

- GENERAL NOTES:**
- SEE GENERAL NOTES ON DRAWING 01-D-01.
 - THIS DRAWING HAS BEEN REDUCED TO APPROXIMATELY 80% OF ORIGINAL SIZE.
 - PUMP AND PIPING LAYOUT IS APPROXIMATE AND HAS BEEN MODIFIED SUBSEQUENT TO THE GENERATION OF THIS BACKGROUND DRAWING. CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT AND PIPING CONFIGURATIONS AND SIZES.
 - SEE DWGS 13-D-02 TO 13-D-05 FOR ADDITIONAL DEMOLITION AND MODIFICATIONS TO THIS STRUCTURE.
 - SEE DWG 01-C-10 FOR EXTENT OF BELOW GRADE PIPING DEMOLITION.

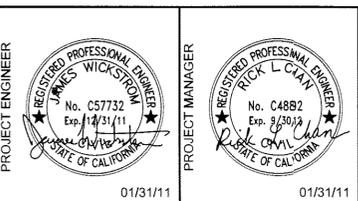
- KEY NOTES:**
- REMOVE ALL INFLUENT PUMPS AND ASSOCIATED PIPING AND VALVING.
 - BLIND FLANGE BOTH ENDS OF PIPE SPOOLS PENETRATING WET WELL WALLS. USE ALL 316 SST HARDWARE.
 - PLUG WALL PENETRATION PER TYP/S200.
 - REMOVE PIPING THROUGH WALL AND PLUG PER TYP S200.
 - REMOVE PIPING OR SLEEVE AND PLUG PER TYP/S200 OR TYP/S201, AS APPLICABLE.
 - INTERCEPT EXIST DRAIN LINES AND ROUTE NEW 4" PD LINE TO DRAIN TO MH #13. SLOPE PIPING @ 2%.
 - REMOVE ALL EXIST HANDRAIL, PIPING, LIGHTS, CONDUIT, INSTRUMENTS, AND OTHER EQUIPMENT FROM EXISTING WET WELL.
 - FILL WET WELL WITH CELLULAR CONCRETE AND CAP OPENINGS W/ 6" CONC SLAB. SEE DWG 13-D-05 FOR ADDITIONAL INFORMATION.

SEWAGE TREATMENT PLANT IMPROVEMENTS	
FOR THE CITY OF SAN LEANDRO, CALIFORNIA	
PUMPING STATION	
PUMP STRUCTURE	
PLAN AND SECTION	
ENGINEERING OFFICE OF CLYDE C. KENNEDY, SAN FRANCISCO	
DESIGN: J.B.H.	DATE: 3/1/11
PROJECT: 13-D-01	APPROVED FOR THE CITY OF SAN LEANDRO
DATE: 02-28-11	DATE: 3/1/11
CITY ENGINEER	CITY MANAGER

JOB NUMBER: 8160A.10
FILENAME: 8160A10-13-D-001.dgn

DESIGNED	JAW
DRAWN	DST
CHECKED	RLC
DATE	JANUARY 2011

DISCIPLINE ENGINEER



BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 1 (800) 227-2800 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	02/11	ADDENDUM NO. 1

CITY OF SAN LEANDRO

PROJECT MGR. KC DATE 3/3/11

TRANS. ADMIN. DATE

SENIOR ENGR. AEO DATE 3/4/11

APPROVED BY DATE 3/1/11

CITY ENGINEER, P.E. No. 34870

WPCP REHABILITATION PROJECT

DEMOLITION

EXISTING HEADWORKS AND INFLUENT PUMP STATION LOWER PLAN AND SECTION

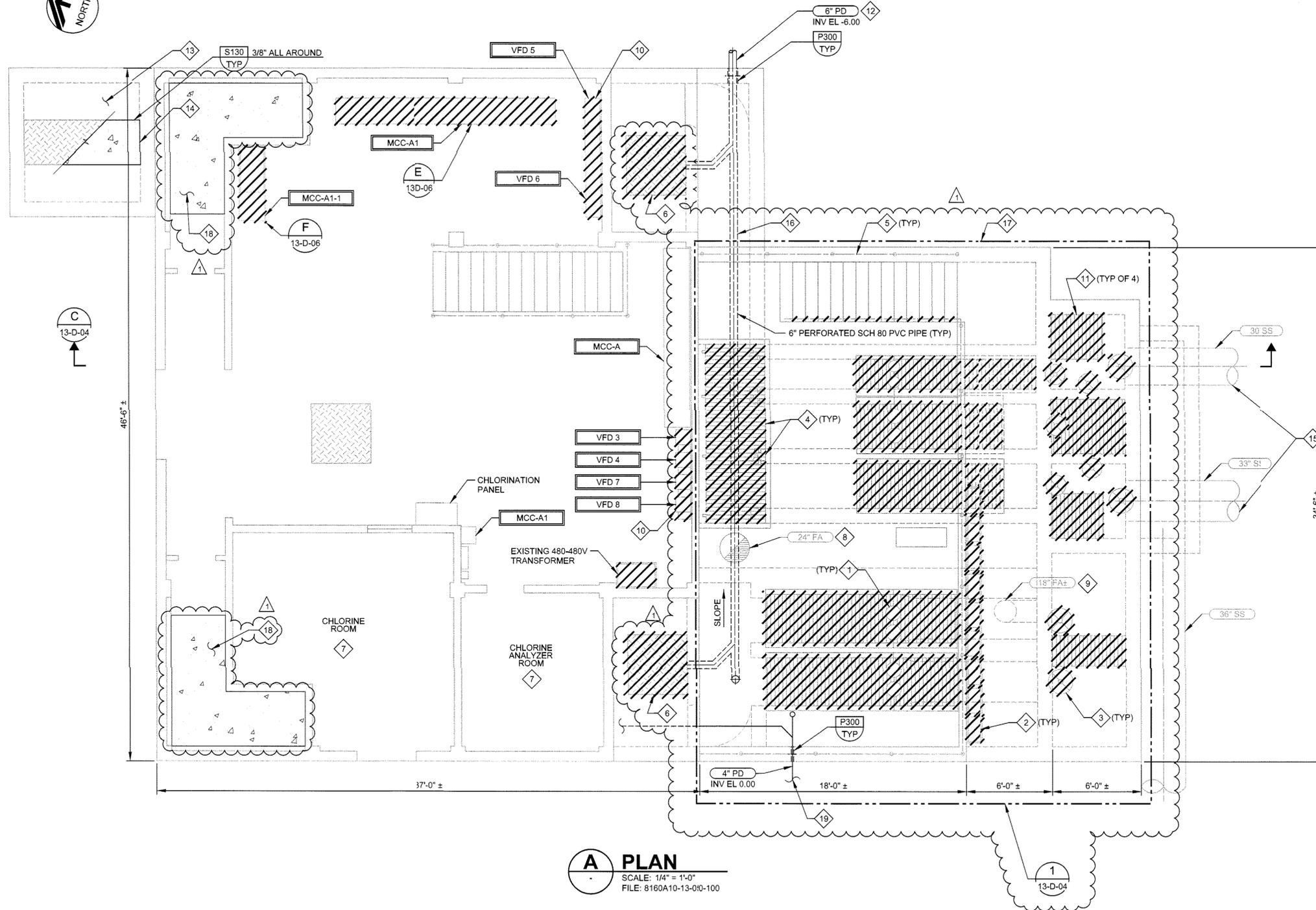
CONTRACT DWG 13-D-01

SHEET 82 OF 557

JOB NO. 08-593-52-239

SCALE AS NOTED

DWG. 1275_CASE 604



GENERAL NOTES:

- SEE GENERAL NOTES ON DWG 01-D-01.
- PROTECT ALL FUNCTIONING EQUIPMENT DURING CONSTRUCTION INCLUDING CHLORINATION PANEL AND MCC'S.

KEY NOTES:

- REMOVE 8 CHANNEL MOUNTED GRINDERS.
- REMOVE GRINDER CONTR. PANELS.
- REMOVE GATES AND ACTUATORS.
- REMOVE ALUMINUM COVERS FROM CHANNELS.
- PROTECT EXIST HANDRAIL AT GRADE.
- REMOVE ALUM PLANKING. AFTER FILLING WET WELL CAP OPENING WITH 6" CONC SLAB WITH #4 @ 6" EW, CENTERED, PROVIDE 3/8" WIDE EXPANSION JOINT ALL AROUND PER TYP S130.
- EQUIPMENT IN CHLORINE ANALYZER AND CHLORINE ROOMS SHALL REMAIN OPERATIONAL AT ALL TIMES.
- REMOVE 24" FA ± FRP RISEF DUCT AND ASSOCIATED SUPPORTS BETWEEN ROOF AND TOP OF CHANNELS.
- REMOVE 18" FA± FRP FOUL AIR DUCTING CONNECTING GRINDER CHANNEL TO INFLUENT DIVERSION BOX.
- REMOVE VARIABLE FREQUENCY DRIVES AND EXPOSED CONDUIT AND CONDUCTORS ROUTED FROM VARIABLE FREQUENCY DRIVES TO THE MOTOR CONTROL CENTERS.
- REMOVE ALUMINUM COVERS ABOVE INFLUENT CHAMBER.
- SEE DWG 01-C-10 FOR PIPING CONTINUATION.
- FILL EXISTING PIPING VAULT W/ CSLM. VAULT DIMENSIONS APPROX 8' x 8' x 8'. FIELD VERIFY DIMENSIONS.
- REMOVE STEEL COVER AND CAP WITH 8" THICK CONCRETE WITH #5 @ 12" EW.
- FILL INFLUENT PIPES WITH CSLM.
- ROUTE 6" PERFORATED DRAIN PIPE THROUGH GRAVEL LAYER BELOW CELLULAR CONC FILL. TRANSITION TO SOLID WALL PIPE AT EDGE OF STRUCTURE.
- UPON COMPLETION OF DEMOLITION WORK IN INFLUENT CHANNEL AREA, BACKFILL ENTIRE VOID TO GRADE WITH CELLULAR CONC AND CAP WITH 6" CONC SLAB. SEE SECTION C/ 13-D-04 AND DETAIL 1/ 13-D-04 FOR ADDITIONAL INFORMATION.
- AFTER FILLING WET WELL CAP OPENING WITH 6" CONC SLAB WITH #4 @ 6" EW, CENTERED, PROVIDE 3/8" WIDE EXPANSION JOINT ALL AROUND PER TYP S130.
- ROUTE NEW 4" PD LINE TO TRIN TO MH #13. SLOPE PIPING @ 2%.

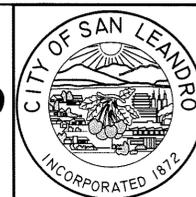
JOB NUMBER: 8160A.10
FILENAME: 8160A10-13-D-002.dgn

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1" SCALE BAR
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DESIGNED JAW
DRAWN HPG/PGG
CHECKED RLC
DATE JANUARY 2011

PROJECT ENGINEER
JAMES WICKSTROM
No. C57732
Exp. 12/31/11
STATE OF CALIFORNIA
01/31/11

PROJECT MANAGER
RICK L. CLAN
No. C4882
Exp. 9/30/12
STATE OF CALIFORNIA
01/31/11



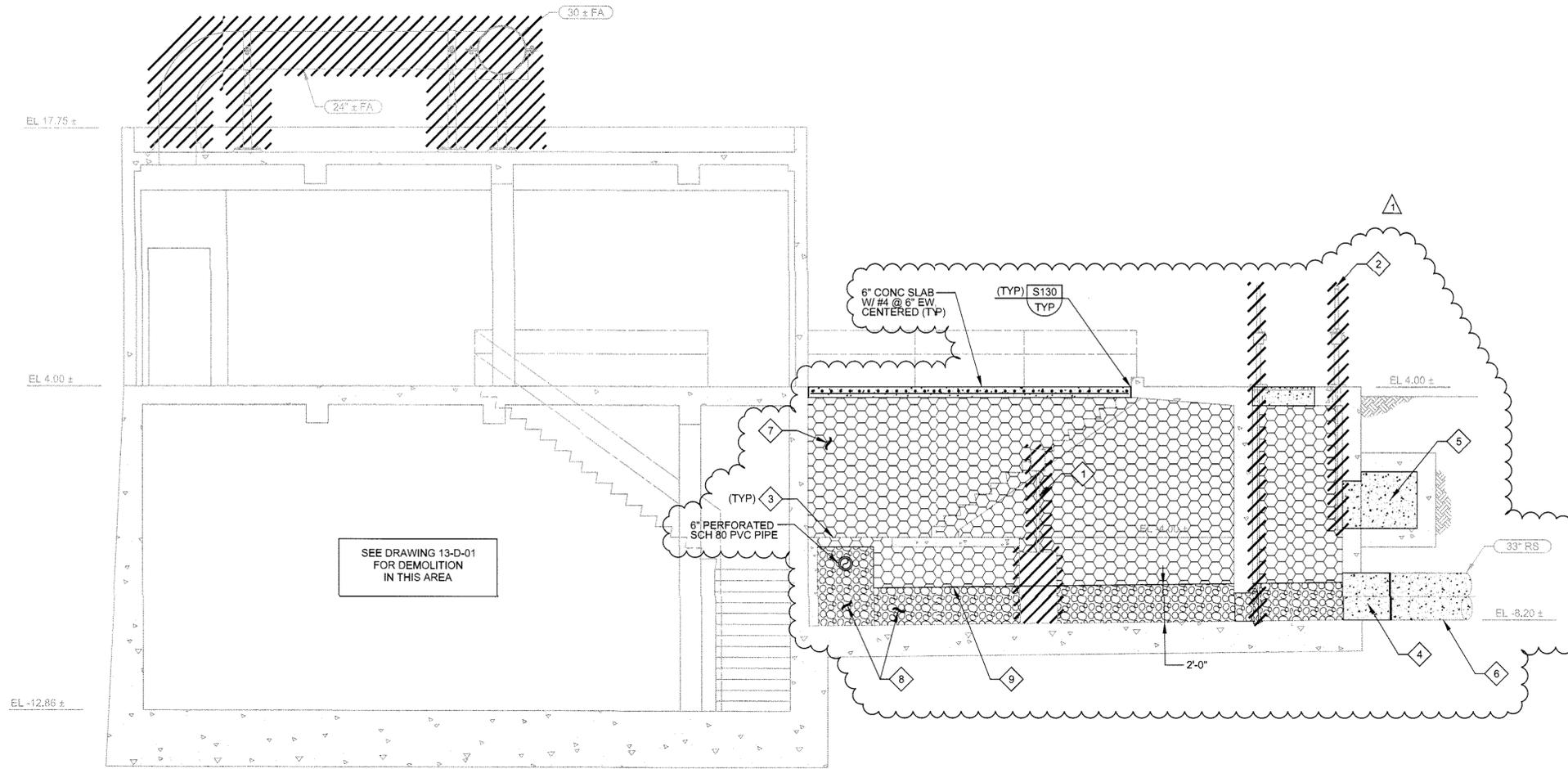
BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 1 (800) 222-7829. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION
1	02/11	ADDENDUM NO. 1

CITY OF SAN LEANDRO
PROJECT MGR. *lcc* DATE 3/2/11
TRANS ADMIN. DATE
SENIOR ENGR. *RED* DATE 3/4/11
APPROVED BY: *[Signature]* DATE 3/7/11
CITY ENGINEER R.C.E. No. 34870

CITY OF SAN LEANDRO
WPCP REHABILITATION PROJECT
DEMOLITION
EXISTING HEADWORKS AND INFLUENT PUMP STATION PLAN

CONTRACT DWG 13-D-02
SHEET 83 OF 557
JOB NO. 08-593-52-239
SCALE AS NOTED
DWG. 1276 CASE 604



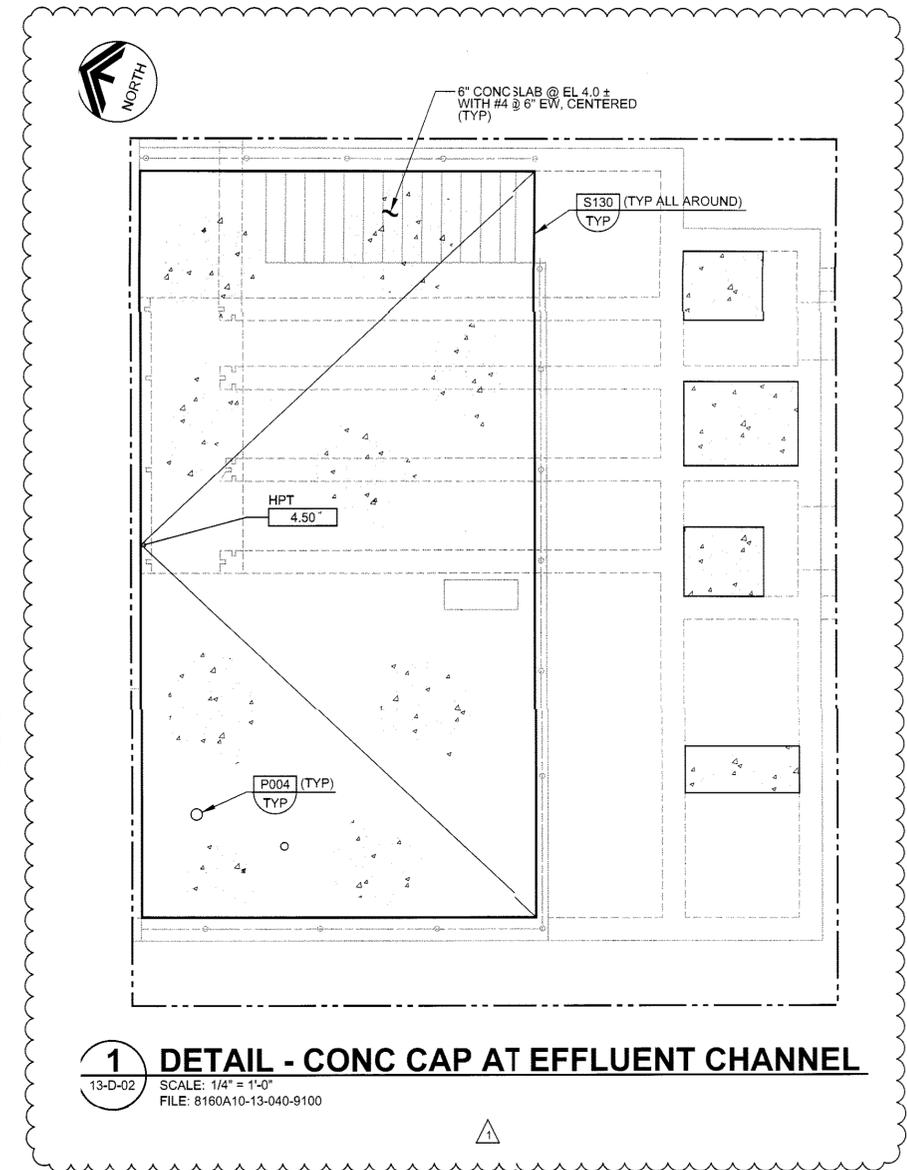
C SECTION
 13-D-02 SCALE: 1/4" = 1'-0"
 FILE: 8160A10-13-040-9300

GENERAL NOTES:

- SEE GENERAL NOTES ON DWG 01-D-01

KEY NOTES:

- REMOVE 8 CHANNEL MOUNTED GRINDERS FOR OWNER SALVAGE.
- REMOVE GATES AND ACTUATORS
- REMOVE ALUMINUM COVERS FROM CHANNELS.
- PLUG TWO INFLUENT PIPES PER TYP P058.
- PLUG AND FILL OVERFLOW BOX WITH CLASS "C" CONCRETE.
- FILL INFLUENT PIPES WITH CLSM.
- FOLLOWING REMOVAL OF ALL EQUIPMENT, FILL INFLUENT CHANNEL AREAS WITH CELLULAR CONCRETE TO EL 3.50. PLACE CELLULAR CONCRETE IN HORIZONTAL LIFTS NOT TO EXCEED 3'-0" IN DEPTH. ALLOW TO SET FOR MIN 6 HOURS PRIOR TO NEXT PLACEMENT.
- PROVIDE 2'-0" THICK LAYER OF LIGHT WEIGHT MATERIAL IN CHANNEL BOTTOM, BELOW CELLULAR CONCRETE FILL. AT 6" PERFORATED PIPE EXTEND MATERIAL UP TO 6" ABOVE TOP OF PIPE.
- PLACE STABILIZATION FABRIC BETWEEN LIGHT WEIGHT MATERIAL AND CELLULAR CONCRETE



1 DETAIL - CONC CAP AT EFFLUENT CHANNEL
 13-D-02 SCALE: 1/4" = 1'-0"
 FILE: 8160A10-13-040-9100

JOB NUMBER: 8160A.10
 FILENAME: 8160A10-13-D-004.dgn

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DESIGNED JAW
 DRAWN HPG/PGG
 CHECKED RLC
 DATE JANUARY 2011

PROJECT ENGINEER
 JAMES WICKSTROM
 No. C57732
 Exp. 12/31/11
 STATE OF CALIFORNIA

PROJECT MANAGER
 RICK L. CLAIN
 No. C4882
 Exp. 3/30/12
 STATE OF CALIFORNIA



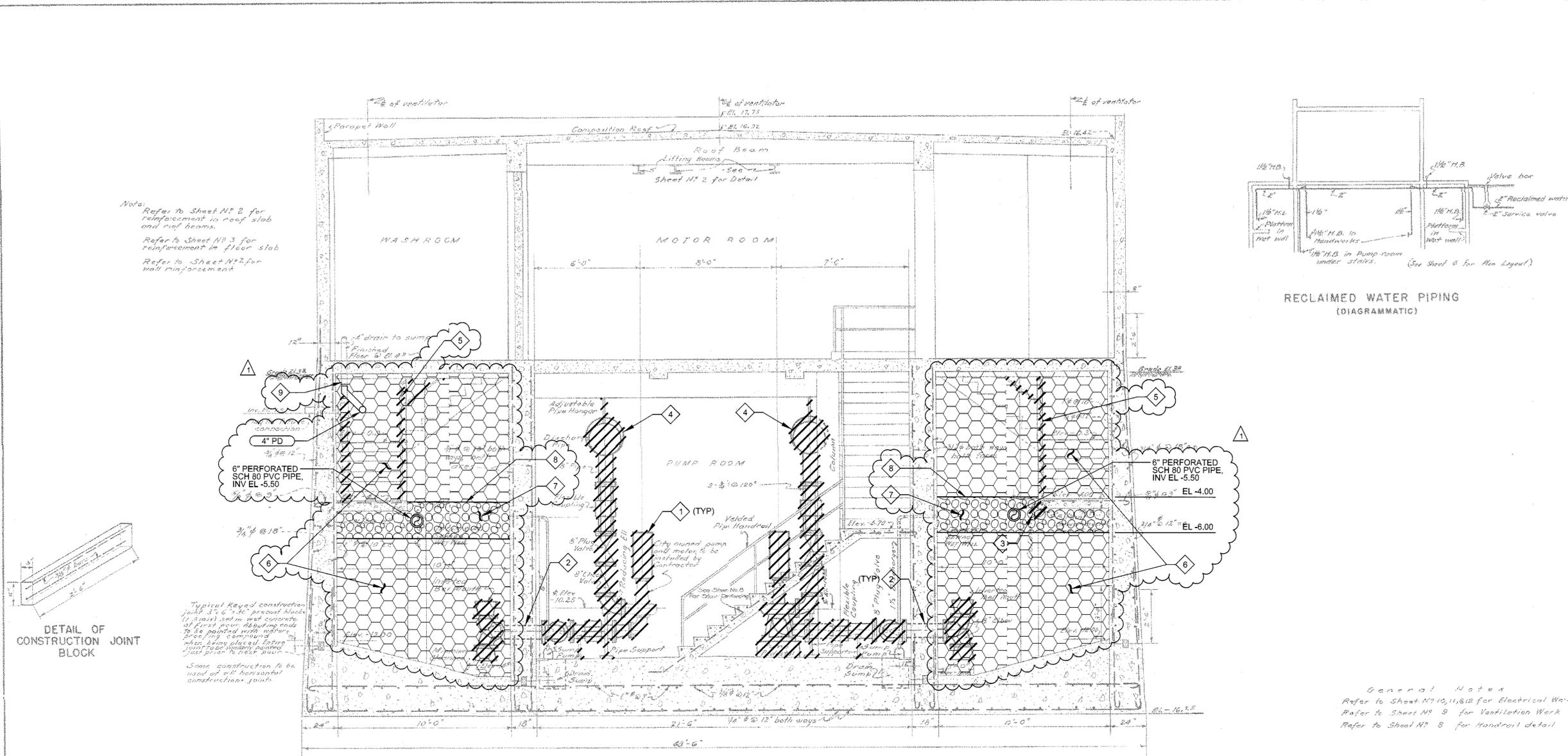
BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT (800) 227-2874. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE CITY OF SAN LEANDRO AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION.

NO.	DATE	REVISION
1	02/11	ADDENDUM NO. 1

CITY OF SAN LEANDRO
 PROJECT MGR. KC DATE 3/3/11
 TRANS. ADMIN. DATE
 SENIOR ENGR. AEO DATE 3/4/11
 APPROVED BY [Signature] DATE 3/4/11
 CITY ENGINEER, P.E. No. 34870

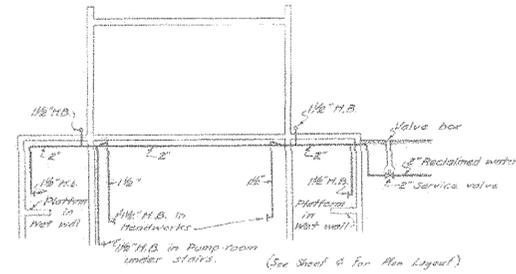
WPCP REHABILITATION PROJECT
 DEMOLITION
 EXISTING HEADWORKS AND INFLUENT PUMP STATION SECTION

CONTRACT DWG 13-D-04
 SHEET 85 OF 557
 JOB NO. 08-593-52-239
 SCALE AS NOTED
 DWG 1278 CASE 604



SECTION B-B (SEE SHEET 4)

Scale: 3/8"=1'-0"



RECLAIMED WATER PIPING (DIAGRAMMATIC)

GENERAL NOTES:

1. SEE GENERAL NOTES ON DRAWING 01-D-01.
2. THIS DRAWING HAS BEEN REDUCED TO APPROXIMATELY 80% OF ORIGINAL SIZE.
3. PUMP AND PIPING LAYOUT IS APPROXIMATE AND HAS BEEN MODIFIED SUBSEQUENT TO THE GENERATION OF THIS BACKGROUND DRAWING. CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT AND PIPING CONFIGURATIONS AND SIZES.

KEY NOTES:

1. REMOVE ALL INFLUENT PUMPS AND ASSOCIATED PIPING AND VALVING.
2. BLIND FLANGE BOTH ENDS OF PIPE SPOOLS PENETRATING WET WELL WALLS. USE ALL 316 SST HARD WARE.
3. PLUG WALL PENETRATION PER TYP S200.
4. REMOVE PIPING THROUGH WALL AND PLUG PER TYP S200.
5. REMOVE ALL EXIST HANDRAIL, PIPING, LIGHTS, CONDUIT, INSTRUMENTS, AND OTHER EQUIPMENT FROM EXISTING WETWELL.
6. FOLLOWING REMOVAL OF ALL EQUIPMENT AND MATERIALS FROM WETWELL, FILL WETWELL WITH CELLULAR CONCRETE TO EL 3.50. PLACE CELLULAR CONCRETE IN HORIZONTAL LIFTS NOT TO EXCEED 3'-0" IN DEPTH. ALLOW TO SET FOR MIN 6 HOURS PRIOR TO NEXT PLACEMENT.
7. LIGHT WEIGHT MATERIAL AROUND PERFORATED PIPE.
8. PLACE STABILIZATION FABRIC BETWEEN LIGHT WEIGHT MATL AND CELLULAR CONCRETE.
9. INTERCEPT EXIST DRAIN LINES AND ROUTE NEW 4" PD LINE TO DRAIN TO MH #13. SLOPE PIPING @ 2%.

DETAIL OF CONSTRUCTION JOINT BLOCK

Typical keyed construction joint 3' x 6' x 36" precast blocks (1" gravel sand and concrete at first pour. Rebutting ends to be painted with water proofing compound when being placed. Future joint repair/repointing needed just prior to next pour. Some construction to be used of all horizontal construction joints.

General Notes
Refer to Sheet N° 10, 11, & 12 for Electrical Work
Refer to Sheet N° 9 for Ventilation Work
Refer to Sheet N° 8 for Handrail detail

SEWAGE TREATMENT PLANT IMPROVEMENTS		
FOR THE CITY OF SAN LEANDRO, CALIFORNIA		
PUMPING STATION		
PUMP STRUCTURE		
SECTION		
ENGINEERING OFFICE OF CLYDE C. KENNEDY, SAN FRANCISCO		
DRAWN: <i>[Signature]</i>	SUBMITTED: <i>[Signature]</i>	SHEET NO.
TRACED: <i>[Signature]</i>	APPROVED FOR THE CITY OF SAN LEANDRO: <i>[Signature]</i>	5
CHECKED: <i>[Signature]</i>	<i>[Signature]</i>	
DATE: 02-18-11	CITY ENGINEER	OF 13

JOB NUMBER: 8160A.10 FILENAME: 8160A10-13-D-005.dgn
VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
DESIGNED JAW DRAWN DST CHECKED RLC DATE JANUARY 2011
DISCIPLINE ENGINEER

PROJECT ENGINEER

 PROJECT MANAGER

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 1(800)227-2600 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
02/11		ADDENDUM NO. 1

CITY OF SAN LEANDRO

PROJECT MGR. *KC* DATE *3/3/11*
 TRANS ADMIN. DATE
 SENIOR ENGR. *AEO* DATE *3/4/11*
 APPROVED BY: *[Signature]* DATE *3/4/11*
 CITY ENGINEER, P.E. No. 34870

WPCP REHABILITATION PROJECT

DEMOLITION

EXISTING HEADWORKS AND INFLUENT PUMP STATION SECTION

CONTRACT DWG 13-D-05
 SHEET 86 OF 557
 JOB NO. 08-593-52-239
 SCALE AS NOTED
 DWG. 1279_CASE_604

IRRIGATION LEGEND

SYMBOL	MODEL	DESCRIPTION (SEE NOTE 10)	PSI	GPM	RADIUS
⊕	PROS-12-PRS40-CV-MP2000-210	HUNTER HI-POP MP ROTATOR SPRINKLER	40	0.74, 0.4	TO 21'
⊖	PROS-12-PRS40-CV-MP1000-210	HUNTER HI-POP MP ROTATOR SPRINKLER	40	0.37, 0.19	TO 15'
⊖	PROS-6-PRS40-CV-MPCORNER	HUNTER MP ROTATOR SPRINKLER	40	0.19	TO 15'
★	570Z-12P-PRX-COM-SB-360-PC2	TORO POP-UP STREAM BUBBLER	30	0.74	1.5'
•	1402	RAIN BIRD PRESSURE COMPENSATING BUBBLER INSTALL ON FLEX PVC RISER	30	0.25	0.25
⊙	RZWS-36-50-CV-R	RAIN BIRD ROOT WATERING SYSTEM	30	0.5	0.5
A	IC-2400-M	JOHN DEERE/GREENTECH CONTROLLER ASSEMBLY			
B	XC-400	JOHN DEERE/GREENTECH CONTROLLER ASSEMBLY			
C	XC-400	JOHN DEERE/GREENTECH CONTROLLER ASSEMBLY			
☐	SOLAR-SP	JOHN DEERE/GREENTECH SOLAR POWER ASSEMBLY			
•	WS-SEN	HUNTER SOLAR SYNC WIRELESS WEATHER SENSOR			
⊕	LI-T	KBI SCH. 80 BALL VALVE - LINE SIZE			
---		ISOLATION GATE VALVE AT POINTS OF CONNECTION, BY CIVIL			
■	777S	WATTS WYE STRAINER, 2" SIZE WITH 60 MESH SCREEN			
⊕	2000 SERIES	GRISWOLD REMOTE CONTROL VALVE			
⊕	QB 44 LRC-10	BUCKNER QUICK COUPLING VALVE			
---		MAINLINE: PURPLE SCH 40 PVC SOLVENT WELD PIPE WITH SCH 40 PVC SOLVENT WELD FITTINGS. ALL MAINLINE TO BE SIZE 2" UNLESS OTHERWISE NOTED ON PLAN.			
---		LATERAL LINE: PURPLE CLASS 200 PVC SOLVENT WELD PIPE WITH SCH 40 PVC SOLVENT WELD FITTINGS.			
---		SLEEVE: SCH 40 PVC, SIZE AS NOTED ON PLAN.			
A-1		CONTROLLER / STATION NUMBER			
1"		REMOTE CONTROL VALVE SIZE			
20		APPROXIMATE GPM THROUGH VALVE			

IRRIGATION NOTES

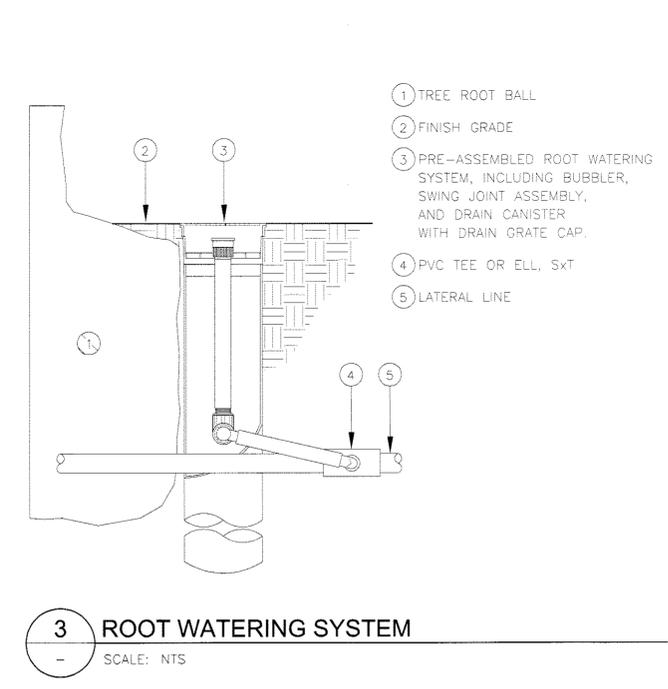
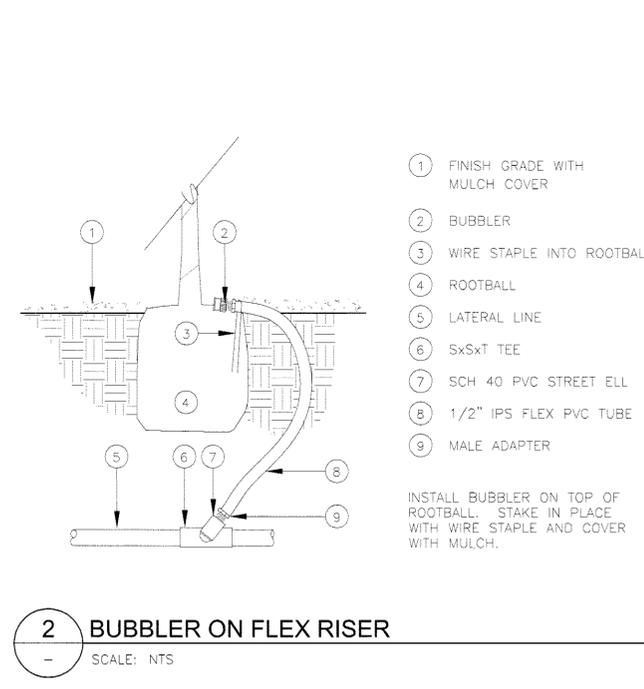
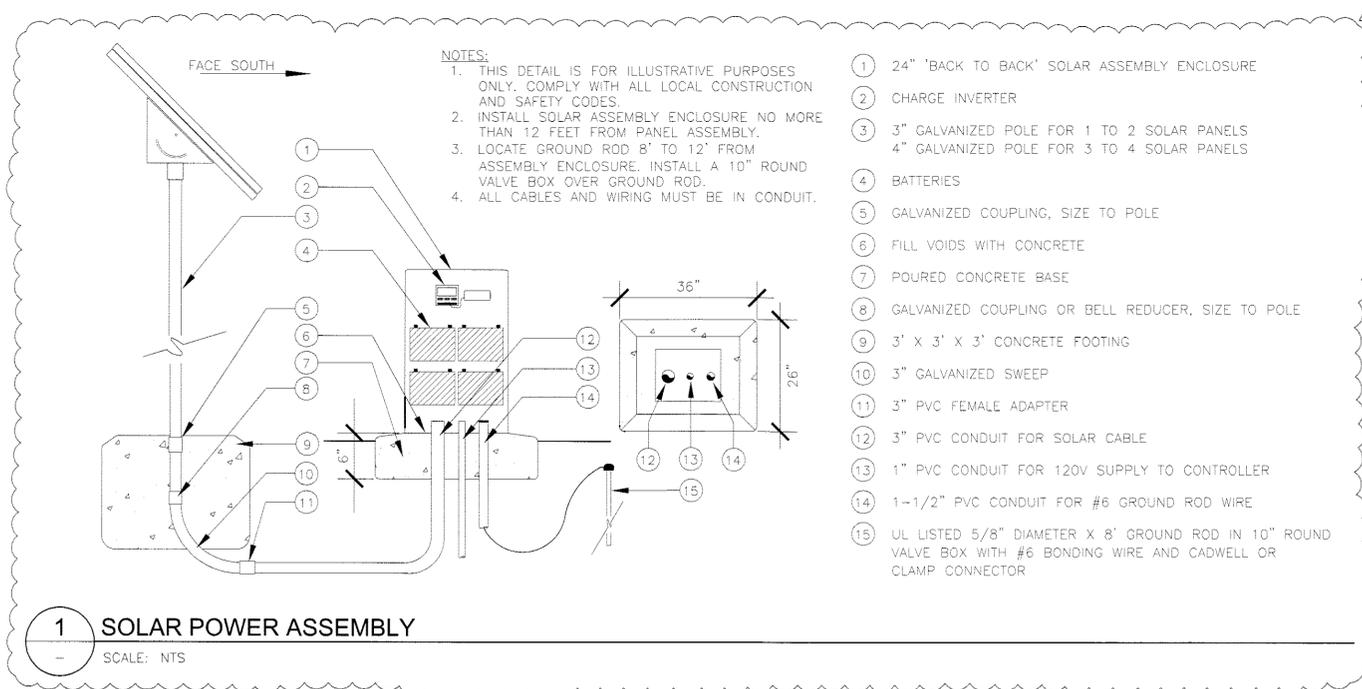
- IRRIGATION SYSTEM DEMAND IS NOTED AT EACH POINT OF CONNECTION. CONFIRM STATIC PRESSURE PRIOR TO START OF WORK. NOTIFY OWNER IF STATIC PRESSURE IS LOWER THAN STATED DEMAND. IF STATIC PRESSURE IS HIGHER THAN 70 PSI, INSTALL A WILKINS #600 PRESSURE REGULATOR DOWNSTREAM OF BACKFLOW PREVENTER. ADJUST OUTLET PRESSURE TO 70 PSI.
- MAKE IRRIGATION POINTS OF CONNECTION AS INDICATED ON PLAN AND COORDINATE WITH OTHER WORK AS REQUIRED.
- INSTALL IRRIGATION CONTROLLER ASSEMBLIES WHERE INDICATED ON PLAN. EXACT LOCATION OF CONTROLLERS AND SOLAR POWER ASSEMBLIES TO BE DETERMINED AT JOBSITE BY OWNER. INSTALL AS DETAILED AND PER MANUFACTURER'S INSTRUCTIONS. GROUND CONTROLLER AND CONFORM TO APPLICABLE LOCAL CODES. ALL CONTROLLERS TO BE INSTALLED AS PART OF BASE BID WORK.
- THE IRRIGATION PLAN IS DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE COMPLETED. IRRIGATION EQUIPMENT OR PIPING MAY BE SHOWN IN PAVED AREAS FOR GRAPHIC CLARITY. INSTALL ALL PIPING AND EQUIPMENT WITHIN PLANTING AREAS UNLESS OTHERWISE SHOWN ON PLANS.
- STAKE PROPOSED LOCATIONS OF ALL VALVE BOXES, ISOLATION BALL VALVES AND QUICK COUPLING VALVES AND OBTAIN OWNER'S APPROVAL PRIOR TO INSTALLATION.
- FULL COVERAGE IS REQUIRED. MAKE MINOR MODIFICATIONS TO LAYOUT AS REQUIRED TO OBTAIN COMPLETE COVERAGE AND REVIEW WITH OWNER.
- INSTALL CHECK VALVES ON LATERAL LINES AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.
- AVOID TRENCHING WITHIN DRIP LINE OF EXISTING TREES. WHERE TRENCHING WITHIN DRIP LINE IS UNAVOIDABLE REVIEW WITH OWNER PRIOR TO START OF WORK. USE AIR SPADE OR HAND TRENCH ONLY WITHIN THESE AREAS.
- INSTALL PIPE AND WIRE UNDER PAVING IN PVC SCH. 40 SLEEVE WHERE INDICATED ON PLAN AND AS NOTED IN SPECIFICATIONS.
- A SINGLE NAMED MANUFACTURER AND MODEL IS LISTED IN THIS SCHEDULE FOR CLARITY. SEE SPECIFICATIONS FOR ALTERNATIVE EQUIPMENT MANUFACTURER AND MODEL.

LATERAL PIPE SIZING - SHRUB BUBBLERS

NUMBER OF 1401 BUBBLERS	PIPE SIZE (CLASS 200)
1 - 32	3/4" PIPE
33 - 64	1" PIPE
65 - 100	1-1/4" PIPE
101 - 180	1-1/2" PIPE

LATERAL PIPE SIZING - SPRINKLERS

GALLONS PER MINUTE	PIPE SIZE (CLASS 200)
0 - 8 GPM	3/4" PIPE
9 - 16 GPM	1" PIPE
17 - 25 GPM	1-1/4" PIPE
26 - 35 GPM	1-1/2" PIPE
36 - 55 GPM	2" PIPE



Last Saved By: smth 3-04-11 11:25am

JOB NUMBER: 8160A.10
FILENAME: 01-L-09.dwg

VERIFY SCALES

DESIGNED BT
DRAWN BT
CHECKED KK
DATE JANUARY 2011

BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DISCIPLINE ENGINEER
LANDSCAPE ARCHITECT
JAMES WICKSTROM
No. C57732
Exp. 12/31/11
STATE OF CALIFORNIA
01/31/11

PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
RICK L CHAN
No. C48892
Exp. 9/30/12
STATE OF CALIFORNIA
01/31/11



CITY OF SAN LEANDRO

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 1-800-485-2227 - 24 HOURS. 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
02/11		ADDENDUM NO. 1

PROJECT MGR. KC DATE 3/4/11
TRANS ADMIN. DATE
SENIOR ENGR. AGO DATE 3/4/11
APPROVED DATE 3/4/11
CITY ENGINEER P.C.E. No. 34870

WPCP REHABILITATION PROJECT

LANDSCAPE

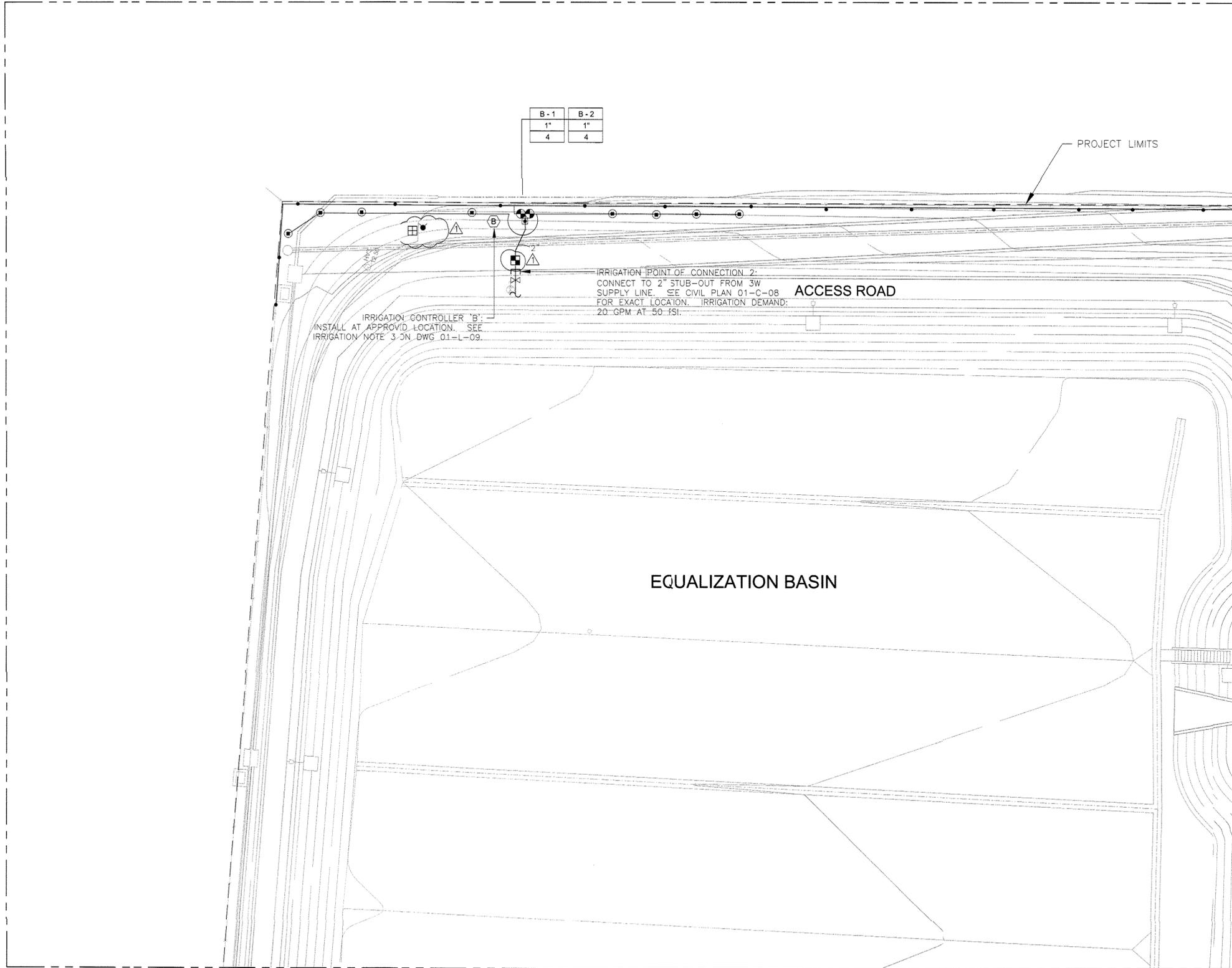
IRRIGATION LEGEND AND NOTES
ALL AREAS

CONTRACT DWG_01-L-09
SHEET 163 OF 557
JOB NO 08-593-52-239
SCALE AS NOTED
DWG_1356_CASE_604





SCALE: 1"=20'



B-1	B-2
1"	1"
4	4

PROJECT LIMITS

IRRIGATION CONTROLLER "B":
INSTALL AT APPROVD LOCATION. SEE
IRRIGATION NOTE 3 ON DWG 01-L-09.

IRRIGATION POINT OF CONNECTION 2:
CONNECT TO 2" STUB-OUT FROM 3W
SUPPLY LINE. SEE CIVIL PLAN 01-C-08
FOR EXACT LOCATION. IRRIGATION DEMAND:
20 GPM AT 50 PSI.

ACCESS ROAD

EQUALIZATION BASIN

MATCH LINE AREA 2

MATCH LINE AREA 4



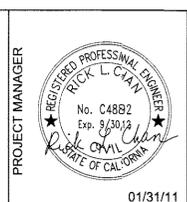
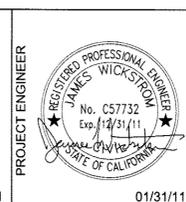
Job Number: 8160A.10
Filename: 01-L-10.dwg

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0 1" 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DESIGNED	BT
DRAWN	BT
CHECKED	KK
DATE	JANUARY 2011



BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 1 (800) 422-7272

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
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PROJECT MGR.	kc	DATE	3/3/11
TRANS ADMIN.		DATE	
SENIOR ENGR.	aco	DATE	3/4/11
APPROVED BY	<i>[Signature]</i>	DATE	3/4/11
CITY ENGINEER, No. 34870			

CITY OF SAN LEANDRO

WPCP REHABILITATION PROJECT

LANDSCAPE
**IRRIGATION PLAN
AREA 1**

CONTRACT DWG	01-L-10
SHEET	164 OF 557
JOB NO.	08-593-52-239
SCALE	AS NOTED
DWG.	1357 CASE 604



SCALE: 1"=20'

MATCH LINE AREA 1

EQUALIZATION BASIN

IRRIGATION POINT OF CONNECTION 3:
 CONNECT TO 2" STUB-OUT FROM 3W
 SUPPLY LINE. SEE CIVIL PLAN 01-C-11
 FOR EXACT LOCATION. IRRIGATION DEMAND:
 20 GPM AT 50 PSI.

IRRIGATION CONTROLLER 'C':
 INSTALL AT APPROVED LOCATION. SEE
 IRRIGATION NOTE 3 ON DWG 01-L-09.

ACCESS ROAD

PROJECT LIMITS

C-2	C-1
1"	1"
5	4

MATCH LINE AREA 5

PGA design^{INC}
 LANDSCAPE ARCHITECTS

JOB NUMBER: 8160A.10
 FILENAME: 01-L-13.dwg

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DESIGNED BT
DRAWN BT
CHECKED KK
DATE JANUARY 2011

DISCIPLINE ENGINEER



PROJECT ENGINEER



PROJECT MANAGER



BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 1 (800) 22-2-7-2610
 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
▲	02/11	ADDENDUM NO. 1

CITY OF SAN LEANDRO

PROJECT MGR. <i>KC</i> DATE <i>3/13/11</i>
TRANS ADMIN. _____ DATE _____
SENIOR ENGR. <i>KCO</i> DATE <i>3/4/11</i>
APPROVED BY <i>[Signature]</i> DATE <i>3/4/11</i>
CITY ENGINEER, License No. 34870

WPCP REHABILITATION PROJECT

LANDSCAPE
 IRRIGATION PLAN
 AREA 4

CONTRACT DWG <u>01-L-13</u>
SHEET <u>167</u> OF <u>557</u>
JOB NO. <u>08-593-52-239</u>
SCALE <u>AS NOTED</u>
DWG. <u>1360</u> CASE <u>604</u>

Last Saved By: smith 2-15-11 04:14pm



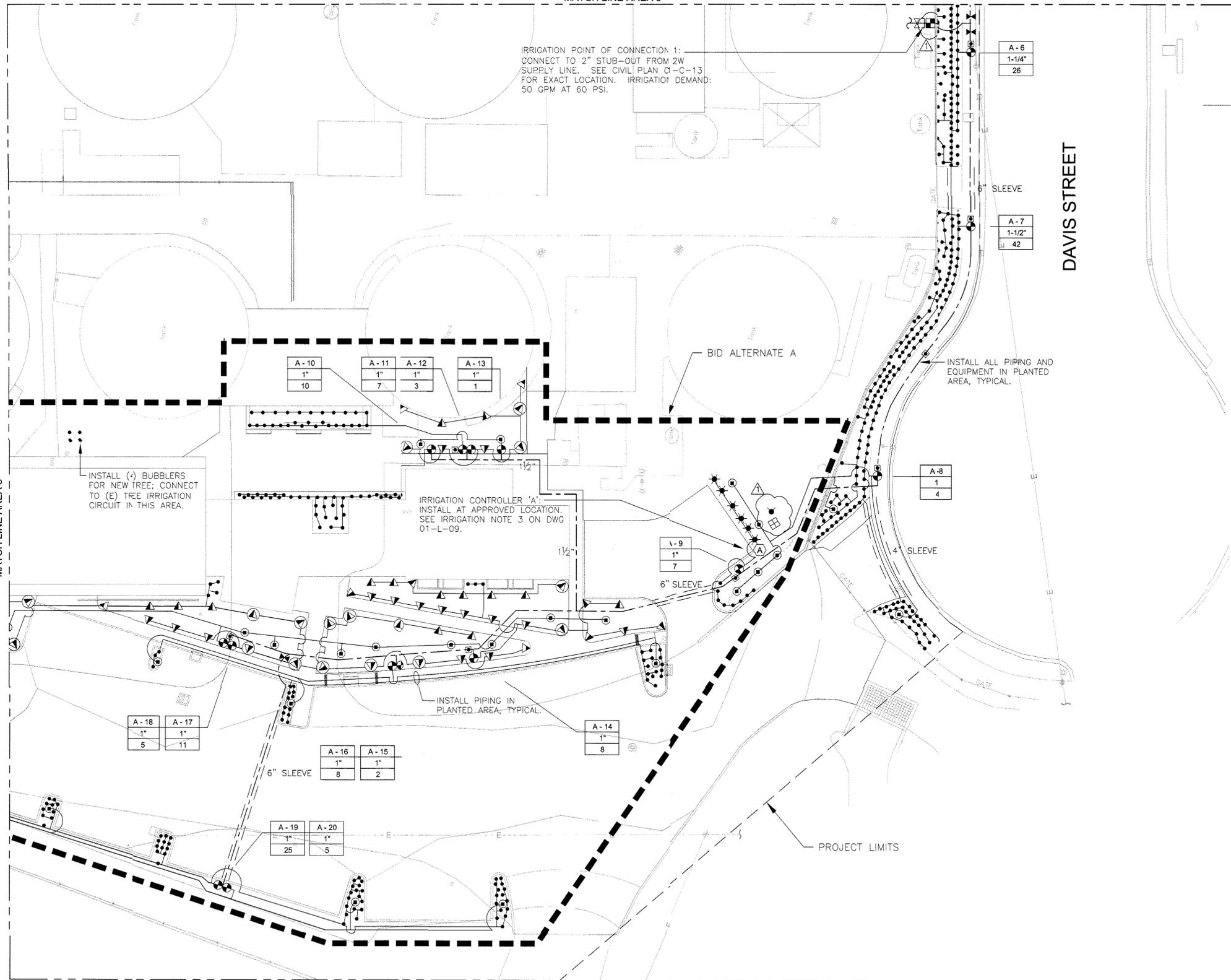
SCALE: 1"=20'

MATCH LINE AREA 3

IRRIGATION POINT OF CONNECTION 1:
CONNECT TO 2" STUB-OUT FROM 2W
SUPPLY LINE. SEE CIVIL PLAN CI-C-13
FOR EXACT LOCATION. IRRIGATION DEMAND:
50 GPM AT 60 PSI.

DAVIS STREET

MATCH LINE AREA 5



INSTALL (-) BUBBLERS FOR NEW TREE; CONNECT TO (E) TREE IRRIGATION CIRCUIT IN THIS AREA.

IRRIGATION CONTROLLER 'A':
INSTALL AT APPROVED LOCATION.
SEE IRRIGATION NOTE 3 ON DWG
01-L-09.

INSTALL PIPING IN
PLANTED AREA-TYPICAL.

INSTALL ALL PIPING AND
EQUIPMENT IN PLANTED
AREA, TYPICAL.

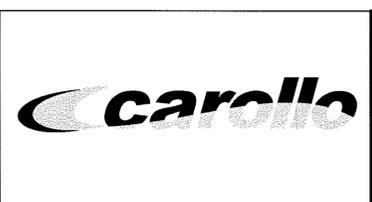
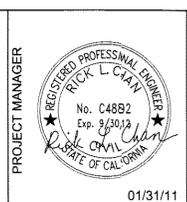
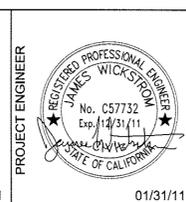
BID ALTERNATE A

PROJECT LIMITS



JOB NUMBER: 8160A.10
FILENAME: 01-L-15.dwg
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1" SCALE BAR
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DESIGNED BT
DRAWN BT
CHECKED KK
DATE JANUARY 2011



BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 1 (800) 322-7272 - 2 6 0 0
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
02/11		ADDENDUM NO. 1

CITY OF SAN LEANDRO

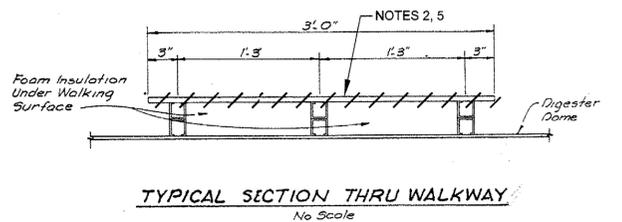
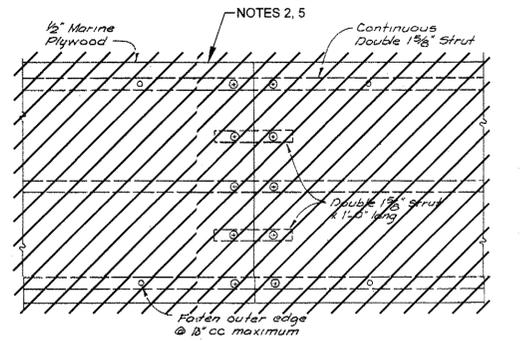
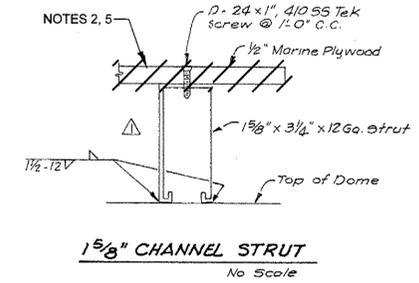
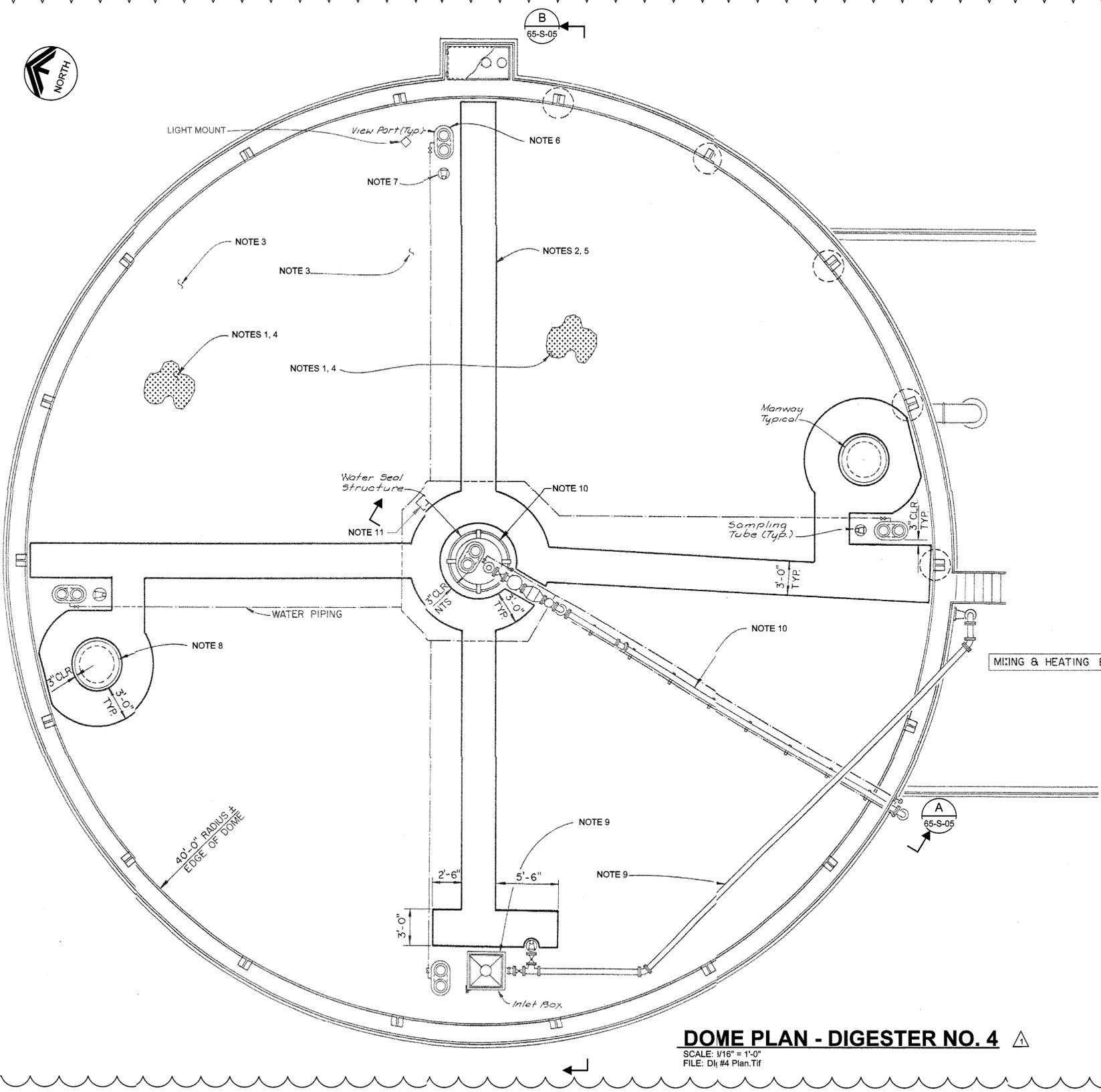
PROJECT MGR. kc DATE 3/13/11
 TRANS ADMIN. _____ DATE _____
 SENIOR ENGR. AKD DATE 3/14/11
 APPROVED BY: [Signature] DATE 3/14/11
 CITY ENGINEER, R.C.E. No. 34870

WPCP REHABILITATION PROJECT

LANDSCAPE

**IRRIGATION PLAN
AREA 6**

CONTRACT DWG 01-L-15
 SHEET 169 OF 557
 JOB NO. 08-593-52-239
 SCALE AS NOTED
 DWG. 1362 CASE 604



DOMES PLAN - DIGESTER NO. 4
 SCALE: 1/16" = 1'-0"
 FILE: D:\#4 Plan.Tif

- NOTES:**
- REMOVE EXISTING INSULATION OVER ENTIRE STEEL DIGESTER DOME EXTERIOR SURFACE. PROTECT EXISTING PIPING AND APPURTENANCES.
 - REMOVE WOOD WALKING SURFACES. PROTECT EXISTING STRUT SUPPORTS.
 - COAT STEEL DIGESTER DOME COVER EXTERIOR SURFACES WITH HIGH SOLIDS EPOXY AND POLYURETHANE SYSTEM PER SECTION 09960 BEFORE INSULATING.
 - PROVIDE SPRAY-IN-PLACE POLYURETHANE FOAM INSULATION FOR ENTIRE COVER PER SECTION 07570.
 - INSTALL 1" DEEP FRP GRATING ON EXISTING STRUT SUPPORTS. SECURE W/ TYP 316 SST HOLD DOWN CLIPS. CONFORM TO COVER CURVATURE.
 - COAT EXTERIOR OF VIEWPORTS WITH HIGH SOLIDS EPOXY AND POLYURETHANE SYSTEM PER SECTION 09960 (TYP OF 4).
 - COAT EXTERIOR OF SAMPLING TUBE WITH HIGH SOLIDS EPOXY AND POLYURETHANE SYSTEM PER SECTION 09960 (TYP OF 4).
 - COAT EXTERIOR OF MANWAY WITH HIGH SOLIDS EPOXY AND POLYURETHANE SYSTEM PER SECTION 09960 (TYP OF 2).
 - COAT EXTERIOR OF INLET BOX AND INLET PIPING AND SUPPORTS FROM INLET BOX TO ROOF OF MIXING AND HEATING BUILDING WITH HIGH SOLIDS EPOXY AND POLYURETHANE SYSTEM PER SECTION 09960.
 - COAT G/S PIPING AND SUPPORTS AND INTERIOR AND EXTERIOR SURFACES OF WATER SEAL STRUCTURE FROM WATER SEAL STRUCTURE TO GROUND SURFACE WITH HIGH SOLIDS EPOXY AND POLYURETHANE SYSTEM PER SECTION 09960.
 - COAT STEEL LIGHTING STANCHION SUPPORTS WITH HIGH SOLIDS EPOXY AND POLYURETHANE SYSTEM PER SECTION 09960 (TYP-3 LOCATIONS).

JOB NUMBER: 8160A.10
 FILENAME: 8160A10-65-S-004.dgn

DESIGNED	JAW
DRAWN	DST
CHECKED	MED
DATE	JANUARY 2011

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DISCIPLINE ENGINEER

PROJECT ENGINEER

 01/31/11

PROJECT MANAGER

 01/31/11



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NO.	DATE	REVISION
02/11		ADDENDUM NO. 1

PROJECT MGR.	KC	DATE	3/2/11
TRANS. ADMIN.		DATE	
SENIOR ENGR.	AEO	DATE	3/4/11
APPROVED BY		DATE	3/7/11

CITY OF SAN LEANDRO

WPCP REHABILITATION PROJECT

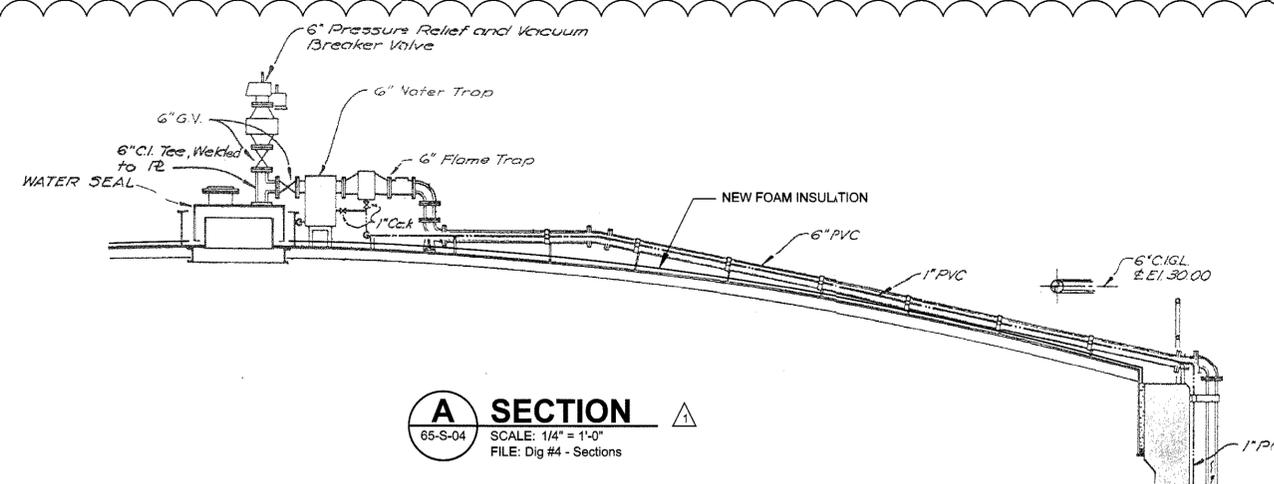
STRUCTURAL

**DIGESTER NO. 4
 PLAN AND DETAILS**

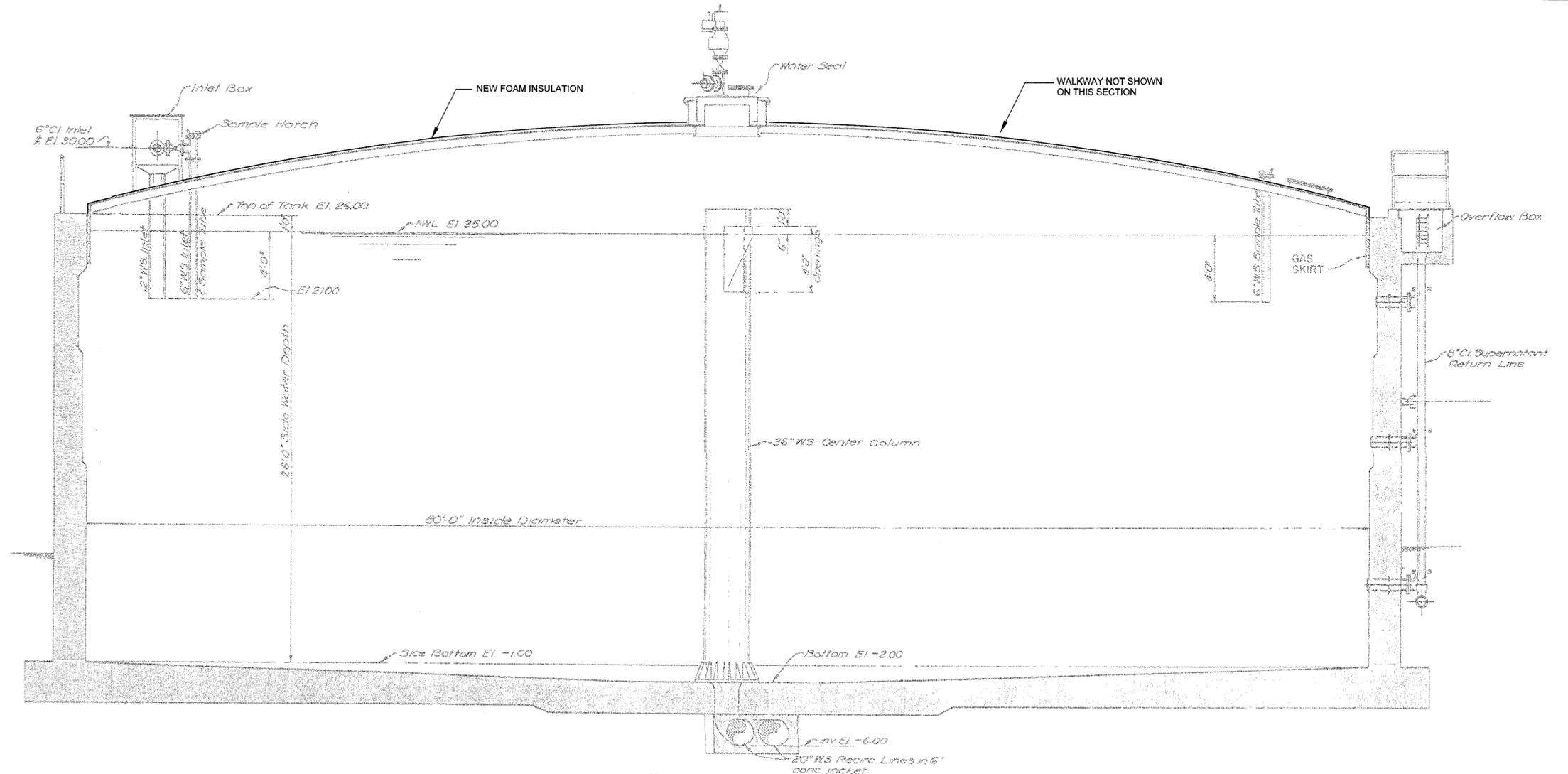
CITY ENGINEER, P.E. No. 34870

CONTRACT DWG.	65-S-04
SHEET	221.01 OF 557
JOB NO.	08-593-52-239
SCALE	AS NOTED
DWG.	1414.01 CASE 604

User: dthung
 DesignScript: Carolla Std Pen F v0905.pen PlotScale: 1:1
 ColorTable: gshade.ctb
 Model: Layout1
 08:30 AM
 LAST UPDATED: 03/01/2011



A SECTION
 65-S-04 SCALE: 1/4" = 1'-0"
 FILE: Dig #4 - Sections



B SECTION
 65-S-04 SCALE: 1/4" = 1'-0"
 FILE: Dig #4 - Sections

JOB NUMBER: 8160A.10
 FILENAME: 8160A10-65-S-005.dgn

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1" SCALE
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DESIGNED	JAW
DRAWN	DST
CHECKED	MED
DATE	JANUARY 2011

DISCIPLINE ENGINEER

PROJECT ENGINEER

 01/31/11

PROJECT MANAGER

 01/31/11



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NO.	DATE	REVISION
1	02/11	ADDENDUM NO. 1

PROJECT MGR. <i>KC</i>	DATE <i>3/3/11</i>
TRANS ADMIN. _____	DATE _____
SENIOR ENGR. <i>AEO</i>	DATE <i>3/4/11</i>
APPROVED BY <i>[Signature]</i>	DATE <i>3/7/11</i>
CITY ENGINEER, R.C.E. No. 34870	

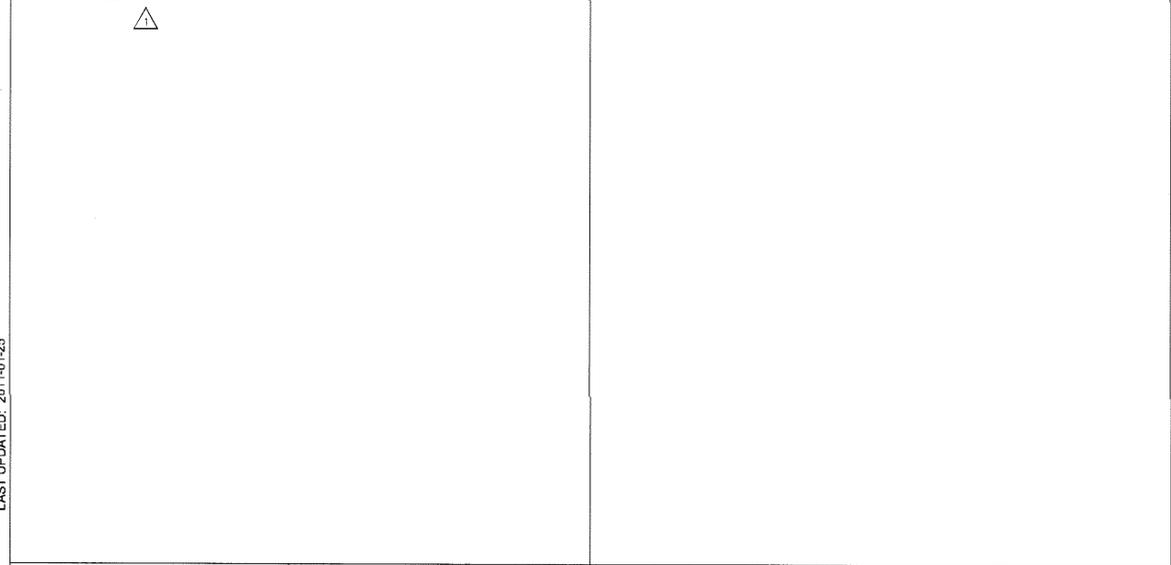
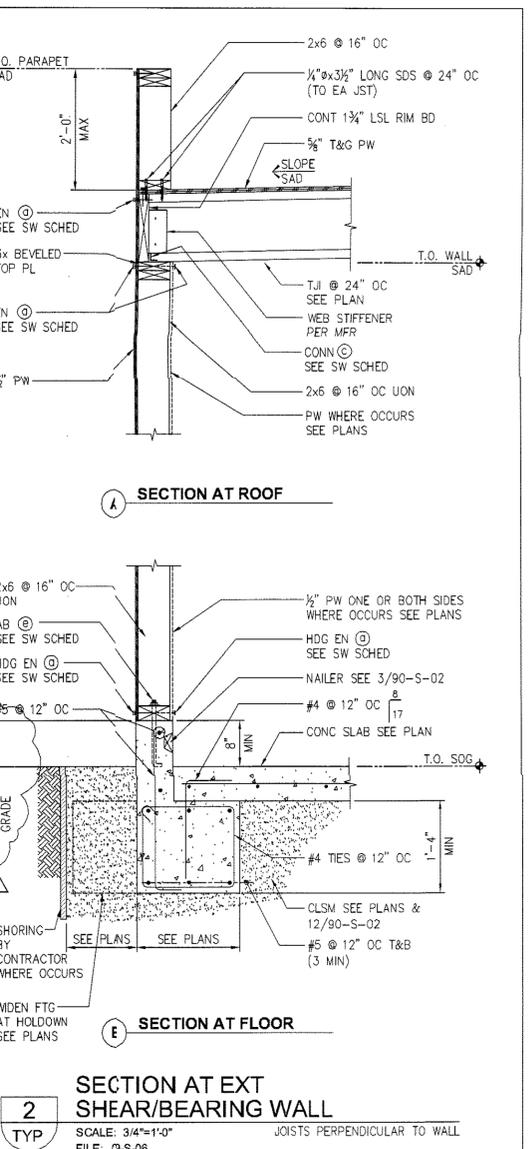
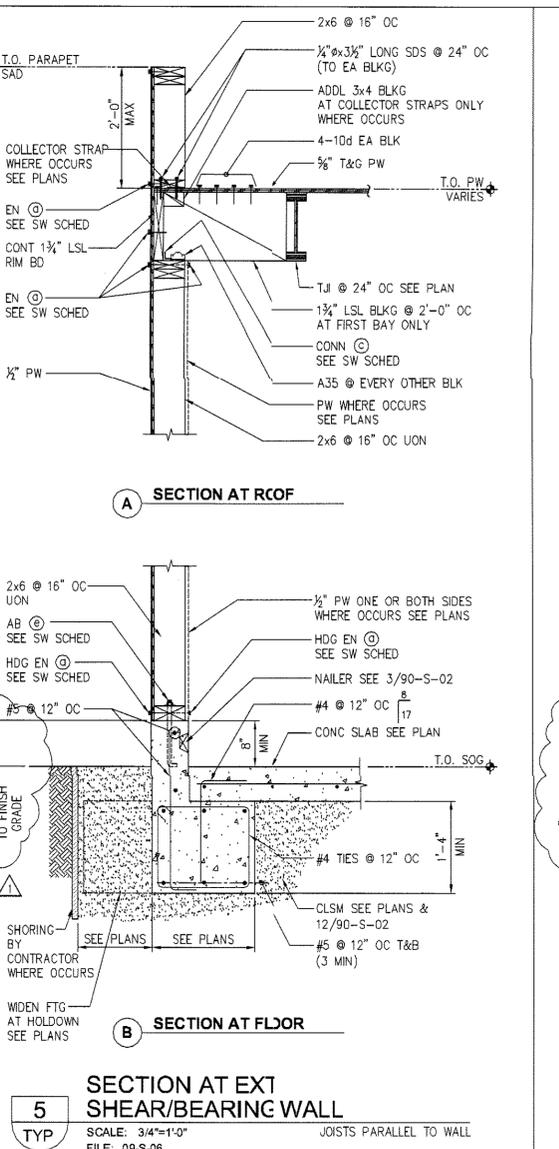
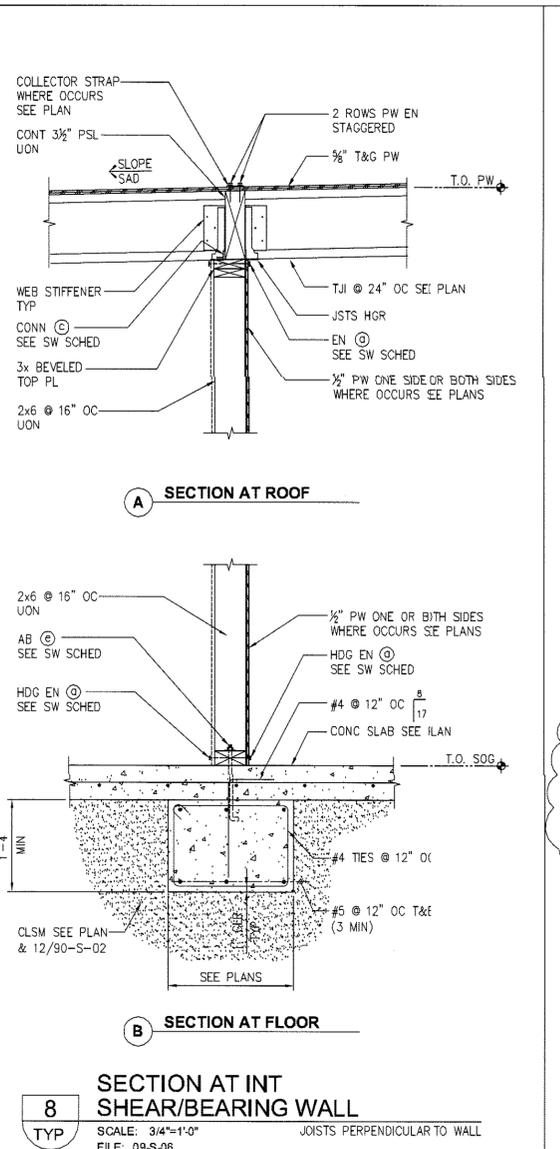
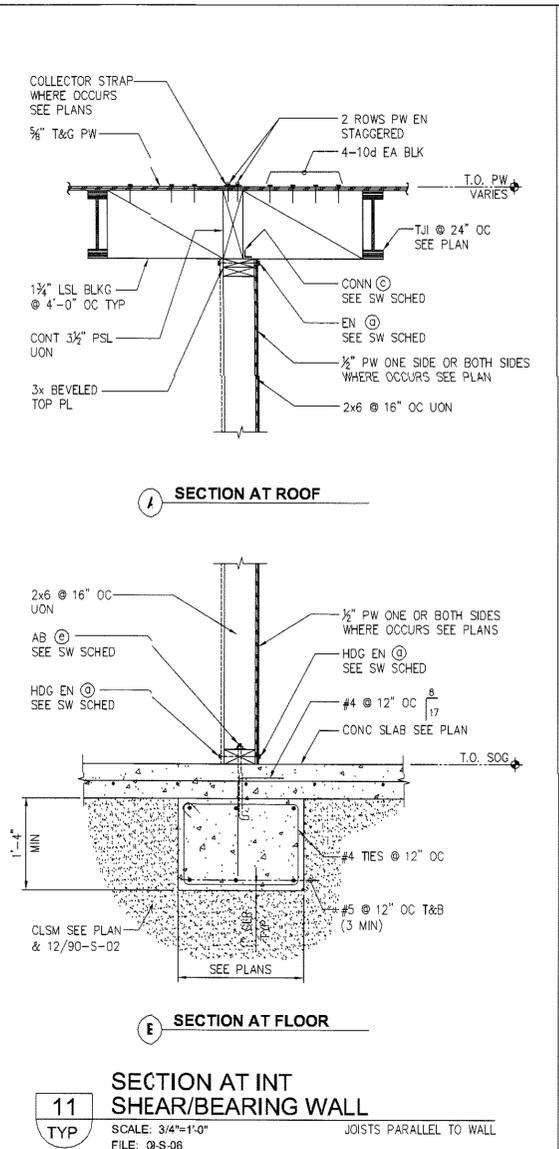
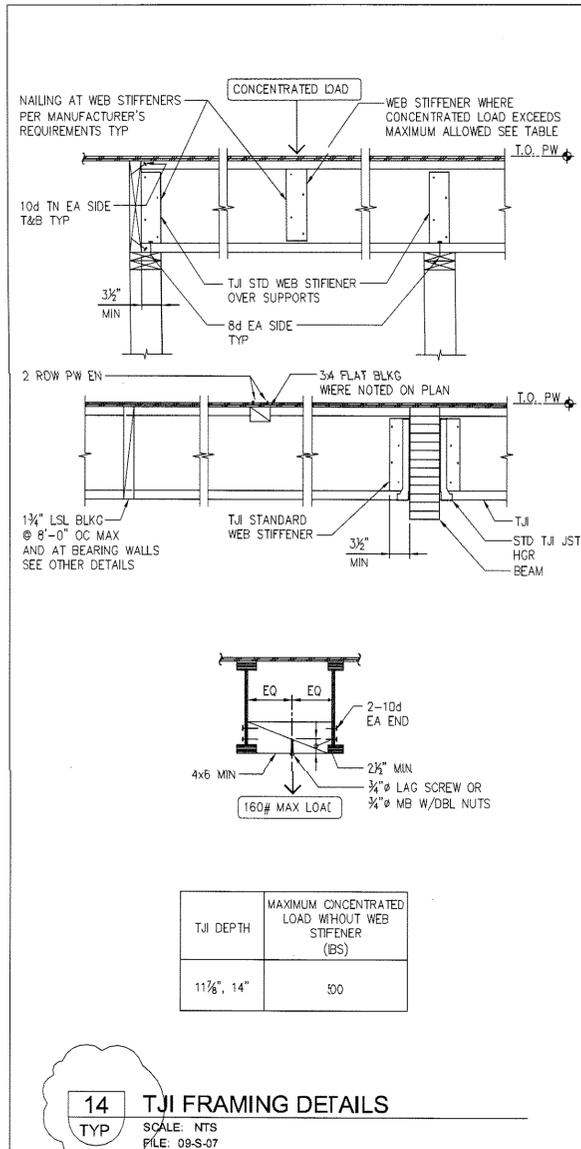
CITY OF SAN LEANDRO

WPCP REHABILITATION PROJECT

STRUCTURAL

DIGESTER NO. 4 SECTIONS

CONTRACT DWG. 65-S-05
 SHEET 221.02 OF 557
 JOB NO. 08-593-52-239
 SCALE AS NOTED
 DWG. 1414.02 CASE 604



9 ALLOWABLE HOLE SIZE TABLE FOR TJI JOISTS
 SCALE: NTS
 FILE: 09-S-07

MIN DISTANCE FROM TABLE A
 MIN DISTANCE FROM TABLE B

NO FIELD CUT HOLES IN HATCHED ZONES (APPLIES TO ALL HOLES EXCEPT KNOCKOUTS)

1 1/2" HOLE MAY BE CUT ANYWHERE IN THE WEB OUTSIDE OF HATCHED ZONE
 DO NOT CUT HOLES LARGER THAN 1 1/2" IN CANTILEVER

TABLE A - END SUPPORT
 MINIMUM DISTANCE FROM EDGE OF HOLE TO INSIDE FACE OF NEAREST END SUPPORT

DEPTH	TJI	ROUND HOLE SIZES										SQUARE OR RECTANGULAR HOLE SIZES									
		2"	3"	4"	5"	6 1/2"	8"	9"	10"	11"	13"	2"	3"	4"	5"	6 1/2"	7"	8 1/2"	11"	13"	
11 1/2"	560	1'-0"	1'-0"	1'-6"	3'-0"	5'-0"	5'-6"	8'-0"	-	-	1'-0"	2'-0"	3'-6"	5'-0"	7'-0"	7'-6"	8'-0"	-	-		
14"	560	1'-0"	1'-0"	1'-0"	1'-0"	2'-6"	3'-0"	6'-0"	9'-0"	-	1'-0"	1'-0"	1'-6"	3'-6"	6'-6"	7'-0"	9'-0"	10'-0"	-		

TABLE B - INTERMEDIATE OR CANTILEVER SUPPORT
 MINIMUM DISTANCE FROM EDGE OF HOLE TO INSIDE FACE OF NEAREST INTERMEDIATE OR CANTILEVER SUPPORT

DEPTH	TJI	ROUND HOLE SIZES										SQUARE OR RECTANGULAR HOLE SIZES									
		2"	3"	4"	5"	6 1/2"	8"	9"	10"	11"	13"	2"	3"	4"	5"	6 1/2"	7"	8 1/2"	11"	13"	
11 1/2"	560	1'-6"	3'-0"	4'-6"	5'-6"	8'-0"	8'-6"	12'-0"	-	-	3'-0"	4'-6"	6'-0"	8'-0"	10'-6"	11'-0"	12'-0"	-	-		
14"	560	1'-0"	1'-0"	1'-6"	3'-6"	5'-6"	6'-6"	9'-6"	13'-6"	-	1'-0"	3'-0"	5'-0"	7'-0"	10'-0"	11'-0"	13'-6"	15'-0"	-		

- NOTES:
- DO NOT CUT HOLES IN CANTILEVER AREA WITHOUT CONSULTING YOUR TRUSS JOIST REPRESENTATIVE.
 - HOLE SIZE: THE SIZE GIVEN IN THE TABLE ARE HOLE SIZE, NOT DUCT SIZES. RECTANGULAR HOLE SIZE ARE BASED ON MEASUREMENT OF THE LONGEST SIDE.
 - TJI JOIST TOP AND BOTTOM FLANGES SHOULD NEVER BE CUT.
 - THESE TABLES ARE FOR GENERAL INFORMATION ONLY. ALL WEB PENETRATIONS SHALL BE VERIFIED WITH THE MANUFACTURER.
 - IF MORE THAN ONE HOLE IS CUT INTO THE WEB, THE DISTANCE BETWEEN THE EDGES OF THE HOLES MUST BE AT LEAST 2x THE LENGTH OF THE LARGEST HOLE.
 - HOLES MAY BE LOCATED VERTICALLY ANYWHERE WITHIN THE WEB. LEAVE 1/4" OF WEB MINIMUM AT TOP AND BOTTOM OF HOLE.
 - TJI JOISTS ARE MANUFACTURED WITH 1 1/2" PERFORATED KNOCKOUTS IN THE WEB AT APPROXIMATELY 12 ON CENTER ALONG THE LENGTH OF THE JOIST.
 - DISTANCES IN THE TABLES ABOVE ARE BASED ON UNIFORMLY LOADED JOISTS. FOR OTHER LOAD CONDITIONS OR HOLE CONFIGURATIONS NOT INCLUDED IN THESE TABLES, CONTACT YOUR TRUSS JOIST REPRESENTATIVE.
 - FOR SIMPLE SPAN (5 FOOT MIN) UNIFORMLY LOADED JOISTS, ONE MAXIMUM SIZE ROUND HOLE MAY BE LOCATED AT THE CENTER OF THE JOIST SPAN PROVIDED NO OTHER HOLES OCCUR IN THE JOIST. DO NOT CUT INTO FLANGES WHEN CUTTING OUT WEB.

JOB NUMBER: 8160A.10
 FILENAME: 90-S-07.dwg

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1" = 10'-0"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DESIGNED: JF
 DRAWN: MJ, XG
 CHECKED: NI
 DATE: JANUARY 2011

DISCIPLINE ENGINEER: [Signature]

PROJECT ENGINEER: [Signature]

REGISTERED PROFESSIONAL ENGINEER: JAMES WICKSTROM, No. C57732, Exp. 12/31/11

PROJECT MANAGER: [Signature]

REGISTERED PROFESSIONAL ENGINEER: RICK L. CLAY, No. C4882, Exp. 3/30/12

CITY OF SAN LEANDRO INCORPORATED 1872

carollo

CITY OF SAN LEANDRO

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 1 (800) 227-2600

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NO.	DATE	REVISION
1	02/2011	ADDENDUM NO. 1

PROJECT MGR: KC DATE: 3/2/11
 TRANS ADMIN: DATE: DATE
 SENIOR ENGR: AEO DATE: 3/4/11
 APPROVED BY: [Signature] DATE: 2/7/11
 CITY ENGINEER: RICK L. CLAY

WPCP REHABILITATION PROJECT
 STRUCTURAL

ADMINISTRATION CONTROL BUILDING TYPICAL WOOD DETAILS

CONTRACT DWG: 90-S-07
 SHEET: 465 OF 557
 JOB NO.: 08-593-52-239
 SCALE: AS NOTED
 DWG: 1658 CASE 604

IDA PROJECT No: 08056

SCHEDULE OF SPECIAL INSPECTION SERVICES			
MATERIAL OR ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT	
		Y/N	EXTENT
1704.2 INSPECTION OF FABRICATORS			
VERIFY FABRICATION/QUALITY CONTROL PROCEDURES.	IN-PLANT REVIEW	Y	PERIODIC
1704.3 STEEL CONSTRUCTION			
MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS.	REVIEW MATERIAL MARKINGS AND CERTIFICATES OF COMPLIANCE	Y	PERIODIC
INSPECTION OF HIGH-STRENGTH BOLTING:	FIELD INSPECTION		
A. BEARING-TYPE CONNECTIONS		Y	PERIODIC
B. PRE-TENSIONED OR SLIP-CRITICAL CONNECTIONS			
1) TURN-OF-NUT WITH MATCHING MARKINGS		Y	PERIODIC
2) DIRECT TENSION INDICATOR		Y	PERIODIC
3) TWIST-OFF BOL		Y	PERIODIC
4) TURN-OF-NUT WITHOUT MATCHING MARKINGS		Y	CONTINUOUS
5) CALIBRATED WRINCH		Y	CONTINUOUS
MATERIAL VERIFICATION OF STRUCTURAL STEEL:			
A. IDENTIFICATION MARKINGS	FIELD INSPECTION	Y	PERIODIC
B. CERTIFIED MILL TESTS	REVIEW SUBMITTALS	Y	EACH SUBMITTAL
WELD FILLER MATERIALS.	REVIEW CERTIFICATE OF COMPLIANCE AND FIELD VERIFICATION	Y	PERIODIC AND EACH SUBMITTAL
STRUCTURAL STEEL WELDING:			
A. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS		Y	CONTINUOUS
B. MULTI-PASS FILLET WELDS		Y	CONTINUOUS
C. SINGLE-PASS FILLET WELDS GREATER THAN 5/16"		Y	CONTINUOUS
D. SINGLE-PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"		Y	PERIODIC
E. ROOF DECK WELDS		N	PERIODIC
REINFORCING STEEL WELDING:			
A. VERIFICATION OF WELDABILITY OF STEEL OTHER THAN ASTM A 706		N	PERIODIC
B. REINFORCING STEEL - RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL CONCRETE SHEAR WALLS, AND SHEAR REINFORCEMENT		N	CONTINUOUS
C. SHEAR REINFORCEMENT		N	CONTINUOUS
D. OTHER REINFORCING STEEL		N	PERIODIC
INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS.			
A. DETAILS SUCH AS BRACING AND STIFFENING		N	PERIODIC
B. MEMBER LOCATIONS		N	PERIODIC
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION		N	PERIODIC

SCHEDULE OF SPECIAL INSPECTION SERVICES			
MATERIAL OR ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT	
		Y/N	EXTENT
1704.4 CONCRETE CONSTRUCTION			
INSPECTION OF REINFORCING STEEL INSTALLATION.	FIELD INSPECTION	Y	PERIODIC
INSPECTION OF PRESTRESSING STEEL INSTALLATION.	IN-PLANT OR FIELD REVIEW	N	PERIODIC
INSPECTION OF PRESTRESSED CONCRETE:			
A. APPLICATION OF PRESTRESSING FORCE		N	CONTINUOUS
B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM		N	CONTINUOUS
INSPECTION OF CAST-IN-PLACE BOLTS PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED PER IBC SECTION 1912.5.	FIELD INSPECTION	N	CONTINUOUS
VERIFICATION OF REQUIRED DESIGN MIX.	REVIEW SUBMITTALS	Y	PERIODIC
FRESH CONCRETE SAMPLING.	FIELD TESTING	Y	CONTINUOUS
INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	FIELD REVIEW	N	CONTINUOUS
CONCRETE CURING OPERATIONS.	FIELD REVIEW	Y	PERIODIC
ERECTION OF PRECAST CONCRETE MEMBERS.	FIELD REVIEW	N	PERIODIC
EVALUATION OF CONCRETE STRENGTH.	FIELD TESTING AND REVIEW LABORATORY REPORTS	Y	PERIODIC
VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	REVIEW FIELD TESTING AND LABORATORY REPORTS	N	PERIODIC
1704.5.3 LEVEL 2 SPECIAL INSPECTION			
FROM THE BEGINNING OF MASONRY CONSTRUCTION, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:			
A. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.		Y	PERIODIC
B. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MAJOR JOINTS.		Y	PERIODIC
C. PLACEMENT OF REINFORCEMENT, CONNECTORS AND ANCHORAGE		Y	PERIODIC
D. GROUT SPACE PRIOR TO GROUTING		Y	CONTINUOUS
E. PLACEMENT OF GROUT		Y	CONTINUOUS
F. PLACEMENT OF PRESTRESSING GROUT		N	CONTINUOUS
THE INSPECTION PROGRAM SHALL VERIFY:			
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS		Y	PERIODIC
B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OR MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.		Y	CONTINUOUS
C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT		Y	PERIODIC
D. WELDING OF REINFORCING BARS		N	CONTINUOUS
E. PROTECTION OF MASONRY DURING COOL WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)		Y	PERIODIC
F. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE		N	CONTINUOUS
PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND OR PRISMS SHALL BE OBSERVED.		Y	CONTINUOUS
COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED		Y	PERIODIC

SCHEDULE OF SPECIAL INSPECTION SERVICES			
MATERIAL OR ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT	
		Y/N	EXTENT
1704.7 SOILS			
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	FIELD INSPECTION	Y	PERIODIC
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	FIELD INSPECTION	Y	PERIODIC
PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	FIELD INSPECTION	Y	PERIODIC
VERIFY SITE PREPARATION COMPLIES WITH APPROVED GEOTECHNICAL REPORT.	FIELD INSPECTION	Y	CONTINUOUS
VERIFY PLACEMENT AND COMPACTION OF FILL MATERIALS COMPLIES WITH APPROVED GEOTECHNICAL REPORT.	FIELD INSPECTION	Y	CONTINUOUS
VERIFY DRY-DENSITY OF COMPACTED FILL COMPLIES WITH APPROVED GEOTECHNICAL REPORT.	REVIEW FIELD TESTING	Y	PERIODIC
1707.2 STRUCTURAL STEEL			
CONTINUOUS INSPECTION OF STRUCTURAL WELDING IN ACCORDANCE WITH AISC SEISMIC PROVISIONS	SHOP AND FIELD INSPECTION	Y	CONTINUOUS
1708.3 REINFORCING AND PRESTRESSING STEEL			
REVIEW CERTIFIED MILL TEST REPORTS	FIELD REVIEW	Y	EACH SUBMITTAL
VERIFY REINFORCING STEEL WELDABILITY	REVIEW TESTING REPORTS	N	EACH SUBMITTAL
1708.4 STRUCTURAL STEEL TESTING FOR SEISMIC RESISTANCE			
ULTRASONICALLY TEST FOR DISCONTINUITIES BEHIND AND ADJACENT TO WELDS WITH BASE METAL THICKER THAN 1.5 INCHES WHERE SUBJECT TO THROUGH-THICKNESS WELD SHRINKAGE STRAINS.	SHOP AND FIELD TESTING	Y	EACH OCCURRENCE

LAST UPDATED: 2011-01-25

JOB NUMBER: 8160A.10
 FILENAME: 90-S-08.dwg

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1" SCALE
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DISCIPLINE ENGINEER



PROJECT ENGINEER



PROJECT MANAGER



BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 1 (800) 227-2600
 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	02/20/11	ADDENDUM NO. 1

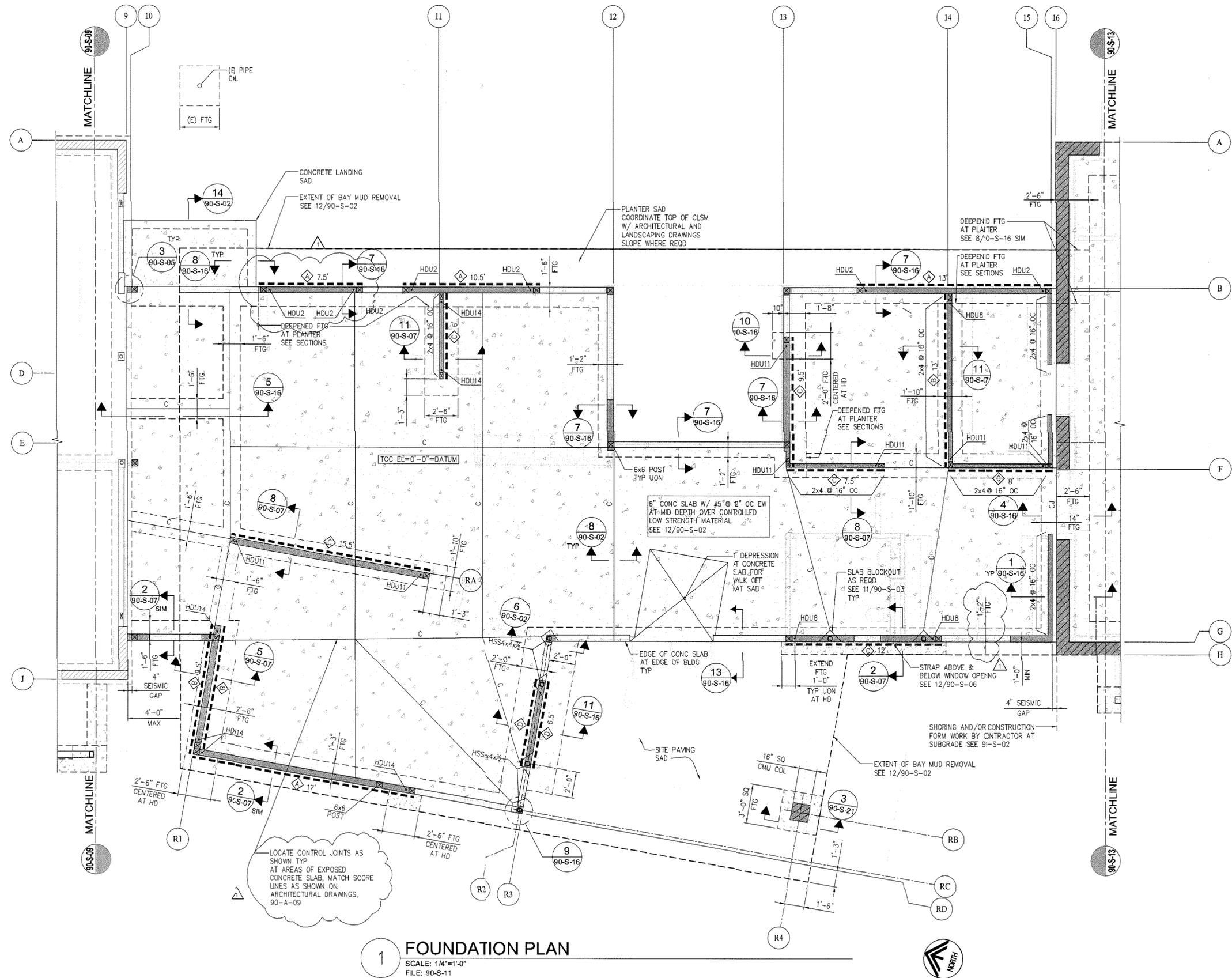
PROJECT MGR. KC DATE 3/2/11
 TRANS ADMIN. _____ DATE _____
 SENIOR ENGR. AEO DATE 3/4/11
 APPROVED BY: _____ DATE 3/1/11
 CITY ENGINEER, P.E. NO. 34870

CITY OF SAN LEANDRO

WPCP REHABILITATION PROJECT
 STRUCTURAL
 ADMINISTRATION CONTROL BUILDING
 SCHEDULE OF SPECIAL INSPECTION SERVICES

CONTRACT DWG. 90-S-08
 SHEET 466 OF 557
 JOB NO. 08-593-52-239
 SCALE AS NOTED
 DWG. 1859 CASE 604

INGRAM-DEJESSE ASSOCIATES
 Consulting Structural Engineers
 1629 Telegraph Ave., #300 Oakland, CA 94612
 ph (510) 834-1629 fax (510) 836-1629 www.ida-se.com



1 FOUNDATION PLAN
 SCALE: 1/4"=1'-0"
 FILE: 90-S-11

INGRAM-DEJESSE ASSOCIATES
 Consulting Structural Engineers
 1629 Telegraph Ave. #300 Oakland, CA 94612
 ph (510) 834-1629 fax (510) 834-1629 www.ida-je.com

LAST UPDATED: 2011-01-25
 LAST SAVED BY: MJ

JOB NUMBER: 8160A.10
 FILENAME: 90-S-11.dwg

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0" = 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DESIGNED JF		PROJECT ENGINEER
DRAWN MJ, XG		DISCIPLINE ENGINEER
CHECKED NI		PROJECT ENGINEER
DATE JANUARY 2011		PROJECT ENGINEER

carollo

PROJECT MANAGER



BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 1 (800) 227-2600. 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	02/2011	ADDENDUM NO. 1

CITY OF SAN LEANDRO

PROJECT MGR. *KC* DATE 3/3/11
 TRANS ADMIN. DATE
 SENIOR ENGR. *ACD* DATE 3/4/11
 APPROVED BY: *[Signature]* DATE 3/7/11
 CITY ENGINEER, C.E. No. 34870

WPCP REHABILITATION PROJECT

STRUCTURAL

**ADMINISTRATION CONTROL BUILDING
 ADMIN/ENTRY BUILDING FOUNDATION PLAN**

CONTRACT DWG 90-S-11
 SHEET 469 OF 557
 JOB NO. 08-593-52-239
 SCALE AS NOTED
 DWG. 1662 CASE 604

CERTIFICATE OF COMPLIANCE (Page 1 of 4) LTG-1C

Project Name: WPCP REHABILITATION PROJECT Date: 1/20/11

Project Address: SAN LEANDRO Climate Zone: 3 Building CFA: 7381 Unconditioned Floor Area:

General Information:
 Nonresidential High-Rise Residential Hotel / Motel
 Schools Relocatable Public Schools Conditioned Spaces Unconditioned Spaces
Phase of Construction: New Construction Addition Alteration
Method of Compliance: Complete Building Area Category Tailored

Documentation Author's Declaration Statement
I certify that this Certificate of Compliance documentation is accurate and complete.

Name: RONALD ZEIGER Signature: [Signature] Date: 1/20/11
Company: ZEIGER ENGINEERS, INC. Address: 478 3RD STREET City/State/Zip: OAKLAND, CA 94607 Phone: 510-452-9391

Principal Lighting Designer's Declaration Statement
I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design. This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title 24, Pages 1 and 6 of the California Code of Regulations. The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: RONALD ZEIGER Signature: [Signature] Date: 1/20/11
Company: ZEIGER ENGINEERS, INC. Address: 478 3RD STREET City/State/Zip: OAKLAND, CA 94607 License #: E7218 Phone: 510-452-9391

Lighting Mandatory Measures
Indicate location on building plans of Mandatory Measures Note Block: _____

LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included)
 LTG-1C Pages 1 through 4 Certificate of Compliance. All Pages required on plans for all submittals.
 LTG-2C Lighting Controls Credit Worksheet
 LTG-3C Indoor Lighting Power Allowance
 LTG-4C Pages 1 through 4 Tailored Method Worksheet
 LTG-5C Pages 1 and 2 Line Voltage Track Lighting Worksheet

2008 Nonresidential Compliance Forms August 2009

CERTIFICATE OF COMPLIANCE (Page 2 of 4) LTG-1C

INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Project Name: WPCP REHABILITATION PROJECT Date: 1/20/11

Installation Certificate, LTG-1-INST (Retain a copy and verify form is completed and signed.) Field Inspector: [Signature]

Certificate of Acceptance, LTG-2A (Retain a copy and verify form is completed and signed.) Field Inspector: [Signature]

A separate Lighting Schedule must be filled out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for: CONDITIONED SPACE UNCONDITIONED SPACE

The actual indoor lighting power listed below includes all installed permanent and portable lighting systems in accordance with §146(a).
 Only for offices: Up to the first 0.2 watts per square foot of portable lighting shall not be required to be included in the calculation of actual indoor lighting power density in accordance with the Exception to §146(a). All portable lighting in excess of 0.2 watts per square foot is totaled below.

A	B	C	D	E		F	G	H		
				Watts per Luminaire	How wattage was determined				Number of Luminaires	Field Inspector ²
	Complete Luminaire Description (i.e. 31 amp fluorescent troffer, F32T8, one dimmable electronic ballast)	Special Features	Watts per Luminaire	CEC Default from NAB	According to §130 (d or e)	Number of Luminaires	Installed Watts (D x E)	Pass	Fail	
F1	2'X2' RECESSED FLUOR.		28			5	140			
F2	2'X2' RECESSED FLUOR.		34			48	1632			
F3	2'X4' RECESSED FLUOR.		56			23	1288			
F4	4'1' FLUORESCENT		64			4	256			
F5	LED DOWNLIGHT		27			73	1971			
F7	8'1' FLUORESCENT		126			2	332			
F10	1'X4' WRAPAROUND		64			9	576			
F11	DECORATIVE PENDANT		10			2	20			
INSTALLED WATTS PAGE TOTAL:								6215		
Building total number of pages								Installed Watts Building Total		
								(Sum of all pages)		
								Enter into LTG-1C Page 4 of 4		

1. Wattage shall be determined according to Section 130 (d and e). Wattage shall be rating of light fixture, not rating of bulb.
2. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

2008 Nonresidential Compliance Forms August 2009

CERTIFICATE OF COMPLIANCE (Page 3 of 4) LTG-1C

Project Name: WPCP REHABILITATION PROJECT Date: 1/20/11

INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Fill in controls for all spaces: a) area controls, b) multi-level controls, c) manual daylighting controls for daylight areas > 250 ft², automatic daylighting controls for daylight areas > 2,500 ft², d) shut-off controls, e) display lighting controls, f) tailored lighting controls - general lighting controlled separately from display, ornamental and display case lighting and g) demand responsive automatic controls for retail stores > 50,000 ft², in accordance with Section 131.

MANDATORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST

Type / Description	Number of Units	Location in Building	Special Features	Pass	Fail
WALL OCCUPANCY SENSOR	15	RM 90.23-90.27, 90.31, 90.33, 90.22, 90.04, 90.05, 90.14-90.18			
CEILING OCCUPANCY SENSOR	7	RM 90.28-90.30, 90.02, 90.03, 90.06, 90.13			
CEILING OCCUPANCY/DAYLIGHT SENSOR	7	90.03, 90.07-90.12			
WALL OVERRIDE SWITCH	9	90.28, 90.02, 90.06			
OVERRIDE SWITCH STATION	2	90.01, 90.20			
LIGHTING CONTROL PANEL	1	90.17			

SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of LTG-1C)
The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation submitted.

Field Inspector's Notes or Discrepancies:

2008 Nonresidential Compliance Forms August 2009

JOB NUMBER: 8160A.10

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DESIGNED: RZ
DRAWN: AG/MSL
CHECKED: RZ
DATE: JANUARY 2011

DISCIPLINE ENGINEER: [Seal: Ronald D. Zeiger, No. E7218, Exp. 9/30/12]

PROJECT ENGINEER: [Seal: James Wickstrom, No. CS7732, Exp. 1/31/11]

PROJECT MANAGER: [Seal: Rick L. Chan, No. C48892, Exp. 9/30/12]

carollo

CITY OF SAN LEANDRO
INCORPORATED 1872

BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT 1 (800) 227-2800. 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	02/2011	ADDENDUM NO.1

PROJECT MGR. [Signature] DATE 3/9/11
TRANS. ADMIN. DATE
SENIOR ENGR. [Signature] DATE 3/4/11
APPROVED BY [Signature] DATE 3/2/11
CITY ENGINEER, R.C.E. No. 34870

WPCP REHABILITATION PROJECT
ELECTRICAL
ADMINISTRATION CONTROL BUILDING
BUILDING COMPLIANCE FORMS (PART 1 OF 2)

CONTRACT DWG_90-E-09
SHEET 555 OF 557
JOB NO. 08-593-52-239
SCALE AS NOTED
DWG. 1748_CASE 604

ZEIGER ENGINEERS, INC.
ELECTRICAL CONSULTANTS
478 3RD STREET
OAKLAND, CA 94607
TEL (510) 452-9391
FAX (510) 452-0661

13315 | 02/23/10

CERTIFICATE OF COMPLIANCE (Page 4 of 4) **LTG-1C**

Project Name: **WPCP REHABILITATION PROJECT** Date: **1/20/11**

Conditioned and Unconditioned space Lighting must not be combined for compliance

Indoor Lighting Power for Conditioned Spaces		Indoor Lighting Power for Unconditioned Spaces	
Installed Lighting (from Conditioned LTG-1C Page 2)	Watts	Installed Lighting (from Unconditioned LTG-1C Page 2)	Watts
Lighting Control Credit	6215	Lighting Control Credit	
Conditioned Spaces (from LTG-2C)		Unconditioned Spaces (from LTG-2C)	
Adjusted Installed Lighting Power		Adjusted Installed Lighting Power	
Complies if Installed ≤ Allowed		Complies if Installed ≤ Allowed	
Allowed Lighting Power Conditioned Spaces (from LTG-3C)		Allowed Lighting Power Unconditioned Spaces (from LTG-3C)	
7268			

Required Acceptance Tests

Designer:

This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for the Lighting system, LTG-2A. The designer is required to check the acceptance tests and list all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a test, list the different lighting and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendix Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. Forms can be grouped by type of Luminaire controlled.

Enforcement Agency:

Systems Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements. The LTG-2A form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the LTG-2A for each different lighting luminaire control(s) must be provided to the owner of the building for their records.

Luminaires Controlled			LTG-2A Controls and Sensors and Automatic Daylighting Controls Acceptance	
Equipment Requiring Testing	Description	Number of like Controls	Location	
WALL OCCUPANCY SENSOR	RECESSED FLUOR	15	RM 90.23-90.27, 90.31, 90.33, 90.22, 90.04, 90.05	<input type="checkbox"/>
			90.14-90.18	<input type="checkbox"/>
CEILING OCCUPANCY SENSOR	RECESSED FLUOR	7	RM 90.28-90.30, 90.02, 90.03, 90.06, 90.13	<input type="checkbox"/>
CEILING OCCUPANCY/ DAYLIGHT SENSOR	RECESSED FLUOR	7	90.03, 90.07-90.12	<input type="checkbox"/>
WALL OVERRIDE SWITCH	RECESSED FLUOR	9	90.28, 90.02, 90.06	<input type="checkbox"/>
OVERRIDE SWITCH STATION	RECESSED LED	2	90.01, 90.20	<input type="checkbox"/>
LIGHTING CONTROL PANEL		1	90.17	<input type="checkbox"/>

2008 Nonresidential Compliance Forms August 2008

INDOOR LIGHTING POWER ALLOWANCE **LTG-3C**

Project Name: **WPCP REHABILITATION PROJECT** Date: **1/20/11**

ALLOWED LIGHTING POWER (Choose One Method)

A Separate LTG-3C must be filled out for Conditioned and Unconditioned Spaces. Indoor Lighting Power Allowances listed on this page are only for: **CONDITIONED** spaces **UNCONDITIONED** spaces

COMPLETE BUILDING METHOD

BUILDING CATEGORY (From §146 Table 146-E)	WATTS PER (ft²)	COMPLETE BLDG. AREA	ALLOWED WATTS
TOTALS		7381	7268

AREA CATEGORY METHOD - Part A

A	B	C	D
AREA CATEGORY (From §146 Table 146-F)	WATTS PER (ft²)	AREA (ft²)	ALLOWED WATTS
LABORATORY	1.4	1920	2688
MAIN ENTRY LOBBY	1.5	200	300
RESTROOMS, CORRIDORS	0.6	1514	908
ELEC. MECH ROOM	0.7	255	179
OFFICE (<=250 SF)	1.1	676	744
OFFICE (>250 SF)	0.9	395	356
CONFERENCE ROOM	1.4	380	532
LOCKER ROOMS	0.8	969	775
LOBBY	1.1	463	509
LAUNDRY	0.9	217	195
ADMIN, COPY/FILES	1.1	402	462
Sum of Additional Allowed Watts from Area Category Method - Part B (from table below)			
TOTALS		7381	7268

AREA CATEGORY METHOD - Part B Additional Wattage Allowance (from Table 146-F Footnotes)

A	B	C	D	E	F	G
Primary Function	Sq Ft	Additional Watts Per ft² Allowed	Wattage Allowance (B x C)	Description(s) and Quantity of Special Luminaires Types in each Primary Function Area	Total Design Watts	ALLOWED WATTS Smaller of D or F
TOTALS - Enter into Area Category Method - Part A (table above)						

1. A additional watts available only when allowed according to the footnotes on bottom of Table 146-F for chandelier or sconce; art, craft, assembly or manufacturing specialized task work; precision commercial/industrial work; or lab specialized task work.
2. Special luminaires are light fixtures described in the Table 146-F Footnotes that are subject to an additional wattage allowance.

TAILORED METHOD

Total Allowed Watts using the Tailored Method taken from LTG-4C (Page 1 of 4) Row 3

The indoor lighting power allowance using the Tailored Method of compliance shall be determined using the LTG-4C set of forms. A separate set of LTG-4C forms shall be filled out for **CONDITIONED** and **UNCONDITIONED** spaces

2008 Nonresidential Compliance Forms August 2008

LIGHTING MANDATORY MEASURES

BUILDING LIGHTING SHUT-OFF
THE BUILDING LIGHTING SHUT-OFF SYSTEM CONSISTS OF AN AUTOMATIC TIME SWITCH, WITH A ZONE FOR EACH FLOOR; OR THE BUILDING IS SEPARATELY METERED AND LESS THAN 5,000 SQUARE FEET; EXEMPT FROM THE SHUT-OFF REQUIREMENT.

OVERWRITE FOR BUILDING LIGHTING SHUT-OFF

THE AUTOMATIC BUILDING SHUT-OFF SYSTEM IS PROVIDED WITH A MANUAL ACCESSIBLE OVERRIDE SWITCH IN SIGHT OF THE LIGHTS. THE AREA OF OVERRIDE IS NOT TO EXCEED 5,000 SQUARE FEET.

AUTOMATIC CONTROL DEVICES CERTIFIED
ALL AUTOMATIC CONTROL DEVICES SPECIFIED ARE CERTIFIED, ALL ALTERNATE EQUIPMENT SHALL BE CERTIFIED AND INSTALLED AS DIRECTED BY THE MANUFACTURER.

FLUORESCENT BALLAST AND LUMINAIRES CERTIFIED
ALL FLUORESCENT FIXTURES SUBJECT TO CERTIFICATION AND SPECIFIED FOR THE PROJECTS ARE CERTIFIED.

TANDEM WIRING FOR TWO-LAMP BALLASTS
ALL ONE AND THREE LAMP FLUORESCENT FIXTURES ARE TANDEM WIRED WITH TWO (2) LAMP BALLAST WHERE REQUIRED BY STANDARDS 132; OR
ALL THREE LAMP FLUORESCENT FIXTURES ARE SPECIFIED WITH ELECTRONIC HIGH-FREQUENCY BALLASTS AND ARE EXEMPT FROM TWO-LAMP TANDEM WIRING

REQUIREMENTS.

INDIVIDUAL ROOM/AREA CONTROLS
EACH ROOM AND AREA IN THIS BUILDING IS EQUIPPED WITH A SEPARATE SWITCH OR OCCUPANCY SENSOR DEVICE FOR EACH AREA WITH FLOOR-TO-CEILING WALLS.

UNIFORM REDUCTION FOR INDIVIDUAL ROOMS
ALL ROOMS AND AREAS GREATER THAN 100 SQUARE FEET AND MORE THAN 0.8 WATTS PER SQUARE FOOT OF LIGHTING LOAD SHALL BE CONTROLLED WITH BI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM.

DAYLIT AREA CONTROL
ALL ROOMS WITH WINDOWS AND SKYLIGHTS, THAT ARE GREATER THAN 250 SQUARE FEET, AND THAT ALLOW FOR THE EFFECTIVE USE OF DAYLIGHT IN THE AREA SHALL HAVE 50 PERCENT OF THE LAMPS IN EACH DAYLIT AREA CONTROLLED BY A SEPARATE SWITCH; OR
THE EFFECTIVE USE OF DAYLIGHT THROUGHOUT CANNOT BE ACCOMPLISHED BECAUSE THE WINDOWS ARE CONTINUOUSLY SHADED BY A BUILDING ON THE ADJACENT LOT. DIAGRAM OF SHADING DURING DIFFERENT TIMES OF YEAR IS INCLUDED ON PLANS.

CONTROL OF EXTERIOR LIGHTS
EXTERIOR MOUNTED FIXTURES AND SERVED FROM THE ELECTRICAL PANEL INSIDE THE BUILDING ARE CONTROLLED WITH A DIRECTIONAL PHOTOCELL CONTROL ON THE ROOF AND A CORRESPONDING RELAY IN THE ELECTRICAL PANEL.

JOB NUMBER: 8160A.10

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DESIGNED
RZ
DRAWN
AG/MSL
CHECKED
RZ
DATE
JANUARY 2011



BEFORE YOU DIG, CALL UNDERGROUND SERVICE ALERT (1-800-4-A-SHIELD) 24 HOURS A DAY. 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	02/2011	ADDENDUM NO.1

CITY OF SAN LEANDRO

PROJECT MGR. KE DATE 3/3/11
TRANS. ADMIN. _____ DATE _____
SENIOR ENGR. AG DATE 3/4/11
APPROVED BY: _____ DATE 3/4/11
CITY ENGINEER, R.C.E. No. 34870

WPCP REHABILITATION PROJECT
ELECTRICAL
ADMINISTRATION CONTROL BUILDING
BUILDING COMPLIANCE FORMS (PART 2 OF 2)

CONTRACT DWG 90-E-10
SHEET 556 OF 557
JOB NO. 08-593-52-239
SCALE AS NOTED
DWG. 1749_CASE_604

