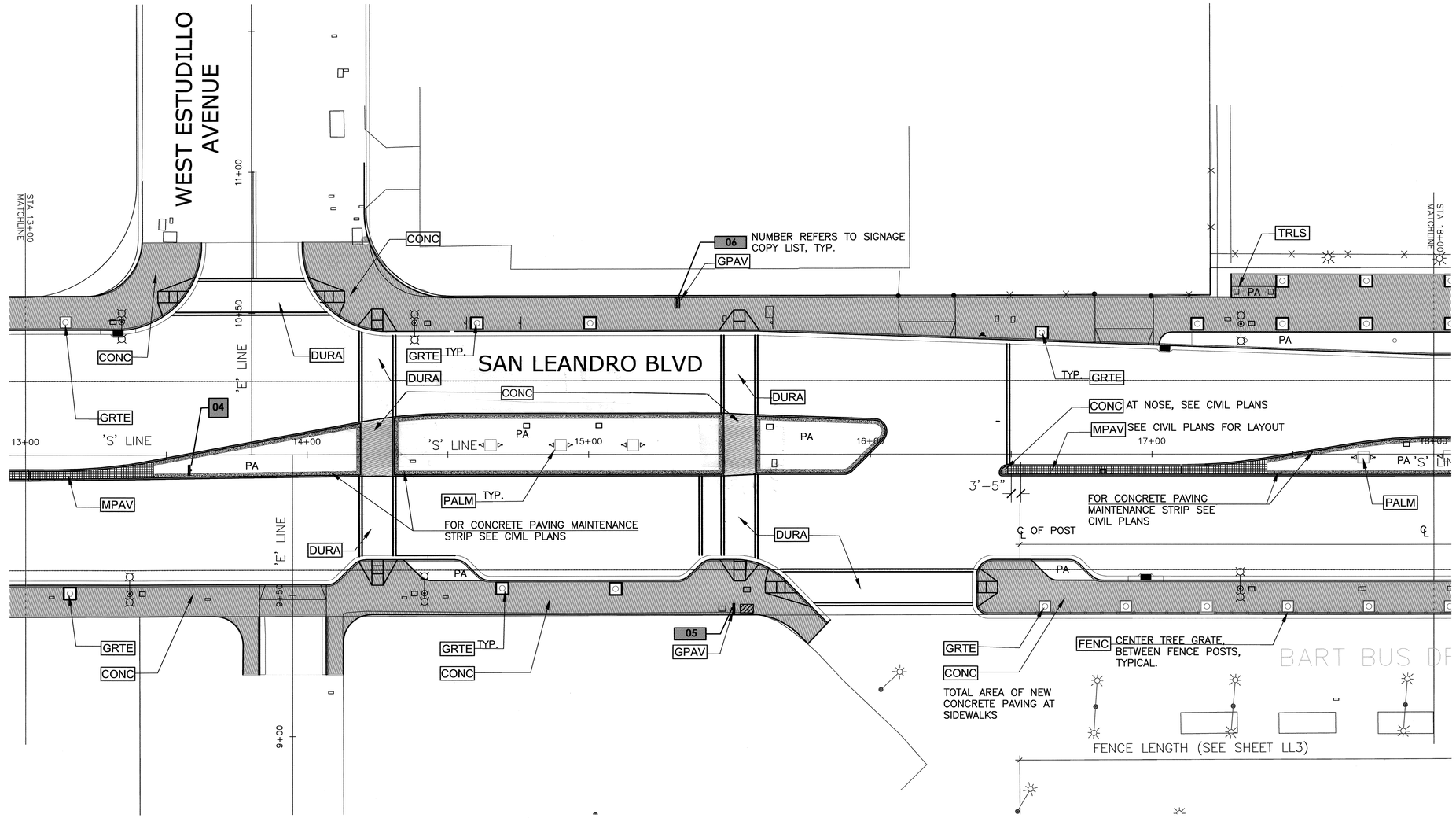
KEY *wayfinding / identification*

	VEHICULAR DIRECTIONAL	DR.03 / WSL.03
	PEDESTRIAN DIRECTIONAL	DR.06 / WSL.03

FOR WAYFINDING SIGNAGE COPY LIST SEE SHEET WSL.1,
FOR DETAILS SEE SHEETS WSL.2 AND WSL.3

LEGEND SYMBOLS ARE FOR REFERENCE ONLY AND DO NOT REPRESENT EXACT SHAPE OR DIMENSION OF EXISTING OR NEW CONDITION.

REFER TO SHEET LL1 FOR LAYOUT KEY



LL2

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
12/31/12
STATE OF CALIFORNIA

GOLDEN associates
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING
4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
f. 510 465 5325
CA lic. #2431

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY	LG.LB	DATE 1/31/12
DRAWN BY	LB	DATE 1/31/12
PROJECT MGR.	MJG	DATE 8/31/12
TRANS ADMIN.	KLC	DATE 8/31/12
SENIOR ENGR.		DATE 9/21/12
APPROVED BY:		DATE 9/24/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE

LANDSCAPE LAYOUT PLAN
STATION 13+00 TO 18+00

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 50 OF 80
JOB NO. 150–38–331
SCALE 1" = 20'
DWG 3651 CASE 202

LAYOUT LEGEND

KEY	SYMBOL	DESCRIPTION	DETAIL(S)
CONC		COLORED CONCRETE PAVING SEE SHEET LD5 FOR SCORING	A LD1
MPAV		CONCRETE PAVERS AT MEDIANS	E LD1
GPAV	NOT SHOWN	SPLIT–GRANITE SETS 3' X 3' FIELD CENTERED AT BASE OF WAYFINDING SIGNAGE POLES	C LD1
DURA		DURATHERM THERMOPLASTIC CROSSWALK PATTERN	D LD1
TRLS		WEST JOAQUIN AVENUE GATEWAY TRELLIS	A LD2 / B LD2
CLMN		COLUMNS AT WEST JUANA AVENUE	A LD3
SEAT		SEATWALL WITH COLUMNS	B LD3 / D LD4
FENC		METAL FENCE	A LD4
GRTE		TREE GRATE	B LD4
PALM		PALM TREE 4X4 PLANTING AREA W/HEADER	A PL6 / C LD4
		FOR UPLIGHTING AT PALM TREES IN MEDIAN SEE ELECTRICAL PLANS	

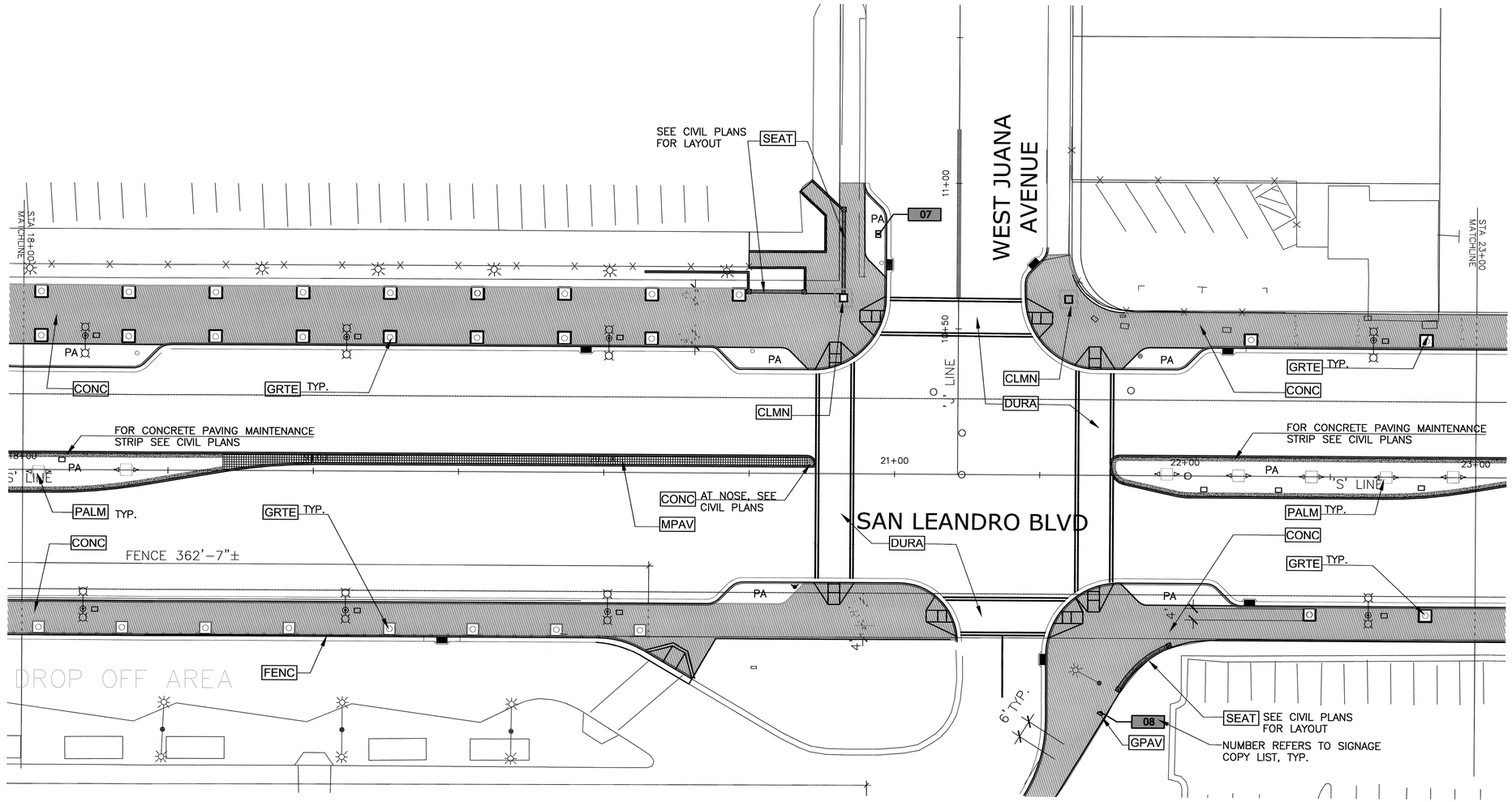
KEY *wayfinding / identification*

	VEHICULAR DIRECTIONAL	DR.03 WSL.03
	PEDESTRIAN DIRECTIONAL	DR.06 WSL.03

FOR WAYFINDING SIGNAGE COPY LIST SEE SHEET WSL.1,
FOR DETAILS SEE SHEETS WSL.2 AND WSL.3

LEGEND SYMBOLS ARE FOR REFERENCE ONLY AND DO NOT REPRESENT EXACT SHAPE OR DIMENSION OF EXISTING OR NEW CONDITION.

REFER TO SHEET LL1 FOR LAYOUT KEY



LL3

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
Signature
12/11/12
Date
STATE OF CALIFORNIA

GOLDEN associates
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING
4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
f. 510 465 5325
CA lic. #2431

CITY OF SAN LEANDRO
INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

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NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY	I.G.I.B	DATE 1/31/12
DRAWN BY	LB	DATE 1/31/12
PROJECT MGR.	M.JG	DATE 8/31/12
TRANS ADMIN.	RLC	DATE 8/31/12
SENIOR ENGR.		DATE 8/31/12
APPROVED BY:		DATE 9/4/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE

LANDSCAPE LAYOUT PLAN
STATION 18+00 TO 23+00

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 51 OF 80
JOB NO. 150-38-331
SCALE 1" = 20'
DWG 3652 CASE 202

LAYOUT LEGEND

KEY	SYMBOL	DESCRIPTION	DETAIL(S)
CONC		COLORED CONCRETE PAVING SEE SHEET LD5 FOR SCORING	A / LD1
MPAV		CONCRETE PAVERS AT MEDIANS	E / LD1
GPAV	NOT SHOWN	SPLIT–GRANITE SETS 3' X 3' FIELD CENTERED AT BASE OF WAYFINDING SIGNAGE POLES	C / LD1
DURA		DURATHERM THERMOPLASTIC CROSSWALK PATTERN	D / LD1
TRLS		WEST JOAQUIN AVENUE GATEWAY TRELLIS	A / LD2 ; B / LD2
CLMN		COLUMNS AT WEST JUANA AVENUE	A / LD3
SEAT		SEATWALL WITH COLUMNS	B / LD3 ; D / LD4
FENC		METAL FENCE	A / LD4
GRTE		TREE GRATE	B / LD4
PALM		PALM TREE 4X4 PLANTING AREA W/HEADER	A / PL6 ; C / LD4
		FOR UPLIGHTING AT PALM TREES IN MEDIAN SEE ELECTRICAL PLANS	

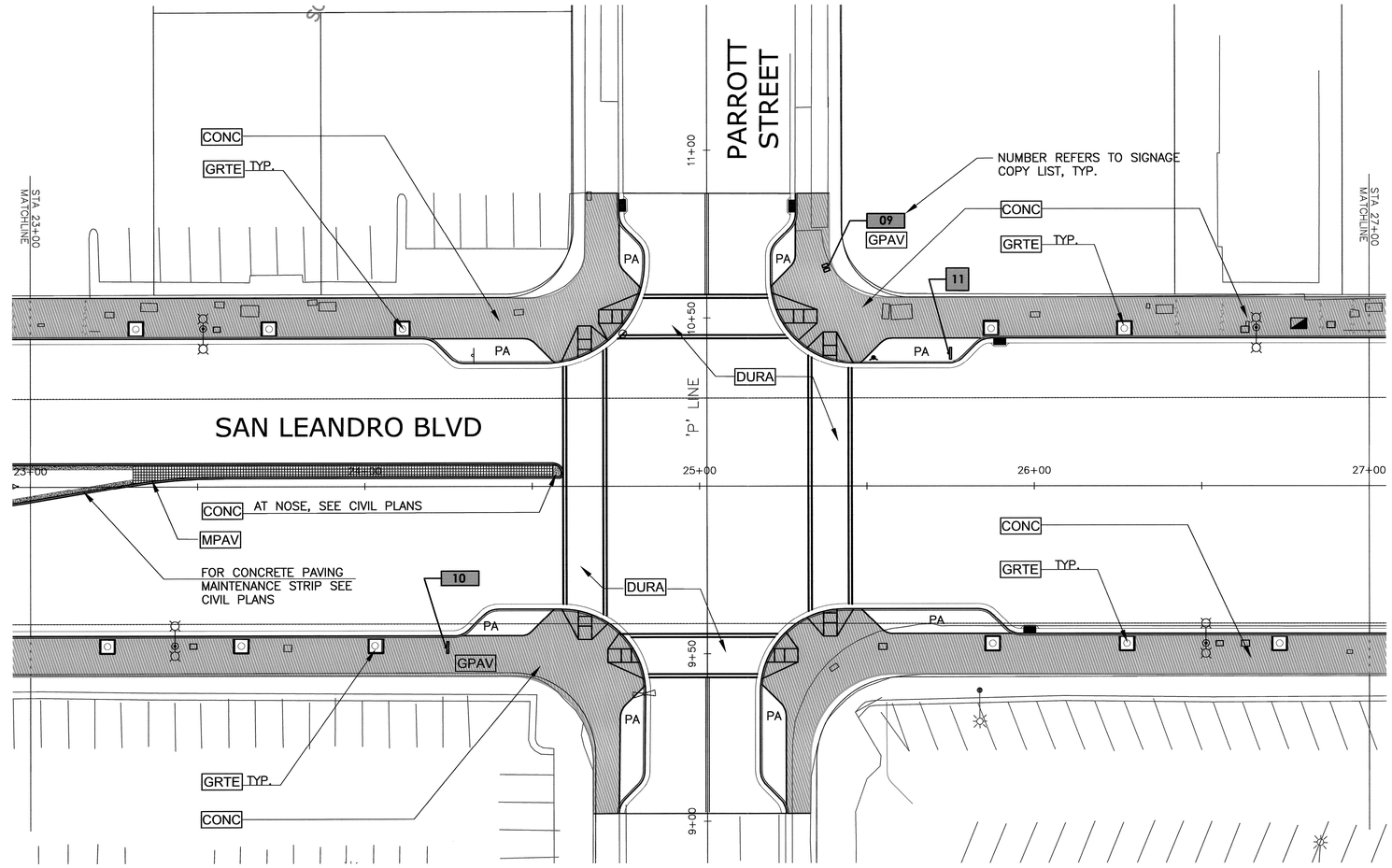
KEY *wayfinding / identification*

	VEHICULAR DIRECTIONAL	DR.03 / WSL.03
	PEDESTRIAN DIRECTIONAL	DR.06 / WSL.03

FOR WAYFINDING SIGNAGE COPY LIST SEE SHEET WSL.1,
FOR DETAILS SEE SHEETS WSL.2 AND WSL.3

LEGEND SYMBOLS ARE FOR REFERENCE ONLY AND DO NOT REPRESENT EXACT SHAPE OR DIMENSION OF EXISTING OR NEW CONDITION.

REFER TO SHEET LL1 FOR LAYOUT KEY



LL4

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
Registered Landscape Architect
12/31/12
Expiration Date
8/30/12
Date
STATE OF CALIFORNIA

GOLDEN associates
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING
4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
f. 510 465 5325
CA lic. #2431

CITY OF SAN LEANDRO
INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY	LG LB	DATE 1/31/12
DRAWN BY	LB	DATE 1/31/12
PROJECT MGR.	MJG	DATE 8/31/12
TRANS ADMIN.	RLC	DATE 8/31/12
SENIOR ENGR.		DATE 8/31/12
APPROVED BY:		DATE 9/4/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE

LANDSCAPE LAYOUT PLAN
STATION 23+00 TO 27+00

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 52 OF 80
JOB NO. 150-38-331
SCALE 1" = 20'
DWG 3653 CASE 202

LAYOUT LEGEND

KEY	SYMBOL	DESCRIPTION	DETAIL(S)
CONC		COLORED CONCRETE PAVING SEE SHEET LD5 FOR SCORING	A / LD1
MPAV		CONCRETE PAVERS AT MEDIANS	E / LD1
GPAV	NOT SHOWN	SPLIT–GRANITE SETS 3' X 3' FIELD CENTERED AT BASE OF WAYFINDING SIGNAGE POLES	C / LD1
DURA		DURATHERM THERMOPLASTIC CROSSWALK PATTERN	D / LD1
TRLS		WEST JOAQUIN AVENUE GATEWAY TRELLIS	A / LD2 B / LD2
CLMN		COLUMNS AT WEST JUANA AVENUE	A / LD3
SEAT		SEATWALL WITH COLUMNS	B / LD3 D / LD4
FENC		METAL FENCE	A / LD4
GRTE		TREE GRATE	B / LD4
PALM		PALM TREE 4X4 PLANTING AREA W/HEADER	A / PL6 C / LD4
		FOR UPLIGHTING AT PALM TREES IN MEDIAN SEE ELECTRICAL PLANS	

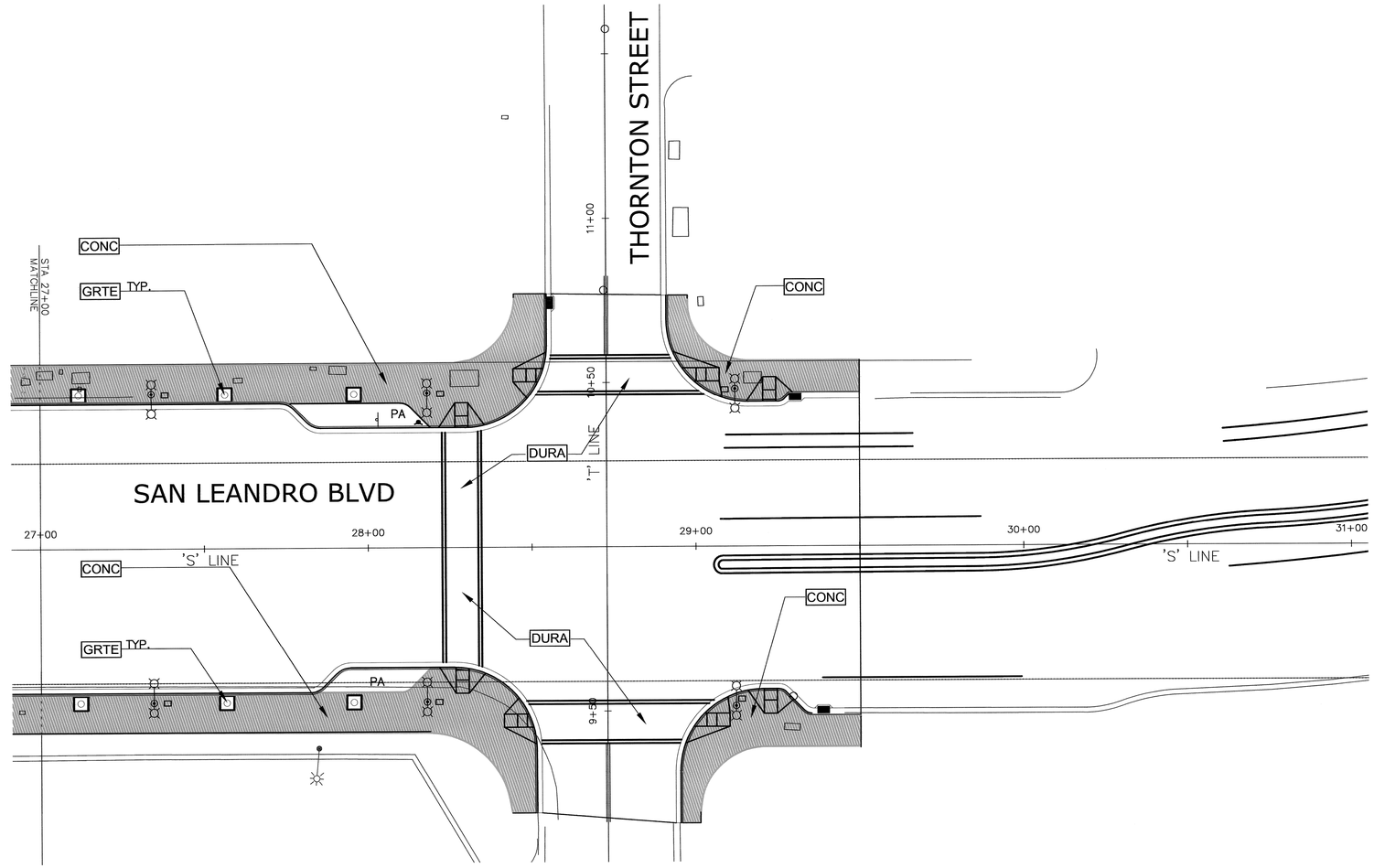
KEY *wayfinding / identification*

	VEHICULAR DIRECTIONAL	DR.03 / WSL.03
	PEDESTRIAN DIRECTIONAL	DR.06 / WSL.03

FOR WAYFINDING SIGNAGE COPY LIST SEE SHEET WSL.1,
FOR DETAILS SEE SHEETS WSL.2 AND WSL.3

LEGEND SYMBOLS ARE FOR REFERENCE ONLY AND DO NOT REPRESENT EXACT SHAPE OR DIMENSION OF EXISTING OR NEW CONDITION.

REFER TO SHEET LL1 FOR LAYOUT KEY



LL5

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
12/31/12
STATE OF CALIFORNIA

GOLDEN associates
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING
4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
f. 510 465 5325
CA lic. #2431

CITY OF SAN LEANDRO
INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

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NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY	LG LB	DATE 1/31/12
DRAWN BY	LB	DATE 1/31/12
PROJECT MGR.	MJG	DATE 8/31/12
TRANS ADMIN.	RLC	DATE 8/31/12
SENIOR ENGR.		DATE 8/31/12
APPROVED BY:		DATE 9/17/12

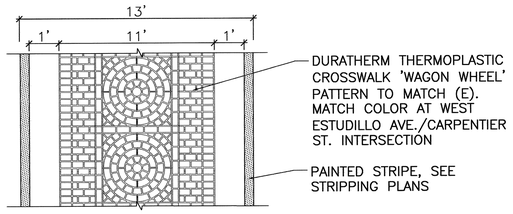
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE

LANDSCAPE LAYOUT PLAN
STATION 27+00 TO 30+00

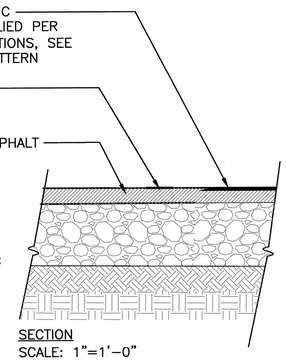
AT FULL SIZE THIS LINE MEASURES 1"

SHEET 53 OF 80
JOB NO. 150-38-331
SCALE 1" = 20'
DWG 3654 CASE 202



PLAN
SCALE: 1/4"=1'-0"

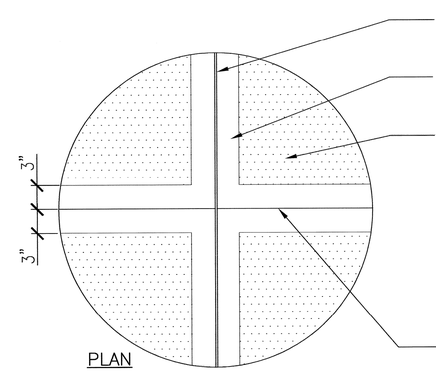
NOTES:
1. AS REQUIRED, GRIND ASPHALT TO ENSURE SMOOTH SURFACE.
2. REPAVE IF (E) ASPHALT IS NOT SUITABLE FOR IMPRINT.
3. DURATHERM MANUFACTURER: FLINT TRADING INC., SALES@FLINTTRADING.COM, (336) 475-6600. OR APPROVED EQUAL



SECTION
SCALE: 1"=1'-0"

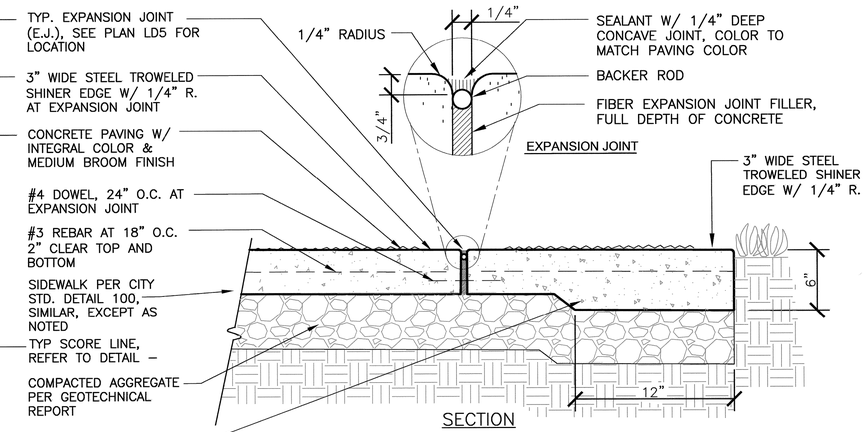
D DECORATIVE CROSSWALK

SEE DETAIL FOR SCALE



PLAN

NOTES:
1. COLORED CONCRETE: MANUFACTURER DAVIS COLORS COLOR: INTEGRAL COLOR SPANISH GOLD 3 LB OF NO. 5084 PER BAG OF TYPE I-II PORTLAND CEMENT OR APPROVED EQUAL
2. CONTRACTOR TO SUBMIT SAMPLES AND A FIELD PANEL FOR APPROVAL

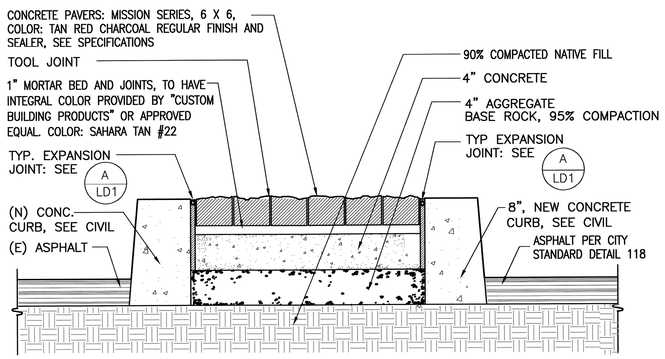


SECTION

COORDINATE WITH CITY STANDARD PLAN 100

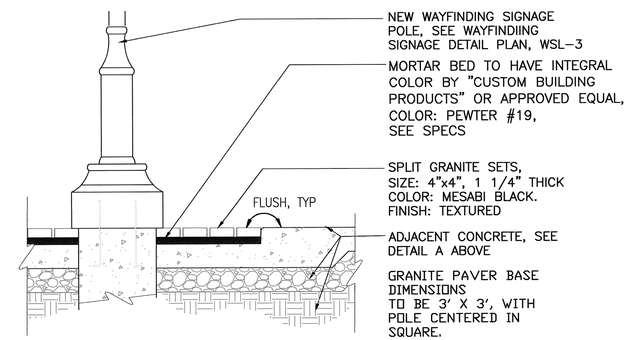
A CONCRETE PAVING W/ INTEGRAL COLOR

1"=1'-0"



E CONCRETE PAVERS AT MEDIANS

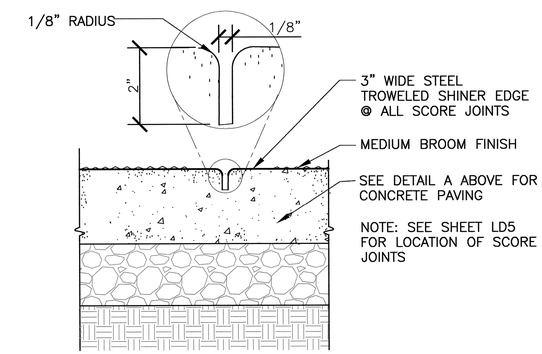
1"=1'-0"



NOTE:
SPLIT GRANITE PAVERS, AVAILABLE AT COLD SPRING GRANITE INC. (320) 685-3621 OR APPROVED EQUAL

C GRANITE SETS AT BASE OF WAYFINDING POLES, TYP.

1"=1'-0"



B SCORE JOINT, TYP.

1"=1'-0"

LD1

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
Signature
12/31/12
Expiration Date
8/30/12
Date
STATE OF CALIFORNIA

GOLDEN associates
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING
4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
f. 510 465 5325
CA lic. #2431

CITY OF SAN LEANDRO
INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION
	5/15/12	PERMIT REVIEW

CITY OF SAN LEANDRO

DESIGNED BY	LG,LB	DATE 1/31/12
DRAWN BY	LB	DATE 1/31/12
PROJECT MGR.	MJC	DATE 8/31/12
TRANS ADMIN.	RLC	DATE 8/31/12
SENIOR ENGR.		DATE 8/31/12
APPROVED BY:		DATE 9/4/12

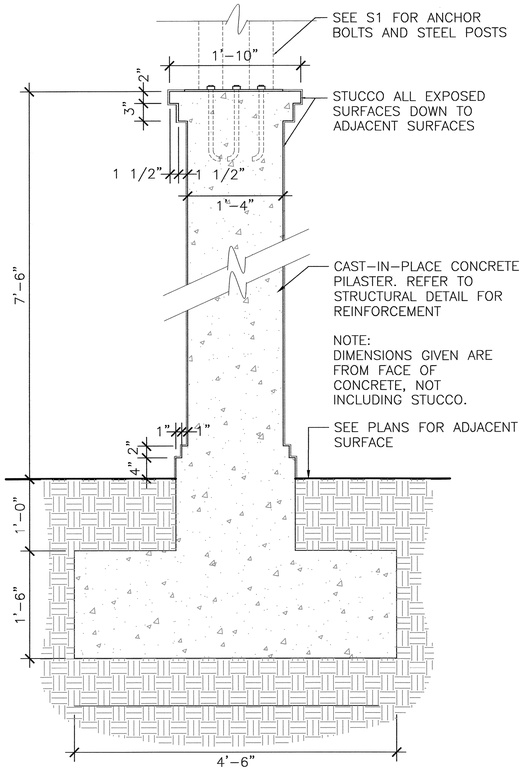
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE

PAVING DETAILS

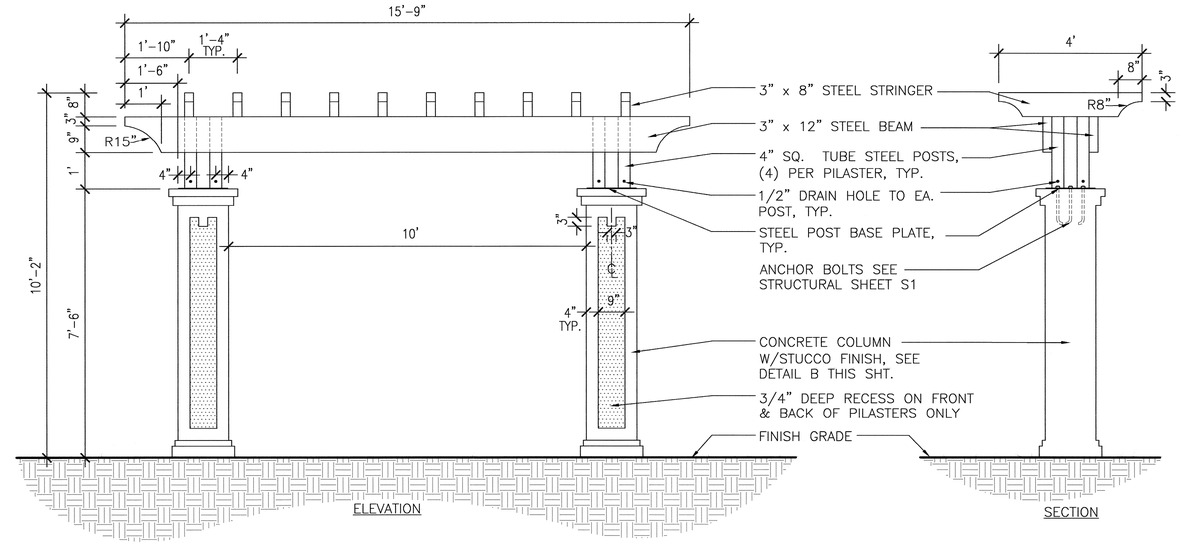
AT FULL SIZE THIS LINE MEASURES 1"

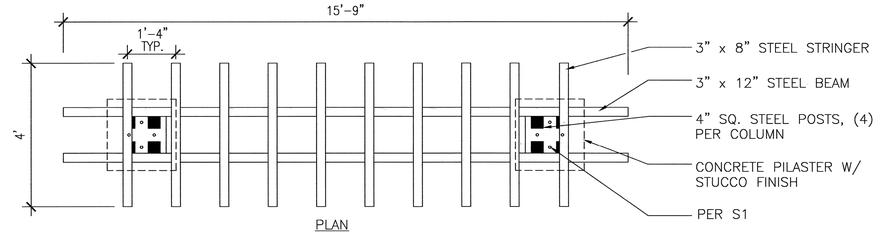
SHEET 54 OF 80
JOB NO. 150-38-331
SCALE AS SHOWN
DWG 3655 CASE 202



B GATEWAY TRELLIS COLUMN & FOOTING

1"=1'-0"





NOTES:
1. ALL STEEL TO BE GALVANIZED AND POWDER COATED, COLOR: BLACK BROWN, RAL 8022 OR APPROVED EQUAL
2. ALL VISIBLE SURFACES OF PILASTER TO HAVE STUCCO FINISH WITH GRAFFITI COATING. STUCCO TO MATCH (E) COLUMNS AT WEST ESTUDIO AND SAN LEANDRO BLVD., SAN LEANDRO, CA
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS.
4. SEE STUCCO COLOR AND NOTES THIS SHEET.

A WEST JOAQUIN AVENUE GATEWAY TRELLIS

1/2"=1'-0"

STUCCO COLOR

INTEGRAL STUCCO COLOR: X-524 ALAMO, AS MANUFACTURED BY LA HABRA.
209-983-8808

NOTES: STUCCO APPLICATION OVER CONCRETE

STUCCO APPLICATION SHALL CONSIST OF:
1. LA HABRA FASTWALL 300 STUCCO BASECOAT
2. PAREX USA 4.5 OZ. REINFORCING MESH EMBEDDED INPAREX USA WEATHERDRY
3. LA HABRA SMOOTH FINISH STUCCO
4. APPLY ANTI-GRAFITTI SEALER TO ALL SUCCO SURFACES, PER SPECIFICATIONS.

LD2

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
Signature
8/31/12
Renewal Date
STATE OF CALIFORNIA

GOLDEN associates
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING
4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
f. 510 465 5325
CA lic. #2431

CITY OF SAN LEANDRO
INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

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NO.	DATE	REVISION
	5/15/12	PERMIT REVIEW

CITY OF SAN LEANDRO

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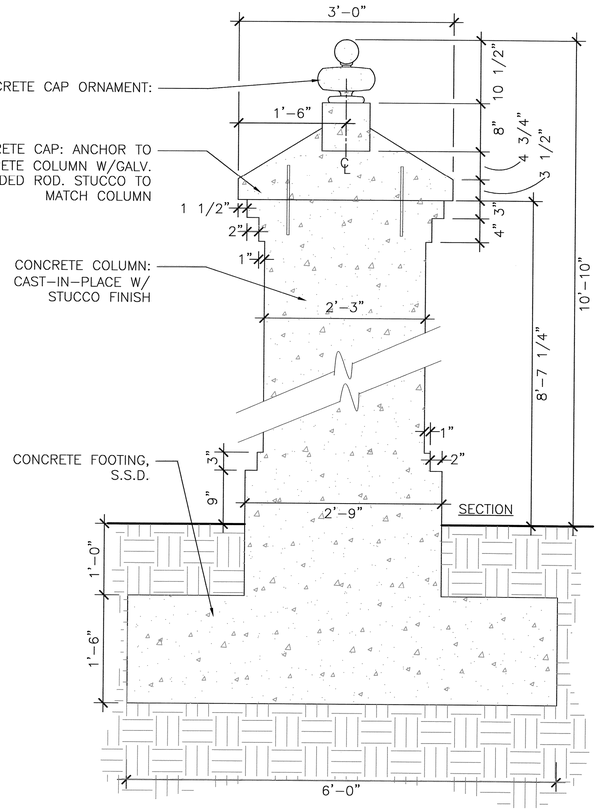
DRAWN BY	LB	DATE 1/31/12
PROJECT MGR.	MJG	DATE 8/31/12
TRANS ADMIN.	RLC	DATE 8/31/12
SENIOR ENGR.		DATE 8/31/12
APPROVED BY:		DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870		

BART-DOWNTOWN PEDESTRIAN INTERFACE

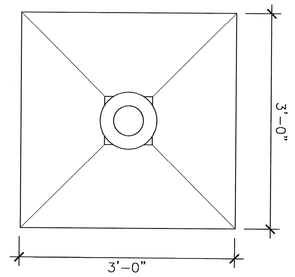
WEST JOAQUIN GATEWAY TRELLIS DETAILS

AT FULL SIZE THIS LINE MEASURES 1"

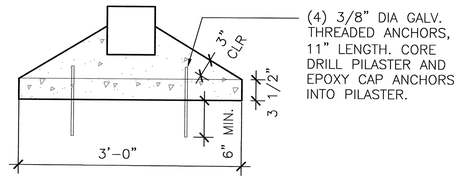
SHEET 55 OF 80
JOB NO. 150-38-331
SCALE AS SHOWN
DWG 3656 CASE 202



COLUMN: SECTION



CONCRETE CAP: PLAN

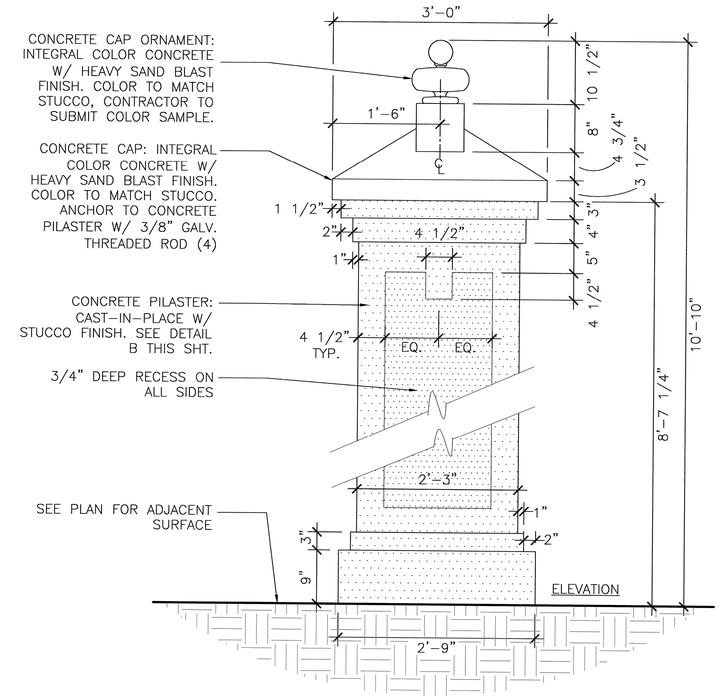


CONCRETE CAP: SECTION

NOTES:
1. CAPS TO BE PRE-CAST OR CAST ON SITE. CONTRACTOR TO CONSTRUCT MOLDS TO YIELD THESE DIMENSIONS. CONFIRM DOWEL LOCATIONS PRIOR TO CASTING.
2. SEE STRUCTURAL DWGS. FOR ALL REINFORCEMENT.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS.

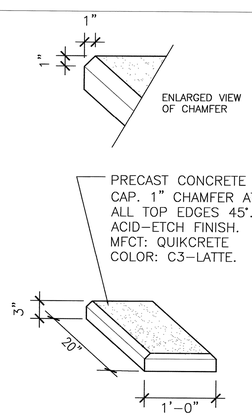
STUCCO COLOR
INTEGRAL STUCCO COLOR: X-524 ALAMO, AS MANUFACTURED BY LA HABRA.
209-983-8808

STUCCO APPLICATION OVER CONCRETE
STUCCO APPLICATION SHALL CONSIST OF:
1. LA HABRA FASTWALL 300 STUCCO BASECOAT
2. PAREX USA 4.5 OZ. REINFORCING MESH EMBEDDED INPAREX USA WEATHERDRY
3. LA HABRA SMOOTH FINISH STUCCO
4. APPLY ANTI-GRAFITTI SEALER TO ALL SUCCO SURFACES, PER SPECIFICATIONS.

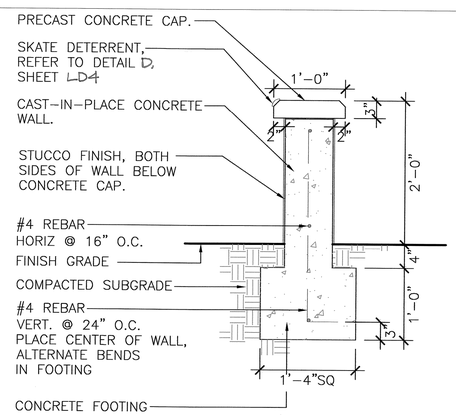


COLUMN: ELEVATION

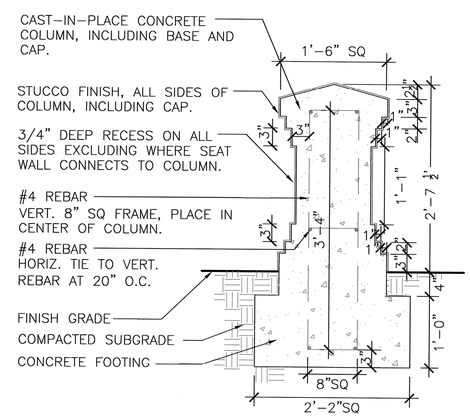
A COLUMNS AT WEST JUANA AVENUE - SECTION AND ELEVATION
1"=1'-0"



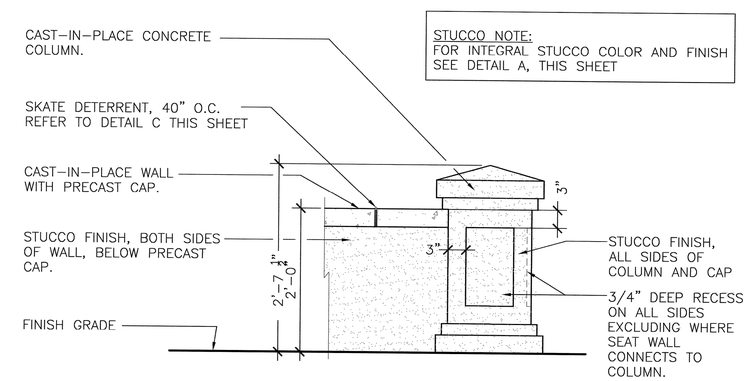
PRECAST CONCRETE CAP



SEAT WALL SECTION



SEAT WALL COLUMN SECTION



STUCCO NOTE:
FOR INTEGRAL STUCCO COLOR AND FINISH SEE DETAIL A, THIS SHEET

ELEVATION

B SEAT WALL WITH COLUMN
1"=1'-0"

LD3

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
12/31/12
Expiration Date
STATE OF CALIFORNIA

GOLDEN associates
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING
4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
f. 510 465 5325
CA lic. #2431

CITY OF SAN LEANDRO INCORPORATED 1872

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NO.	DATE	REVISION
	5/15/12	PERMIT REVIEW

CITY OF SAN LEANDRO

DESIGNED BY	LG,LB	DATE 1/31/12
DRAWN BY	LB	DATE 1/31/12
PROJECT MGR.	MJG	DATE 8/31/12
TRANS ADMIN.	RLC	DATE 8/31/12
SENIOR ENGR.		DATE 8/31/12
APPROVED BY:		DATE 9/4/12

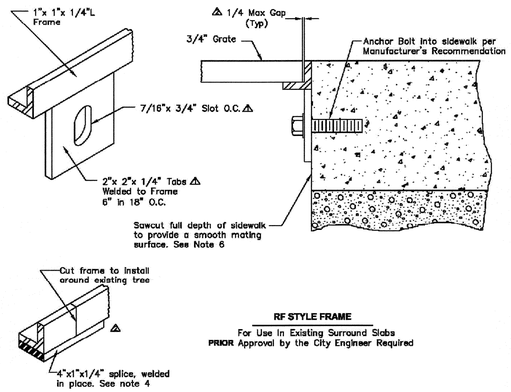
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE

WEST JUANA ENTRY COLUMNS AND SEAT WALL

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 56 OF 80
JOB NO. 150-38-331
SCALE AS SHOWN
DWG 3657 CASE 202



RF STYLE FRAME

For Use In Existing Surround Slabs
PRIOR Approval by the City Engineer Required

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. Cast-In-Place Cast Iron Tree Grate and Frame: South Bay Foundry, Inc. (619) 956-2780 Fax (619) 956-2788, Model STB D11 Series 48" Square with CI Style frame or approved interchangeable unit. Install per manufacturer's specifications. Assemble tree grate frame with hardware provided, countersinking flathead screws flush or below the bearing surface of the frame. Concrete shall be cast with both tree grate halves within the frame. Do not remove tree grate until concrete is set. ⚠
3. Retrofit Cast Iron Tree Grate and Frame: South Bay Foundry, Inc. (619) 956-2780 Fax (619) 956-2788, 48" Square with RF Style frame or approved interchangeable unit. Install per manufacturer's specifications. ⚠
4. If necessary to cut frame to install around existing tree, frame shall be reweided with 4"x1"x1/4" splice after verifying square & flatness of frame, 1/4" maximum gap between frame and grate. ⚠
5. For (N) C, G, & SWK construction, abutt, the frame and grate to back of curb, delete dowels.
6. All concrete work shall be per Dwgs. 100, 104, 112 Case 3101.
7. Satisfactory condition of sidewalk shall be verified by the City Engineer **PRIOR** to installation. Damaged, deteriorated, or otherwise unsatisfactory sidewalk shall require Cast-In-Place units.

ACAD FILE NO. C2101D438AB Rev2.DWG

CITY OF SAN LEANDRO * STANDARD PLANS

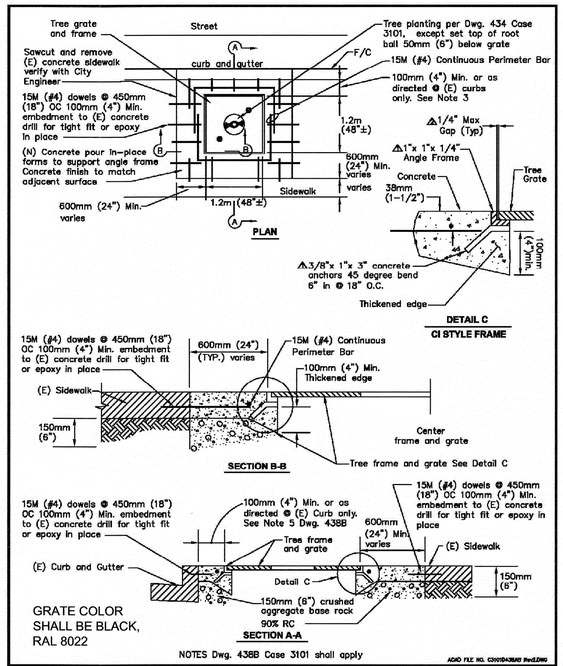
NO.	REVISIONS	DATE	BY
⚠	REVISED VENDOR & SPECS	9/23/08	----
⚠	Add MAX GAP & Rev NAME note 4, reweld detail	11/1/08	AMS

GRATED TREE ⚠
WELL INSTALLATION

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/09

DRAWN GF/MLWH/VL | CHECKED KJ/KRC | DATE Sept. 2005 | SCALE NONE | SHEET 2 OF 2 | DWG. NO. 438B | CASE. 3101

B TREE GRATE
1"=1'-0"



GRATE COLOR SHALL BE BLACK, RAL 8022

NOTES Dwg. 438B Case 3101 shall apply

ACAD FILE NO. C2101D438AB Rev2.DWG

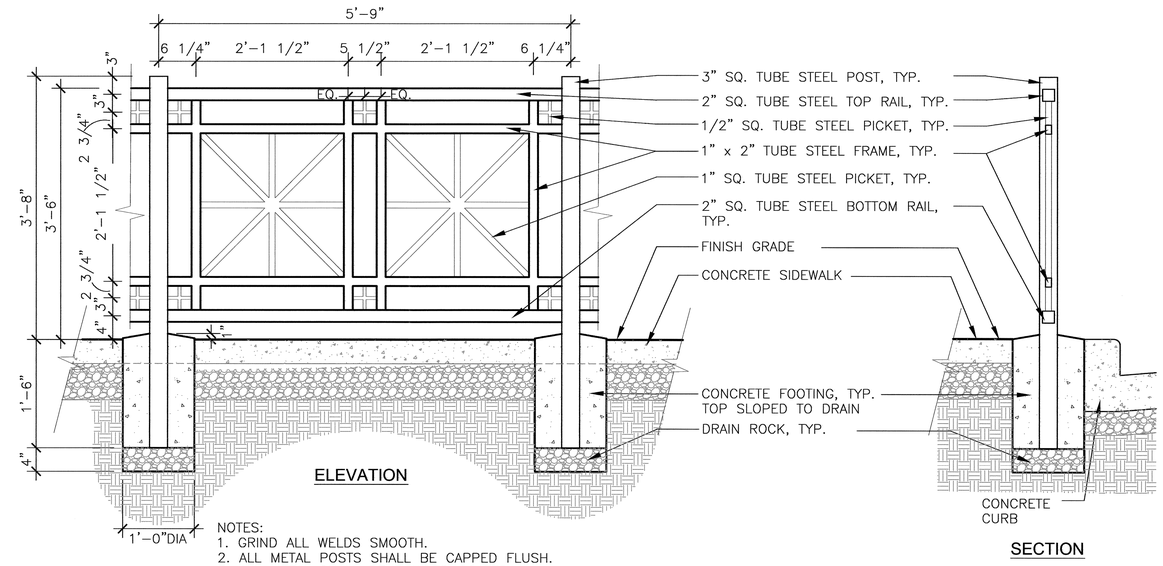
CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY
⚠	REVISED VENDOR & SPECS	9/23/08	----
⚠	Add MAX GAP & Rev NAME	11/1/08	AMS

⚠ GRATED TREE
WELL INSTALLATION

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/09

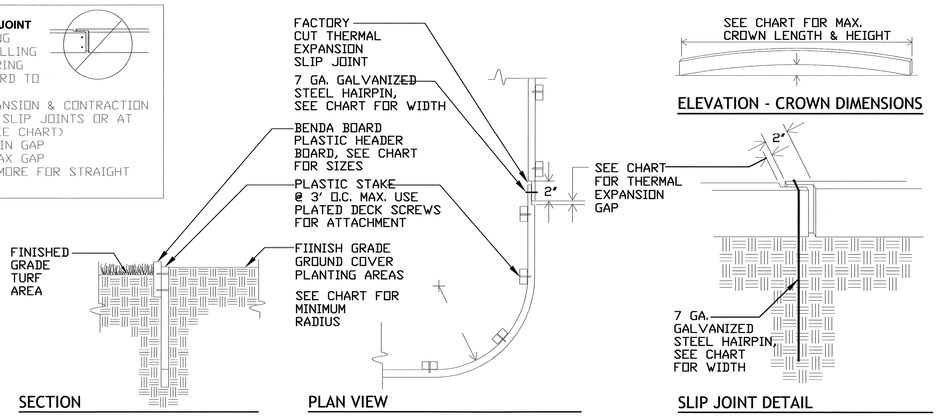
DRAWN GF/MLWH/VL | CHECKED KJ/KRC | DATE Sept. 2005 | SCALE NONE | SHEET 1 OF 2 | DWG. NO. 438A | CASE. 3101



NOTES:
1. GRIND ALL WELDS SMOOTH.
2. ALL METAL POSTS SHALL BE CAPPED FLUSH.
3. ALL METAL SHALL BE POWDER COATED, COLOR: BLACK BROWN, RAL 8022, OR APPROVED EQUAL.
4. ALL DIMENSIONS ARE TYPICAL
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS.

A METAL FENCE
1"=1'-0"

1. **DO NOT SCREW THROUGH SLIP JOINT**
2. USE COARSE WOOD WORKING TOOLS FOR CUTTING & DRILLING
3. USE PLATED SCREWS OR RING SHANK NAILS TO JOIN BOARD TO STAKE
4. ALLOW FOR THERMAL EXPANSION & CONTRACTION BY LEAVING GAPS IN THE SLIP JOINTS OR AT THE END OF THE RUN (SEE CHART) WARM WEATHER INSTALL MIN GAP COLD WEATHER INSTALL MAX GAP
5. STAKE APPROX 3' 0" OC (MORE FOR STRAIGHT RUNS LESS FOR CURVES)



HDR. SIZE	ACTUAL DIMENSIONS	MINIMUM RADIUS POSSIBLE	MAXIMUM CROWN POSSIBLE	THERMAL EXPANSION GAP AT SLIP JOINT	SLIP JOINT HAIRPIN DIMENSIONS
½ X4	3 3/8" X 5/16" X 20'	6"	22" / 20'	N/A	N/A
1X4	3 3/8" x 11/16" x 20'	24"	19" / 20'	1/4" - 1/2"	3/4" ID x 13"
2X4	3 3/8" x 1 3/8" x 20'	36"	16" / 20'	1/2" - 3/4"	1 1/2" ID x 13"
1X6	5 3/8" x 11/16" x 20'	24"	9" / 20'	1/2" - 3/4"	3/4" ID x 13"

SEE DETAIL A, SHEET PL6 FOR LOCATION OF HEADER AT PALM TREE

INSTALL PER MANUFACTURER SPECIFICATIONS

BENDA BOARD CHART

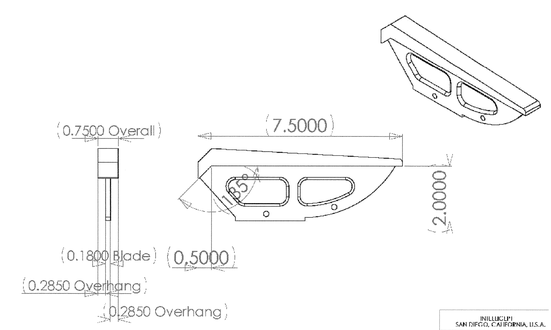
COLOR MENDOCINO REDWOOD
MANUFACTURED BY: EPIC PLASTICS, 104 EAST TURNER RD., LODI CA 95240
URL ADDRESS: www.epicplastics.com

C BENDA BOARD PLASTIC HEADER BOARD DETAIL OR EQUAL
NTS BENDA BOARD IS INTENDED FOR NON-STRUCTURAL USE ONLY

SIMILAR TO THIS MODEL AS SHOWN

MODEL: SAN MARCO T FOR CHAMFER
COLOR: CAST BRONZE WITH BROWN PANTINA
MANUFACTURER: SKATESTOPPERS
(619) 447-6374

NOTE:
CONTRACTOR TO INSTALL SKATE STOPPER AT JOINT BETWEEN WALL CAPS AS SHOWN ON DETAIL B, THIS SHEET.



Available in cast Bronze with brown patina or White Tomasil (white brass) with matte clear coat

INTELLICLIP!
SAN DIEGO, CALIFORNIA, U.S.A.
San Marcos T for Chamfer

D SKATE DETERRENT
N.T.S.

LD4

LICENSED LANDSCAPE ARCHITECT — LESLIE B GOLDEN — No. 3431 — Signature — 12/31/12 Expiration Date — 8/30/12 Date — STATE OF CALIFORNIA

GOLDEN associates
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING
4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
f. 510 465 5325
CA lic. #2431

CITY OF SAN LEANDRO — INCORPORATED 1872

CITY OF SAN LEANDRO

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION
	5/15/12	PERMIT REVIEW

DESIGNED BY	LG,LB	DATE 1/31/12
DRAWN BY	LB	DATE 1/31/12
PROJECT MGR.	MJG	DATE 8/31/12
TRANS ADMIN.	KLC	DATE 8/31/12
SENIOR ENGR.	MJ	DATE 8/31/12
APPROVED BY:		DATE 9/4/12

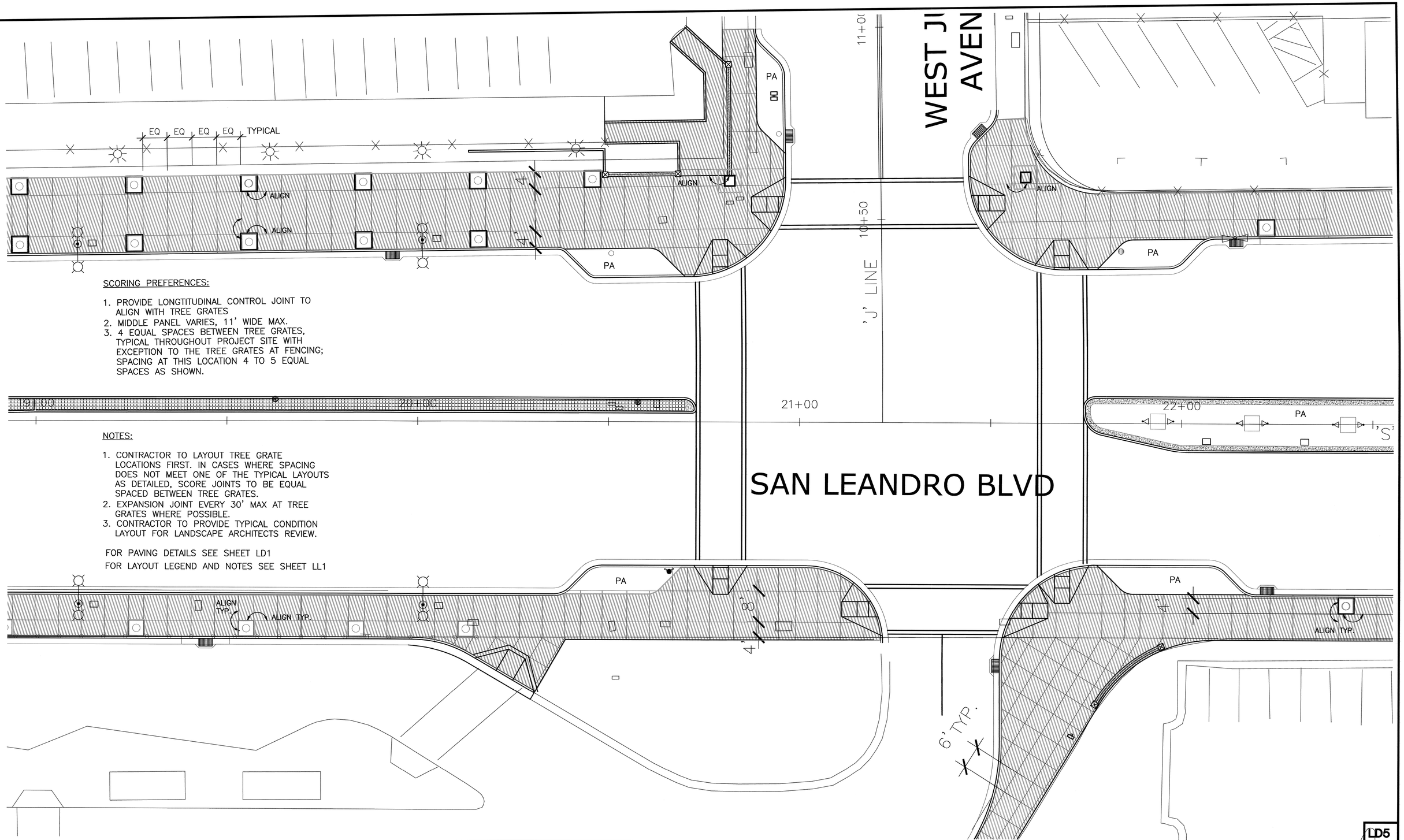
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE

SITE FURNISHINGS
BENDA BOARD HEADER

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 57 OF 80
JOB NO. 150-38-331
SCALE AS SHOWN
DWG 3658 CASE 202



SCORING PREFERENCES:

1. PROVIDE LONGTITUDINAL CONTROL JOINT TO ALIGN WITH TREE GRATES
2. MIDDLE PANEL VARIES, 11' WIDE MAX.
3. 4 EQUAL SPACES BETWEEN TREE GRATES, TYPICAL THROUGHOUT PROJECT SITE WITH EXCEPTION TO THE TREE GRATES AT FENCING; SPACING AT THIS LOCATION 4 TO 5 EQUAL SPACES AS SHOWN.

NOTES:

1. CONTRACTOR TO LAYOUT TREE GRATE LOCATIONS FIRST. IN CASES WHERE SPACING DOES NOT MEET ONE OF THE TYPICAL LAYOUTS AS DETAILED, SCORE JOINTS TO BE EQUAL SPACED BETWEEN TREE GRATES.
2. EXPANSION JOINT EVERY 30' MAX AT TREE GRATES WHERE POSSIBLE.
3. CONTRACTOR TO PROVIDE TYPICAL CONDITION LAYOUT FOR LANDSCAPE ARCHITECTS REVIEW.

FOR PAVING DETAILS SEE SHEET LD1

FOR LAYOUT LEGEND AND NOTES SEE SHEET LL1

REFER TO SHEET LL1 FOR LAYOUT KEY

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
Signature
12/31/12
Renewal Date
8/30/12
Date
STATE OF CALIFORNIA

GOLDEN associates
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING
4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
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CA lic. #2431

CITY OF SAN LEANDRO
INCORPORATED 1872

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NO.	DATE	REVISION

DESIGNED BY	I.G.I.B.	DATE 1/31/12
DRAWN BY	I.B.	DATE 1/31/12
PROJECT MGR.	M.J.G.	DATE 8/31/12
TRANS ADMIN.	RLC	DATE 8/31/12
SENIOR ENGR.		DATE 8/31/12
APPROVED BY		DATE 9/4/12

CITY ENGINEER, R.C.E. No. 34870

CITY OF SAN LEANDRO

BART-DOWNTOWN PEDESTRIAN INTERFACE

CONCRETE PAVING SCORING DETAIL

AT FULL SIZE THIS LINE MEASURES 1"

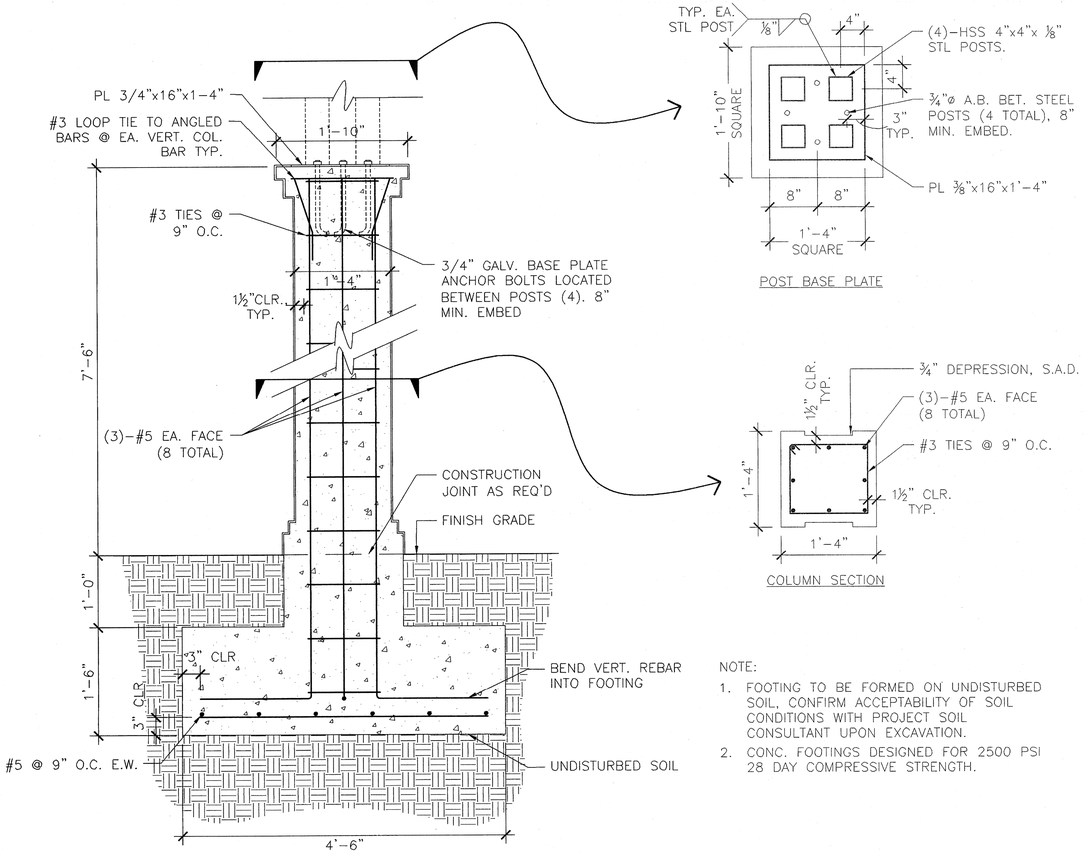
SHEET 58 OF 80

JOB NO. 150-38-331

SCALE 1"= 10'-0"

DWG 3659 CASE 202

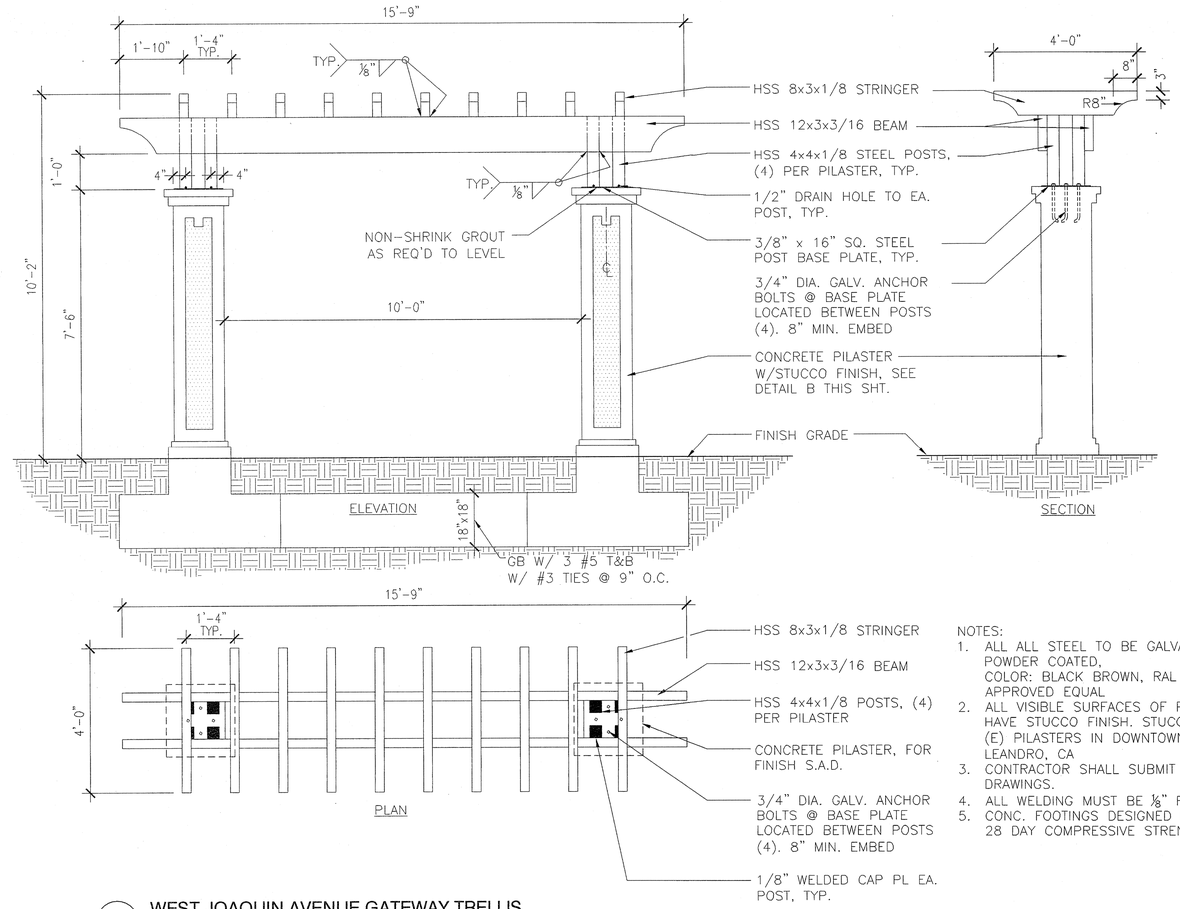
LD5



NOTE:

1. FOOTING TO BE FORMED ON UNDISTURBED SOIL, CONFIRM ACCEPTABILITY OF SOIL CONDITIONS WITH PROJECT SOIL CONSULTANT UPON EXCAVATION.
2. CONC. FOOTINGS DESIGNED FOR 2500 PSI 28 DAY COMPRESSIVE STRENGTH.

B GATEWAY TRELLIS PILASTER & FOOTING
1"=1'-0"



NOTES:

1. ALL ALL STEEL TO BE GALVANIZED AND POWDER COATED, COLOR: BLACK BROWN, RAL 8022 OR APPROVED EQUAL
2. ALL VISIBLE SURFACES OF PILASTER TO HAVE STUCCO FINISH. STUCCO TO MATCH (E) PILASTERS IN DOWNTOWN SAN LEANDRO, CA
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS.
4. ALL WELDING MUST BE ⅛" FILLET WELD.
5. CONC. FOOTINGS DESIGNED FOR 2500 PSI 28 DAY COMPRESSIVE STRENGTH.

A WEST JOAQUIN AVENUE GATEWAY TRELLIS
1/2"=1'-0"

NOTE: REFER TO PROJECT SPECIFICATIONS SECTION 217 – ORNAMENTAL CONCRETE FOR STRUCTURAL NOTES.

DESIGN CRITERIA (2010 SAN LEANDRO BUILDING CODE BASED ON 2009 IBC):
- 2500 PSI CONCRETE DESIGN COMPRESSIVE STRENGTH (NO SPECIAL INSPECTION REQ'D)
- 1500 PSI SOIL BEARING PRESSURE

S1

REGISTERED PROFESSIONAL ENGINEER BISHWENDU K. PAUL No. S003093 Exp. 9/13 STRUCTURAL STATE OF CALIFORNIA

ESI EARTHQUAKE AND STRUCTURES, INC.
Structural ~ Civil ~ Construction Management
6355 Telegraph Avenue
Suite 101
Oakland, CA 94609
Tel: (510) 601-1065
Fax: (510) 601-1808
www.esiengineers.com

CITY OF SAN LEANDRO INCORPORATED 1872

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NO.	DATE	REVISION

DESIGNED BY	BKP	DATE	1/31/2011
DRAWN BY	BMA	DATE	1/31/2011
PROJECT MGR.	~~BKP~~ RG	DATE	8/31/11
TRANS ADMIN.	– RG	DATE	8/31/11
SENIOR ENGR.	– J.J.	DATE	8/31/12
APPROVED BY:		DATE	9/4/12

CITY ENGINEER R.C.E. No. 34870

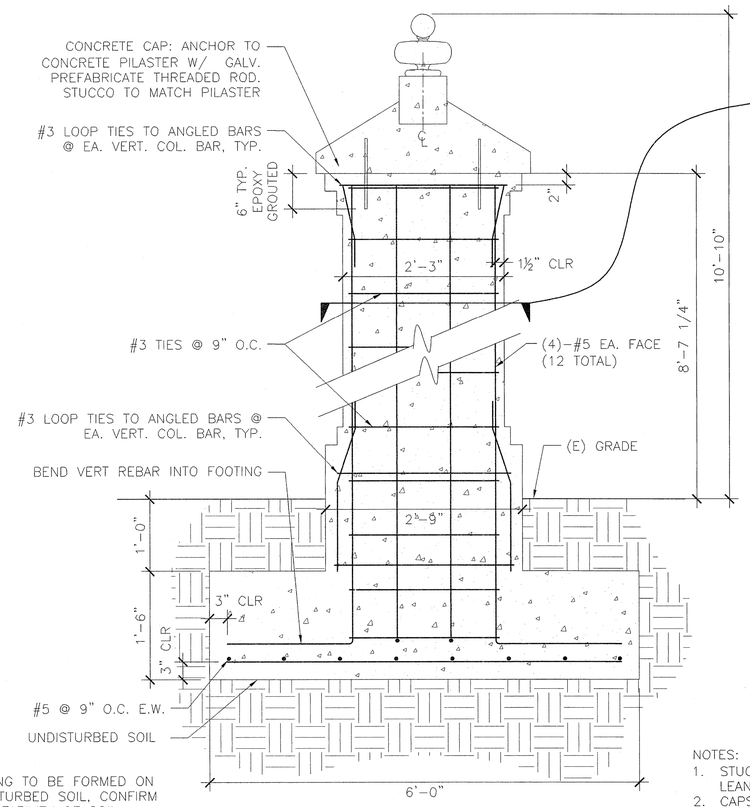
CITY OF SAN LEANDRO

BART-DOWNTOWN PEDESTRIAN INTERFACE

WEST JOAQUIN PASEO
TRELLIS DETAIL

AT FULL SIZE THIS LINE MEASURES 1"

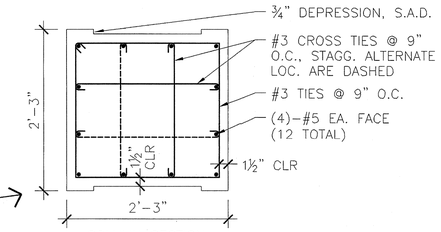
SHEET 59 OF 80
JOB NO. 150-38-331
SCALE AS SHOWN
DWG 3660 CASE 202



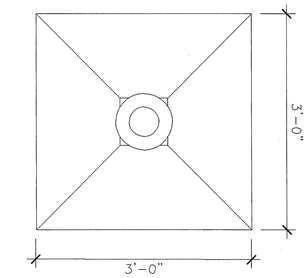
SECTION

NOTE:

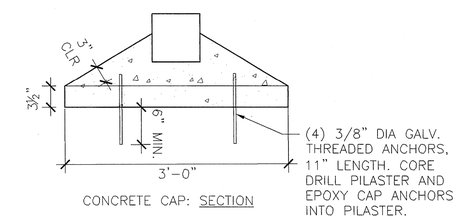
FOOTING TO BE FORMED ON UNDISTURBED SOIL. CONFIRM ACCEPTABILITY OF SOIL CONDITIONS WITH PROJECT SOIL CONSULTANT UPON EXCAVATION.



COLUMN SECTION



CONCRETE CAP: PLAN



CONCRETE CAP: SECTION

NOTES:

1. STUCCO SURFACES TO MATCH (E) PILASTERS IN DOWNTOWN SAN LEANDRO, CA, S.A.D.
2. CAPS TO BE PRE-CAST OR CAST ON SITE. CONTRACTOR TO CONSTRUCT MOLDS TO YIELD THESE DIMENSIONS. CONFIRM DOWEL LOCATIONS PRIOR TO CASTING.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS.
4. CONC. FOOTINGS DESIGNED FOR 2500 PSI 28 DAY COMPRESSIVE STRENGTH.

A PILASTER @ WEST JUANA AVENUE - SECTION & PLAN

1"=1'-0"

STRUCTURAL ABBREVIATIONS:

BET. = BETWEEN	MIN. = MINIMUM
CLR. = CLEAR	O.C. = ON CENTER
COL. = COLUMN	REQ'D = REQUIRED
DIA.(Ø) = DIAMETER	S.A.D. = SEE ARCH DRAWINGS
(E) = EXISTING	SQ. = SQUARE
EA. = EACH	STL. = STEEL
EMBED = EMBEDMENT	T & B = TOP AND BOTTOM
E.W. = EACH WAY	TYP. = TYPICAL
G.B. = GRADE BEAM	U.N.O. = UNLESS NOTED OTHERWISE
GALV. = GALVANIZED	VERT. = VERTICAL
LOC. = LOCATION(S)	w/ = WITH
MAX. = MAXIMUM	

S2

REGISTERED PROFESSIONAL ENGINEER BISHWENDU K. PAUL No. S003093 Exp. 9/13 STRUCTURAL STATE OF CALIFORNIA

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CITY OF SAN LEANDRO INCORPORATED 1872

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NO.	DATE	REVISION

DESIGNED BY	BKP	DATE	1/31/2011
DRAWN BY	BMA	DATE	1/31/2011
PROJECT MGR.	BKP NG	DATE	8/31/2011
TRANS ADMIN.	RLC	DATE	8/31/12
SENIOR ENGR.		DATE	8-31-12
APPROVED BY		DATE	9/4/12

CITY ENGINEER, R.C.E. No. 34870

CITY OF SAN LEANDRO

BART-DOWNTOWN PEDESTRIAN INTERFACE

WEST JUANA ENTRY COLUMNS

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 60 OF 80

JOB NO. 150-38-331

SCALE AS SHOWN

DWG 3661 CASE 202

IRRIGATION LEGEND

HEADS

SYMBOL	MODEL NO.	MANUF.	DESCRIPTION	PSI	GPM	DETAIL
◉	514-20	TORO	BUBBLER IN DEEP WATERING TUBE, TWO PER TREE INSTALL PER DETAIL 422, SHEET IR8	30	4.8 (2.4 X 2)	422, IR8
◔	514-20	TORO	SHRUB BUBBLER INSTALL PER DETAIL 420, SHEET IR8	30	2.4	420, IR8

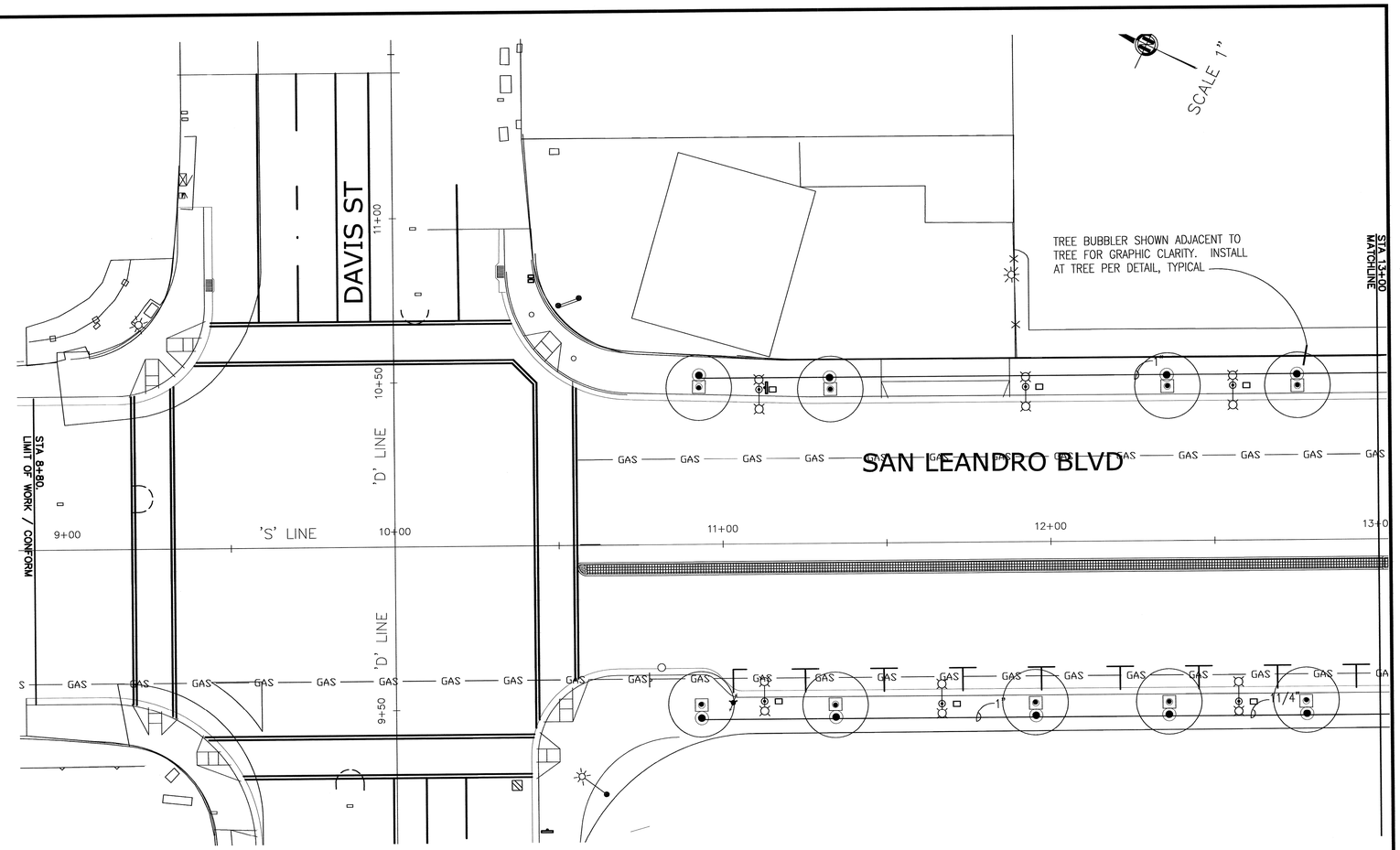
VALVES / CONTROLLER

M			EXISTING 1 1/2" IRRIGATION METER, POINT OF CONNECTION. 65 PSI, CONFIRM PRIOR TO BEGINNING WORK.	
	VBDW SERIES	BUCKNER	BRASS ELECTRIC REMOTE CONTROL GLOBE VALVE SIZE PER PLAN	412, SHEET IR7 418, SHEET IR8
	VBDW SERIES	BUCKNER	BRASS LOW FLOW / PRESSURE REMOTE CONTROL VALVE ASSEMBLY SIZE PER PLAN	412, SHEET IR7 424, SHEET IR9
	QB44LRC10	BUCKNER	QUICK COUPLING DEVICE, INSTALLED WITH WLT-1000-T PVC BALL VALVE	416, SHEET IR8
		KBI	FULL PORT PVC BALL VALVE, LINE SIZE	414, SHEET IR7
	909M1QT-S	WATTS	2" REDUCED PRESSURE ASSEMBLY WITH ENCLOSURE PER DETAIL	408, SHEET IR6 410, SHEET IR7
	ET2000e SERIES	CALSENSE	24 STATION CONTROLLER EXTERIOR PEDESTAL INSTALL IN LOCATION PER PLAN MODEL # "A" ET2000e-24 GR-RRE-SSE-R/GR-STUBBY/COMM-5YR/FM1.25B, WITH RB INTERFACE BOARD. CONFIRM THAT THE CALSENSE FLOW METER IS SIZED TO SYSTEM AS PER MANUFACTURERS SPECS. CONTACT JENNIFER GREGORIS 925-325-9368	A, B, C SHEET IR6
V	2230 SERIES	GRISWOLD	PRESSURE REGULATED BRONZE MASTER CONTROL VALVE WIRED TO CONTROLLER, LINE SIZE	
NOT SHOWN	MODEL RB-1	CALSENSE	TIPPING RAIN BUCKET, MOUNT PER MANUFACTURER'S RECOMMENDATIONS	

PIPING

			DETAIL
	-	SCHEDULE 40 PVC NON-PRESSURIZED LATERAL LINE W/SCHEDULE 80 FITTINGS, DEPTH PER DETAIL NSF APPROVED	400, SHEET IR6
	-	SCH 40 (UP TO 2 1/2") CLASS 315 (3" AND LARGER) PVC PRESSURIZED MAINLINE W/SCHEDULE 80 FITTINGS, NSF APPROVED, DEPTH PER DETAIL	400, SHEET IR6
	-	SCH 40 PVC SLEEVES W/SCHEDULE 80 FITTINGS, 2 IN EACH LOCATION, 3" MIN. IN SIZE	400, SHEET IR6
	TORO	DL2000 RGP-212-01 W/SCHEDULE 80 FITTINGS, 12" EMITTER SPACING, .5 GPH @ 12" O.C. ROW SPACING. BLANK POLY TUBING AS NECESSARY FOR CONNECTIONS, AIR RELIEF VALVES AND FLUSH VALVES WITH COVER 5-6" PER MANUFACTURERS SPECIFICATIONS, SEE DETAILS.	ALL DETAILS, SHEET IR9
		IRRIGATION LINE, SEPARATE FROM ADJACENT CROSSING IRRIGATION LINE. IRRIGATION LINE, SHOWN WITH 'JUMPER' TO INDICATE SEPARATION FROM ADJACENT IRRIGATION LINE. 1 1/2" IRRIGATION PIPE SIZING. SIZE INDICATED IS FROM THAT POINT DOWNSTREAM UNTIL NEXT CHANGE IN SIZE.	ALL DETAILS, SHEET IR9
S		SPLICE IN JUMBO BOX	412, SHEET IR7
S1		SPARE WIRE BOX WITH 7 SPARES AND 1 COMMON FROM CONTROLLER, LOOP 3' COIL IN JUMBO BOX	
		IRRIGATION REMOTE CONTROL WIRE SLEEVING, 2" MIN SIZE - SEE SPECS.	400, SHEET IR6

C= GALLONS PER MINUTE
A= VALVE NUMBER
B= VALVE SIZE
D= DESCRIPTION



GRAPHIC SCALE
20 0 5 20 10
(IN FEET)
1 inch = 20 ft.

IR-1

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
Signature
12/31/12
Expiration Date
8/31/12
Date
STATE OF CALIFORNIA

GOLDEN associates
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING
4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
f. 510 465 5325
CA lic. #2431

CITY OF SAN LEANDRO
INCORPORATED 1872

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NO.	DATE	REVISION
	5/15/12	PERMIT REVIEW

CITY OF SAN LEANDRO

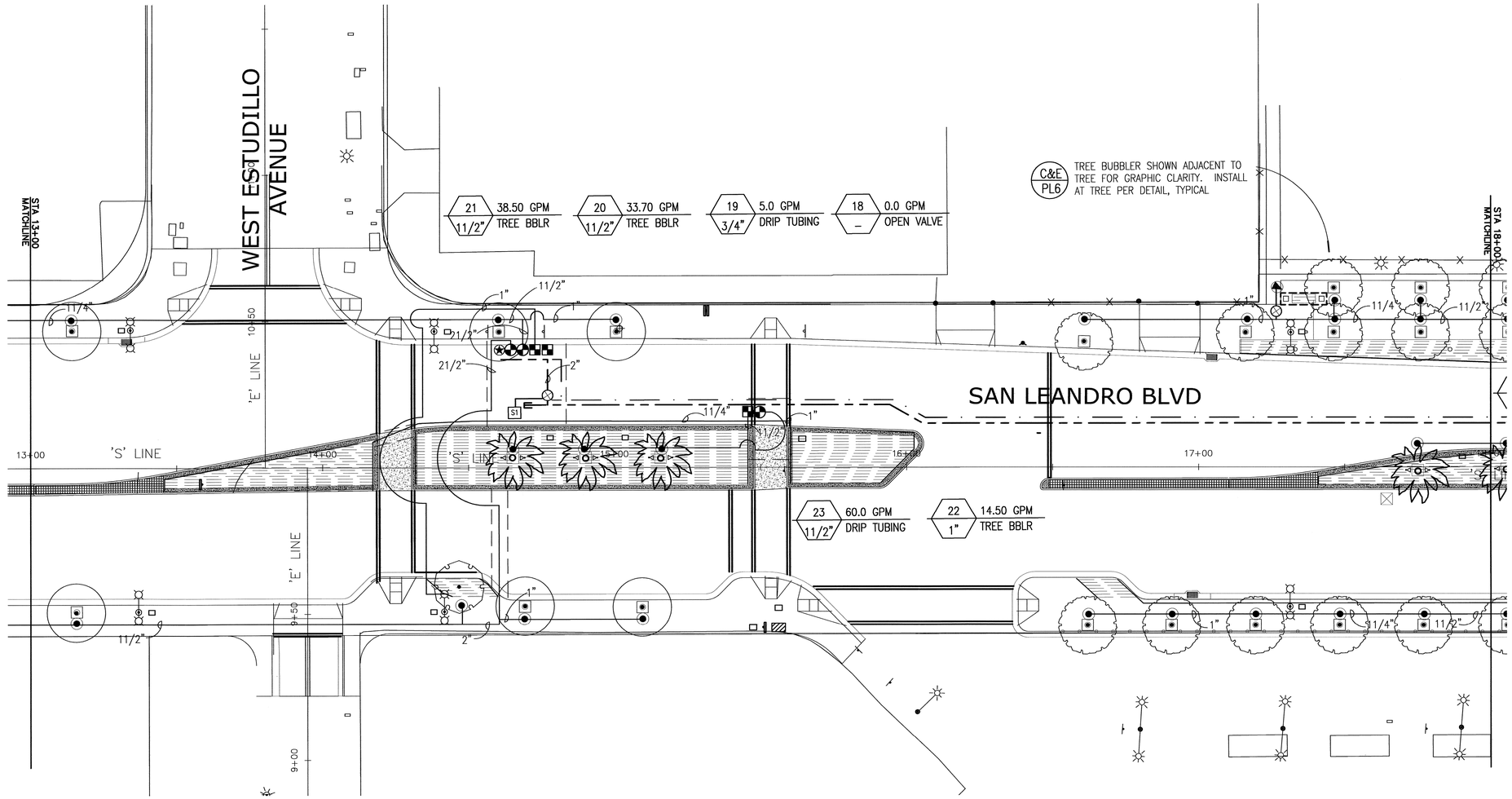
DESIGNED BY _____ DATE _____
DRAWN BY _____ DATE _____
PROJECT MGR. MG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. AJ DATE 8/31/12
APPROVED BY: DATE 9/5/12
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE

IRRIGATION PLAN, NOTES AND LEGEND
STATION 8+50 TO 13+00

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 61 OF 80
JOB NO. 150-38-331
SCALE 1" = 20'-0"
DWG 3662 CASE 202



SEE SHEET IR-1 FOR IRRIGATION LEGEND

GRAPHIC SCALE

20 0 5 20 10

(IN FEET)
1 inch = 20 ft.

IR-2

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
12/31/12
Expiration Date
8/30/12
Date
STATE OF CALIFORNIA

LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING

4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
f. 510 465 5325

GOLDEN associates CA lic. #2431

CITY OF SAN LEANDRO
INCORPORATED 1872

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NO.	DATE	REVISION
	5/15/12	PERMIT REVIEW

DESIGNED BY		DATE
DRAWN BY		DATE
PROJECT MGR.	MG	DATE 8/31/12
TRANS ADMIN.	RLC	DATE 8/31/12
SENIOR ENGR.		DATE 8/31/12
APPROVED BY:		DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870		

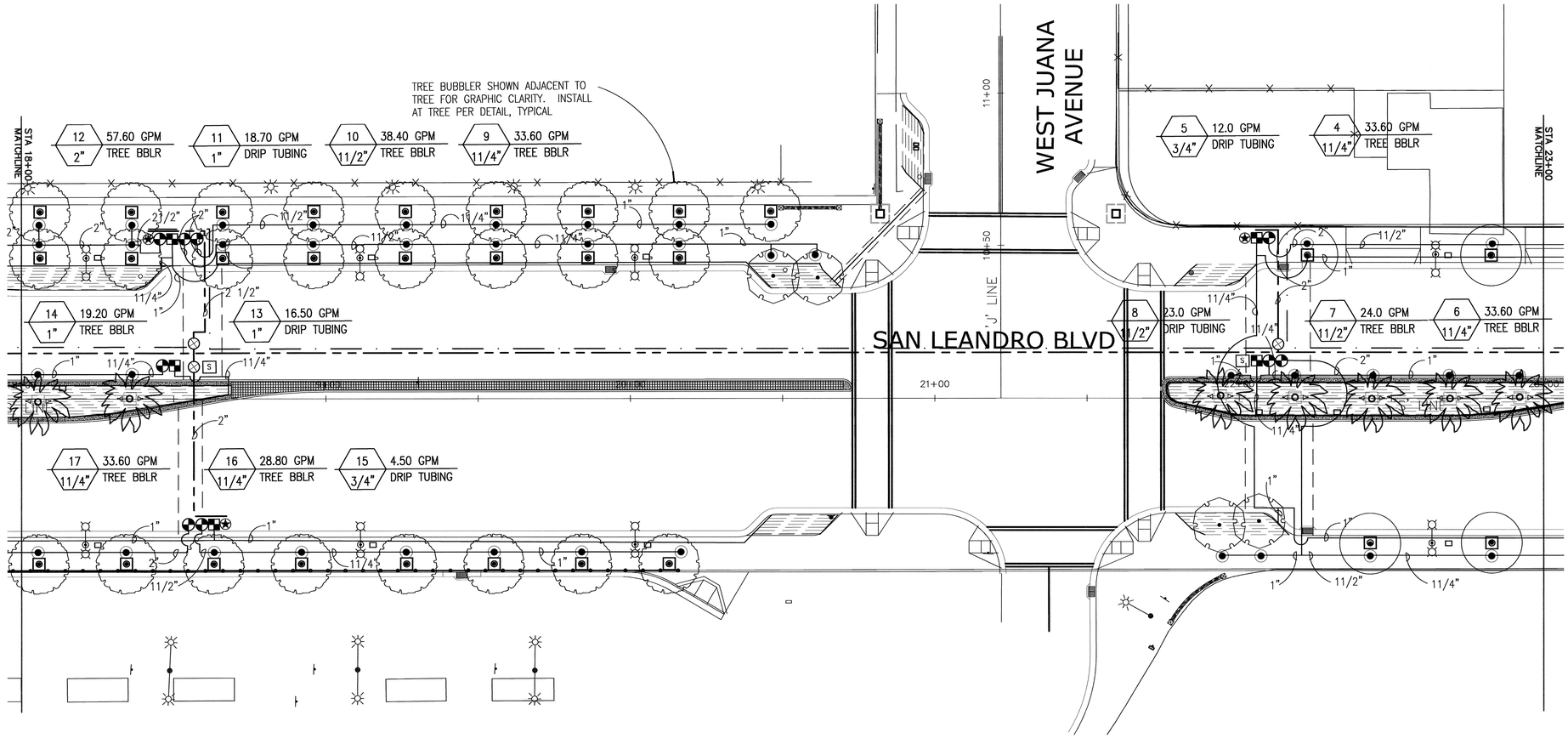
CITY OF SAN LEANDRO

BART-DOWNTOWN PEDESTRIAN INTERFACE

IRRIGATION PLAN, NOTES AND LEGEND
STATION 13+00 TO 18+00

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 62 OF 80
JOB NO. 150-38-331
SCALE 1"= 20'-0"
DWG 3663 CASE 202



SEE SHEET IR-1 FOR IRRIGATION LEGEND

GRAPHIC SCALE

20 0 5 20 10

(IN FEET)
1 inch = 20 ft.

IR-3

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
Signature
12/31/12
Expiration Date
STATE OF CALIFORNIA

GOLDEN associates

LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING

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NO.	DATE	REVISION
	5/15/12	PERMIT REVIEW

CITY OF SAN LEANDRO

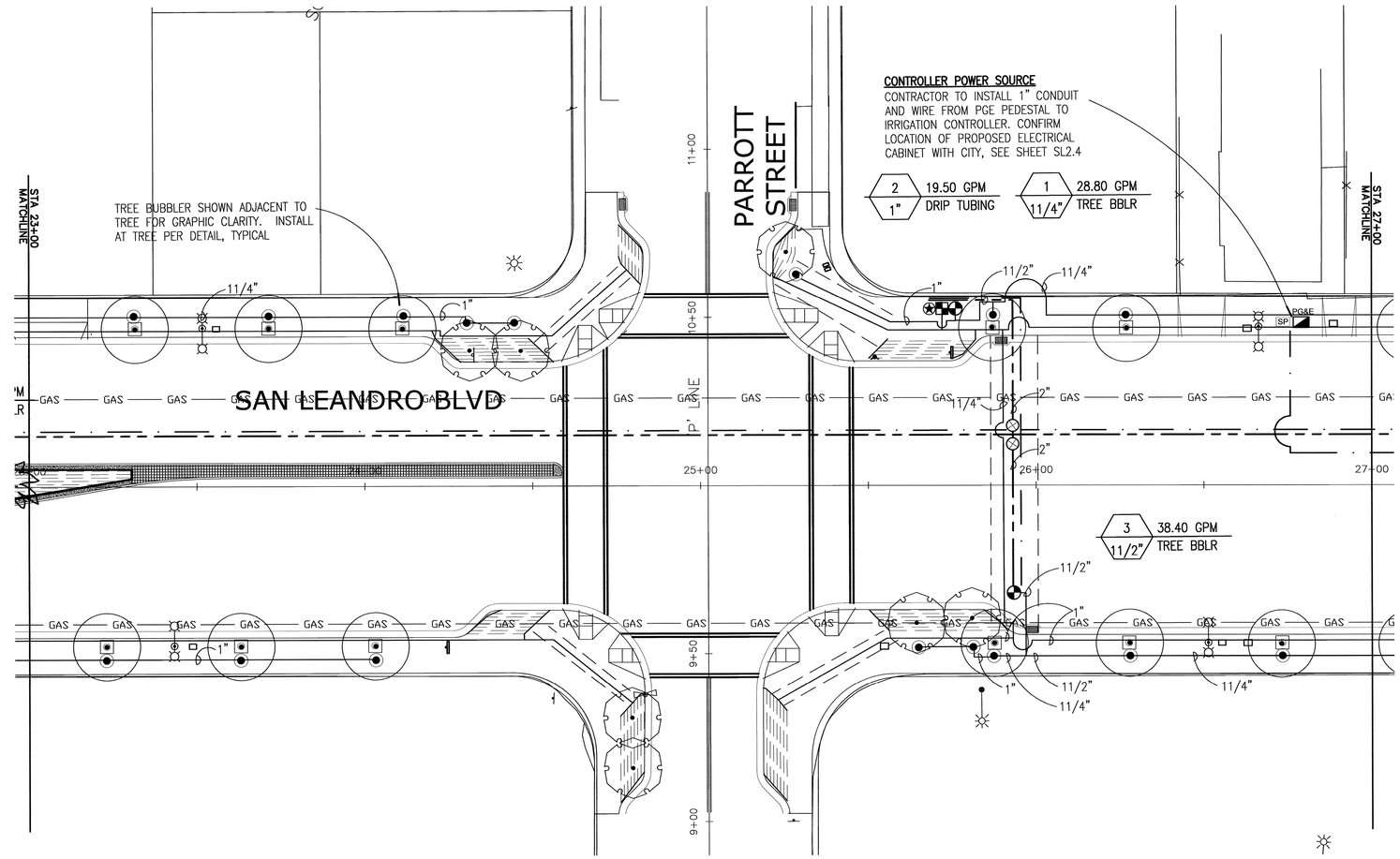
DESIGNED BY _____ DATE _____
DRAWN BY _____ DATE _____
PROJECT MGR. MA DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. J.J. DATE 8/31/12
APPROVED BY _____ DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE

IRRIGATION PLAN, NOTES AND LEGEND
STATION 18+00 TO 23+00

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 63 OF 80
JOB NO. 150-38-331
SCALE 1"= 20'-0"
DWG 3664 CASE 202



SEE SHEET IR-1 FOR IRRIGATION LEGEND

GRAPHIC SCALE

20 0 5 20 10

(IN FEET)
1 inch = 20 ft.

IR-4

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
Signature
12/31/12
Expiration Date
8/30/12
Date
STATE OF CALIFORNIA

GOLDEN associates
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING
4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
f. 510 465 5325
CA lic. #2431

CITY OF SAN LEANDRO
INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION
	5/15/12	PERMIT REVIEW

CITY OF SAN LEANDRO

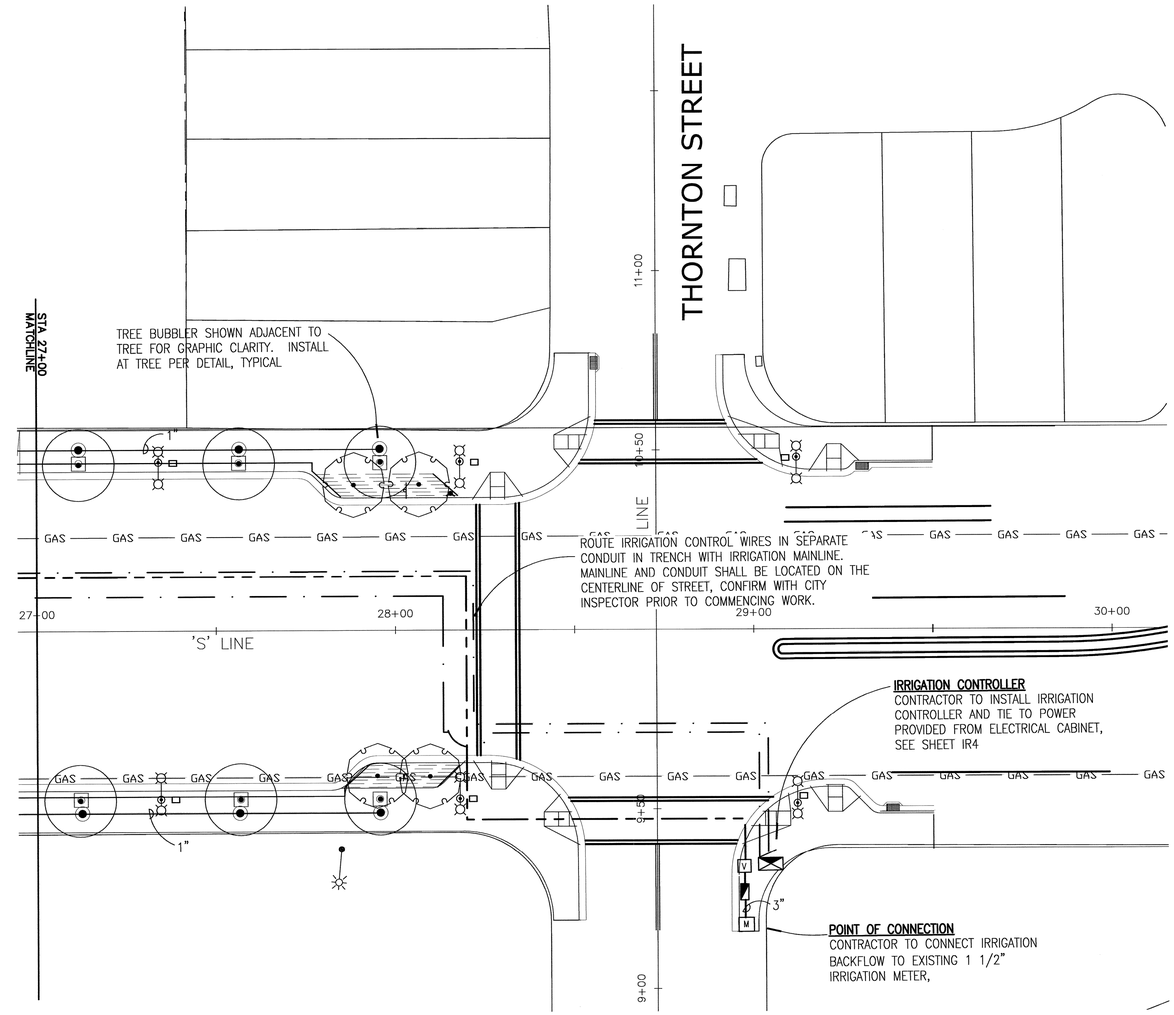
DESIGNED BY _____ DATE _____
DRAWN BY _____ DATE _____
PROJECT MGR. MG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. [illegible] DATE 8/31/12
APPROVED BY: [illegible] DATE 9/9/12
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE

IRRIGATION PLAN, NOTES AND LEGEND
STATION 23+00 TO 27+00

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 64 OF 80
JOB NO. 150-38-331
SCALE 1"= 20'-0"
DWG 3665 CASE 202



SEE SHEET IR-1 FOR IRRIGATION LEGEND

GRAPHIC SCALE

20 0 5 20 10

(IN FEET)
1 inch = 20 ft.

IR-5

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
Signature
12/31/12
Expiration Date
STATE OF CALIFORNIA

GOLDEN associates
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING
4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
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CA lic. #2431

CITY OF SAN LEANDRO
INCORPORATED 1872

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NO.	DATE	REVISION
	5/15/12	PERMIT REVIEW

CITY OF SAN LEANDRO

DESIGNED BY _____ DATE _____
DRAWN BY _____ DATE _____
PROJECT MGR. MA DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. _____ DATE 8/31/12
APPROVED BY: _____ DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE

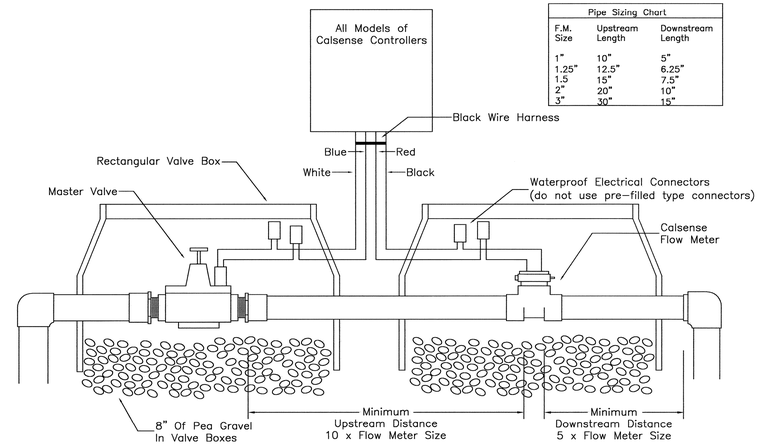
IRRIGATION PLAN, NOTES AND LEGEND
STATION 27+00 TO 30+00

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 65 OF 80
JOB NO. 150-38-331
SCALE 1"= 20'-0"
DWG 3666 CASE 202

INTENTIONALLY BLANK

B

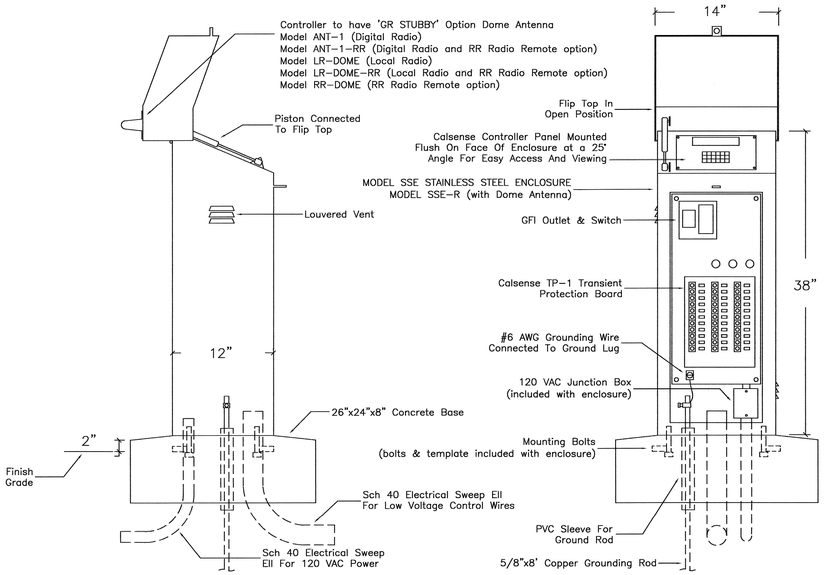


Pipe Sizing Chart		
F.M. Size	Upstream Length	Downstream Length
1"	10"	5"
1.25"	12.5"	6.25"
1.5	15"	7.5"
2"	20"	10"
3"	30"	15"

NOTE:
ALL WIRING MUST MEET CALSENSE REQUIREMENTS TO ENSURE PRODUCT WARRANTY. CONTRACTOR TO APPRAISE HIMSELF OF REQUIREMENT AND COORDINATE WITH CALSENSE REPRESENTATIVE.

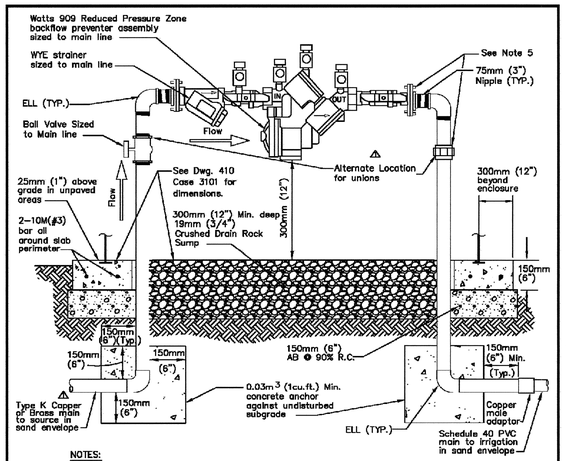
CALSENSE

A FLOW METER AND MASTER VALVE
NOT TO SCALE



C IRRIGATION CONTROLLER ENCLOSURE
NOT TO SCALE

CALSENSE



NOTES:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. All valves, pipes and fittings shall be Type K copper or brass.
3. Concrete shall be 213-C-17 (470-C-2500, 5sk, one inch maximum aggregate, 2500 psi).
4. The backflow preventer devices and installations shall be approved by the E.B.M.U.D. Contractor shall arrange for E.B.M.U.D. testing and approval at contractor's expense.
5. Valve assemblies may have threaded fittings or flanged fittings.
   Flanged fittings shall be used on lines from 38mm to 75mm (2-1/2" to 3") in diameter.
   ⚠ Two unions shall be used on lines up to 50mm (2") in diameter.
6. Assembly shall be located in enclosure as per Dwg. 410 Case 3101.
7. Approved teflon based pipe compound shall be used on all threaded connections.
8. Refer to Irrigation Trench Dwg. 400 Case 3101 for minimum cover, backfill, resurfacing, and other requirements.

ACAD FILE NO. C310104-06 Rev1.dwg

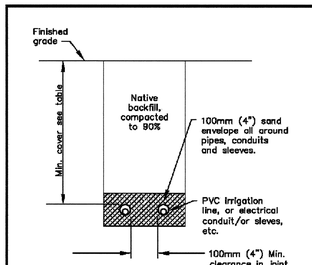
CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY
1	Added notes for union & "or brass" to copper main	10/31/08	AMS

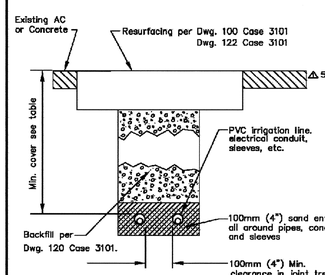
BACKFLOW PREVENTER ASSEMBLY (3 INCHES AND SMALLER)

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34670 Expires 9/30/09

DRAWN GF/ML/WH/VL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 1 OF 1 DWG. NO. 408 CASE 3101



TRENCH DETAIL IN LANDSCAPE AREAS



TRENCH DETAIL UNDER ASPHALT AND CONCRETE IMPROVEMENTS

NOTES:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. All irrigation lines shall pass pressure test prior to backfill.
   (a). Mains: 6 hours @ 860 kPa(125psi min)
   (b). Laterals: 2 hours @ 690 kPa (100 psi) min.
3. Conduits and lines shall be placed in separate 75mm (3") min. or 1 1/2 times pipe size min. Sch. 40 PVC sleeve(s) when under AC or Concrete improvements. Sleeving shall extend from 300mm (12") edge of paving into landscaping area and shall have ends clearly marked above grade and duct seal all ends. Separate sleeve shall be provided for each conduit or line.
4. Where it is necessary to excavate adjacent to existing trees, the contractor shall exercise all possible care to avoid injury to trees and tree roots. Excavation in areas where 50mm (2") and larger roots occur shall be done by hand. Roots 25mm (1") and larger shall be painted with two coats of tree seal, or equal. Trenches adjacent to trees should be closed within twenty-four (24) hours: and where this is not possible, the side of the trench shall be covered with moistened burlap or straw or mulch.
5. All plastic pipe, conduit, or sleeves shall be Schedule 40 or SDR 26 minimum and shall be UL listed if for electrical systems or NSF approved for potable water. A #12 tracing conductor and pull rope shall be installed with all non-electrical or empty plastic pipes or conduits, terminate w/900mm (36") coil in a splice box, Christy F1 or equal. Tracing conductor shall be Type THHN in conduit or Type UF taped 1.5m (5') O.C. on exterior of water pipelines

Minimum Cover

Non-pressurized lines in landscaping	450mm (18")
All conduits and pressurized lines and sleeves in landscaping, sidewalks, parking lots	600mm (24")
All conduits and lines and sleeves Minor & Collector streets	700mm (36")
All conduits and lines and sleeves Arterial streets	1050mm (42")

ACAD FILE NO. C310104-06 Rev1.dwg

CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY
1	ADDED NOTE #5	10/29/08	AMS

IRRIGATION TRENCH

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34670 Expires 9/30/09

DRAWN GF/ML/WH/JL CHECKED KJ/KRC DATE May 2002 SCALE NONE SHEET 1 OF 1 DWG. NO. 400 CASE 3101

IR-6

LICENSED LANDSCAPE ARCHITECT LESLIE B GOLDEN No. 2431 STATE OF CALIFORNIA 8/31/12

GOLDEN associates
LANDSCAPE ARCHITECTURE URBAN DESIGN & PLANNING
4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
f. 510 465 5325
CA lic. #2431

CITY OF SAN LEANDRO INCORPORATED 1872

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NO.	DATE	REVISION

DESIGNED BY _____ DATE _____
DRAWN BY _____ DATE _____
PROJECT MGR. MG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. [illegible] DATE 8/31/12
APPROVED BY: [illegible] DATE 9/27/12
CITY ENGINEER, R.C.E. No. 34670

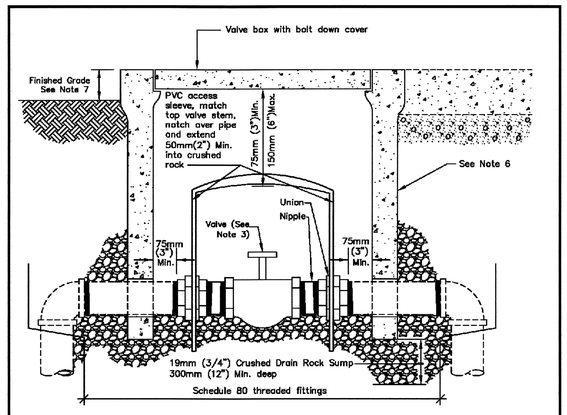
CITY OF SAN LEANDRO

BART-DOWNTOWN PEDESTRIAN INTERFACE

IRRIGATION DETAILS

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 66 OF 80
JOB NO. 150-38-331
SCALE AS NOTED
DWG 3667 CASE 202



NOTES:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. All threaded pipe and fittings shall be Schedule 80 PVC. Solvent welded pipe and fittings shall be Schedule 40 PVC. Approved teflon based pipe compound shall be used on all threaded connections.
3. ⚠ Valve shall be KBI PVC ball valve. One valve system per box, size and type per plans and specifications.
4. Close nipples shall not be used. Union may be integral with valves.
5. Crushed Rock shall cover valve box pipe openings to prevent soil entry.
6. ⚠ Valve box shall be Christy Fibrelyte FL8 box 9"ø min. or approved equal in landscaped areas and Christy reinforced concrete F8 box in paved areas. Traffic rated steel checker plate cover shall be used in parking areas subject to vehicular traffic. Boxes in roadways shall be H/20 rated minimum. All box covers shall be bolt down type and "WATER" or "IRRIGATION" cast in cover as appropriate.
7. Install valve box to match finished grade in turf areas and paved areas and 25mm (1") above grade in other landscape areas. Set valves in ground cover/ shrub areas where possible. Install in turf or paved areas only if ground cover/ shrub areas do not exist. Valve boxes shall be laid out per Dwg. 412 Case 3101.
8. Refer to Irrigation Trench Dwg. 400 Case 3101 for minimum cover, backfill, resurfacing, etc. requirements.

ACAD FILE NO. C310104414 Rev1.dwg

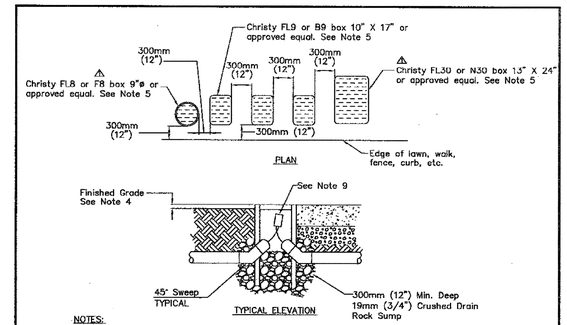
CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY
⚠	Added "one valve" note 2 note 6 rev "F" box to "F8"	10/31/08	AMS

WATER VALVE INSTALLATION

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/09

DRAWN	CHECKED	DATE	SCALE	SHEET	DWG. NO.	CASE
GF/MLWH/JL	KJ/KRC	May 2002	NONE	1 OF 1	414	3101



NOTES:

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2. Center box over valve or conduit risers to facilitate servicing valve or splices.
3. Set boxes parallel to each other and long side of box perpendicular to edge.
4. Install box to match finished grade in turf areas and paved areas and 25mm (1") above grade in other landscape areas. Set valves in ground cover/ shrub areas where possible. Install in turf or paved areas only if ground cover/ shrub areas do not exist. On all slopes install quick couplers perpendicular to face slope.
5. Boxes shall be Christy Fiberlyte box or approved equal in landscaped areas and Christy reinforced concrete in paved areas. Traffic rated steel checker plate cover shall be used in parking areas subject to vehicular traffic. Boxes in roadways shall be H/20 rated minimum. All box covers shall be bolt down type and "WATER", "IRRIGATION" or "ELECTRIC" cast in cover as appropriate.
6. Avoid heavily compacting soil around valve box edges to prevent collapse and deformation of valve box sides.
7. See Dwgs. 414, 416, 418 and 424 for valve installation details.
8. All splices shall occur in splice boxes ONLY.
9. Water proof connectors shall be Spears / Ewing DS 400 Dri-splice pre-filled connectors or approved equal.
10. One connector handles #10 AWG, #12 AWG and #14 AWG wires.
11. Wire connectors will accept three wire or two wire connections.
12. All high voltage splices (greater than 36 volts) shall be per Street Light Splice Detail Dwg. 500D Case 3101.
13. General Concrete Notes Dwg. 104 Case 3101 shall apply.
14. Refer to Irrigation Trench Dwg. 400 Case 3101 for minimum cover, backfill, resurfacing and other requirements.

ACAD FILE: C310104412 Rev1.dwg

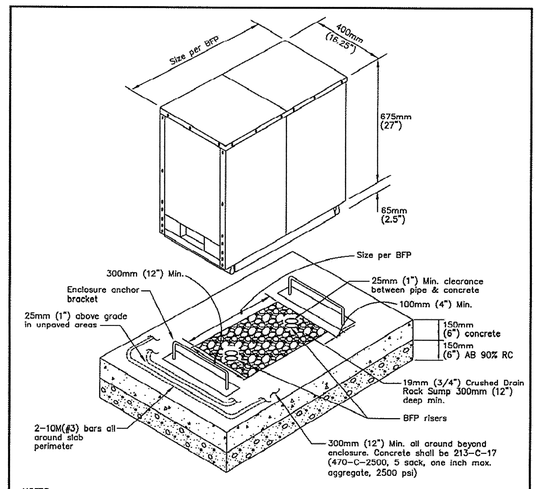
CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE
⚠	Corrected Christy No. on end places	10/31/08

VALVE/PULL/SPLICE BOX INSTALLATION

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/09

DRAWN	CHECKED	DATE	SCALE	SHEET	DWG. NO.	CASE
GF/MLWH/VL	KJ/KRC	May 2002	NONE	1 OF 1	412	3101



NOTES:

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2. Insulated Backflow Preventer Enclosure shall be Strong Box Model SBBC-ALI by V.I.T. Products, Inc., 1-800-729-1314, or approved equal, sized per backflow preventer. 50mm (2") min. clear top and 100mm (4") min. clear all sides between enclosure and any pipe or fittings. Field measure for verification prior to ordering enclosure.
3. Refer to Backflow Preventer Assembly Dwg. 408 Case 3101.
4. General Concrete Notes Dwg. 104 Case 3101 shall apply.

ACAD FILE NO. C310104410.dwg

CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE

BACKFLOW PREVENTER ENCLOSURE

APPROVED: 6/27/02 Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/03

DRAWN	CHECKED	DATE	SCALE	SHEET	DWG. NO.	CASE
GF/MLWH/VL	KJ/KRC	May 2002	NONE	1 OF 1	410	3101

IR-7

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
Signature
12/31/12
Expiration Date
STATE OF CALIFORNIA

LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING

GOLDEN associates

4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
f. 510 465 5325
CA lic. #2431

CITY OF SAN LEANDRO
INCORPORATED 1872

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NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY		DATE
DRAWN BY		DATE
PROJECT MGR.	MW	DATE 8/31/12
TRANS ADMIN.	KLC	DATE 8/31/12
SENIOR ENGR.		DATE 8/31/12
APPROVED BY:		DATE 9/4/12

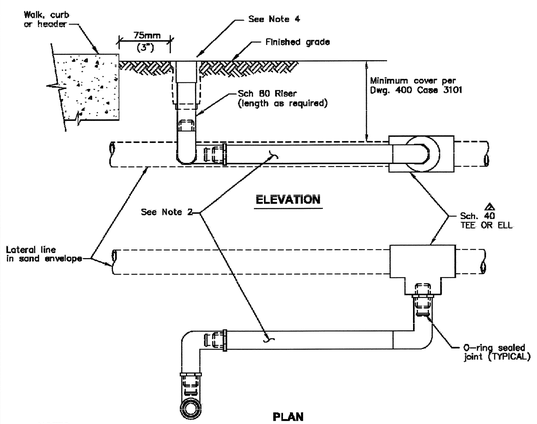
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE

IRRIGATION DETAILS

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 67 OF 80
JOB NO. 150-38-331
SCALE AS NOTED
DWG 3668 CASE 202



NOTES:

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2. Swing joint assembly shall be a pre-fabricated unit constructed of schedule 80 PVC, utilizing neoprene o-ring sealed joints as manufactured by KBI, Spears, or Lasco; or approved equal.
3. All threaded pipe and fittings shall be Schedule 80 PVC except tee or ell to swing joint Solvent welded pipe and fittings shall be Schedule 40 PVC. Approved teflon based compound shall be used on all threaded connections.
4. Sprinkler heads shall be per plans and specifications. Toro 570 Series Pop-ups 12", 6", and 4";
   Toro 514-20 Series Bubblers; Toro 640 or 2001 Series Stainless Steel for large turf areas; Toro Super 700 Series for small turf areas. All sprinkler heads shall have Check-O-Matics.
5. Top of sprinkler head shall match finished grade.
6. Refer to Irrigation Trench Dwg. 400 Case 3101 for minimum cover, backfill, resurfacing, and other requirements.

ACAD FILE NO. C3101D420 Rev2.dwg

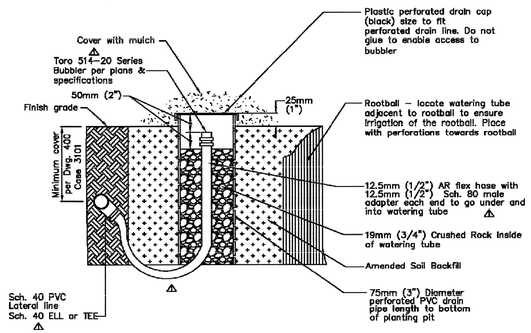
CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY
1	REVISED TO PRE-FAB SWING JOINT ASSEMBLY	6/30/04	AMS
2	Tee & Ell to Sch. 40	10/31/06	AMS
3	Tee & Ell to Sch. 40	10/31/08	AMS

SWING JOINT IRRIGATION SPRINKLER HEAD

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/09

DRAWN GF/MLWH/JL | CHECKED KJ/KRC | DATE June 2002 | SCALE NONE | SHEET 1 of 1 | DWG. NO. 420 | CASE. 3101



NOTES:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. A check valve shall be installed at all heads subject to lateral line drainage (Flow Control or approved equal).
3. Approved teflon based pipe compund shall be used on all treaded connections.
4. Install flood bubblers on uphill side of plant.
5. Adjust flow to suit species water requirements and soil conditions.

ACAD FILE: C3101D422 Rev1.dwg

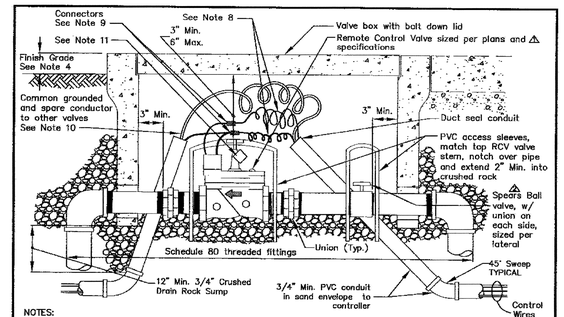
CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY
1	Add 514-20, Rev Sch. 40	10/31/08	AMS
	Rev pipe direction.		
	Changed "dru" to "under"		

IRRIGATION BUBBLER IN DEEP WATERING TUBE

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/09

DRAWN GF/MLWH/JL | CHECKED KJ/KRC | DATE May 2002 | SCALE NONE | SHEET 1 OF 1 | DWG. NO. 422 | CASE. 3101



NOTES:

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2. All threaded pipe and fittings shall be Schedule 80 PVC. Solvent welded pipe and fittings shall be Schedule 40 PVC. Approved teflon based pipe compound shall be used on all threaded connections.
3. Remote control valve for 24 volts system shall be Toro P220-27 Brass valve w/side inlet outlet series.
4. RCV's for solar powered systems only, shall be Griswold 2000 series and shall have their 24 volt solenoids replaced with LEMA 1527 S series Micropower Actuators. Refer to Solar Energized Irrigation Controller Dwg.406 Case 3101
5. Install valve box to match finished grade in turf areas and paved areas and 1" above grade in other landscaped areas. Set valve boxes in ground cover/shrub areas where possible. Install in turf or paved areas only if ground cover/shrub areas do not exist. Valve boxes shall be laid out per Dwg. 412 Case 3101.
6. Valve box shall be Christy Fiberlyte FL30 box 13" X 24" min. or approved equal in landscaped areas and Christy reinforced concrete N30 box in paved areas. Traffic rated steel checker plate cover shall be used in parking areas subject to vehicular traffic. Boxes in roadways shall be H/20 rated minimum. All box covers shall be bolt down type and "IRRIGATION" cast in cover.
7. Close nipples shall not be used. Unions may be integral with valves.
8. Crushed Rock shall cover valve box pipe openings to prevent soil entry.
9. Provide 36" of excess wire in 1" diameter coil for each conductor.
10. Water proof connectors shall be Spears or Ewing DS 400 Dri-splice connectors or approved equal.
11. The color of low voltage conductor insulation shall be homogeneous throughout the entire thickness of the insulation. Each RCV shall have a white #12 min. common grounded (neutral) conductor and a #14 min. THW, or THWN control conductor with a unique color for each station. Include a pull rope and one spare conductor to each RCV location. Each conductor shall be identified with adhesive wrap around marker with clear heat shrinkable sleeves sealed over marker. All control wires shall be installed in conduit -- direct burial prohibited.
12. Each valve shall be tagged by the appropriate letters and numbers to identify controller and station number. The labels shall be a minimum of 2"x3"x1/8" thick neatly trimmed into rectangular shape. The letters and numbers shall be integrally molded or heat embossed on an ultraviolet light resistant polyurethane tag. The letters and numbers shall be black on yellow polyurethane a minimum of 1" high.
13. Refer to Irrigation Trench Dwg. 400 Case 3101 for minimum cover, backfill, resurfacing, and other requirements.

ACAD FILE NO. C3101D418 Rev2.dwg

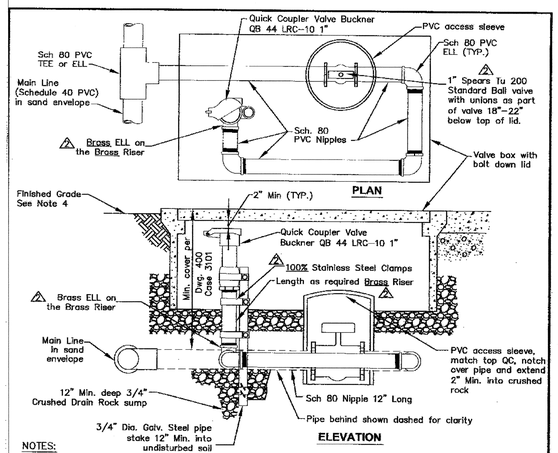
CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY
1	Rev note 3,	7/12/12	AO
	removed all metric dims.	7/12/12	AMS

REMOTE CONTROL VALVE

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/13

DRAWN GF/MLWH/JL | CHECKED KJ/KRC | DATE May 2002 | SCALE NONE | SHEET 1 OF 1 | DWG. NO. 418 | CASE. 3101



NOTES:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. All threaded pipe and fittings shall be 1" Schedule 80 PVC except Brass riser, and its ELL. Approved teflon based pipe compound shall be used on all threaded connections.
3. Quick coupler valves shall be isolated from main line by ball valve as shown, one valve system per box.
4. Install valve box to match finished grade in turf areas and paved areas and 1" above grade in other landscaped areas. Set valve boxes in ground cover/shrub areas where possible. Install in turf or paved areas only if ground cover/shrub areas do not exist. Valve boxes shall be laid out per Dwg. 412 Case 3101. On all slopes install quick couplers perpendicular to face of slope.
5. Valve box shall be Christy Fiberlyte FL9 box 10"X17" min. or approved equal in landscaped areas and Christy reinforced concrete B9 box in paved areas. Traffic rated steel checker plate cover shall be used in parking areas subject to vehicular traffic. Boxes in roadways shall be H/20 rated minimum. All box covers shall be bolt down type and "IRRIGATION" cast in cover.
6. Provide one QB 44K-10 Coupler Key per QC installed.
7. Close nipples shall not be used. Unions may be integral with ball valve.
8. Crushed Rock shall cover valve box openings to prevent soil entry.
9. Refer to Irrigation Trench Dwg. 400 Case 3101 for minimum cover, backfill, resurface, and other requirements.

ACAD FILE NO. C3101D416 Rev2.dwg

CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY
1	Multiple Rev. see drawing.	7/6/12	AO
	Removed metric dimensions	7/6/12	AMS

QUICK COUPLER VALVE WITH BALL VALVE

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/13

DRAWN GF/MLWH/JL | CHECKED KJ/KRC | DATE May 2002 | SCALE NONE | SHEET 1 OF 1 | DWG. NO. 416 | CASE. 3101

IR-8

LICENSED LANDSCAPE ARCHITECT — LESLIE B GOLDEN — No. 2431 — 10/31/12 Date — STATE OF CALIFORNIA

GOLDEN associates — LANDSCAPE ARCHITECTURE URBAN DESIGN & PLANNING — 4400 MARKET STREET, OAKLAND, CA 94608 — t. 510 465 4030 — f. 510 465 5325 — CA lic. #2431

CITY OF SAN LEANDRO — INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY _____ DATE _____
DRAWN BY _____ DATE _____
PROJECT MGR. MCA DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. DATE 8/31/12
APPROVED BY: DATE 9/14/12
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE

IRRIGATION DETAILS

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 68 OF 80
JOB NO. 150-38-331
SCALE AS NOTED
DWG 3669 CASE 202

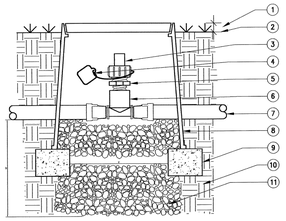
G FLUSH VALVE

NOT TO SCALE

LEGEND

1. 1" ABOVE FINISH GRADE.
2. FINISH GRADE.
3. TORO DL2000 FLUSH VALVE (FCH-H-FIPT).
4. ID TAG
5. PVC SCH 40 REDUCING NIPPLE, 3/4"-1/2" (TxT).
6. TORO LOC-EZE X 1/2" FPT TEE (FTF16).
7. TORO DL2000 TUBING (DG-XX-XXX) OR TORO BLANK POLY TUBING (EHD1645-XXX) PER PLAN.
8. 6" ROUND PLASTIC VALVE BOX. HEAT BRAND "FV" ON LID IN 1" HIGH CHARACTERS.
9. BRICK SUPPORTS (2 COMMON BRICKS REQUIRED).
10. NATIVE SOIL PER SPECIFICATIONS.
11. PEA GRAVEL SUMP (6" x 18").

NOTE:
USE ONE FLUSH VALVE FOR EVERY 7 GPM PER ZONE OR AT EACH END OF SYSTEM. LOCATE AT LOW POINTS. FLUSH RATE IS 0.8 GPM. FLUSH PRESSURE IS 2 PSI. WHERE USED IN SMALL PLANTER AT PASEO, USE 3" BOX. REFER TO TORO PUBLICATION #ALT111 FOR SPECIFICATIONS.



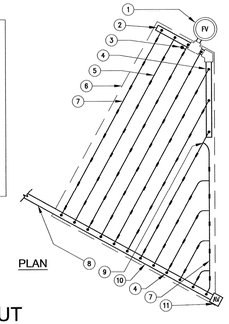
SECTION / ELEVATION

C TRIANGULAR DRIP TUBE LAYOUT

NOT TO SCALE

LEGEND

1. TORO DL2000 AUTOMATIC FLUSH VALVE (FCH-H-FIPT) PLUMBED TO FLUSH MANIFOLD AT LOW POINT.
2. PVC FLUSH MANIFOLD.
3. TORO DL2000 OPERATION INDICATOR (DL-MP9).
4. TORO DL2000 MANIFOLD-TO-ELBOW CONNECTION (TYP).
5. TORO DL2000 DRIPLINE LATERAL PER PLAN.
6. AREA PERIMETER.
7. PERIMETER LATERALS 2" TO 4" FROM EDGE.
8. PVC LATERAL LINE FROM DRIP ZONE KIT.
9. TORO LOC-EZE TEE (FTT16).
10. PVC SUPPLY MANIFOLD.
11. TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34) PLUMBED TO SUPPLY MANIFOLD AT HIGH POINT.



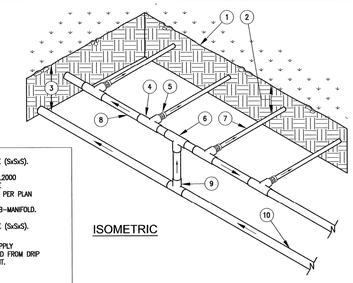
PLAN

A SUBMANIFOLD END FEED

NOT TO SCALE

LEGEND

1. FINISH GRADE.
2. DEPTH OF TUBING PER IRRIGATION LEGEND
3. DEPTH OF PVC SUPPLY MANIFOLD PER SPECIFICATIONS.
4. PVC TEE (SxSxT).
5. TORO LOC-EZE X 1/2" MPT ADAPTER (FAM16).
6. PVC TEE (SxSxS).
7. TORO DL2000 DRIPLINE LATERAL PER PLAN
8. PVC SUB-MANIFOLD.
9. PVC TEE (SxSxS).
10. PVC SUPPLY MANIFOLD FROM DRIP ZONE KIT.



ISOMETRIC

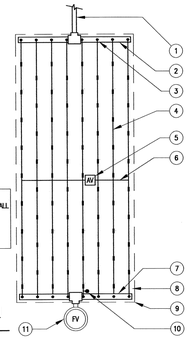
H END FEED

NOT TO SCALE

LEGEND

1. PVC LATERAL LINE FROM DRIP ZONE KIT.
2. PVC SUPPLY MANIFOLD.
3. TORO DL2000 MANIFOLD-TO-ELBOW CONNECTION (TYP).
4. TORO DL2000 DRIPLINE LATERAL PER PLAN.
5. TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34) PLUMBED TO TORO POLY TUBING (EHD1645-XXX) AT EACH HIGH POINT.
6. AIR/VACUUM RELIEF LATERAL, TORO POLY TUBING (EHD1645-XXX) CENTERED ON MOUND OR BERM.
7. PVC FLUSH MANIFOLD.
8. PERIMETER LATERALS 2" TO 4" FROM EDGE.
9. AREA PERIMETER.
10. TORO DL2000 OPERATION INDICATOR (DL-MP9).
11. TORO DL2000 AUTOMATIC FLUSH VALVE (FCH-H-FIPT) PLUMBED TO FLUSH MANIFOLD AT LOW POINT.

NOTE:
THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE SHALL NOT EXCEED THE MAXIMUM RUN LENGTH. SEE TORO SUBSURFACE IRRIGATION DESIGN GUIDE (FORM #ALT111).



PLAN

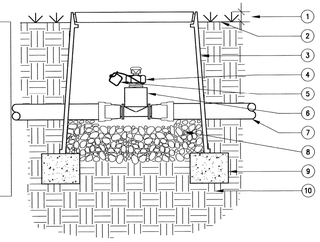
D AIR VACUUM VALVE

NOT TO SCALE

LEGEND

1. 1" ABOVE FINISH GRADE.
2. FINISH GRADE.
3. 6" ROUND, 3" IN SMALL RAISED PLANTERS. PLASTIC VALVE BOX.
4. TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34).
5. ID TAG
6. TORO LOC-EZE X 1/2" FPT TEE (FTF16).
7. TORO DL2000 OR TORO BLUE STRIPE POLY TUBING PER PLAN (EHD1645-XXX) AIR-RELIEF LATERAL.
8. PEA GRAVEL SUMP (6" DEEP).
9. BRICK SUPPORTS (2 COMMON BRICKS REQUIRED).
10. NATIVE SOIL PER SPECIFICATIONS.

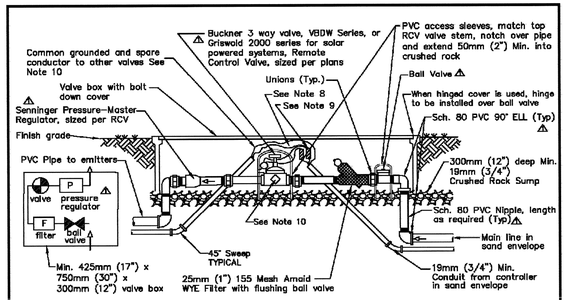
NOTE:
USE ONE AIR/RELIEF VALVE FOR EVERY 7 GPM PER ZONE. LOCATE AT HIGH POINTS. REFER TO TORO PUBLICATION #ALT111 FOR SPECIFICATIONS.



SECTION / ELEVATION

B LOW VOLUME REMOTE CONTROL VALVE

NOT TO SCALE



NOTES:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. All threaded pipe and fittings shall be Schedule 80 PVC. Solvent welded pipe and fittings shall be Schedule 40 PVC. Approved teflon based pipe compound shall be used on all threaded connections.
3. Contractor shall install all elements in a single valve box. Align WYE filter to permit periodic insertion of soluble fertilizer tablets.
4. Install valve box to match finished grade in turf areas and paved areas and 25mm (1") above grade in other landscaped areas. Set valve boxes in ground cover/shrub areas where possible. Install in turf or paved areas only if ground cover/shrub areas do not exist. Valve boxes shall be laid out per Dwg. 412 Case 3101.
5. Valve box shall be Christy Fiberlyte FL36 box 17" X 30" or approved equal in landscaped areas and Christy reinforced concrete B36 box in paved areas. Traffic rated steel checker plate cover shall be used in parking areas subject to vehicular traffic. Boxes in roadways shall be H/20 rated minimum. All box covers shall be bolt down type and "IRRIGATION" cast in cover.
6. Close nipples shall not be used. Unions may be integral with valves.
7. Crushed Rock shall cover valve box pipe openings to prevent soil entry.
8. Provide 900mm (36") of excess wire in 25mm (1") diameter coil for each conductor.
9. Water proof connectors shall be Spears or Ewing DS 400 Dri-splice connectors or approved equal.
10. The color of low voltage conductor insulation shall be homogeneous throughout the entire thickness of the insulation. Each RCV shall have a white color #12 min. common grounded (neutral) conductor and a #14 min. THW or THWN control conductor with a unique color for each station. Include one spare conductor to each RCV location. Each conductor shall be identified with adhesive wrap around marker with clear heat shrinkable sleeves sealed over marker. All control wires shall be installed in conduit – **direct burial prohibited**
11. Each valve shall be tagged by the appropriate letters and numbers to identify controller and station number. The labels shall be a minimum of 50mm x 75mm x 3mm (2"x3"x1/8") thick neatly trimmed into rectangular shape. The letters and numbers shall be integrally molded or heat embossed on an ultraviolet light resistant polyurethane tag. The letters and numbers shall be black on yellow polyurethane a minimum of 25mm (1") high.
12. Refer to Irrigation Trench Dwg. 400 Case 3101 for minimum cover, backfill, resurfacing and other requirements.

ACAD FILE NO. C3103D424 Rev1.dwg

CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	BY
1	Added "Buckner" note Added "Senninger" note Add pressure reg. & "Tip"	10/31/08	AMS

DRIP REMOTE CONTROL VALVE

APPROVED: Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/09

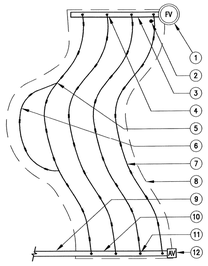
DRAWN	CHECKED	DATE	SCALE	SHEET	DWG. NO.	CASE
GF/MLWH/BV	KJ/KRC	May 2002	NONE	1 OF 1	424	3101

I ODD CURVE LAYOUT

NOT TO SCALE

LEGEND

1. TORO DL2000 AUTOMATIC FLUSH VALVE (FCH-H-FIPT) PLUMBED TO FLUSH MANIFOLD AT LOW POINT.
2. TORO DL2000 OPERATION INDICATOR (DL-MP9)
3. PVC FLUSH MANIFOLD.
4. TORO DL2000 MANIFOLD-TO-ELBOW CONNECTION (TYP).
5. TORO LOC-EZE TEE (FTT16).
6. PERIMETER LATERALS 2" TO 4" FROM EDGE.
7. TORO DL2000 DRIPLINE LATERAL PER PLAN
8. AREA PERIMETER.
9. PVC LATERAL LINE FROM DRIP ZONE KIT.
10. PVC SUPPLY MANIFOLD.
11. TORO DL2000 MANIFOLD-TO-ELL CONNECTION.
12. TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34) PLUMBED TO SUPPLY MANIFOLD AT HIGH POINT.



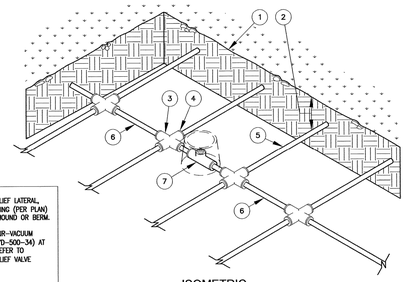
PLAN

E AIR VACUUM RELIEF LATERAL

NOT TO SCALE

LEGEND

1. FINISH GRADE.
2. DEPTH OF TUBING PER LEGEND
3. PVC CROSS (SxSxSxS).
4. TORO DL2000 COMPRESSION ADAPTER (CA-710).
5. TORO DL2000 DRIPLINE LATERAL PER PLAN
6. AIR/VACUUM RELIEF LATERAL, TORO POLY TUBING (PER PLAN) CENTERED ON MOUND OR BERM.
7. TORO DL2000 AIR-VACUUM RELIEF VALVE (YD-500-34) AT HIGH POINT. REFER TO AIR/VACUUM RELIEF VALVE DETAILS.



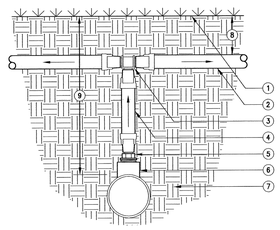
ISOMETRIC

F MANIFOLD TEE CONNECTION

NOT TO SCALE

LEGEND

1. FINISH GRADE.
2. TORO DL2000 DRIPLINE LATERAL PER PLAN.
3. TORO LOC-EZE TEE (FTT16).
4. TORO POLY TUBING (EHD1645-XXX).
5. TORO LOC-EZE X 1/2" MPT ADAPTER (FAM16).
6. PVC TEE (SxSxT) WITH 1/2" FPT OUTLET.
7. NATIVE SOIL BACKFILL PER SPECIFICATIONS.
8. DEPTH OF TUBING 5"
9. DEPTH OF PVC SUPPLY LINE PER LEGEND



SECTION/ELEVATION

IR-9

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
Signature
12/31/12
Renewal Date
8/3/12
Date
STATE OF CALIFORNIA

GOLDEN associates
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING
4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
f. 510 465 5325
CA lic. #2431

CITY OF SAN LEANDRO
INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY		DATE
DRAWN BY		DATE
PROJECT MGR.	MG	DATE 8/31/12
TRANS ADMIN.	RLC	DATE 8/31/12
SENIOR ENGR.		DATE 8/31/12
APPROVED BY:		DATE 9/6/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE

IRRIGATION DETAILS

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 69 OF 80

JOB NO. 150-38-331

SCALE AS NOTED

DWG 3670 CASE 202

PLANTING NOTES

ALL WORK SHALL BE PERFORMED BY PERSONS FAMILIAR WITH PLANTING WORK AND UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN WITH MINIMUM 5 YEARS EXPERIENCE.

ALL LANDSCAPE PLANS SHALL CONFORM TO THE LANDSCAPE GUIDELINES, APPLICABLE CODES, ORDINANCES AND LAWS OF THE CITY OF SAN LEANDRO.

CONTRACTOR TO VERIFY ALL SITE CONDITIONS AND UTILITY LOCATIONS PRIOR TO COMMENCING WORK.

ALL PLANTS TO BE OF THE FINEST QUALITY AND FREE OF DISEASE OR DAMAGE. TREE LEADER SHALL NOT BE HEADED.

PLANT COUNT IS FOR THE CONVENIENCE OF THE CONTRACTOR. IN CASE OF DISCREPANCIES, THE PLAN SHALL GOVERN.

CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR OBSERVATIONS OF LANDSCAPE AND IRRIGATION – SEE SPECS.

PLANT MATERIAL LOCATIONS SHOWN ARE DIAGRAMMATIC AND MAY BE SUBJECT TO CHANGE IN THE FIELD BY OWNER'S REPRESENTATIVE. PLANT LOCATIONS ARE TO BE ADJUSTED IN THE FIELD AS NECESSARY TO SCREEN UTILITIES BUT NOT TO BLOCK SIGNS OR IMPEDE ACCESS.

THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO MAKE SUBSTITUTIONS, ADDITIONS, AND DELETIONS IN THE PLANTING SCHEME AS THEY FEEL NECESSARY WHILE WORK IS IN PROGRESS. SUCH CHANGES ARE TO BE ACCOMPANIED BY EQUITABLE ADJUSTMENTS IN THE CONTRACT PRICE IF/WHEN NECESSARY.

ALL TREES ARE TO BE STAKED PER DETAILS. BRANCHING HEIGHT OF TREES SHALL BE A 6'–0" MINIMUM ABOVE FINISH GRADE.

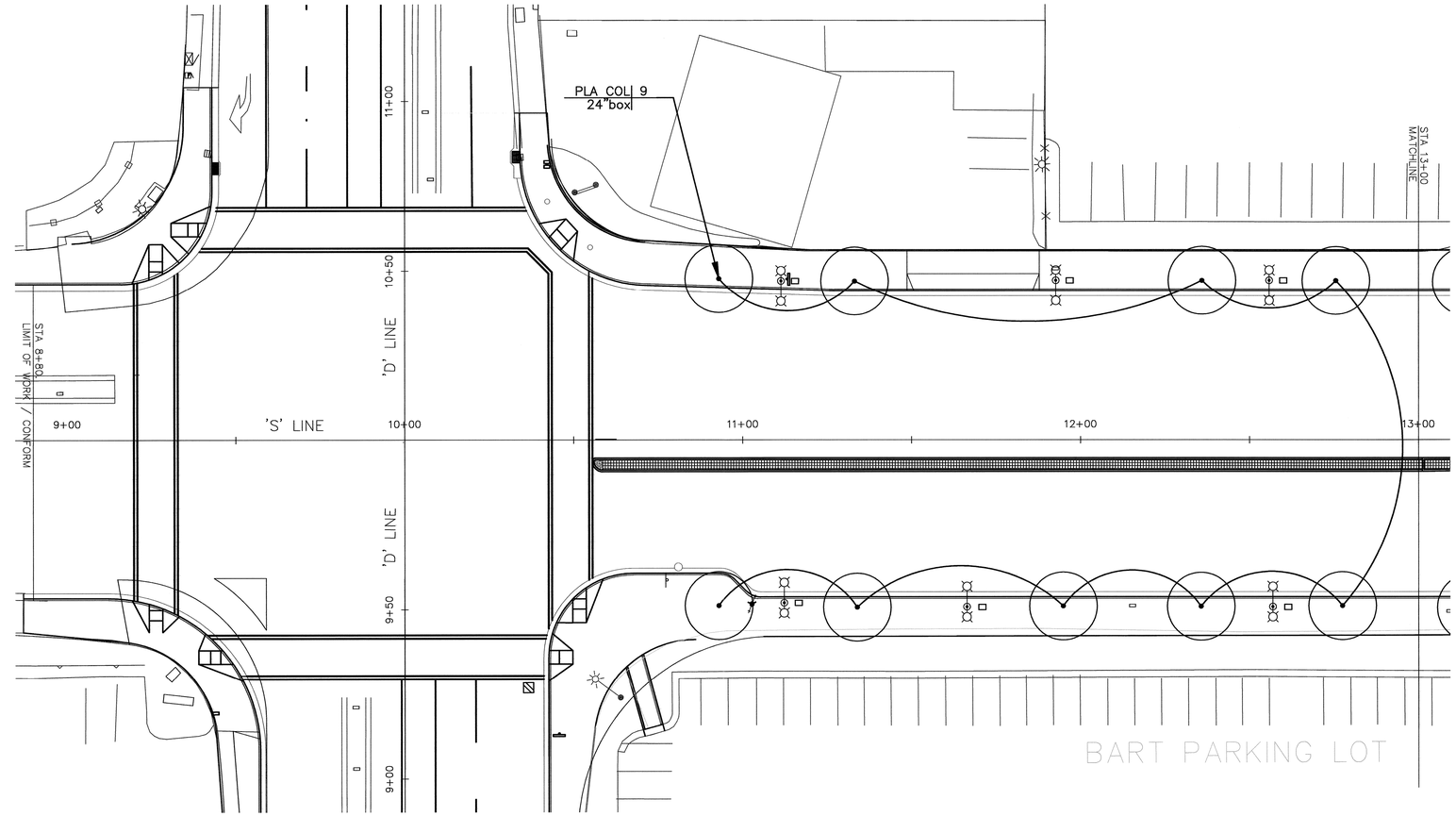
PLANT TREES 3'–0" MINIMUM FROM FACE OF CURB.

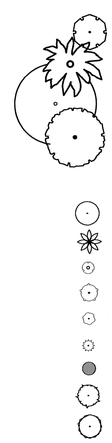
ALL PLANTING AREAS SHALL BE TOP–DRESSED WITH 3 INCH LAYER OF MULCH. SEE SPECIFICATIONS.

TREES MUST HAVE AN UNCUT LEADER THAT HAS A UNIFORM TAPER FROM BASE TO TIP. TREES MUST MEET AT LEAST NORMAL CALIPER AND HEIGHT FOR CONTAINER SIZE. OVERGROWN OR ROOT BOUND TREES ARE NOT ACCEPTABLE.

GROUND COVER SHALL BE PLANTED AS SHOWN ON THE GROUND COVER SPACING DETAIL.

THE DESIGN INTENT OF THE PLANTING PLAN IS TO ESTABLISH AN ATTRACTIVE LANDSCAPE APPEARANCE. FUTURE PLANT GROWTH WILL NECESSITATE TRIMMING, SHAPING, AND IN SOME CASES REMOVAL OF PLANTINGS AS AN ONGOING MAINTENANCE PROCEDURE. NOTE THAT PLANTS SHOULD NOT BE PRUNED INTO INDIVIDUAL BALLS OR SQUARE SHAPED TOPIARY.





PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME / COMMON NAME	SIZE
LAG IND	16	LAGERSTROEMIA INDICA / CRAPE MYRTLE	24"BOX
PHO MED	11	PHOENIX DACTYLIFERA 'MEDJOOL' / DATE PALM MALE VARIETY ONLY –– CONTRACTOR TO SUBMIT NOTORIZED CERTIFICATION OF VARIETY FROM SUPPLIER	15 FT TRUNK HEIGHT
PLA COL	36	PLATANUS X ACERIFOLIA 'COLUMBIA' / LONDON PLANE TREE	24"BOX
PYR ARI	36	PYRUS CALLERYANA 'ARISTOCRAT' TM / ARISTOCRAT FLOWERING PEAR	24"BOX
SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	CONT
ARC EME	60	ARCTOSTAPHYLOS UVA–URSI 'EMERALD CARPET' / EMERALD CARPET MANZANITA	5 GAL
DIE VEG	58	DIETES VEGETA / AFRICAN IRIS	5 GAL
EPI TRU	258	EPILOBIUM CANUM 'HURRICANE POINT' / CALIFORNIA FUCHSIA	5 GAL
ERI PRO	249	ERIGERON KARVINSKIANUS 'PROFUSION' / SANTA BARBARA DAISY	5 GAL
IRI HA2	177	IRIS DOUGLASIANA 'HARLAND HAND' / DOUGLAS IRIS	5 GAL
JUN ELK	235	JUNCUS PATENS 'ELK BLUE' / SPREADING RUSH	5 GAL
LAV OTT	528	LAVANDULA STOECHAS 'OTTO QUAST' / SPANISH LAVENDER	1 GAL
MUH AUT	205	MUHLENBERGIA LINDHEIMERI 'AUTUMN GLOW' TM / LINDHEIMER'S MUHLY	5 GAL
ROS BO3	57	ROSA MEIDILAND SERIES 'BONICA' / BONICA MEIDILAND ROSE	5 GAL

PL1

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
Expiration Date 12/31/12
8/30/12
Date
STATE OF CALIFORNIA

LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING
GOLDEN associates
4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
f. 510 465 5325
CA lic. #2431

CITY OF SAN LEANDRO
INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

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NO.	DATE	REVISION
	5/15/12	PERMIT REVIEW

CITY OF SAN LEANDRO

DESIGNED BY	LG,LB	DATE 1/31/12
DRAWN BY	LB	DATE 1/31/12
PROJECT MGR.	MJG	DATE 8/31/12
TRANS ADMIN.	RJC	DATE 8/31/12
SENIOR ENGR.	J.	DATE 8/31/12
APPROVED BY:		DATE 9/4/12

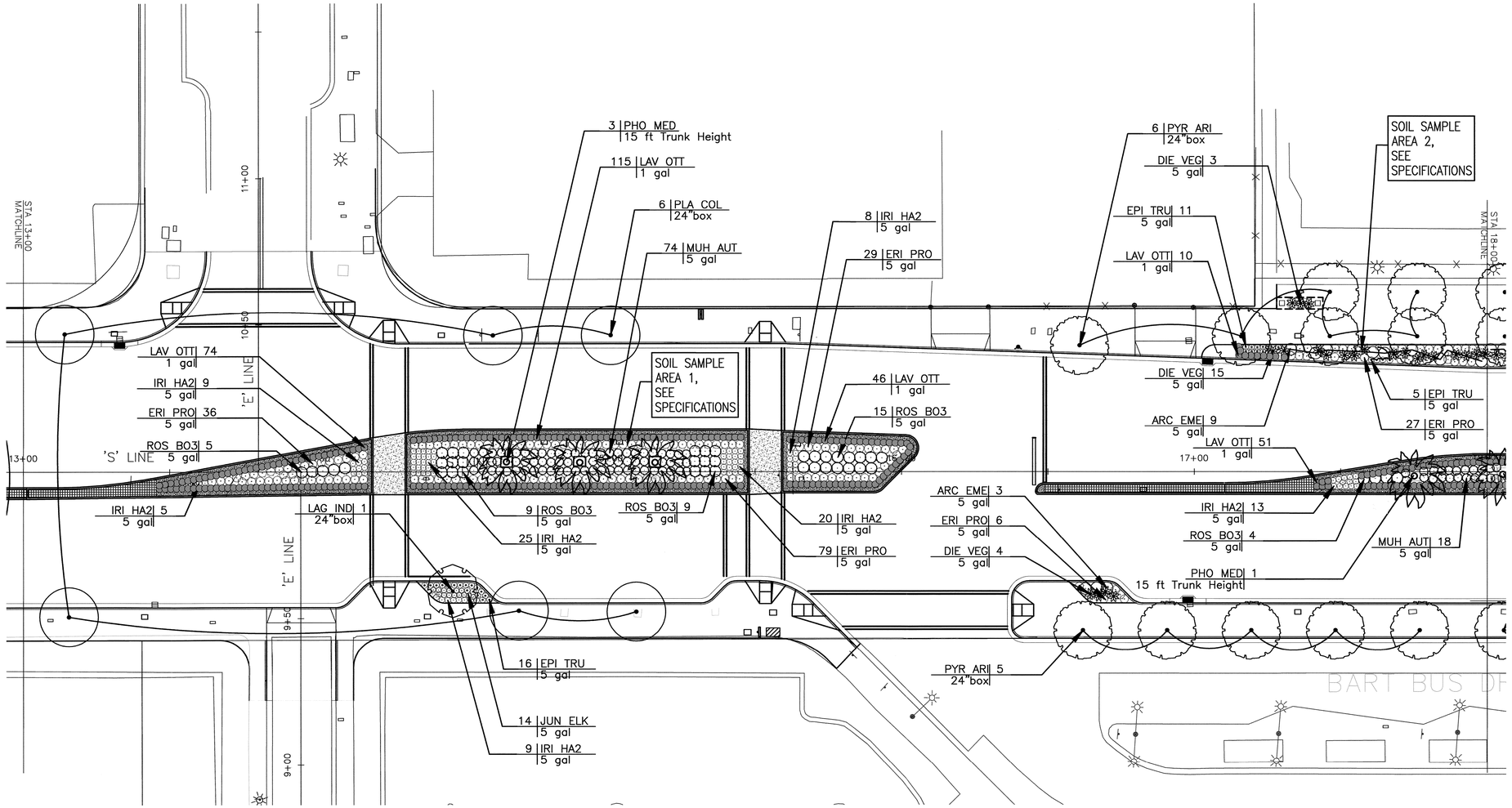
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE

PLANTING PLAN, NOTES AND LEGEND
STATION 8+50 TO 13+00

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 70 OF 80
JOB NO. 150–38–331
SCALE 1" = 20'
DWG 3671 CASE 202



SEE SHEET PL1 FOR PLANTING SYMBOLS AND SCHEDULE

PL2

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
Signature
12/31/12
Expiration Date
8/31/12
Date
STATE OF CALIFORNIA

GOLDEN associates
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING
4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
f. 510 465 5325
CA lic. #2431

CITY OF SAN LEANDRO
INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION
	5/15/12	PERMIT REVIEW

CITY OF SAN LEANDRO

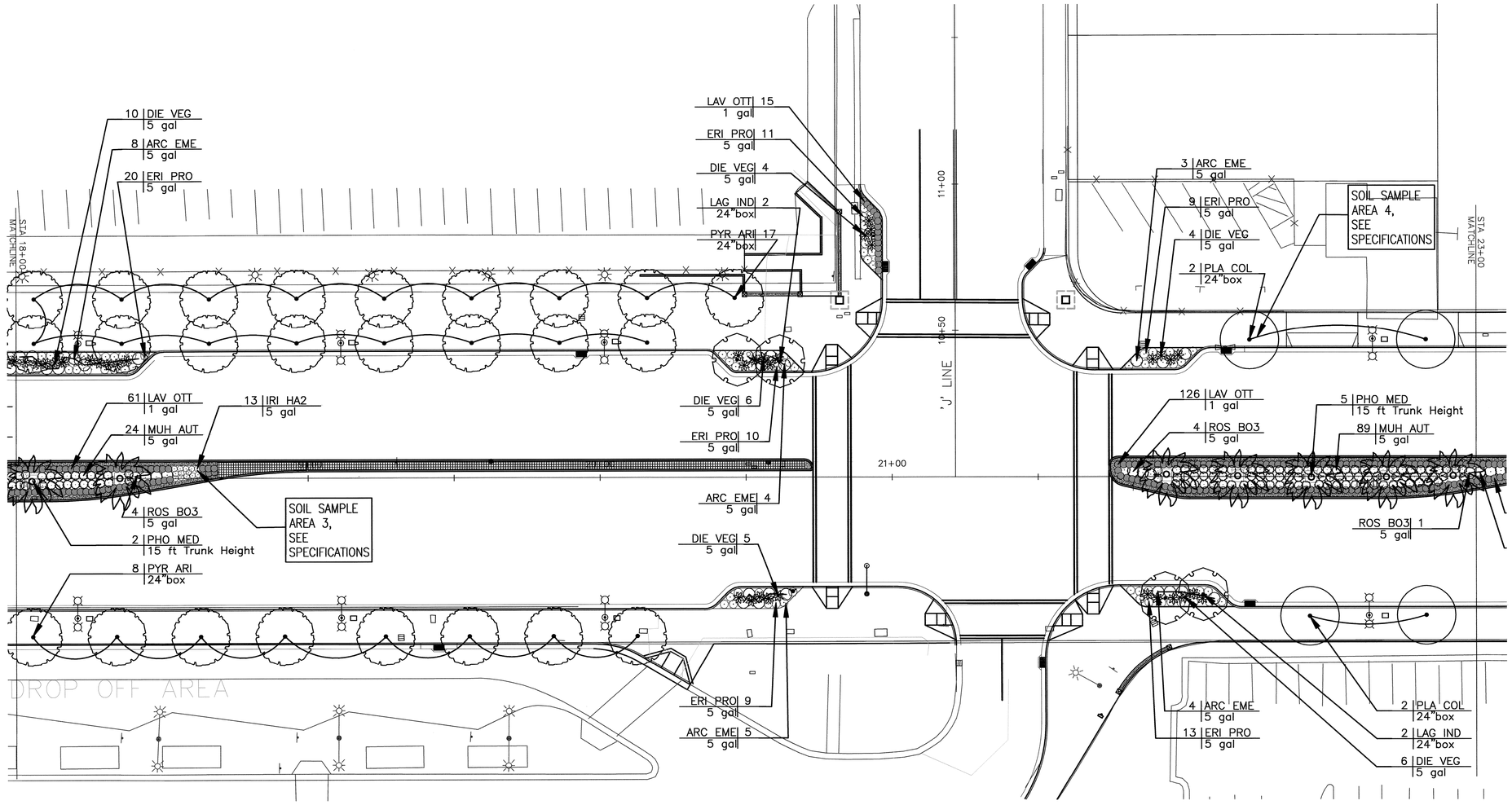
DESIGNED BY LG LB DATE 1/31/12
DRAWN BY LB DATE 1/31/12
PROJECT MGR. MJG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. DATE 8/31/12
APPROVED BY: DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE

PLANTING PLAN
STATION 13+00 TO 18+00

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 71 OF 80
JOB NO. 150-38-331
SCALE 1" = 20'
DWG 3672 CASE 202



SEE SHEET PL1 FOR PLANTING SYMBOLS AND SCHEDULE

PL3

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
Expiration Date 12/31/12
Signature
Date 8/31/12
STATE OF CALIFORNIA

LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING

GOLDEN associates
4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
f. 510 465 5325
CA lic. #2431

CITY OF SAN LEANDRO
INCORPORATED 1872

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NO.	DATE	REVISION
	5/15/12	PERMIT REVIEW

DESIGNED BY I.G.I.B. DATE 1/31/12
DRAWN BY I.B. DATE 1/31/12
PROJECT MGR. M.K. DATE 8/31/12
TRANS ADMIN. R.L.C. DATE 8/31/12
SENIOR ENGR. J.J. DATE 8/31/12
APPROVED BY: DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870

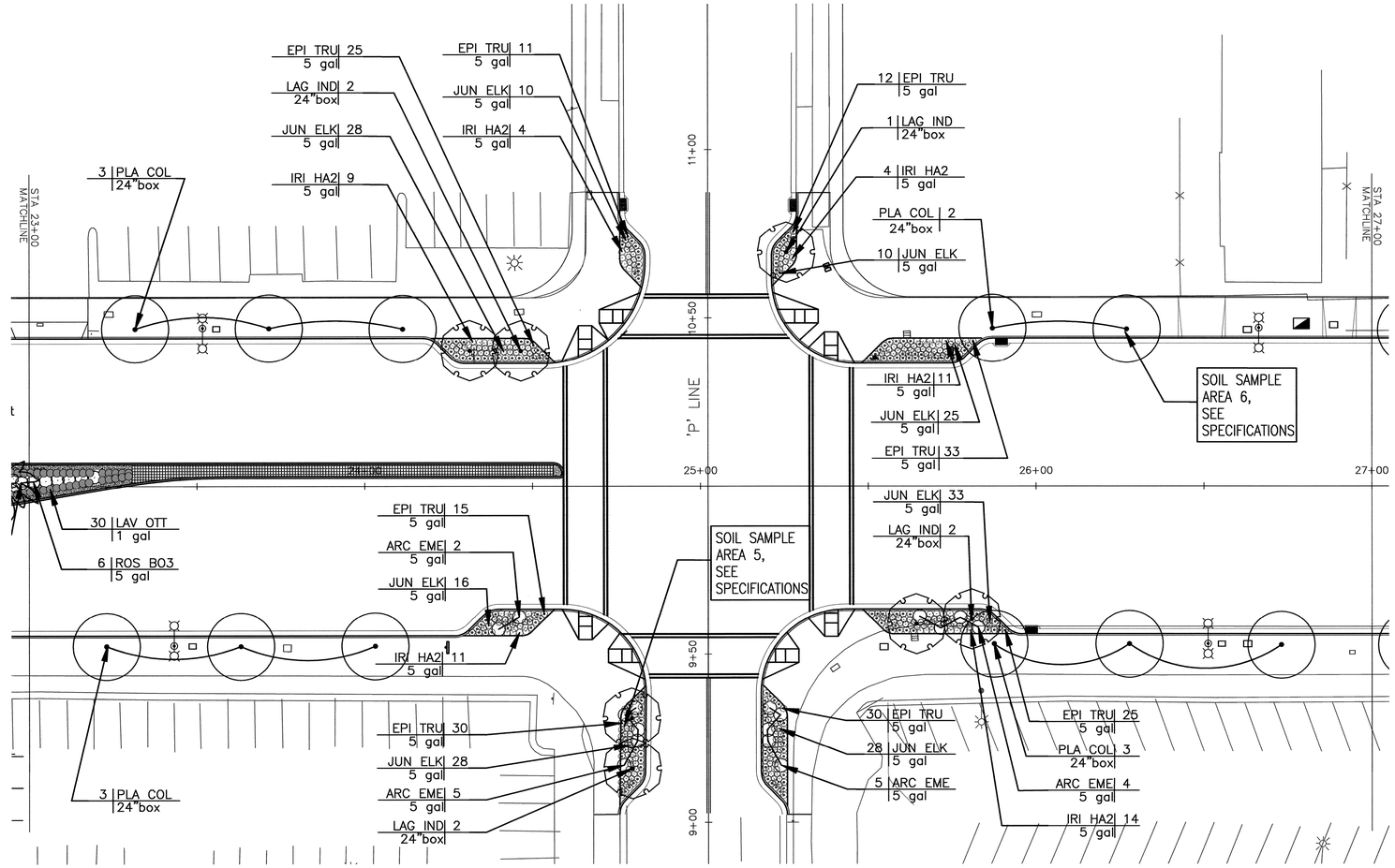
CITY OF SAN LEANDRO

BART-DOWNTOWN PEDESTRIAN INTERFACE

PLANTING PLAN
STATION 18+00 TO 23+00

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 72 OF 80
JOB NO. 150-38-331
SCALE 1" = 20'
DWG 3673 CASE 202



SEE SHEET PL1 FOR PLANTING SYMBOLS AND SCHEDULE

PL4

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
Signature
12/31/12
Expiration Date
8/30/12
Date
STATE OF CALIFORNIA

GOLDEN associates
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING
4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
f. 510 465 5325
CA lic. #2431

CITY OF SAN LEANDRO
INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION
	5/15/12	PERMIT REVIEW

CITY OF SAN LEANDRO

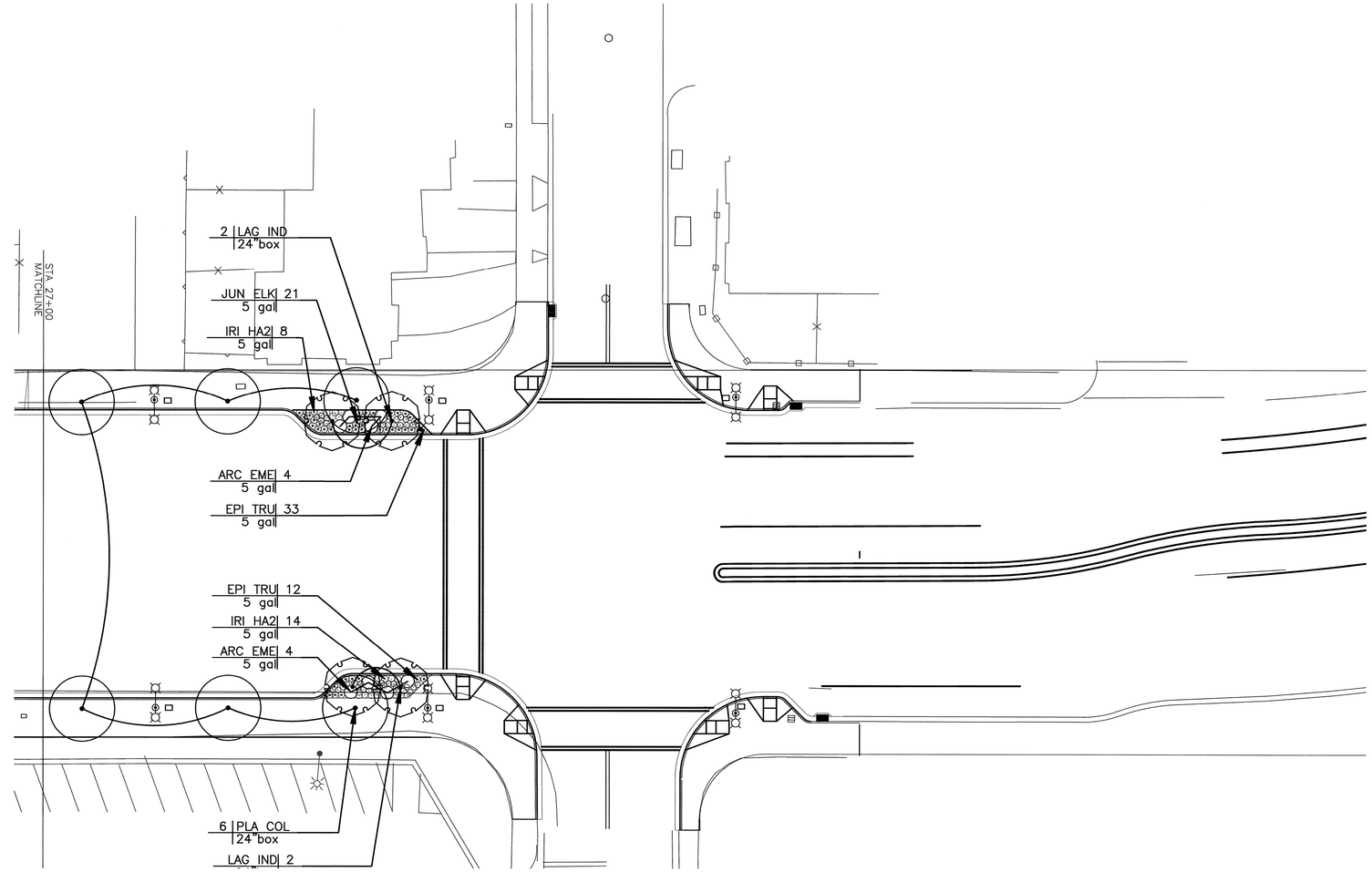
DESIGNED BY LG LB DATE 1/31/12
DRAWN BY LB DATE 1/31/12
PROJECT MGR. MJG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. DATE 8/31/12
APPROVED BY: DATE 9/4/12
CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE

PLANTING PLAN
STATION 23+00 TO 27+00

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 73 OF 80
JOB NO. 150-38-331
SCALE 1" = 20'
DWG 3674 CASE 202



SEE SHEET PL1 FOR PLANTING SYMBOLS AND SCHEDULE

PL5

LICENSED LANDSCAPE ARCHITECT
LESLIE B GOLDEN
No. 2431
Signature
12/31/12
Expiration Date
STATE OF CALIFORNIA

GOLDEN associates
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING
4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
f. 510 465 5325
CA lic. #2431

CITY OF SAN LEANDRO
INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

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NO.	DATE	REVISION
	5/15/12	PERMIT REVIEW

CITY OF SAN LEANDRO

DESIGNED BY	LG.LB	DATE 1/31/12
DRAWN BY	LB	DATE 1/31/12
PROJECT MGR.	MJG	DATE 1/31/12
TRANS ADMIN.	KLC	DATE 8/31/12
SENIOR ENGR.		DATE 8/31/12
APPROVED BY:		DATE 9/4/12

CITY ENGINEER, R.C.E. No. 34870

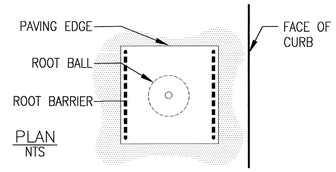
BART-DOWNTOWN PEDESTRIAN INTERFACE

PLANTING PLAN
STATION 27+00 TO 30+00

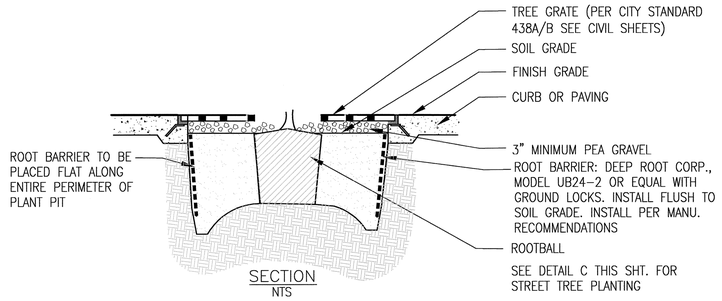
AT FULL SIZE THIS LINE MEASURES 1"

SHEET 74 OF 80
JOB NO. 150-38-331
SCALE 1" = 20'
DWG 3675 CASE 202

NOTE:
PROVIDE ROOT BARRIER FOR ANY TREE LOCATED WITHIN 5' OF CURB, PAVING, OR WALLS. ROOT DEFLECTORS MUST FACE TREE.



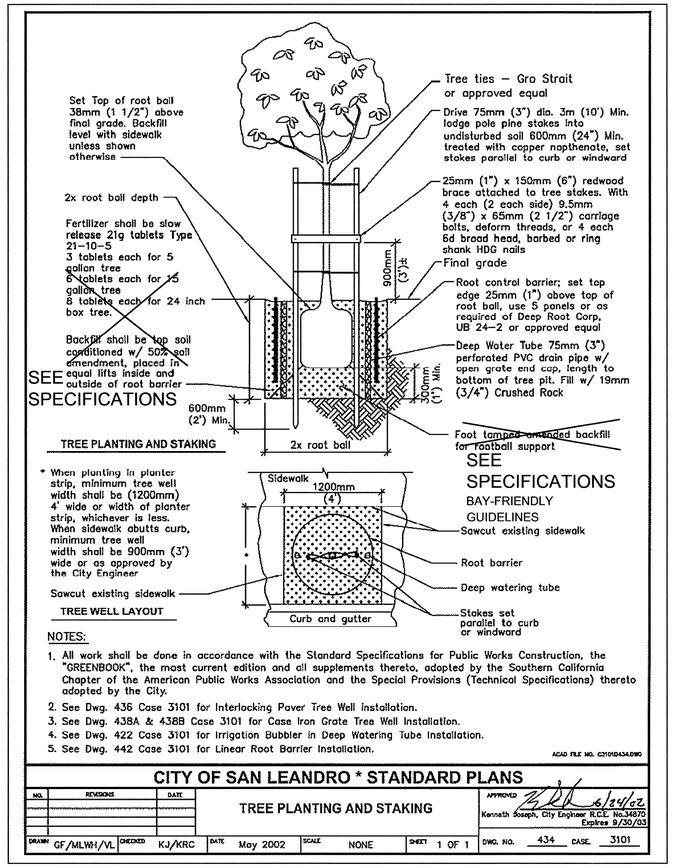
PLAN
NTS



SECTION
NTS

E ROOT BARRIER AT STREET TREE WELL

NOT TO SCALE



NOTES:

1. All work shall be done in accordance with the Standard Specifications for Public Works Construction, the "GREENBOOK", the most current edition and all supplements thereto, adopted by the Southern California Chapter of the American Public Works Association and the Special Provisions (Technical Specifications) thereto adopted by the City.
2. See Dwg. 436 Case 3101 for Interlocking Paver Tree Well Installation.
3. See Dwg. 438A & 438B Case 3101 for Case Iron Grate Tree Well Installation.
4. See Dwg. 422 Case 3101 for Irrigation Bubbler in Deep Watering Tube Installation.
5. See Dwg. 442 Case 3101 for Linear Root Barrier Installation.

ACAD FILE NO. C3101D434.DWG

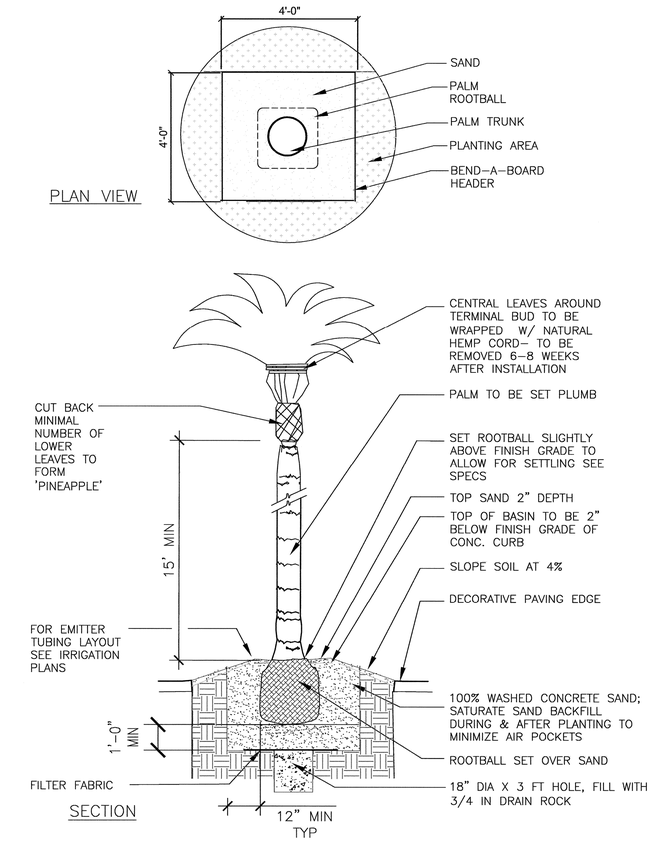
CITY OF SAN LEANDRO * STANDARD PLANS

NO.	REVISIONS	DATE	TREE PLANTING AND STAKING	APPROVED Kenneth Joseph, City Engineer R.C.E. No.34870 Expires 9/30/03 6/24/02

DRAWN	CHECKED	DATE	SCALE	SHEET	DWG. NO.	CASE
GF/MLWH/VL	KJ/KRC	May 2002	NONE	1 OF 1	434	3101

C TREE PLANTING AND STAKING

NOT TO SCALE



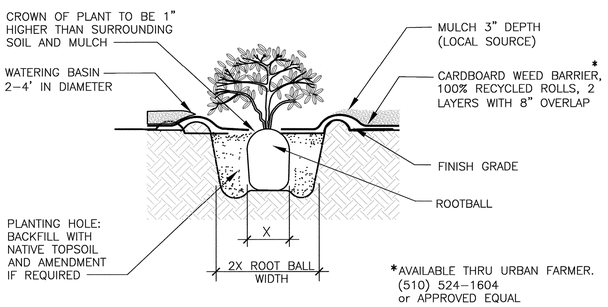
A PALM TREE TRANSPLANT

NOT TO SCALE

SEE DETAIL C, SHEET LD4 FOR BENDA BOARD HEADER

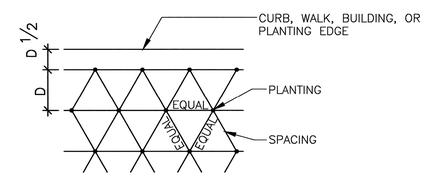
NOTES:

1. MOISTEN CARDBOARD TO STABILIZE UNTIL COVERED WITH MULCH.
2. FOLD MOISTEND CARDBOARD UNDER ITSELF AT HARDSCAPE ELEMENTS, (I.E. ROCKS, FOUNDATIONS, PATHWAYS, ETC.)
3. CARDBOARD SHOULD NOT FOLD-UP AGAINST VERTICAL EDGE
4. DO NOT BURY CROWNS OF PLANTS IN MULCH.
5. ALL CARDBOARD TO BE COVERED WITH 4 INCH MINIMUM DEPTH OF MULCH
6. REFER TO IRRIGATION PLANS FOR SUB-SURFACE DRIP LINE; DEPTH, LOCATION, AND LAYOUT.



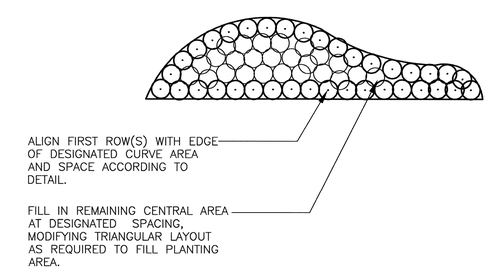
F SHRUB PLANTING DETAIL

NOT TO SCALE



D GROUND COVER SPACING

NOT TO SCALE



B PLANTING LAYOUT/SPACING

NOT TO SCALE

PL6

LICENSED LANDSCAPE ARCHITECT LESLIE B GOLDEN No. 2431 Signature 12/31/12 Expiration Date 8/21/12 Date STATE OF CALIFORNIA

LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING
GOLDEN associates
4400 MARKET STREET
OAKLAND, CA 94608
t. 510 465 4030
f. 510 465 5325
CA lic. #2431

CITY OF SAN LEANDRO INCORPORATED 1872

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NO.	DATE	REVISION
	5/15/12	PERMIT REVIEW

DESIGNED BY	I.G.L.B.	DATE 1/31/12
DRAWN BY	I.B.	DATE 1/31/12
PROJECT MGR.	M.J.G.	DATE 8/31/12
TRANS ADMIN.	RLC	DATE 8/31/12
SENIOR ENGR.		DATE 8/31/12
APPROVED BY: CITY ENGINEER, R.C.E. No. 34870		DATE 9/4/12

CITY OF SAN LEANDRO

BART-DOWNTOWN PEDESTRIAN INTERFACE

PLANTING DETAILS

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 75 OF 80
JOB NO. 150-38-331
SCALE AS SHOWN
DWG 3676 CASE 202

GNU GROUP

Copy List

Client Name
City of San Leandro

Project Name and Address
San Leandro BART Pedestrian Interface

San Leandro , CA

Programming Phase

Submittal Date
4/30/12

Total Signs
11

Project Number

ZZ.2807.01

Records Organized By:

3445 Mt. Diablo Blvd.
Lafayette, California 94549

925-444-2020 Telephone
925-444-2039 Facsimile

www.gnugroup.com

Summary Of Sign Types

Project Name	Project Number	Programming Phase	Submittal Date
San Leandro BART Pedestrian Interface	ZZ.2807.01		4/30/12

Sign Type	Description	Quantity
DR.03	Vehicular Directional	5
DR.06	Pedestrian Directional / Orientation Map	6

Total Sign Quantity
11

Copy List

Project Name	Project Number	Programming Phase	Submittal Date
San Leandro BART Pedestrian Interface	ZZ.2807.01		4/30/12

Level	Location	Sign Type	Copy	Qty.	Sign Type Desc. / Notes	Install
	01	DR.03	(Downtown San Leandro Logo) (Icon) (UA) Downtown (Icon) (RA) BART	1	Vehicular Directional Sign installed on NEW Light Pole w/ typical baseplate & anchorage 36" from F.O.C. to centerline of ornamental sign post	Rec'd Off ☐ Fab Issue ☐ Design Issue ☐ ☐ Installed____ ☐ Not Installed____ ☐ Photo
	02	DR.03	(Downtown San Leandro Logo) (Icon) (RA) Downtown (Icon) (RA) City Hall	1	Vehicular Directional Sign installed on NEW Light Pole w/ typical baseplate & anchorage 36" from F.O.C. to centerline of ornamental sign post	Rec'd Off ☐ Fab Issue ☐ Design Issue ☐ ☐ Installed____ ☐ Not Installed____ ☐ Photo
	03	DR.06	(SIDE A) (Downtown San Leandro Logo) (Map Artwork) (UA) Downtown (SIDE B) (Downtown San Leandro Logo) (Map Artwork) (LA) BART	1	Pedestrian Directional / Orientation Map Sign installed on NEW Standalone Pole w/ typical baseplate & anchorage 24" from Back of Walk to centerline of ornamental sign post	Rec'd Off ☐ Fab Issue ☐ Design Issue ☐ ☐ Installed____ ☐ Not Installed____ ☐ Photo
	04	DR.03	(Downtown San Leandro Logo) (BART Icon) (RA) Pick Up / Drop-off (Icon) (LA) Downtown	1	Vehicular Directional Sign installed on NEW Light Pole w/ typical baseplate & anchorage Placed In landscaping 36" from F.O.C. to centerline of ornamental sign post	Rec'd Off ☐ Fab Issue ☐ Design Issue ☐ ☐ Installed____ ☐ Not Installed____ ☐ Photo

Copy List

Project Name	Project Number	Programming Phase	Submittal Date
San Leandro BART Pedestrian Interface	ZZ.2807.01		4/30/12

Level	Location	Sign Type	Copy	Qty.	Sign Type Desc. / Notes	Install
	05	DR.06	(SIDE A) (Downtown San Leandro Logo) (Map Artwork) (UA) Downtown	1	Pedestrian Directional / Orientation Map Sign installed on NEW Standalone Pole w/ typical baseplate & anchorage 24" from Back of Walk. to centerline of ornamental sign post	Rec'd Off ☐ Fab Issue ☐ Design Issue ☐ ☐ Installed____ ☐ Not Installed____ ☐ Photo
	06	DR.06	(SIDE A) (Downtown San Leandro Logo) (Map Artwork) (LA) Downtown	1	Pedestrian Directional / Orientation Map Sign installed on NEW Standalone Pole w/ typical baseplate & anchorage Placed In landscaping 24" from Back of Walk. to centerline of ornamental sign post	Rec'd Off ☐ Fab Issue ☐ Design Issue ☐ ☐ Installed____ ☐ Not Installed____ ☐ Photo
	07	DR.06	(SIDE A) (Downtown San Leandro Logo) (Map Artwork) (UA) Downtown (SIDE B) (Downtown San Leandro Logo) (Map Artwork) (UA) BART	1	Pedestrian Directional / Orientation Map Sign installed on NEW Standalone Pole w/ typical baseplate & anchorage Placed In landscaping 36" from F.O.C.. to centerline of ornamental sign post	Rec'd Off ☐ Fab Issue ☐ Design Issue ☐ ☐ Installed____ ☐ Not Installed____ ☐ Photo
	08	DR.06	(SIDE A) (Downtown San Leandro Logo) (Map Artwork) (ULA) Downtown	1	Pedestrian Directional / Orientation Map Sign installed on NEW Standalone Pole w/ typical baseplate & anchorage 24" from Back of Walk to centerline of ornamental sign post	Rec'd Off ☐ Fab Issue ☐ Design Issue ☐ ☐ Installed____ ☐ Not Installed____ ☐ Photo

Copy List

Project Name	Project Number	Programming Phase	Submittal Date
San Leandro BART Pedestrian Interface	ZZ.2807.01		4/30/12

Level	Location	Sign Type	Copy	Qty.	Sign Type Desc. / Notes	Install
	09	DR.06	(SIDE A) (Downtown San Leandro Logo) (Map Artwork) (UA) BART (SIDE B) (Downtown San Leandro Logo) (Map Artwork) (UA) Downtown	1	Pedestrian Directional / Orientation Map Sign installed on NEW Standalone Pole w/ typical baseplate & anchorage 24" from Back of Walk. to centerline of ornamental sign post	Rec'd Off ☐ Fab Issue ☐ Design Issue ☐ ☐ Installed____ ☐ Not Installed____ ☐ Photo
	10	DR.03	(Downtown San Leandro Logo) (Icon) (LA) Downtown	1	Vehicular Directional Sign installed on NEW Light Pole w/ typical baseplate & anchorage 36" from F.O.C. to centerline of ornamental sign post	Rec'd Off ☐ Fab Issue ☐ Design Issue ☐ ☐ Installed____ ☐ Not Installed____ ☐ Photo
	11	DR.03	(Downtown San Leandro Logo) (Icon) (UA) BART (Icon) (RA) Downtown	1	Vehicular Directional Sign installed on NEW Light Pole w/ typical baseplate & anchorage Placed in landscaping 36" from F.O.C. to centerline of ornamental sign post	Rec'd Off ☐ Fab Issue ☐ Design Issue ☐ ☐ Installed____ ☐ Not Installed____ ☐ Photo

WSL-1

GNU GROUP
3445 Mt. Diablo Blvd. | Lafayette, California 94549
925-444-2020 Telephone | 925-444-2039 Facsimile
4590 MacArthur Blvd., 5th Flr | Newport Beach, Ca 92660
800-879-8025 Telephone | 925-444-2039 Facsimile
www.gnugroup.com

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY ____ DATE ____
DRAWN BY ____ DATE ____
PROJECT MGR. MA DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. ____ DATE 8/31/12

BART-DOWNTOWN PEDESTRIAN INTERFACE

SIGN COPY LIST

AT FULL SIZE THIS LINE MEASURES 2"

SHEET 76 OF 80
JOB NO. 150-38-331
SCALE ____
DWG 3677 CASE 202

H:\PROJECTS\SLB BART\SLB_PLNT.dwg Jun 03,2012 - 6:20pm lourie

COLORS

P1	P2	P3	P4	P5
Matthews Paint to match PMS 1815c Satin VOC	Matthews Paint to match Black Satin VOC	Matthews Paint to match PMS 7520c Satin VOC	Matthews Paint to match PMS 7499c Satin VOC	Matthews Paint to match White Satin VOC

V1	V2	V3
Arlon HP Vinyl A9582-0	Arlon HP Vinyl 02 White	Arlon HP Vinyl 03 Black

TYPOGRAPHY

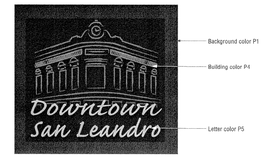
1 Palatino Regular

abcdefghijklmnopqrstuvwxyz - 1234567890
ABCDEFGHIJKLMNOPQRSTUVWXYZ

2 Helvetica Neue 77

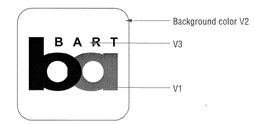
abcdefghijklmnopqrstuvwxyz - 1234567890
ABCDEFGHIJKLMNOPQRSTUVWXYZ

GRAPHIC STANDARDS



1 "DOWNTOWN" GRAPHIC
Scale: NTS

2 ARROW GRAPHIC
Scale: NTS



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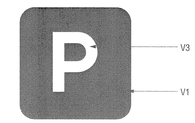
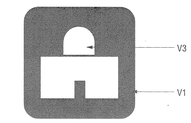
Scale: NTS



4 "DOWNTOWN" GRAPHIC
Scale: NTS



FINAL LOGO TO BE PROVIDED BY CITY OF SAN LEANDRO

5 "DOWNTOWN" GRAPHIC
Scale: NTS

WSL-2

GNU GROUP
3445 Mt. Diablo Blvd. | Lafayette, California 94549
925-444-2020 Telephone | 925-444-2029 Facsimile
4590 MacArthur Blvd., 5th Flr | Newport Beach, Ca 92660
800-071-8025 Telephone | 925-444-2029 Facsimile
www.gnugroup.com

CITY OF SAN LEANDRO INCORPORATED 1872

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NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY _____ DATE _____
DRAWN BY _____ DATE _____
PROJECT MGR. MG DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. J.J. DATE 8/31/12

BART-DOWNTOWN PEDESTRIAN INTERFACE

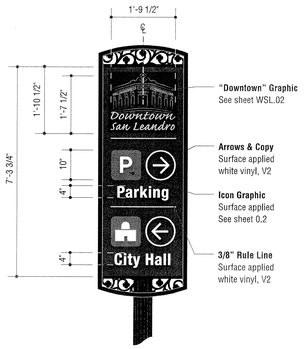
SIGNAGE DETAILS

AT FULL SIZE THIS LINE MEASURES 2"

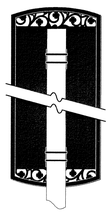
SHEET 77 OF 80
JOB NO. 150-38-331
SCALE _____
DWG 3678 CASE 202

H:\PROJECTS\SLB BART\SLB_PLNT.dwg Jan 03,2012 - 6:20pm laurie

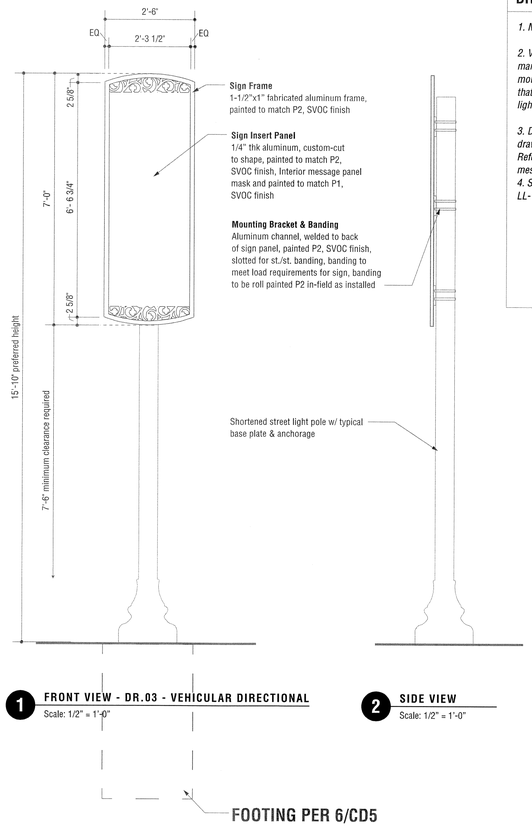
DR.03



4 GRAPHIC VIEW
Scale: 1/2" = 1'-0"

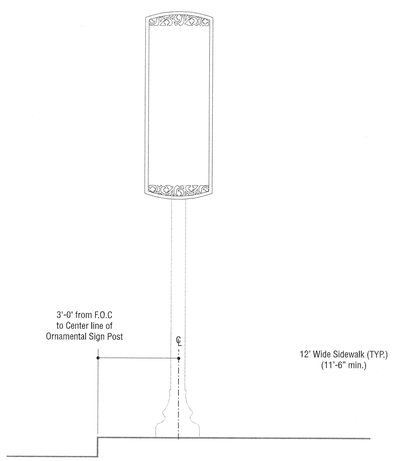


3 BACK VIEW
Scale: 1/2" = 1'-0"



1 FRONT VIEW - DR.03 - VEHICULAR DIRECTIONAL
Scale: 1/2" = 1'-0"

2 SIDE VIEW
Scale: 1/2" = 1'-0"



A LOCATION DETAIL FRONT OF CURB - (TYPICAL)
Scale: 3/8" = 1'-0"

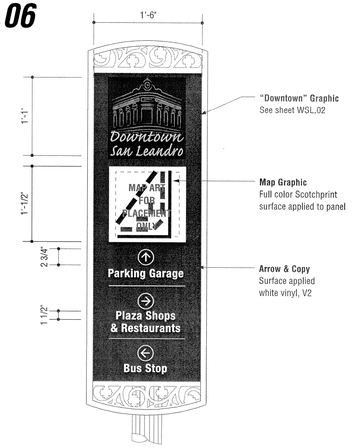
DRAWING NOTES:

1. Non-illuminated sign

2. Verify with pole manufacturer if alternative mounting detail is suggested that requires penetration of light pole.

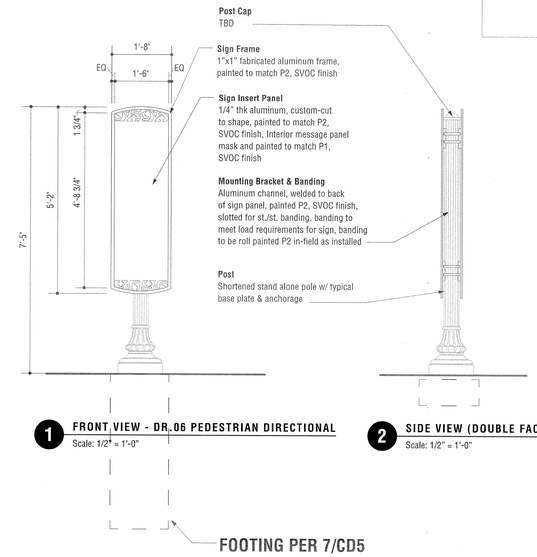
3. Directional copy shown on drawing is for position only. Refer to Copy List for accurate messaging.
4. See landscape layout sheets LL-1 to LL-5 for sign locations

DR.06



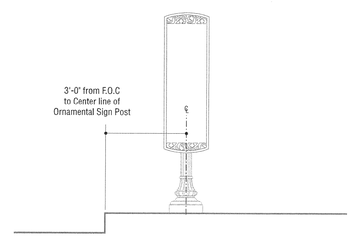
4 DETAIL
Scale: 1" = 1'-0"

3 BACK VIEW (SINGLE FACE)
Scale: 1/2" = 1'-0"

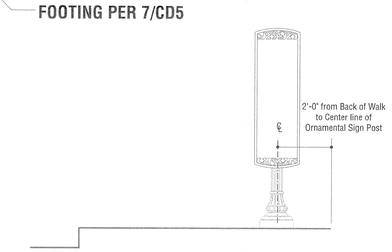


1 FRONT VIEW - DR.06 PEDESTRIAN DIRECTIONAL
Scale: 1/2" = 1'-0"

2 SIDE VIEW (DOUBLE FACE)
Scale: 1/2" = 1'-0"



A LOCATION DETAIL - FRONT OF CURB - (TYPICAL)
Scale: 3/8" = 1'-0"



B LOCATION DETAIL - BACK OF WALK - (TYPICAL)
Scale: 3/8" = 1'-0"

DRAWING NOTES:

1. Non-illuminated sign

2. Verify with pole manufacturer if alternative mounting detail is suggested that requires penetration of light pole.

3. Directional copy shown on drawing is for position only. Refer to Copy List for accurate messaging.

4. Final Map Artwork TEMPLATE to be supplied by GNU Group.

5. See landscape layout sheets LL-1 to LL-5 for sign locations

WSL-3

GNU GROUP
3445 Mt. Diablo Blvd. | Lafayette, California 94549
925-444-2020 Telephone | 925-444-2039 Facsimile
4590 MacArthur Blvd., 5th Flr | Newport Beach, Ca 92660
800-071-8025 Telephone | 925-444-2039 Facsimile
www.gnugroup.com

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION

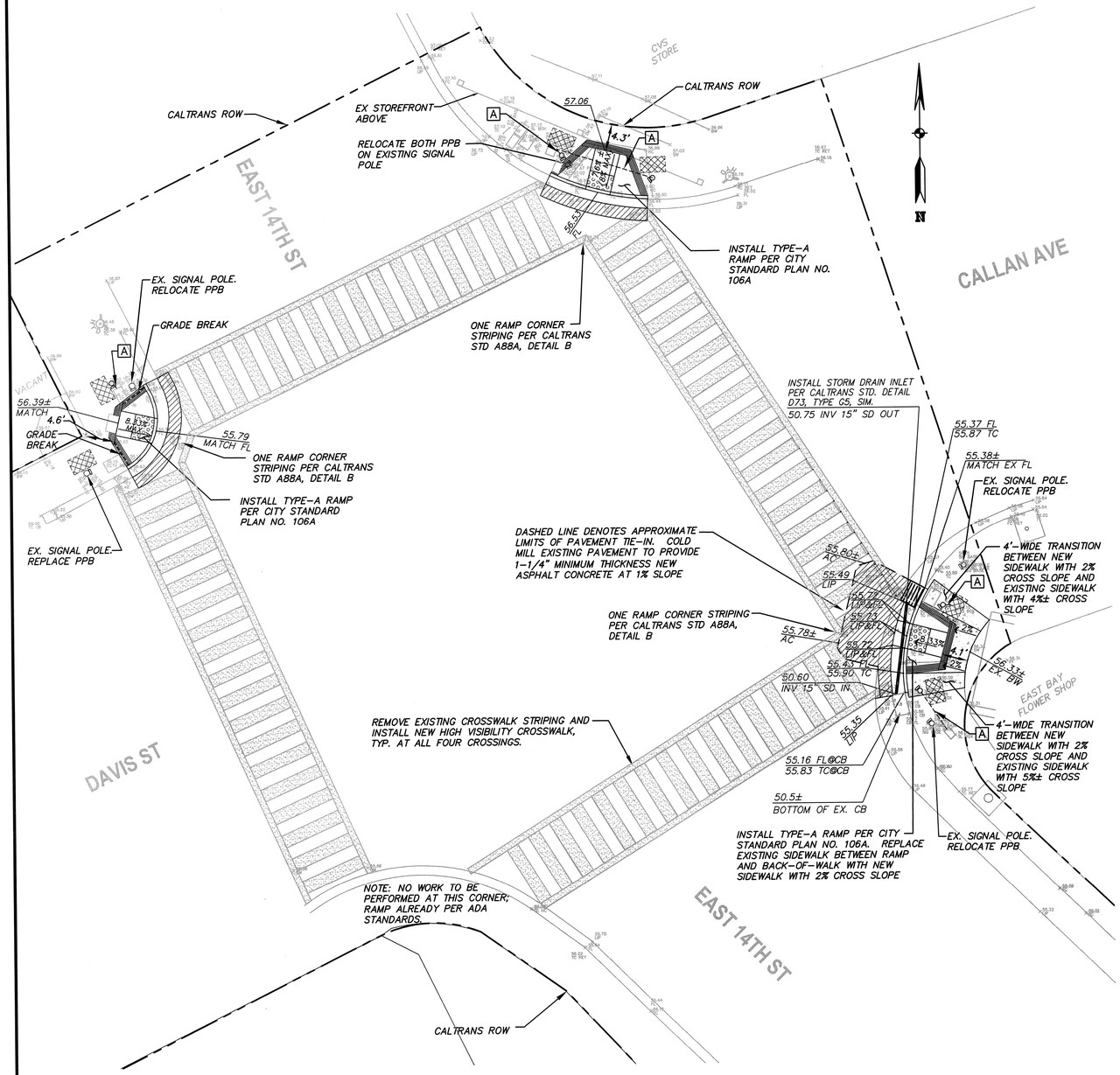
CITY OF SAN LEANDRO

DESIGNED BY _____ DATE _____
DRAWN BY _____ DATE _____
PROJECT MGR. MCA DATE 8/31/12
TRANS ADMIN. RLC DATE 8/31/12
SENIOR ENGR. DATE 8/31/12

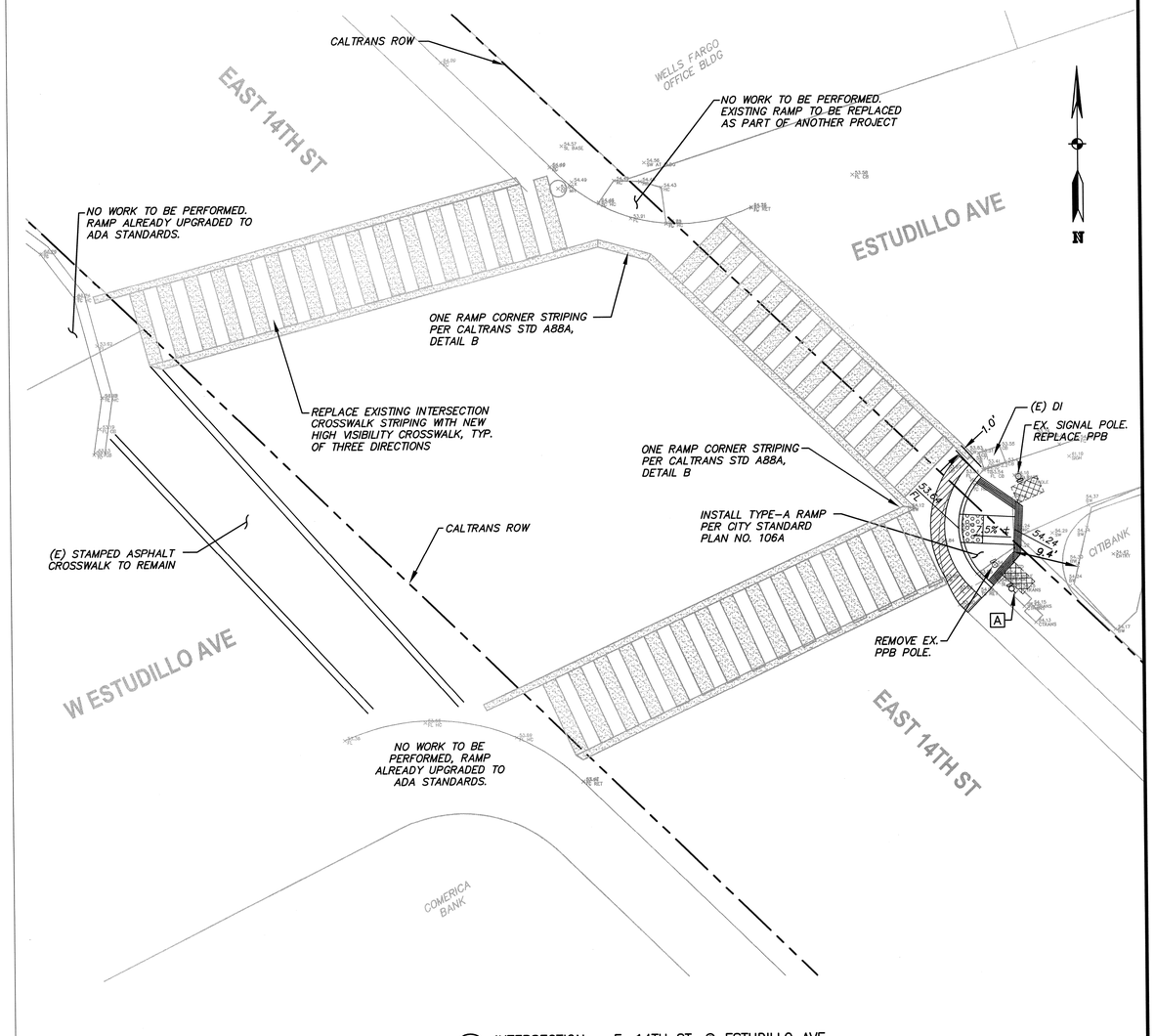
BART-DOWNTOWN
PEDESTRIAN INTERFACE
SIGNAGE DETAILS

AT FULL SIZE THIS LINE MEASURES 2"
SHEET 78 OF 80
JOB NO. 150-38-331
SCALE _____
DWG 3679 CASE 202

H:\PROJECTS\SLB BART\SLB_PLNT.dwg Jan 03,2012 - 6:20pm laurie



1 / R1 INTERSECTION – E. 14TH ST. @ DAVIS ST. & CALLAN ST.
Scale: 1" = 10'-0"



2 / R1 INTERSECTION – E. 14TH ST. @ ESTUDILLO AVE.
Scale: 1" = 10'-0"

LEGEND

- NEW PEDESTRIAN PUSH BUTTON ON NEW PPB POLE
- NEW PEDESTRIAN PUSH BUTTON ON EXISTING POLE
- 30" X 48" LEVEL LANDING AREA IN FRONT OF PEDESTRIAN PUSH BUTTONS SHOWN FOR INFORMATION ONLY
- EXISTING UTILITY BOX
- AC TIE-IN AREA
- A — TRENCH FROM EXISTING PULL BOX TO INSTALL 2" CONDUIT AND 2-#14 CONDUCTORS

CONSTRUCTION NOTES

1. SIGNALS ON EAST 14TH STREET ARE LOCATED AND OPERATED BY CALTRANS. CONTRACTOR SHALL OBTAIN PERMIT RIDER AND COMPLY WITH ALL CALTRANS PERMIT CONDITIONS
2. EXISTING SIGNAL POLES SHALL REMAIN. PEDESTRIAN PUSH BUTTONS (PPB) SHALL BE ADDED TO SIGNAL CONTROL CIRCUIT WHERE NEEDED TO COMPLY WITH CURRENT ACCESSIBILITY REQUIREMENTS.
3. ADJUST UTILITY BOXES TO GRADE WITHIN NEW RAMP AND SIDEWALK AREAS

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

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NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY	MJG	DATE
DRAWN BY	AMS	DATE
PROJECT MGR.	MJG	DATE 8/31/12
TRANS ADMIN.	RLC RLC	DATE 8/31/12
SENIOR ENGR.	~~AP~~	DATE 8/31/12
APPROVED BY:		DATE 9/10/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE E. 14TH ST RAMPS AND CROSSWALKS

AT FULL SIZE THIS LINE MEASURES 1"

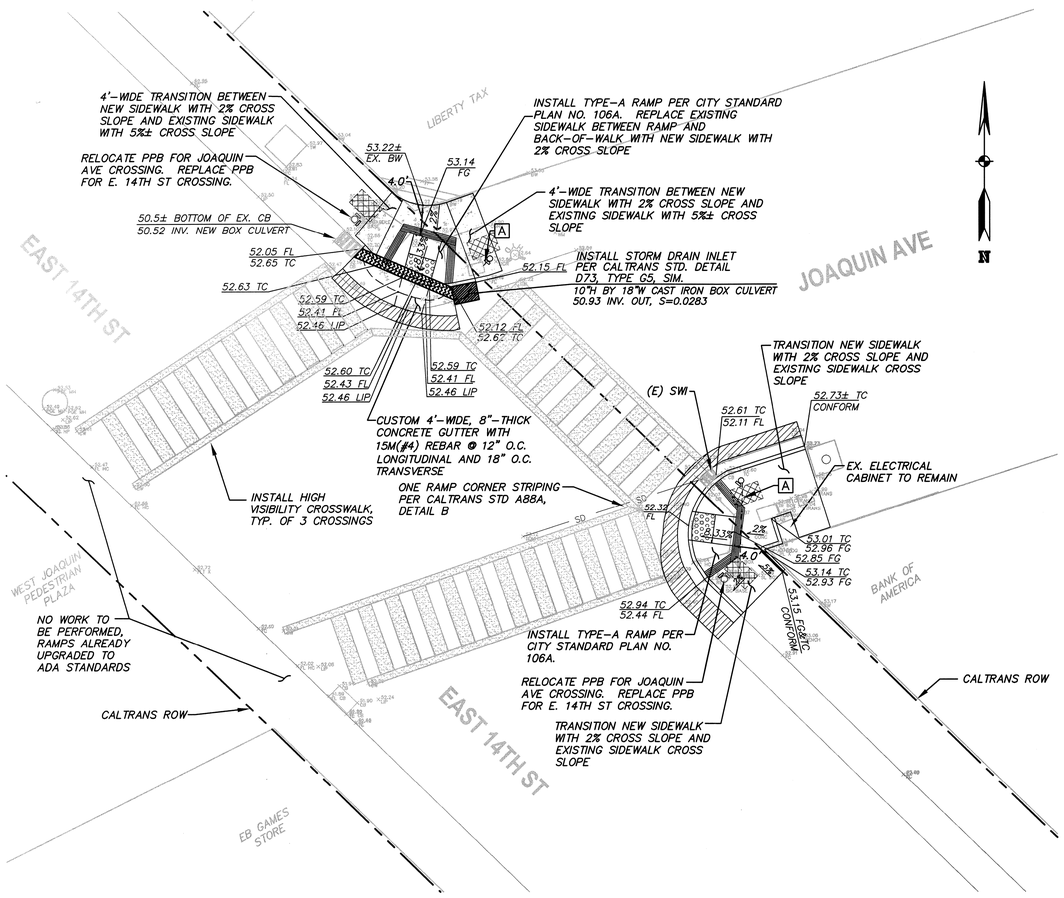
SHEET 79 OF 80

JOB NO. 150-38-331

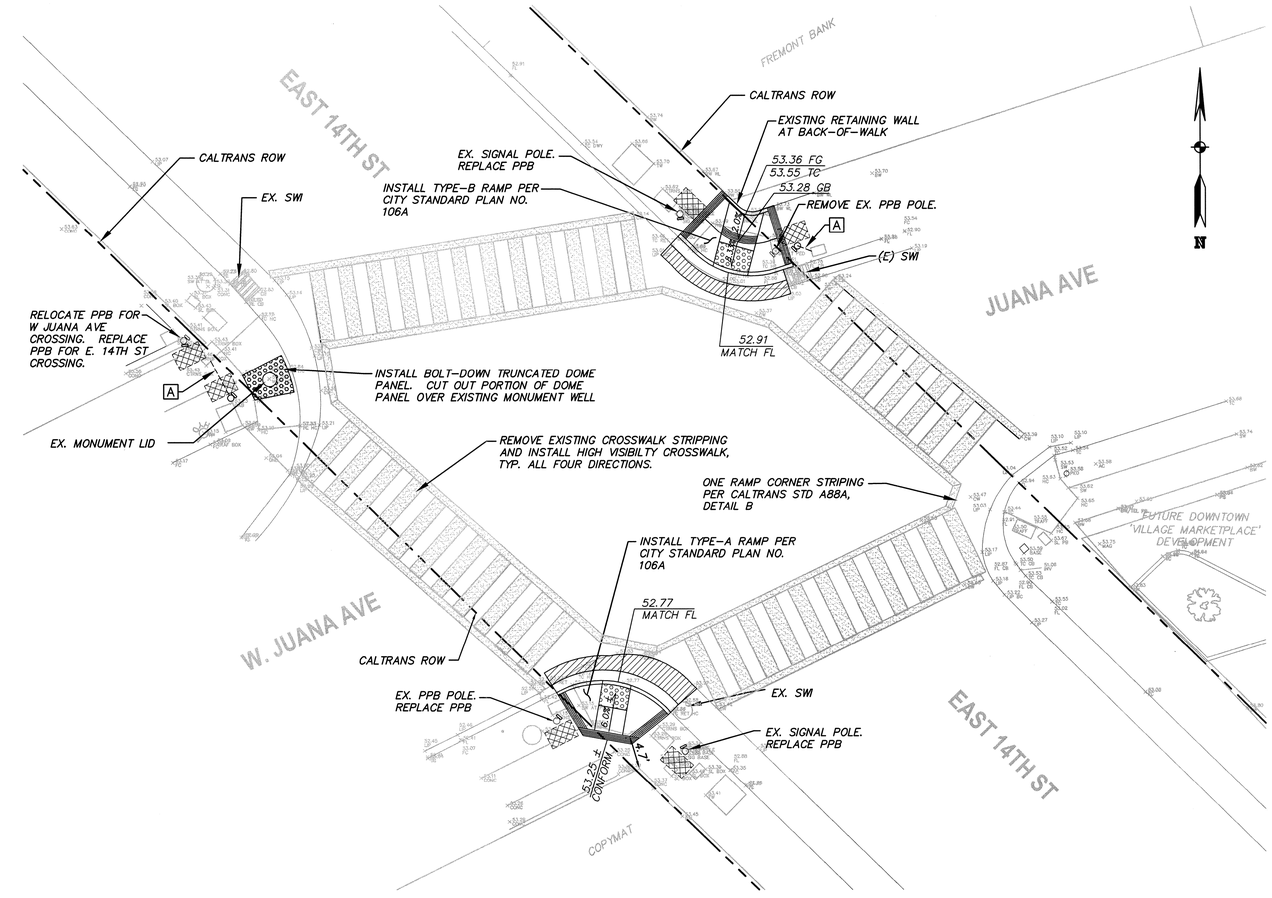
SCALE 1"=10'0"

DWG 3680 CASE 202

R1



1 / R2 INTERSECTION – E. 14TH ST. @ JOAQUIN AVE.
Scale: 1" = 10'-0"



2 / R2 INTERSECTION – E. 14TH ST. @ JUANA AVE.
Scale: 1" = 10'-0"

R2

REGISTERED PROFESSIONAL ENGINEER KENNETH C. JOSEPH No. 34870 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

CITY OF SAN LEANDRO INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 811

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NO.	DATE	REVISION

CITY OF SAN LEANDRO

DESIGNED BY	MJG	DATE	
DRAWN BY	AMS	DATE	
PROJECT MGR.	MJG	DATE	8/31/12
TRANS ADMIN.	RLC	DATE	8/31/12
SENIOR ENGR.	AO	DATE	8/31/12
APPROVED BY:		DATE	9/4/12

CITY ENGINEER, R.C.E. No. 34870

BART-DOWNTOWN PEDESTRIAN INTERFACE E. 14TH ST RAMPS AND CROSSWALKS

AT FULL SIZE THIS LINE MEASURES 1"

SHEET 80 OF 80

JOB NO. 150-38-331

SCALE 1"=10'0"

DWG 3681 CASE 202