

**WASHINGTON MANOR PARK AQUATICS CENTER
PROJECT NO. 03-210-62-002**

ADDENDUM NO. 3

July 14, 2005

TO: All Prospective Bidders

The additions and/or deletions contained in this Addendum shall be made a part of the plans and specifications and contract documents for the above described project, and shall be subject to all applicable requirements there under, as if originally shown and/or specified.

THE CONTRACT DOCUMENTS SHALL BE REVISED AS FOLLOWS:
See attached sheets (28 pages, total)

PLEASE NOTE BID OPENING DATE REMAINS
MONDAY, JULY 18, 2005 AT 3:00 P.M.

Acknowledge this addendum in your Proposal. If you have any questions, please call the Project Engineer, Mark Goralka at (510) 577-3329.

Very truly yours,

Ken Joseph, P.E., City Engineer
Engineering and Transportation Department

Washington Manor Park Aquatics Center – Addendum No. 3
Project No. 03-210-62-002
July 13, 2005
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ACKNOWLEDGEMENT

I hereby acknowledge receipt of this Addendum for the above noted project.

_____ Date: _____
(Signature)

(Company Name – Please Print)

cc: M. Cronin, M. Goralka, G. Faria, K. Joseph, A. Osakwe, Kiosk
COSL Current Plan-holders

ADDENDUM NUMBER THREE

JULY 14, 2005

This Addendum forms a part of the Contract Documents and modifies the original bidding documents as noted below. Acknowledge receipt of this Addendum in your proposal. Failure to do so may subject the Bidder to disqualification.

Item No.3.1

Specification Table of Contents;

Add Section 02750 Integrally Colored Concrete:

See attached new specification section 02750 Integrally Colored Concrete.

Item No.3.2

Specification Table of Contents;

Add Section 15500 Fire Protection System:

See attached new specification section 15500 Fire Protection System.

Item No.3.3

Specification Section 00300 Proposal;

Change references to "new library":

References to "new library" are a typographical error and shall be replaced with "new aquatics center". Use original page, no replacement sheet is required for submittal of proposal.

Item No.3.4

Specification Section 00700 General Conditions;

Change references to "new library":

References to "new library" are a typographical error and shall be replaced with "new aquatics center".

Item No.3.5

Specification Section 01781 Project Record Documents;

Change paragraph 1.2A1-b(3) to read as follows:

- (3) Laminated 50% reduction sets (*two sets*) of as-built site plans, *irrigation*, mechanical, plumbing, electrical, and swimming pool plans.

Item No.3.6

Specification Section 02200 Earthwork;

Change paragraph 3.4B to read as follows:

- B. Minimum compaction requirements, see table 1. *For compaction and trenching use the requirements in Table 1 or the City of San Leandro Standard details, whichever is more stringent.*

Item No.3.7

Specification Section 02225 Trenching and Backfilling;

Change paragraph 3.4A to read as follows:

- A. Moisture content and compaction testing will be performed by and, at the discretion of the Engineer in accordance with ~~ASTM D4557~~ CTM 216 231.
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Item No.3.8

Specification Section 02821 Chain-Link Fences and Gates;

Change paragraph 1.2C1 and 1.2C2 to read as follows:

- A. Samples:
1. ~~Polymer-coated~~ Steel wire for fabric.
 2. Polymer coating on framing and accessories.
-
-

Item No.3.9

Specification Section 13160 Fiberglass Waterslide;

Add paragraph 1.03B3 to read as follows:

3. Waterslide to comply with OSHA codes and regulations. All signage and certification letters required by OSHA are to be provided by the swimming pool contractor.

Change paragraph 2.01C to read as follows:

- B. Color: Shall be integral to the fiberglass. The flume color shall be ~~primary yellow~~ as selected by the Architect. The steel and fiberglass stair and rail components colors shall be ~~primary blue~~ as selected by the Architect.
-
-

Item No.3.10

Section 08220 FRP Flush Doors and Frames;

See attached revised specification section 08220 Flush Doors and Frames.

Item No.3.11

Sheet C1.1 Demolition Plan, Base and Alternative Bid;

Add general notes to read as follows:

4. Utilities to be relocated out of building area, see irrigation, electrical, etc. plans. Utilities to remain operation to park at all times.
 5. Street replacement paving to be 6" AC per City Standard 122 A and B – see sheet C3.2.
 6. Stumps of removed trees to be removed to 24" minimum below grade.
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Item No.3.12

Sheet C1.2 Base Bid Grading and Drainage;

Add wheelchair curb cut ramps to east side of Zelma Street:

The (4) wheelchair curb cut ramps shown on C1.2A at Zelma Street are all to be installed in the base bid.

Sidewalk north of existing parking lot:

See attached drawing AD.9 for sidewalk north of existing parking lot.

Item No.3.13

Sheet C3.3 City of San Leandro Standard Details;

Add City of San Leandro Standard Detail 220:

Add City of San Leandro Standard Detail 220 to sheet C3.3. See attached drawing COSL 220.

Item No.3.14

Sheet C3.5 City of San Leandro Standard Details;

Change detail B AC notes to read as follows:

6" Asphalt Concrete over 8" aggregate base rock, 95% compaction.

Change detail G notes as follows:

Change references to SDR35 to be SDR26.

Item No.3.15

Sheet L1.1 Planting Plan Base Bid;

Change species in plant list as follows:

Change species Platnus acerifola 'Bloodgood' to Platnus acerifola 'Yarwood'.

Item No.3.16

Sheet L2.4 Irrigation Plan Details;

Add City of San Leandro Standard Details 432, 434, 442, and 438A:

See attached drawings COSL 432, 434, 442, and 438A.

Replace COSL detail 420 with attached detail COSL 420.

Double Check Valve Assembly to be per COSL detail 408 and 410.

Item No.3.17

Sheet L2.1 Irrigation Legend and Notes;

Change general note # 10 to read as follows:

10. Staking: Double stake all trees with 2² 3" lodgepole pine stakes (unless directed otherwise).

Add general note # 19 to read as follows:

19. Quick coupling valve shall be per COSL standard detail 418 on sheet L2.4.

Delete references to "Recycled Water":

Change references to "recycled water" to read as "well-water".

Revise Maintenance note to add the following:

1 year maintenance bond to be provided by the general contractor. Provide 6 month landscape maintenance period for work performed only if additive alternate # 2 is accepted. Provide 3 month landscape maintenance period for work performed as part of the base bid or alternate #1.

Item No.3.18

Sheet A1.1A Site Plan With Alternates;

Revised Bleacher Plan:

See attached drawing AD.11 for bleacher plan including rows, handicap areas, and aisle.

Item No.3.19

Sheet A1.2 Detail D3 and A1.2A Detail D3;

Add expansion joints in pool deck:

Add expansion joints in the pool deck per drawing AD.10. See attached drawing AD.10.

Item No.3.20

Sheet A2.1 Floor Plan;

Fire Extinguisher Cabinets:

Provide one additional fire extinguisher at each of the follow rooms (in addition to the FEC's shown on the plan): 106, 111, 116 and 117.

Item No.3.21

Sheet A2.5 Door Schedule;

Doors 118 and 119:

Change door sill, jamb, and head detail reference for doors 118 and 119 to be D4/A8.4, see drawing AD8.

Item No.3.22

Sheet A2.5 Window Schedule;

Add note to elevations 6, 7 and 8 to read as follows:

Roll up shades at window. Provide manufacturers fixed panel shade (translucent shade only, no blackout shade) at doors, ¾" frame around glazing with hidden fasteners.

Item No.3.23

Sheet A2.5 Interior Room Finish Schedule;

Change floor finish at rooms 106, 112, and 116 to be as follows:

Delete the reference to RF (Resinous Flooring) and replace with integrally colored concrete. Add note to "Remarks" column for rooms 106, 112, and 116 as follows: Integrally colored concrete floor with broom finish, see specification section 02750.

Item No.3.24

Sheet A8.1 Details C5 and D5;

Delete details C5 and D5 on sheet A8.1:

Delete details C5 and D5 on sheet A8.1, COSL standard handicap parking sign details are shown on the civil drawings.

Item No.3.25

Sheet A8.3 Detail D4;

Shade Cloth Side Channels:

Change detail D4 to show side channels for blackout shade only.

Item No.3.26

Sheet A8.4;

Add aluminum door frame detail:

Add detail D4, aluminum door frame for FRP door locations, see attached drawing AD.8.

Item No.3.27

Sheet P0.1 Plumbing Schedules, Notes, and Details;

Add plumbing note nine to read as follows:

9. All buried metal piping shall have PE sheathing for corrosion protection per AWWA C105 similar.

Attachments:

Specification Section 15500 Fire Protection System

Specification Section 08220 FRP Flush Doors and Frames

Specification Section 02750 Integrally Colored Concrete

Drawing AD.8

Drawing AD.9

Drawing AD.10

Drawings AD.11

Drawing COSL 220

Drawing COSL 420

Drawing COSL 432

Drawing COSL 434

Drawing COSL 442

Drawing COSL 438A

- END -

02750 - INTEGRALLY COLORED CONCRETE

PART 1 - GENERAL

1.1 SUMMARY

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to Work of this Section.
- B. Section Includes:
 - 1. Integrally colored concrete slabs-on-grade.
 - 2. Curing of integrally colored concrete.
- C. Related Sections:
 - 1. Division 3 Section "Cast-In-Place Concrete" for general applications of concrete and coordination of sample submittal and color selection.
 - 2. Division 7 Section "Joint Sealants" for colored sealant for joints.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's complete technical data sheets for the following:
 - 1. Colored admixture.
 - 2. Curing compound.
- B. Design Mixes: For each type of integrally colored concrete.
- C. Samples for Initial Selection: Manufacturer's color charts showing full range of colors available.
- D. Qualification Data: For firms indicated in "Quality Assurance" Article, including list of completed projects.

1.3 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer with 10-years experience in the production of specified products.
- B. Installer Qualifications: An installer with 5 years experience with work of similar scope and quality.
- C. Comply with the requirements of ACI 301.
- D. Obtain each specified material from same source and maintain high degree of consistency in workmanship throughout Project.
- E. Notification of manufacturer's authorized representative shall be given at least 1-week before start of Work.

F. Integrally Colored Concrete Mockups:

1. At location on Project selected by Architect place and finish 10 feet by 10 feet (3 by 3 m) area.
2. For accurate color, the quantity of concrete mixed to produce the sample should not be less than 3 cubic yards (or not less than 1/3 the capacity of the mixing drum on the ready-mix truck) and should always be in full cubic yard increments. Excess material shall be discarded according to local regulations.
3. Construct mockup using processes and techniques intended for use on permanent work, including curing procedures. Include samples of control, construction, and expansion joints in sample panels. Mockup shall be produced by the individual workers who will perform the work for the Project.
4. Retain samples of cements, sands, aggregates and color additives used in mockup for comparison with materials used in remaining work.
5. Accepted mockup provides visual standard for work of Section.
6. Mockup shall remain through completion of work for use as a quality standard for finished work.
7. Remove mockup when directed.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Colored Admixture: Comply with manufacturer's instructions. Deliver colored admixtures in original, unopened packaging. Store in dry conditions.

1.5 PROJECT CONDITIONS

- A. Integrally Colored Concrete Environmental Requirements:
1. Schedule placement to minimize exposure to wind and hot sun before curing materials are applied.
 2. Avoid placing concrete if rain, snow, or frost is forecast within 24-hours. Protect fresh concrete from moisture and freezing.
 3. Comply with professional practices described in ACI 305R and ACI 306R.
- B. Schedule delivery of concrete to provide consistent mix times from batching until discharge. Mix times shall meet manufacturer's written recommendations.

1.6 PRE-JOB CONFERENCE

- A. One week prior to placement of integrally colored concrete a meeting will be held to discuss the Project and application materials.
- B. It is suggested that the Architect, Engineer, General Contractor, Subcontractor, Ready-Mix Concrete Representative, and a Manufacturer's Representative be present.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURER

- A. L.M. SCOFIELD COMPANY, Los Angeles, California (800) 800-9900. Local Contact: Western/Southern Division Office (714) 568-1870.

2.2 MATERIALS

- A. Colored Admixture for Integrally Colored Concrete: CHROMIX P® Admixture; L.M. SCOFIELD COMPANY.
 - 1. Admixture shall be a colored, water-reducing, admixture containing no calcium chloride with coloring agents that are limeproof and ultra-violet resistant.
 - 2. Colored admixture shall conform to the requirements of ACI 303.1, ASTM C979, ASTM C494 and ASSHTO M194.
- B. Curing Compound for Integrally Colored Concrete: Curing compound shall comply with ASTM C309 and be of same manufacturer as colored admixture, for use with integrally colored concrete.
- C. Curing and Sealing Compound: Cureseal™ [Semi Gloss] [Gloss]; L.M. SCOFIELD COMPANY. Curing and sealing compound shall comply with ASTM C309 and be of same manufacturer as colored admixture, for use with integrally colored concrete.

2.3 COLORS

- A. Concrete Color[s]:
 - 1. Cement: Color shall be gray .
 - 2. Sand: Color shall be locally available natural sand.
 - 3. Aggregate: Concrete producer's standard aggregate complying with specifications.
 - 4. Colored Admixture: As selected by Architect from Manufacturer's full range.
- B. Curing Compound: Color to match integrally colored concrete.

2.4 CONCRETE MIX DESIGN

- A. Per specification section 03300 Cast-In-Place Concrete and manufacturer's recommendations.
- B. Slump of concrete shall be consistent throughout Project at 4-inches or less. At no time shall slump exceed 5-inches. If super plasticizers or mid-range water reducers are allowed, slump shall not exceed 8-inches.
- C. Do not add calcium chloride to mix as it causes mottling and surface discoloration.
- D. Supplemental admixtures shall not be used unless approved by manufacturer.
- E. Do not add water to the mix in the field.

- F. Add colored admixture to concrete mix according to manufacturer's written instructions.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install concrete according to requirements of Division 3 Section "Cast-In-Place Concrete."
- B. Do not add water to concrete mix in the field.
- C. Surfaces shall be finished uniformly with the following finish:
 - 1. Broomed: Pull broom across freshly troweled concrete to produce medium texture in straightlines perpendicular to main line of traffic. Do not dampen brooms.
 - 2. Trowel: Precautions should be taken to ensure that the surface is uniformly troweled so that it will not be slippery. Do not over-trowel or burnish the surface.

3.2 CURING

- A. Integrally Colored Concrete: Apply curing and sealing compound for integrally colored concrete according to manufacturer's instructions using manufacturer's recommended application techniques. Apply curing and sealing compound at consistent time for each pour to maintain close color consistency.
- B. Curing compound shall be same color as the colored concrete and supplied by same manufacturer of the colored admixture.
- C. Precautions shall be taken in hot weather to prevent plastic cracking resulting from excessively rapid drying at surface as described in CIP 5 *Plastic Shrinkage Cracking* published by the National Ready Mixed Concrete Association.
- D. Do not cover concrete with plastic sheeting.

3.3 TOLERANCES

- A. Minor variations in appearance of integrally colored concrete, which are similar to natural variations in color and appearance of uncolored concrete, are acceptable.

END OF SECTION

08220 — FRP FLUSH DOORS and FRAMES

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes Fiberglass Reinforced Polyester (FRP) Doors.
 - ~~1. See Division 8 Section Steel Doors and Frames for Steel frames.~~
 - 2. ~~See Division 8 Section Aluminum Framed Entrances and Storefronts for aluminum frames.~~
 - 3. See Division 8 Section Door Hardware for door hardware.

1.2 SUBMITTALS

- A. Product Data: For each product indicated. Include door designation, type, level and model, material description, label compliance, fire-resistance ratings, and finishes.
- B. Shop Drawings:
 - 1. Include details of core, stile and rail construction, trim for lites, louvers, and all other components.
 - 2. Include details of finish hardware mounting.
- C. Samples
 - 1. Include each aluminum alloy to be used on this project. Where normal finish color and texture variations are expected, include two or more samples to show the range of such variations.
 - 2. Include typical fabricated section, showing joints, fastenings, quality of workmanship, hardware and accessory items before fabrication of the work proceeds.

1.3 WARRANTY

- A. Special Warranty: Provide a written warranty signed by manufacturer, installer and contractor, agreeing to replace, at no cost to the Owner, any doors, frames, *louvers* or factory hardware installation which fail in materials or workmanship, within the warranty period. Failure of materials or workmanship includes: excessive deflection, faulty operation of entrances, deterioration of finish or construction in excess of normal weathering and defects in hardware installation. The minimum time period of warranty is ten (10) years from acceptance.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. SL-17 and by Special-Lite Inc. Of Decatur, Mi.

2.2 MATERIALS

- A. Aluminum Members: Alloy and temper as recommended by manufacturer for strength, corrosion resistance and application of required finish and control of color; ASTM B 221 for extrusions, ASTM B 209 for sheet/plate with aluminum wall thickness of 0.125 inch.
- B. Components: Furnish door and frame components from the same manufacturer. "Splitting" of door and frame components is not permitted.

- C. Fasteners: Aluminum, or non-magnetic stainless steel, guaranteed by the manufacturer to be compatible with the doors, frames, stops, panels, hardware, anchors and other items being fastened. For exposed fasteners (if any) provide Phillips head screws with finish matching the item to be fastened.
- D. Standard Entrance Hardware
 - 1. Sill Sweep Strips: Nylon brush sweep strip in an aluminum extrusion concealed in the bottom interior of the door w/concealed fasteners.

2.3 FIBERGLASS REINFORCED POLYESTER FRP FLUSH DOORS

A. Materials and Construction.

1. Construct 1 ¾ inch thickness doors of 6063-T5 aluminum alloy rails and stiles minimum 2 5/16 inch depth. Construct with mitered corners and provide joinery of 3/8 inch diameter full width tie rods through extruded splines top and bottom as standard. .125 inch tubular shaped stiles and rails reinforced to accept hardware as specified. Provide hex type aircraft nuts for joinery without welds, glues or other methods for securing internal door extrusions. Furnish integral reglets to accept face sheet to permit a flush appearance. Rail caps or other face sheet capture methods are not acceptable.
2. Extrude top and bottom rail legs for interlocking continuous rail rigidity weather bar. Lock face sheet material in place with extruded interlocking edges to be flush with aluminum rails and stiles.
3. Door face sheeting .120 inch thickness fiberglass reinforced polyester, with a pebble grain textured surface.
 - a. Color: Factory finished custom color to be selected by Architect.
4. Core of Door Assembly: Minimum five (5) pounds per cubic foot density poured-in-place polyurethane free of CFC. Minimum "R" value of 11. Ballistic rating is as indicated. Meeting stiles on pairs of doors and bottom weather bars with nylon brush weather-stripping.
5. Manufacture doors with cutouts for vision lites, louvers or panels as scheduled. Factory-furnish and install all glass, louvers and panels prior to shipment.
6. Pre-machine doors in accordance with templates from the specified hardware manufacturers and approved hardware schedule. Factory install hardware, except door closers.

2.4 LOUVERS

- A. *Type: Door manufacturer's aluminum louver, inverted Y-type, fixed blade, 12 inches minimum from bottom of door.*
- B. *Finish: See section 2.6*
- C. *Installation: Factory installed into standard vision lite kit. Exterior side of louver to be free of fasteners.*
- D. *Insect screen.*

2.5 ALUMINUM DOOR FRAMING SYSTEM

- A. *Tubular Framing:*
 1. *Size and Type: As indicated on the drawings.*
 2. *Materials: Aluminum Alloy 6063-T5, 1/8-inch minimum wall thickness.*

3. *Applied Door Stops: 0.625-inch high, with screws and weatherstripping.*
4. *Frame Members: Box type with 4 enclosed sides. Open back framing is not acceptable.*
5. *Caulking: Caulk joints before assembling frame members.*
6. *Joints:*
 - a. *Secure joints with fasteners.*
 - b. *Provide hairline butt joint appearance.*
7. *Field Fabrication: Field fabrication of framing using stick material is not acceptable.*
8. *Applied Stops: For side, transom, and borrowed lites and panels, with fasteners exposed on interior or unsecure portion only. Applied stops will incorporate pressure gasketing for weathering seal. Reinforce with solid bar stock fill for all frame hardware attachments.*
9. *Hardware:*
 - a. *Premachine and reinforce frame members for hardware in accordance with manufacturer's standards and hardware schedule.*
 - b. *Factory install hardware.*
10. *Anchors:*
 - a. *Anchors appropriate for wall conditions to anchor framing to wall materials.*
 - b. *Minimum of 5 anchors on jambs up to 7'-4" height, and 1 additional anchor for each additional foot of frame. Use 1/4" x 20 zinc plated screws, imbedded in subframe at least 1-1/2".*
 - c. *Secure head and sill members of transom, side lites, and similar conditions.*

2.6 ALUMINUM FINISHES

- A. *Painted: All aluminum to be painted with Kynar 500 color, to be chosen by Architect. Colors are to be formulated with ceramic/inorganic, unleaded pigments in a baked on enamel finish. Custom color to match Architect's sample.*

2.7 FABRICATION

- A. *Sizes and Profiles: The required sizes for door and frame units, and profile requirements are shown on the drawings.*
- B. *Coordination of Fabrication: Field measure before fabrication, and show recorded measurements on final shop drawings.*
- C. *Complete the cutting, fitting, forming, drilling and grinding of all metal work prior to assembly. Remove burrs from cut edges, and ease edges and corners to a radius of approximately 1/64 inch.*
- D. *No welding of doors or frames is acceptable.*
- E. *Maintain continuity of line and accurate relation of planes and angles. Secure attachments and support at mechanical joints, with hairline fit at contacting members.*

PART 3 - EXECUTION

3.1 INSTALLATION

- A. *Factory install hardware (except closers), and louvers in doors.*
- B. *Set units plumb, level and true to line, without warp or rack of doors or frames. Anchor securely in place. Separate aluminum and other metal surfaces with bituminous coatings or other means as approved by architect.*
- C. *Clean surfaces promptly after installation of doors and frames, exercising care to avoid damage to the protective coatings.*

- D. Ensure that the doors and frames will be without damage or deterioration (other than normal weathering) at the time of acceptance.
- E. Provide Owner with all adjustment tools and instruction sheets. Arrange an in service session to Owner at Owner's convenience. Any workmanship which is defective or deficient shall be corrected to the Owner's satisfaction and at no additional cost to the Owner.

END OF SECTION

15500 - FIRE PROTECTION SYSTEM

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

- A. Review Division 1, General Requirements, which contains information and requirements that apply to the work.

1.2 DESCRIPTION

- A. Work Included: All labor, materials, tools, appliances and equipment that are required to furnish and install the complete automatic sprinkler installation for this section of the work and as specified in the following specifications including that which is reasonably inferred, but not limited to the following:
 1. Installation of a new supervised building automatic sprinkler system and installation of all piping, heads, valves, water flow switches, and supervisory devices, as required to provide a complete and operational fire sprinkler system.
 2. Repair of all damage done to premises as a result of this installation, and removal of all debris left by those engaged in this installation.
 3. Testing and adjusting of piping and equipment.
 4. Cleaning of all equipment and materials at time building is turned over to the Owner.
 5. All insurance, fees, and taxes required and applicable.
 6. Cutting, patching, and sawcutting, core drilling.
 7. Excavation, trenching, and backfilling.
 8. All rigging, hoisting, transportation, and associated work necessary for placement of all equipment.
- B. Related Work in Other Sections
 1. Electrical material and connections to equipment.
 2. Interior and Exterior Painting: Prime and finish painting.
 3. Trenching, backfilling and excavating.
 4. Underground fire protection system.

1.3 GENERAL REQUIREMENTS

- A. Visit the site of the work, take measurements and such other information as may be necessary for an intelligent bid. No allowance shall subsequently be made for any extra expense due to failure or neglect on the part of the bidder to make such examination, including other difficulties visually observed during site visit.
- B. Secure and pay for all permits, licenses, fees, and inspections required to begin, perform and complete the work. At completion of the work, deliver to the Owner a certificate of acceptance issued by the Jurisdictional Authorities approving the complete installation.
- C. Follow manufacturer's directions in all cases where manufacturers of equipment used furnish directions covering points not shown on the Drawings or specified herein.
- D. Install all work in strict accordance with the latest rules of any local or state codes and ordinances and NFPA. No extra charge will be paid for furnishing items required by the regulations but not specified herein. Rulings and interpretations of the agencies shall be

considered a part of the regulations if commonly known to the trade prior to the submittal of bids.

- E. Quiet and vibration free operation of all equipment is a requirement of this installation. Properly adjust, repair, balance or replace any equipment producing objectionable noise or vibration in any of the occupied areas of the building including providing additional brackets, bracing, etc., to prevent objectionable noise or vibration.
- F. Operation and Maintenance Instructions: Upon immediate completion of the work, turn over to the Architect three (3) sets of all instruction sheets, bulletins and all pertinent information required by Owner for proper operation and adjustment of each and every piece of equipment furnished. This information shall be bound in a hard cloth covered, adjustable looseleaf binder such as McBee and shall be typed and indexed into sections and labeled for easy reference. Information which does not concern equipment furnished shall not be included.
- G. Carefully coordinate all pipe runs with all other Divisions and the Architect prior to installation.
- H. Be responsible for damage to any of this work before acceptance. Securely cover all openings, apparatus, fixtures and appliances, both before and after setting into place, to prevent obstructions in the pipes and breakage or disfigurement of equipment. Should the equipment become damaged, restore it to its original condition and finish before final acceptance without change in contract cost.
- I. Be responsible for, and repair all damage to, any part of the premises, caused by leaks or breaks in pipe or equipment furnished or installed for a period of one (1) year after date of acceptance of the work.

1.4 SUBMITTALS

- A. Sprinkler Shop Drawings and Calculations: The entire building shall be fully sprinklered in accordance with NFPA 13 and the requirements of the Local Building and Fire Departments. Sprinkler heads shall be centered within the ceiling acoustic tiles and within the rooms as much as possible. Provide all necessary provisions for sprinkler coverage above and below the ceiling, as required. Systems shall be hydraulically calculated in accordance with NFPA 13. Within 30 days after award of contract, submit to the Architect for approval, six (6) sets of shop drawings, showing the complete piping and sprinkler head layout for the sprinklered areas, including complete hydraulic computer calculations. These Drawings shall indicate main riser location. Accurate locations of all piping, sprinkler heads, drain apparatus associated with these systems in respect to new architectural conditions, structural conditions, lighting layouts, diffuser layouts, plumbing, mechanical, and electrical layouts. Show sprinkler head locations on latest architectural reflected ceiling plan with all lighting and mechanical air diffusers and registers shown. Submittals without this drawing will be automatically rejected.
- B. Approval of the same Drawings and calculations must first be obtained from the Local Fire Department before submittal to the Architect. Drawings shall be to the same scale, same sheet size, and shall bear a title block, all in accordance with Architectural Drawings. Architectural backgrounds shall be in accordance with the latest Architectural Drawings. If, upon preliminary submittal of drawings, there are corrections to be made, such as head locations, pipe locations, fire department connection location, riser location, drain locations, etc., corrections shall be made and the corrected drawings, along with revised calculations, shall be resubmitted for approval without extra cost.

These drawings shall be corrected and approved before starting work. The decision of the Architect shall be final on all items. These drawings and calculations, upon final approval, and including all "As-Built" drawings and calculation changes at completion of the job, shall become a part of the contract documents. Calculations shall be done on standard 8-1/2" x 11" sheets, all in accordance with NFPA 13, and shall indicate pipe numbers; beginning and end node points; all referenced on the shop drawings, and system demand curves. Calculations shall be bound and indexed in a looseleaf binder same as for operating and maintenance instructions.

- C. Absolutely no fire sprinkler piping shall be installed prior to approval of system design by the Architect and the local Building Department. Permit sprinkler drawings are to be drawn by this Division.
- D. Within 30 days after approval of the above shop drawings and calculations, submit to the Architect for approval six (6) copies of a list of all materials to be used. This list shall include the manufacturer's name, model, type, number and size of equipment and the capacity of the equipment. All equipment shall be submitted at one time. Any material or equipment installed without approval of the Architect shall be subject to immediate removal, if found unsatisfactory.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Wet Fire Protection Piping Below Grade: ANSI Specifications A21.50 ductile iron Class 50 with Tyton joints, and ANSI Specification A21.10 cast iron Tyton fittings. Pipe and fittings shall be cement lined 1/16" minimum thickness and bituminous coated on exterior. Install pipe in accordance with manufacturer's directions. Pipe shall have a working pressure rating of 350 PSI. Fittings shall have a working pressure rating of 250 PSI. Double wrap all piping below building with Tapecoat CT, or approved equal.
- B. Wet Fire Protection Piping Above Grade: ANSI B36.10, schedule 40 black steel pipe and ANSI B16.4 200 PSI cold water, black cast iron fittings or Victaulic, or approved equal, flexible couplings and fittings.
- C. Flanges: Shall conform to ANSI Specification B16.5, forged steel or bronze flanges for a working pressure of 150 PSI. Flanges shall be welding neck, slip-on or threaded as required with 1/16 inch raised face when required. Gaskets shall be full faced factory fabricated. Flange bolts shall have square heads and cold pressed hexagonal nuts.
- D. Automatic Sprinkler Heads:
 - 1. Where Piping is Run Exposed or Where Piping is Run Concealed to Serve Sprinkler Heads Above Ceilings: Grinnell model F960 pendant or upright solder type automatic water spray heads with standard plain brass finish.
 - 2. Where Piping is Run Concealed to Serve Fire Sprinkler Heads in the Building Spaces Below Ceilings: Sprinkler heads shall be Grinnell model F960, or approved equal, complete with Model F417 adjustable two-piece flush ceiling escutcheon with satin chrome finish.
 - 3. Provide and install protective baskets on all fire sprinkler heads ~~in the Apparatus Bay area and~~ in the Telecom room.
 - 4. Provide cabinet for extra fire sprinkler heads. Mount cabinet near fire sprinkler riser. Cabinet shall be Grinnell model F740, or approved equal.

5. All Heads shall have temperature ratings as required for the service indicated, and shall meet the requirements of the standards of the National Fire Protection Association. Provide extra heads of each type for replacement, a head wrench and cabinet as required by NFPA, and bolt to wall adjacent to main riser.
- E. Fire Protection Valves: All valves must be U.L. and F.M. approved.
 1. Butterfly Valve: Nibco model W-002-N6, or approved equal, U.L. approved valve for fire service, complete with Ny-plate nickel-plated ductile iron disc, stainless steel stem, lug steel bodies, Buna-N seats, gear operator with crank handle, indicator dial plate, and suitable for 175 PSI working pressure. Provide tamper switch with contacts as required and conduit connection for wiring to remote alarm system. Install butterfly valve on the main riser.
 2. Check Valve: Nibco model F-908, or approved equal, U.L. approved for fire service, 175 psi water pressure valve with iron bronze trim, bronze faced disc, flanged.
 3. Drain and Test Valves: United model 45, or approved equal, 175 psi rating, threaded ends, and angle or globe type as required.
 - F. Water Flow Switch: Grinnell model VSR-D, or approved equal, U.L. approved with retard mechanism, conduit connection and contacts as required for wiring to remote alarm system. Install on main riser.
 - G. Pipe Sleeves: ADJUST-TO-CRETE, or approved equal, 22 gauge, electro-galvanized sheet metal adjustable sleeve. Pack all sleeves fire tight.
 - J. Fire Department Connection: Refer to Section 02665 for FDC.
 - I. All exterior penetrations shall be sealed watertight. Use Thunderline "Link-Seal", or approved equal, in all concrete floor, wall, or footing penetrations below grade. All other penetrations shall be flashed, caulked and sealed watertight.
 - J. Pipe Supporting: Support all pipe from the building structure so that there is no apparent deflection in pipe runs. Fit piping with steel sway braces and anchors to prevent vibration and/or horizontal displacement under load when required. Do not support piping from, or brace to, ducts, other pipes, conduits, or any materials except building structure. Use 12 gauge 1-5/8" square channel supports with pipe clamps, where piping is supported close to wall, ceiling, or floor.
 - K. Escutcheons: Chromium plated steel floor and ceiling plates with set screw to hold securely in place.
 - L. Sight Glass: Grinnell Model F1321, Viking or Central, unit rated for 175 PSI, 1-inch size, UL listed, and threaded ends.
 - M. Union Orifice: Black cast iron union with corrosion-resistant standard orifice.
 - N. Pressure Gauge: Weksler, or approved equal, with stainless steel movement, phosphor bronze bourdon tube, die cast aluminum case with threaded ring, bottom connection, siphon, gauge cock, and a 4 1/2" diameter dial, range 0-100 PSI, or as required. Install a pressure gauge at building riser.

PART 3 - EXECUTION

3.1 GENERAL

- A. Conceal all piping in furred walls, partitions, ceilings, and pipe spaces wherever possible.
- B. Any exposed piping shall be installed parallel to or at right angles with building walls and tight to walls or ceilings wherever possible. Coordinate pipe locations with Architect prior to installation.
- C. Seal and caulk watertight all below grade penetrations into the building.
- D. Where exposed pipes pass through walls, ceilings or floors, fit with escutcheon plates. Escutcheon plates must be securely held in position allowing enough clearance to care for expansion and shall be sufficient size to cover the opening around the pipe.
- E. In general, all piping shall be run as high as possible above ceilings wherever possible.
- F. All piping shall be supported in accordance with the requirements of NFPA 13 and the local building code. Provide sway bracing where required.

3.2 CLEANING AND FLUSHING

- A. The intent of this Specification is that all equipment and materials furnished shall be completely dust free, clean and rust free and freshly painted or polished when the final acceptance inspection is made. All systems of any nature shall be thoroughly cleaned and flushed of all pipe contaminates such as cuttings, filings, lubricant, rust, scale, grease, debris, etc., and thoroughly flushed out with clear, clean water until clean in the opinion of the Inspector. Any piece of equipment or part of any system which malfunctions or is damaged due to failure or neglect to observe this paragraph shall be repaired or replaced without extra expense to Owner.
- B. Mask off all sprinkler heads during painting. Remove tape at completion of painting.

3.3 IDENTIFICATION SIGNS

- A. Drain valves, test connections, check valves, butterfly valve, etc. shall be fitted with approved enameled signs indicating their purpose and use, and shall be securely affixed to their respective component.

3.4 ADJUSTING

- A. Demonstrate proper operation of all water flow switches.
- B. Demonstrate proper operation of all supervisory switches on valves.

3.5 TESTING

- A. All Sprinkler Piping Systems: Hydrostatically test and prove tight under 200 PSI of water and in accordance with local Fire Department requirements.
- B. Tests: Shall be applied for a minimum period of 2 hours or until tests are complete in the opinion of the Inspecting authority.

- C. After all tests are successfully completed and the Record Drawings have been provided, the Contractor shall submit properly executed "Contractors Materials and Test Certificate" as required by NFPA 13. Install a hydraulic data nameplate to the base of the riser in the mechanical room.

3.6 EXCAVATING, TRENCHING AND BACKFILLING

- A. Perform all excavating, trenching, and backfilling required for this section of the Work.
- B. Trenches for underground piping shall have uniform grades same as for the pipe so that pipe will bear on solid ground. Loose earth shall be tamped solid around sides and top of the pipe and remainder thoroughly compacted to prevent settlement of the surface.
- C. Provide and maintain dewatering pumps as required. After piping has been installed, it shall be inspected and approved before backfilling. Backfill shall not be placed on or around the piping for 24 hours after pipe joints have been made or before lines are properly tested and approved.
- D. Provide shoring and cross bracing of the sufficient strength to properly support the walls of all excavations at a depth of four (4) feet or more and as required to protect personnel.
- E. Minimum bury for piping exterior to the building shall comply with the requirements of the soils report, and specification section 2.

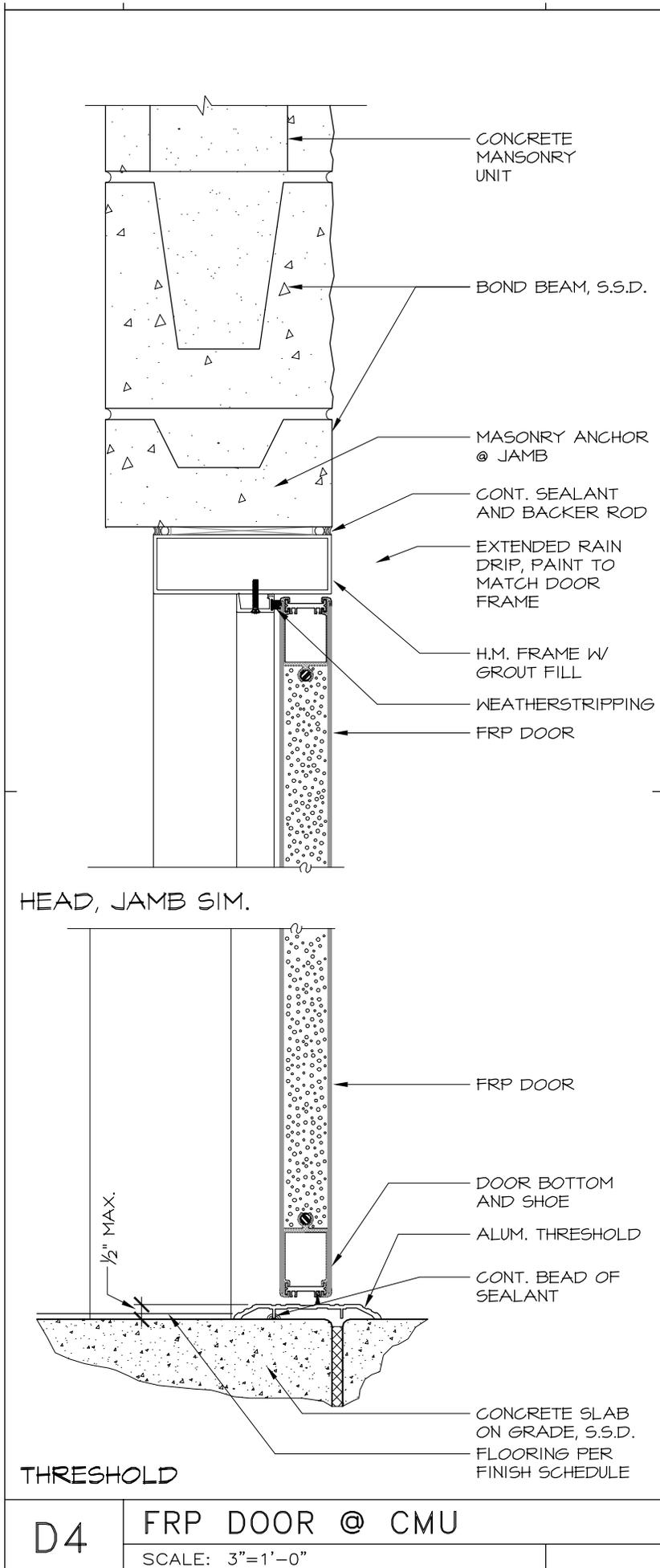
3.7 AS-BUILT DRAWINGS

- A. At completion of the work, turn over to the Architect on (1) complete set of Ozalid drawings incorporating the original drawings and all changes made to the original drawings. Ozalid prints of the original drawings will be provided by the Architect. Make all changes to these Ozalid drawings to provide a complete and accurate description and record of all the work as installed.

3.8 GUARANTEE

- A. At completion, furnish the Owner written guarantee, in triplicate. Contractor shall replace or repair, to the satisfaction of the Owner any portion of new work that fails within a period of one (1) year after final acceptance provided that such failure is due to defects in materials or workmanship. Also, agree to replace or repair, with like workmanship and material, any part of the building or equipment installed by other trades but damaged installing this work.

END OF SECTION



**WASHINGTON MANOR
PARK
AQUATIC CENTER**
ZELMA STREET
SAN LEANDRO, CA 94579

Job No: G0304

Drawn By:

Checked By:

Cad File: AD10.DWG

Date: 7/14/05

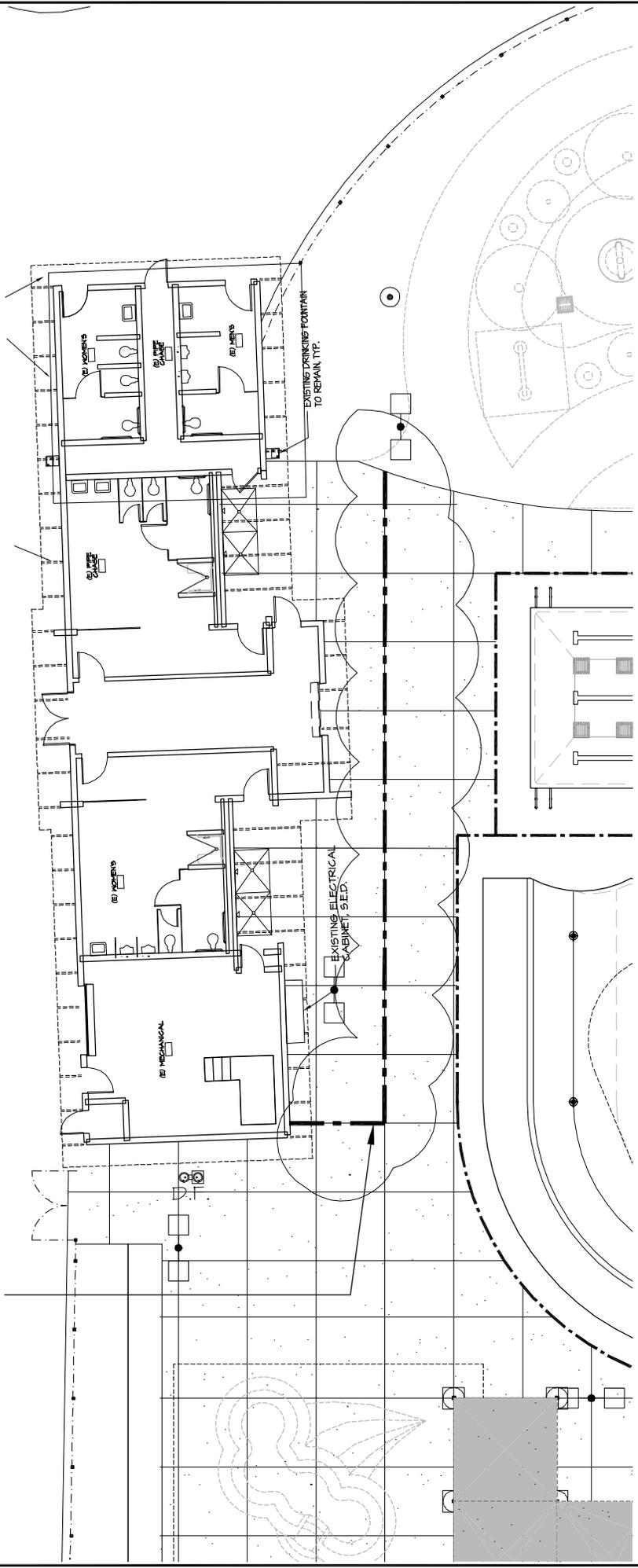
Expansion Joint
@ Pool Deck
Detail D3 on Sheet
A1.2 and A1.2A
ADDENDUM # 3

Sheet Number

AD
9

of

EXPANSTION JOINT,
PER DETAIL A5C



FENCE TO ENCLOSE SLIDE
AND STAIR TOWER, TO
MATCH STAIR TOWER
RAILING, ALTERNATE #1

LAWN/
PICNIC AREA

GLASS
ARCHITECTS

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WASHINGTON MANOR
PARK
AQUATIC CENTER
ZELMA STREET
SAN LEANDRO, CA 94579

Job No: G0304
Drawn By:
Checked By:
Cad File: AD11.DWG
Date: 7/14/05

BLEACHER PLAN

Sheet A1.1A
ADDENDUM # 3

Sheet Number

AD
11

of

