

- DOCUMENT 000110 -

TABLE OF CONTENTS

Introductory Documents:

Section 00 00 10	Title Page
Section 00 00 05	Project Directory
Section 00 01 10	Table of Contents
Section 00 01 15	List of Drawings

Division 00 - Bidding Requirements

Section 00 11 13	Advertisement for Bids
Section 00 11 19	Instructions to Bidders
Section 00 21 14	Bid Submittal Vicinity Map
Section 00 21 15	Project Site Campus Map
Section 00 31 19	Reports, Surveys and Existing Conditions
Section 00 41 00	Bid Form
Section 00 43 10	Indemnity and Release Agreement
Section 00 43 13	Bond Accompanying Bid
Section 00 43 25	Substitution Request
Section 00 43 33	Schedule of Major Equipment and Materials Suppliers
Section 00 43 36	Subcontractors List
Section 00 43 45	Escrow Agreement for Security Deposit
Section 00 45 00	Bidder Certifications
Section 00 45 14	Key Personnel
Section 00 45 19	Non-Collusion Affidavit

Division 00 - Contracting Requirements

Section 00 50 00	Notice to Proceed
Section 00 51 00	Notice of Award
Section 00 51 01	Notice of Intent to Award for Construction
Section 00 52 00	Agreement
Section 00 61 00	Construction Performance Bond
Section 00 62 00	Construction Labor and Material Payment Bond
Section 00 65 36	Guaranty
Section 00 65 73	Agreement and Release of Any and All Claims

Division 00 - Conditions of the Contract

	Section 00 71 00	General Conditions
	Section 00 73 00	Supplementary Conditions
	Section 00 73 05	Supplementary Conditions – Hazardous Materials
	Section 00 73 17	Insurance
	Section 00 73 37	Apprenticeship Program
A2	Section 00 91 01	Addendum No. 1
A2	Section 00 91 02	Addendum No. 2
A3	Section 00 91 03	Addendum No. 3
A4	Section 00 91 04	Addendum No. 4

Specifications:

Division 01 - General Requirements

	Section 01 10 00	Summary of Work
	Section 01 21 00	Allowance
	Section 01 23 00	NOT USED
	Section 01 26 00	Modification Procedures
	Section 01 29 00	Measurement and Payment
	Section 01 31 19	Project Meetings
	Section 01 31 23	Web-Based Project Management System
	Section 01 32 16	Progress Schedules and Reports
	Section 01 32 19	Submittal Procedures
	Section 01 35 00	Special Procedures
	Section 01 35 27	Project Labor Agreement
	Section 01 35 28	NOT USED
	Section 01 41 00	Regulatory Requirements
	Section 01 41 01	Regulatory Requirements – Hazmat
	Section 01 42 00	References and Definitions
	Section 01 45 23	Testing and Inspection
	Section 01 51 00	Temporary Facilities and Controls
	Section 01 56 00	Site Security and Safety
	Section 01 58 00	Project Identification and Signs
	Section 01 60 00	Product Requirements
	Section 01 73 29	Cutting and Patching
	Section 01 74 00	Cleaning
	Section 01 76 01	Existing Underground Facilities
	Section 01 77 00	Contract Closeout
	Section 01 78 39	Project Record Documents

Division 02 - Existing Conditions

A2	Section 02 3100	Subsurface Investigation
A2	Section 02 4113	Site Demolition
A4	Section 02 4113	Selective Demolition

TABLE OF CONTENTS

Division 03 - Concrete

A2	Section 03 1000	Formwork
	Section 03 1513	Hydrophilic Rubber Waterstops
	Section 03 2000	Concrete Reinforcement
	Section 03 3000	Cast in Place Concrete
A2	Section 03 3300	Architectural Concrete

Division 04 - Masonry

NOT APPLICABLE TO THIS PROJECT

Division 05 - Metals

A2	Section 05 5000	Metal Fabrications
A4	Section 05 5300	Gratings

Division 06 - Wood and Plastics

NOT APPLICABLE TO THIS PROJECT

Division 07 - Thermal and Moisture Protection

	Section 07 1326	Self-Adhering Sheet Waterproofing
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Division 08 - Openings

	Section 08 1613	FRP Flush Doors
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Division 09 - Finishes

A2	Section 09 9600	High Performance Coatings
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Divisions 10 thru 25

NOT APPLICABLE TO THIS PROJECT

Division 26 - Electrical

	Section 26 0000	Electrical Systems
	Section 26 0500	Electrical General Provisions

TABLE OF CONTENTS

A2	Section 26 0800	Startup and Testing
	Section 26 0513	Medium-Voltage Power Cables
	Section 26 0526	Grounding and Bonding for Electrical Systems
	Section 26 1116	Padmount Transformer-Oil Filled
	Section 26 1200	15KV Padmount Switch, SF6 Insulated
	Section 26 2300	Switchboards-Low Voltage
	Section 26 2416	Panelboards

Divisions 27 thru 30

NOT APPLICABLE TO THIS PROJECT

Division 31 - Earthwork

	Section 31 0000	Earthwork and Grading
	Section 31 1000	Site Preparation
A3	Section 31 1300	Tree Protection and Trimming
	Section 31 2333	Trenching, Backfilling and Compacting

Division 32 - Exterior Improvements

A2	Section 32 0190	Landscape Maintenance
A2	Section 32 1000	Demolition
	Section 32 1233	Paving and Surfacing
	Section 32 1373	Concrete Paving Joint Sealants
A2	Section 32 1723	Pavement Marking
	Section 32 5000	Restoration of Surfaces
A2	Section 32 8400	Planting Irrigation
A2	Section 32 9119	Landscape Grading
A2	Section 32 9300	Landscaping

Division 33 - Utilities

NOT APPLICABLE TO THIS PROJECT

- END OF TABLE OF CONTENTS -

SECTION 00 91 04

ADDENDUM NO. 4

SUMMARY

This document includes requirements that clarify or supersede portions of the Request for Proposal. This Addendum is a Contract Document.

General

The following changes, additions and deletions shall be made to the following document(s); all other conditions shall remain the same.

I. SPECIFICATIONS

Item	Reference	Description
1.	Document 00 0110 – Table of Contents	Add: Section 00 91 04 Addendum No. 4 Section 02 4113 Selective Demolition
2.	Document 00 11 19 – Instructions to Bidders	Revise time of RECEIPT OF BIDS as follows: RECEIPT OF BIDS. Sealed Bids will be received by the District at their office (see paragraph 2 below) no later than 4:00 pm on Thursday October 21, 2010. All other requirements remain unchanged.
3.	Section 00 73 00 – Supplementary Conditions	Revise item 8 as follows: 8. Supplement to Paragraph 10. B CONTRACTOR’S ORGANIZATION AND EQUIPMENT, Section 00 71 00 The 10’ x 24’ trailer noted as available for the general contractor to utilize as a job site trailer in the original bid documents will NOT be available for such use.
4.	Section 02 4113	Section 02 4113 – Selective Demolition: New Section
5.	Section 05 53 00 - Gratings	Section 05 53 00 – Gratings: Replace Section in its entirety.
6.	Section 05 50 00 – Metal Fabrications	Add Article 1.2 C: C. Metal mesh partition and gate Add Article 2.9 and renumber subsequent articles: 2.9 STANDARD DUTY MESH PARTITIONS A. Standard metal mesh partition and gate as manufactured by Acorn or approved equal 1. Mesh: 0.135-inch diameter, intercrimped steel wire woven into 1-1/2 inch diamond mesh, securely clinched to frame members. 2. Framing: Horizontal, vertical, and top capping members to be fabricated from 1/8 inch thick cold-rolled steel channels. Provide horizontal reinforcing members to suit panel height as recommended by partition manufacturer. Attach horizontals to vertical members using mortise and tenon connection.

San Mateo County Community College District

College of San Mateo

North Gateway - Load Center and Site Wall

DSA Application 01-110308

		<p>3. Floor Shoes: Cast metal, sized to suit vertical framing and to provide approximately 3 inches of clear space between finished floor and bottom horizontal frame members. Furnish units with set screws for leveling adjustment.</p> <p>4. Swinging Gates: Provide gate of sizes indicated on the Drawings. Fabricate frame from 1-1/4 by 1-1/4 by 3/16-inch steel angles on 4 sides, and wire mesh welded to framing.</p> <p>5. Gate Hardware: Full-surface spring type, 3-1/2 by 3-1/2-inch steel, 1 pair per door; securely attached to door and jamb framing. Padlock hasp for padlock accepting District's standard cylinder: Schlage 20-766 with "FP" keyway; 626 finish</p> <p>6. Finish: Manufacturer's standard, shop-applied enamel finish. Provide manufacturer's standard finish color.</p> <p>Add Article 3.5 and renumber subsequent articles</p> <p>3.5 MESH PARTITIONS</p> <p>A. Check actual locations for wire mesh products by accurate field measurements before fabrication and show recorded measurements on shop drawings.</p> <p>B. Erect partition plumb, rigid, properly aligned, and securely fastened in place, complying with the Drawings and manufacturer's recommendations.</p> <p>1. Provide cutouts for pipes, beams, and other items shown or necessary for partition installation. Finish edges of cutouts to provide a neat, protective edge.</p> <p>2. Install gates complete with gate hardware.</p>
7.	Section 07 1326 – Self-Adhering Sheet Waterproofing	<p>Add Article 1.2 C:</p> <p>C. Sealant and expandable expansion joint filler at gap between inner and outer vault walls at Load Center 4.</p> <p>Add Article 1.3 C:</p> <p>C. Section 03 1513 –“Hydrophilic Rubber Waterstops” for sealant at pipe penetrations at outer vault wall at Load Center 4</p> <p>Add Article 2.2:</p> <p>2.2 SEALANT</p> <p>A. Install closed cell backer rod and two-part polyurethane sealant around entire perimeter of gap.</p> <p>1. Backer rod: Closed cell foam</p> <p>2. Polyurethane sealant: Two-part intended for below-grade applications</p> <p>3. Silicone sealant: Dow795</p> <p>4. Expansion joint filler: Expandable custom fabricated profile as manufactured by Emseal DSM-DS System, custom sized width to properly fit into the gap</p> <p>2.3 FLASHINGS TERMINATIONS AND ACCESSORIES</p> <p>A. Termination bar: Standard stainless steel termination bar recommended by waterproofing system manufacturer</p> <p>B. Counterflashing: 24 ga. Stainless steel reglet counterflashing</p> <p>C. Pipe band clamps: Stainless steel</p> <p>Add Article 3.2 G</p>

San Mateo County Community College District

College of San Mateo

North Gateway - Load Center and Site Wall

DSA Application 01-110308

		<p>G. At existing below-grade walls, tie into existing waterproofing system. Install target patch. Clean and prep all surfaces free of dust, dirt, and debris. Grind existing concrete surfaces to properly prepare the surface to receive new waterproofing membrane. Apply primer on concrete surfaces. Install membrane and seal all laps with liquid membrane. Extend target patch minimum 12 inches onto existing membrane.</p> <p>Add the following to Article 3.3 E:</p> <p>E. "... required by manufacturer. All laps and seams of sheet membrane to be sealed with liquid membrane."</p> <p>Add Articles 3.5 and 3.6 and renumber subsequent articles</p> <p>3.5 SEALANT AND EXPANSION JOINT FILLER</p> <p>A. Prior to applying the sealant grind, prep, and prime the existing concrete surface within the wall gap to ensure proper bonding</p> <p>B. Apply and properly tool the polyurethane sealant in accordance with manufacturer's recommendations</p> <p>C. Install custom fabricated expandable expansion joint filler with silicone sealant. Fit snug and weld joints in expansion joint filler segments</p> <p>3.6 FLASHINGS AND TERMINATIONS</p> <p>A. Secure top edge of membrane with stainless steel termination bar secured 6 inches on center maximum with stainless steel fasteners. Coat termination bar with liquid membrane.</p> <p>B. Install 24 ga. Stainless steel reglet counterflashing. Seal all fastener heads. Seal exposed top edge of reglet counterflashing with silicone sealant. Use primer on all surfaces. Flashing shall extend 8" minimum below-grade.</p>
8.	31 1300 – Tree Protection & Trimming	<p><u>Add</u> the following to Article 3.4 D:</p> <p>"In no case shall trunks or branches larger than 6 inches in diameter be dragged over the surrounding ground surface."</p>

II. DRAWINGS

Item	Reference	Description
9.	G0.0	Add the following Abbreviations: BW Bottom of Wall BOW Bottom of Wall TW Top of Wall TOW Top of Wall
10.	G0.0	Add executed Architect's Statement per GSK-4, attached.
11.	G0.3	Revise Keynote D to read: "Existing transformer and switchgear to be removed"
12.	G0.3	Add Note: "Where pavement, landscaping, irrigation or site improvements are damaged in the work area or in the Contractor's staging and parking area, restore improvements to

San Mateo County Community College District

College of San Mateo

North Gateway - Load Center and Site Wall

DSA Application 01-110308

		their original condition"
13.	G0.3	Detail reference 10/A2.01 and site wall area noted Keynote B: Delete "NIC" .
14.	G0.3	Add 2/G0.3 indicating demolition, removal, reinstallation and repair requirements at existing load Center 4. See ASK-1 attached
15.	L5.05	Revise detail 1/L5.05 to include notes. See SKL-1, attached
16.	A2.01	1/A2.01 - Revise notation for "4" dia stl bollards" to read: "Barrier Posts: Removable Pipe Bollards, Typ 11. See Spec" Arrow should point to circular barrier posts
17.	A2.01	1/A2.01: Revise note regarding housekeeping pads to read as follows: "Provide level housekeeping pad under each piece of equipment - minimum height 6 inches"
18.	A2.01	3/A2.01- Revise detail markers 22/A2.01 to 19/A2.01; and revise 23/A2.01 to 20/A2.01; and revise 3/S1.01 to 15/A2.01 Sim Opp
19.	A2.01	4/A2.01 - Equipment elevated is incorrect. Refer to 2/E1 for correct equipment elevations
20.	A2.01	4/A2.01 – Height of grade adjoining Transformer Pad Enclosure varies. Refer to C1.01.
21.	A2.01	9/A2.01 – Revise detail title to read: Transformer Pad and Penetrations
22.	A2.01	9/A2.01 – Housekeeping pad is monolithic with slab as indicated on structural detail
23.	A2.01	10/A2.01 – Revise Note 3 to read as follows: "Extend 4" outlet from coil drain to daylight in landscape area"
24.	A2.01	10/A2.01 – Add Note 4: 4. Refer to specification for termination and flashing at top of waterproofing.
25.	A2.01	15/A2.01 – Delete "CMU Enclosure Wall" from drawing title
26.	A2.01	15/A2.01 - Revise note "Cont #5 bar" to read: "Reinforcing – SSD"
27.	A2.01	15/A2.01 - Revise note "Saddle clip 2 per grate section" to read: "Saddle clip: provide 2 per panel each end typ"
28.	A2.01	Details 10/ and 12/A2.01: Revise to indicate self-adhering membrane waterproofing extending over horizontal surface of footing and turned down 6 inches.
29.	S1.01	Detail 4/S1.01: Reference to HSS10x refers to HSS10x4x1/4
30.	S1.01	Detail 6/S1.01: Delete weep holes.
31.	S1.01	8/S1.01: Add note:: "Contractor to coordinate number and size of openings for conduits as required."
32.	S1.01	Refer to 10/S1.01: Add demolition plan and notes per SSK-2
33.	E1	2/E1: Detail indicates height of housekeeping pad as 4". Revise: Provide level housekeeping pad under each piece of equipment - minimum height 6 inches
34.	E1	2/E1: Detail shows 3'x5' vault below switch. Add reference to detail 6/E1, sim. without lid.
35.	E1	2/E1: Delete reference to Detail 4/E2 at (N) 2000A LC#8
36.	E1	4/E1: Revise note referring to existing cables from LC#4 vault to read as follows: "(E) cables from LC #4 vault to (E) buildings. See (E) duct bank detail 5/E1"
37.	E1	4/E1: Revise detail call out for two 17"x30" subsurface pullboxes in front of pad: Reference details 1/E1 and detail 7/E1
38.	E1	Arrangement and number of conductors shown in existing duct bank on plan 1/E1 differs from configuration shown in 5/E1: 5/E1 takes precedence. Field verify existing conditions
39.	E2	4/E2: Revise note to read "(N) Metal Mesh partition floor to ceiling with 2' gate" Add Notes 5 and 6: 5. Configuration of metal mesh partition is diagrammatic. Final layout to be determined based upon actual location of new wall opening for conduits at west wall..

San Mateo County Community College District

College of San Mateo
North Gateway - Load Center and Site Wall

DSA Application 01-110308

		6. Relocate (E) panels and conduits on the west wall as required for new wall opening for conduits. Verify conditions and clearances in the field. Obtain Engineer's approval of proposed locations where panels and conduits are to be relocated.
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III. CLARIFICATIONS

A.	Product Substitution Requests	Conform to procedures outlined in 00 11 19 "Instructions to Bidders" Product substitution requests must be submitted by the Bidder, utilizing Document 00 43 25. Include information demonstrating that the product is available in the types, sizes and finishes specified and indicated on the drawings.
B.	Cover Sheet	"New Fire Hydrant Phase 1", indicated on Partial Site Plan, is NOT a part of the Load Center and Site Wall Project

IV. ATTACHMENTS

Item	Section Number	Reference
1.	Document 00 0110 – Table of Contents	Replace Section in its entirety.
2.	Section 02 4113 – Selective Demolition	New Section
3.	Section 05 53 00 – Gratings	Replace Section in its entirety.
	Sheet Number	Reference
4.	GSK-4	G0.0
5.	SKL-1	1/L5.05
6.	ASK-1	2/G0.3
7.	SSK-2	10/S10.1

END OF ADDENDUM 4

- SECTION 02 4113 -

SELECTIVE SITE DEMOLITION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Perform selective demolition as required to perform the work indicated on the Structural and Electrical Drawings. Repair concealed construction to match existing conditions adjacent. Repair exposed construction to match adjacent finishes in color, texture, and quality. Demolition includes, but is not limited to the following:
1. Remove existing concrete panels at roof of inner Load Center 4 vault. Store and protect for reinstallation.
 2. Reinstall concrete panels. Seal between panel joints and repair fluid-applied elastomeric coating system over the entire surface of panels removed and reinstalled as part of this project for a waterproof tie-in.
 3. Remove and reinstall metal gratings as required to remove existing electrical switchgear.
 4. Sawcut and remove portion of inner Load Center 4 vault wall for new conduit penetrations.
 5. Sawcut and remove concrete pavement to construct new point of entry for conduits through wall of outer Load Center 4 vault. Provide layout of pavement to be removed and replaced and obtain approval of Architect and District prior to proceeding.
 6. Remove concrete pads and attachments adjacent to Building 18 where existing electrical equipment is removed.
 7. Patch all abandoned penetrations neat and watertight.
 8. Refer to Structural and Electrical drawings for additional requirements.

1.3 RELATED SECTIONS

- A. Section 01 7329 "Cutting and Patching" for general requirements pertaining to cutting, fitting, and patching of the work.

1.4 DEFINITIONS

- A. Remove: Remove and legally dispose of items except those indicated to be reinstalled, salvaged, or to remain the District's property.

SELECTIVE SITE DEMOLITION

COLLEGE OF SAN MATEO, NORTH GATEWAY
LOAD CENTER & SITE WALLS
SAN MATEO, CALIFORNIA

- B. Remove and Salvage: Items indicated to be removed and salvaged remain the District's property. Remove, clean, and pack or crate items to protect against damage. Identify contents of containers and deliver to District's designated storage area.
- C. Remove and Reinstall: Remove items indicated; clean, service, and otherwise prepare them for reuse; store and protect against damage. Reinstall items in the same locations or in locations indicated.
- D. Existing to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by the Architect, items may be removed to a suitable, protected storage location during selective demolition and then cleaned and reinstalled in their original locations.
- E. Materials Ownership: Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain the District's property, demolished materials shall become the Contractor's property and shall be removed from the site with further disposition at the Contractor's option.

1.5 SUBMITTALS

- A. Record Drawings at Project Closeout: Identify and accurately locate capped utilities and other subsurface structural, electrical, plumbing, mechanical, and security devices.

1.6 QUALITY ASSURANCE

- A. Regulatory Requirements
 1. Comply with governing Environmental Protection Agency (EPA) notification regulations before starting demolition.
 2. Comply with 2007 California Building Code (CBC), Chapter 33 for demolition regulations.
 3. Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Demolition Firm Qualifications: Engage an experienced firm that has successfully completed demolition work similar to that indicated for this Project.
- C. Pre-Demolition Conference: Conduct conference at Project site to comply with pre-demolition requirements.

1.7 PROJECT CONDITIONS

- A. Conditions existing at time of inspection for bidding purposes will be maintained by the District as far as practical.
- B. Asbestos: It is not expected that asbestos will be encountered in the Work. If any materials suspected of containing asbestos are encountered, do not disturb the materials. Immediately notify the Architect and the District.
- C. Consult with the District regarding removal and salvage of major mechanical, plumbing, and electrical items before removing.
- D. Storage or sale of removed items or materials on site will not be permitted.

SELECTIVE SITE DEMOLITION

1.8 SCHEDULING

- A. Arrange demolition schedule so as not to interfere with the District's on site operations.

PART 2 - PRODUCTS NOT USED

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that site utilities have been disconnected and capped.
- B. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- C. Inventory and record the condition of items to be removed and reinstalled and items to be removed and salvaged.
- D. When unanticipated plumbing, mechanical, electrical, security, or structural elements that conflict with the intended function or design are encountered, investigate and measure the nature and extent of the conflict. Promptly submit a written report to the Architect.
- E. Perform surveys as the Work progresses to detect hazards resulting from selective demolition activities.

3.2 SITE UTILITY SERVICES

- A. Maintain existing site utilities indicated to remain in service and protect them against damage during selective demolition operations.
 - 1. Do not interrupt existing utilities serving occupied or operating facilities, except when authorized by the District. Provide temporary services during interruptions to existing utilities, as acceptable to District and to governing authorities.
 - a. Notify the District a minimum of 21 days in advance of any scheduled service interruption.
 - b. Provide not less than 72 hours' notice to the District if shutdown of service is required during changeover.
- B. Utility Requirements: Locate, identify, disconnect, and seal or cap off indicated utility services serving portions of the site to be selectively demolished.
 - 1. Arrange to shut off indicated utilities with utility companies.
 - 2. Where utility services are required to be removed, relocated, or abandoned, provide bypass connections to maintain continuity of service to other parts of the site before proceeding with selective demolition.

3.3 PREPARATION

- A. Conduct demolition operations and remove debris to ensure minimum interference with streets, walks, and other adjacent occupied and used facilities.
 - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from the District and authorities having jurisdiction.
- B. Conduct demolition operations to prevent injury to people and damage to adjacent buildings and facilities to remain. Ensure safe passage of people around selective demolition area.
 - 1. Erect temporary protection, such as walks, fences, railings, canopies, and covered passageways, where required by authorities having jurisdiction.
 - 2. Protect existing site improvements, appurtenances, and landscaping to remain.
 - 3. Erect a plainly visible fence around drip line of individual trees or around perimeter drip line of groups of trees to remain.

3.4 EXPLOSIVES

- A. Explosives: Do not bring explosives to the site or use explosives without written consent of District and authorities having jurisdiction. Such written consent will not relieve Contractor of total responsibility for injury to people or for damage to property due to blasting operations. Perform required blasting in compliance with governing regulations.

3.5 POLLUTION CONTROLS

- A. Use water mist, temporary enclosures, and other suitable methods to limit the spread of dust and dirt. Comply with governing environmental protection regulations.

3.6 SELECTIVE SITE DEMOLITION, GENERAL

- A. Use methods required to complete work within limitations of governing regulations and as follows:
 - 1. Dispose of demolished items and materials promptly.
 - 2. Demolish concrete and masonry elements in small sections.
 - 3. Break up and remove asphalt paving and concrete slabs on grade, unless otherwise shown to remain.
- B. Below-Grade Construction: Demolish foundation walls and other below-grade construction as follows:
 - 1. Completely remove below-grade construction, including foundation walls and footings.
 - 2. Break up and remove below-grade concrete slabs, unless indicated to remain.
- C. Filling Below-Grade Areas: Completely fill below-grade areas and voids resulting from demolition of buildings and pavements with soil materials according to requirements specified on the Drawings.
- D. Damages: Promptly repair damages to adjacent facilities caused by demolition operations.

SELECTIVE SITE DEMOLITION

3.7 PATCHING AND REPAIRS, GENERAL

- A. Employ skilled workmen to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time and complete without delay.
 - 1. Cut existing construction to provide for installation of other components or performance of other construction activities and the subsequent fitting and patching required to restore surfaces to their original condition.

- B. Cutting: Cut existing construction using methods least likely to damage elements retained or adjoining construction.
 - 1. In general, where cutting, use hand or small power tools designed for sawing or grinding, not hammering and chopping. Cut holes and slots as small as possible, neatly to size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
 - 2. To avoid marring existing finished surfaces, cut or drill from the exposed or finished side into concealed surfaces.
 - 3. Cut through concrete and masonry using a cutting machine, such as a carborundum saw or a diamond-core drill.
 - 4. Comply with requirements of applicable Sections where cutting and patching requires excavating and backfilling.
 - 5. Where services are required to be removed, relocated, or abandoned, by-pass utility services, such as pipe or conduit, before cutting. Cut-off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal the remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after by-passing and cutting.

- C. Patching: Patch with durable seams that are as invisible as possible. Comply with specified tolerances.
 - 1. Where feasible, inspect and test patched areas to demonstrate integrity of the installation.
 - 2. Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.
 - 3. Where removing walls or partitions extends one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform color and appearance. Remove existing floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
 - a. Where patching occurs in a smooth painted surface, extend final paint coat over entire unbroken surface containing the patch after the area has received primer and second coat.
 - 4. Patch and repair existing ceilings as necessary to provide an even-plane surface of uniform appearance.

3.8 REPAIR OF EXISTING ROOF COATING

- A. Where concrete planks are to be removed and reinstalled, Contractor shall neatly and carefully cut the existing deck coating at the perimeter of the planks.

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LOAD CENTER & SITE WALLS
SAN MATEO, CALIFORNIA

- B. After planks are removed and reinstalled, clean and prepare existing deck coating located on the planks and 24 inches onto the adjacent coated concrete deck surface. Peel off and remove loose/white urethane deck coating to expose the underlying waterproofing. Remove all dirt, dust, and debris from the coating.
- C. Grind and prepare existing concrete surface. Apply 2-part polyurethane sealant over closed cell backer rod at perimeter joint between planks and decking. Allow sealant to cure.
- D. Perform adhesion tests to confirm compatibility of the new polyurethane deck coating system and its ability to adhere to the existing deck coating. Receive written approval from manufacturer indicating coating is compatible with the existing system.
- E. Install polyurethane deck coating system with mesh reinforcement and UV-resistant white coating at tie-in in accordance with manufacturer's recommendations.
 - 1. Product: As manufactured by Gaco Western; Neogard; Pacific Polymers, or approved equal.
 - 2. Final Thickness of Tie-In: 80 mils.
 - 3. Width of Tie-In: 24 inches to 30 inches.

3.9 DISPOSAL OF DEMOLISHED MATERIALS

- A. General: Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on site.
- B. Remove and transport debris in a manner that will prevent spillage on adjacent structures and areas.
- C. Disposal: Transport demolished materials off District's property and legally dispose of them.
- D. Burning: Do not burn demolished materials.

3.10 CLEANING

- A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before start of selective demolition.

- END OF SECTION -

SELECTIVE SITE DEMOLITION

- SECTION 05 5300 -

GRATINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Exterior extruded-aluminum plank gratings.
 - 2. Metal frames and supports for gratings.

1.3 RELATED SECTIONS

- A. Section 03 3000 "Cast-in-Place Concrete" for coordination with embeds and recessed grating frames.
- B. Section 05 5000 "Metal Fabrications" for miscellaneous metals.

1.4 SUBMITTALS

- A. Product Data: For the following:
 - 1. Extruded-aluminum plank gratings.
 - 2. Clips and anchorage devices for gratings.
- B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work.
 - 1. Provide templates for anchors and bolts specified for installation under other Sections.
- C. Mill Certificates: Signed by manufacturers of stainless-steel sheet certifying that products furnished comply with requirements.

1.5 QUALITY ASSURANCE

- A. Metal Bar Grating Standards: Comply with NAAMM MBG 531, "Metal Bar Grating Manual and NAAMM MBG 532, "Heavy-Duty Metal Bar Grating Manual."

- B. Welding: Qualify procedures and personnel according to the following:
 - 1. AWS D1.1, "Structural Welding Code--Steel."
 - 2. AWS D1.2/D1.2M, "Structural Welding Code - Aluminum."
 - 3. AWS D1.3, "Structural Welding Code--Sheet Steel."

1.6 PROJECT CONDITIONS

- A. Field Measurements: Verify actual locations of walls and other construction contiguous with gratings by field measurements before fabrication and indicate measurements on Shop Drawings.
 - 1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating gratings without field measurements. Coordinate wall and other contiguous construction to ensure that actual dimensions correspond to established dimensions.
 - 2. Provide allowance for trimming and fitting at site.

1.7 COORDINATION

- A. Coordinate installation of anchorages for gratings, grating frames, and supports. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Product: The design is Extruded Plank Aluminum Grating, HD Series, Item #HD60, manufactured by McNichols Co., Cerritos, CA tel: (800) 237-3820, www.mcnichols.com.
- B. Available 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. Metal Bar Gratings:
 - a. Alabama Metal Industries Corporation.
 - b. All American Grating, Inc.
 - c. Fisher & Ludlow.
 - d. IKG Industries; a Harsco Company.
 - e. Ohio Gratings, Inc.
 - f. Tru-Weld.

2.2 FERROUS METALS

- A. Steel Plates, Shapes, and Bars: ASTM A 36/A.

GRATINGS

2.3 ALUMINUM

- A. Aluminum, General: Provide alloy and temper recommended by aluminum producer for type of use indicated, and with not less than the strength and durability properties of alloy and temper designated below for each aluminum form required.
- B. Extruded Bars and Shapes: ASTM B 221 (ASTM B 221M), alloys as follows:
 - 1. 6063-T6, for bearing bars of gratings and shapes.
- C. Aluminum Sheet: ASTM B 209 (ASTM B 209M), Alloy 5052-H32.

2.4 FASTENERS

- A. General: Unless otherwise indicated, provide Type 316 stainless-steel fasteners for exterior use. Provide stainless-steel fasteners for fastening aluminum. Select fasteners for type, grade, and class required.
- B. Stainless-Steel Bolts and Nuts: Regular hexagon-head annealed stainless-steel bolts, nuts, and, where indicated, flat washers; ASTM F 593 for bolts and ASTM F 594 for nuts, Alloy Group 2 (A4).
- C. Plain Washers: Round, ASME B18.22.1.
- D. Lock Washers: Helical, spring type, ASME B18.21.1.
- E. Anchors: Provide cast-in-place or torque-controlled expansion anchors with capability to sustain, without failure, a load equal to six times the load imposed when installed in unit masonry and equal to four times the load imposed when installed in concrete, as determined by testing per ASTM E 488 conducted by a qualified independent testing agency.
 - 1. Material for Anchors in Exterior Locations: Alloy Group 2 (A4) stainless-steel bolts complying with ASTM F 593 and nuts complying with ASTM F 594.

2.5 MISCELLANEOUS MATERIALS

- A. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy that is welded.
- B. Separate dissimilar metals with neoprene gaskets or a heavy coating of bituminous paint.
- C. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D 1187.

2.6 FABRICATION

- A. Shop Assembly: Fabricate grating sections into panels of widths indicated on drawings. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.

COLLEGE OF SAN MATEO, NORTH GATEWAY
LOAD CENTER & SITE WALLS
SAN MATEO, CALIFORNIA

- B. Cut, drill, and punch material cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch, unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.
- C. Form from materials of size, thickness, and shapes indicated, but not less than that needed to support indicated loads.
- D. Fit exposed connections accurately together to form hairline joints.
- E. Welding: Comply with AWS recommendations and the following:
 - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 - 2. Obtain fusion without undercut or overlap.
 - 3. Remove welding flux immediately.
- F. Provide for anchorage of type indicated; coordinate with supporting structure. Fabricate and space the anchoring devices to secure gratings, frames, and supports rigidly in place and to support indicated loads.

2.7 EXTRUDED-ALUMINUM PLANK GRATINGS

- A. Provide extruded-aluminum plank gratings in type, size, and finish indicated or, if not indicated, as recommended by manufacturer for indicated applications and as needed to support indicated loads.
 - 1. Type: Individual extruded-aluminum planks approximately 6 inches (152 mm) wide shall be shop-assembled to panels 36-inch total width except as otherwise indicated.
 - 2. Height: 1-3/4 inches.
 - 3. Surface: Rectangular punched.
 - 4. Finish: Mill finish, as fabricated.

2.8 GRATING FRAMES AND SUPPORTS

- A. Frames and Supports for Metal Gratings: Fabricate from metal shapes, plates, and bars of welded construction to sizes, shapes, and profiles indicated and as necessary to receive gratings. Miter and weld connections for perimeter angle frames. Cut, drill, and tap units to receive hardware and similar items.
 - 1. Galvanize all steel frames and supports

2.9 STEEL FINISHES

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Finish gratings, frames, and supports after assembly.
- C. Galvanizing: For those items indicated for galvanizing, apply zinc coating by the hot-dip process complying with ASTM A 123/A 123M.

GRATINGS

- D. Primer: Prime all galvanized steel surfaces with primer compatible with requirements of the coating specified in Section 09 96 00 – High Performance Coatings

2.10 ALUMINUM FINISHES

- A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.

PART 3 - EXECUTION

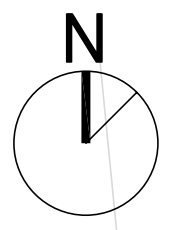
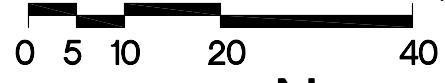
3.1 INSTALLATION, GENERAL

- A. Fastening to In-Place Construction: Provide anchorage devices and fasteners where necessary for securing gratings to in-place construction. Include threaded fasteners for concrete and masonry inserts, through-bolts, lag bolts, and other connectors.
- B. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing gratings. Set units accurately in location, alignment, and elevation; measured from established lines and levels and free of rack.
- C. Provide temporary bracing or anchors in formwork for items that are to be built into concrete or masonry.
- D. Fit exposed connections accurately together to form hairline joints.
- E. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A 780 prior to priming.

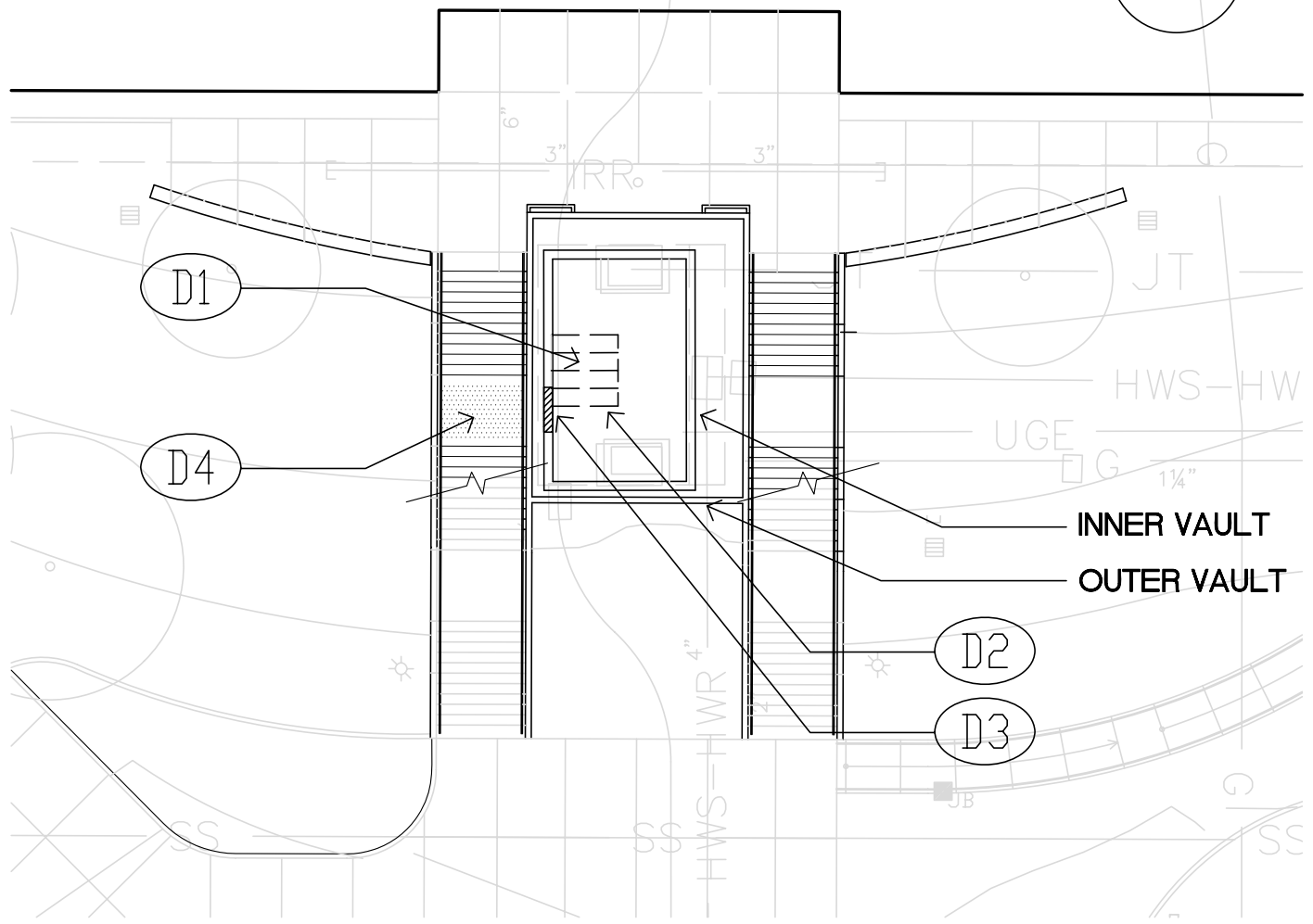
3.2 INSTALLING METAL PLANK GRATINGS

- A. General: Comply with manufacturer's written instructions for installing gratings. Use manufacturer's standard anchor clips and hold-down devices for bolted connections.
- B. Attach removable units to supporting members by bolting at every point of contact.
- C. Attach non-removable units to supporting members by welding unless otherwise indicated. Comply with manufacturer's written instructions for size and spacing of welds.
- D. Attach aluminum units to steel supporting members by bolting at side channels at every point of contact and by bolting intermediate planks at each end on alternate sides. Bolt adjacent planks together at mid-span.

- END OF SECTION -



BLDG 36



2
G0.3

LC 4 DEMOLITION



DEMOLITION NOTES

1. Perform Selective Demolition as required to perform the work indicated on the Structural and Electrical Drawings. Repair concealed construction to match existing conditions adjacent.
2. Patch all abandoned penetrations neat and watertight.
3. Refer to Structural and Electrical drawings for additional requirements.
4. Remove concrete pads and attachments adjacent to Building 18 where existing electrical equipment is removed.

DEMOLITION KEYNOTES

- D1** Remove existing concrete panels at roof of inner Load Center 4 vault. Store and protect for reinstallation. Reinstall concrete panels. Seal between panel joints and repair fluid-applied elastomeric coating system over the entire surface of panels removed and reinstalled as part of this project for a waterproof tie-in.
- D2** Remove and reinstall metal gratings as required to remove existing electrical switchgear.
- D3** Sawcut and remove portion of inner Load Center 4 vault wall for new conduit penetrations SSD.
- D4** Sawcut and remove concrete pavement to construct new point of entry for conduits through wall of outer Load Center 4 vault. Sawcut straight and parallel to stair treads. Provide layout of pavement to be removed and replaced and obtain approval of Architect and District prior to proceeding. SSD for additional requirements.

SCALE SHEET ___ OF ___	<h1 style="margin: 0;">ASK -1</h1>	DSA FILE NO. 41-C1 APPLICATION NO. 01-110308 ADDENDUM NO. 4 DATE: OCT 18, 2010 REFERENCES: G0.03	<p style="text-align: center;">CSM North Gateway Load Center & Site Wall</p>		<p style="text-align: right;">architects and planners noll & tam</p> <p style="text-align: right;">729 Heinz Avenue Berkeley, CA 94710 510.649.8295 fax 510.649.3008</p>
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ARCHITECT'S STATEMENT

With the exception of the General (G Series) and Architectural (A Series) these drawings and/or specifications and/or calculations for the items listed above have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. These documents have been examined by me for design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me.

The items listed above have been coordinated with my plans and specifications and are acceptable for incorporation into the construction of this project for which I am the individual designated to be in general responsible charge. The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of the Title 24, Part 1. (Title 24, Part 1, Section 4-317 (b))


The accepted drawings are listed on Sheet G0.0.



Christopher Noll, Principal
NOLL & TAM Architects

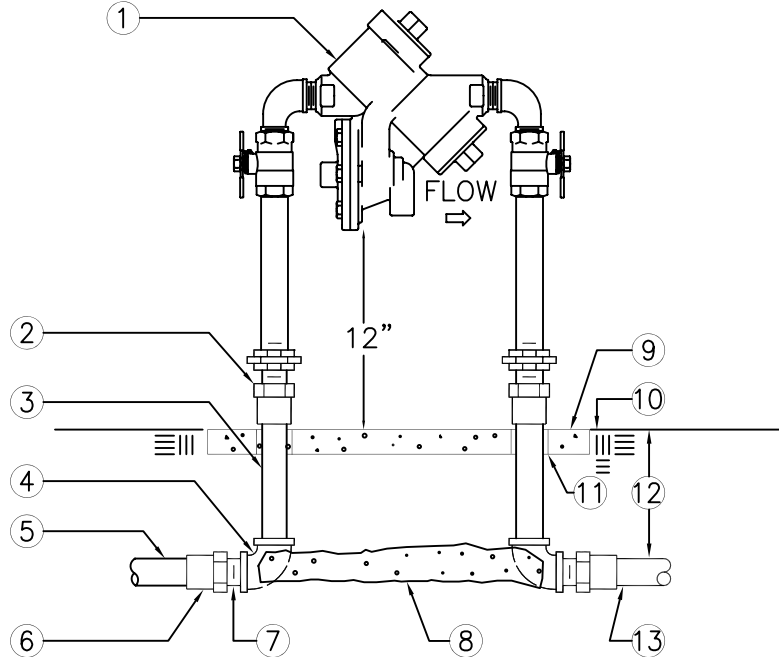
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Date
CA License No C15916
Expiration Date: 12/31/11

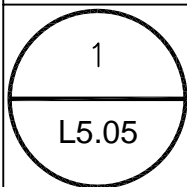
<p>Noll & Tam <i>Architects</i> 729 Heinz Avenue Berkeley, California 94710 tel 510.649.8295 fax 510.649.3008</p>		<p>CSM North Gateway Load Center & Site Wall</p> <p>DSA FILE NO. 41 - C1 APPLICATION NO. 01 - 110308</p> <p>REVISION NO. ADD 2 REFERENCES: DATE: OCT 18 2010 SHEET G0.0</p>	<p>DRAWING</p> <p>GSK-4</p> <p>SCALE: NONE</p>
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NOTES:

1. INSTALL A FREEZE PREVENTATIVE BLANKET AROUND BACKFLOW ASSEMBLY. BLANKET SHALL BE GREEN AND MANUFACTURED BY STRONGBOX.
2. DO NOT SOLDER CONNECT FITTINGS WHILE THREADED INTO BACKFLOW ASSEMBLY. DAMAGE MAY OCCUR.
3. NIPPLES AND FITTINGS TO BE SAME IPT SIZE AS BACKFLOW ASSEMBLY.
4. PROVIDE A STRONG BOX SBBC-30SS OR ACCEPTED EQUAL 32"x 30"x 18" BACKFLOW PREVENTER ENCLOSURE TO COMPLETELY ENCLOSE DEVICE. INSTALL ENCLOSURE TO CONCRETE BASE AS DIRECTED BY MANUFACTURER.



- | | |
|---|--|
| ① REDUCED PRESSURE BACKFLOW ASSEMBLY | ⑦ SCHEDULE 40 PVC MALE ADAPTER-2 TOTAL |
| ② WROT COPPER MALE ADAPTER-2 TOTAL (SOLDER X THREAD CONNECTION) | ⑧ CONCRETE SUPPORT BLOCK |
| ③ COPPER TYPE "K" PIPE (LENGTH AS REQUIRED) | ⑨ CONCRETE PAD-SEE ENCLOSURE DETAIL |
| ④ WROT COPPER 90° ELBOW-2 TOTAL (SOLDER X THREAD CONNECTION) | ⑩ FINISH GRADE |
| ⑤ PVC MAIN LINE TO POINT OF CONNECTION | ⑪ PVC SLEEVE BOTH SIDES |
| ⑥ BUSH AS NECESSARY FOR SIZE TRANSITION | ⑫ REFER TO IRRIGATION LEGEND |
| | ⑬ PVC MAIN LINE TO IRRIGATION SYSTEM |



REDUCED PRESSURE BACKFLOW ASSEMBLY

SCALE: NONE
DET: RPB-1

**College of San Mateo
North Gateway**

San Mateo Community College District

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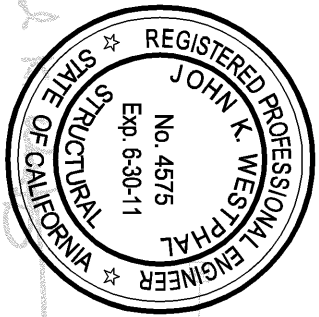
LPA

Architecture
Sustainability
Planning
Interior Design
Landscape Architecture
Engineering
Graphics

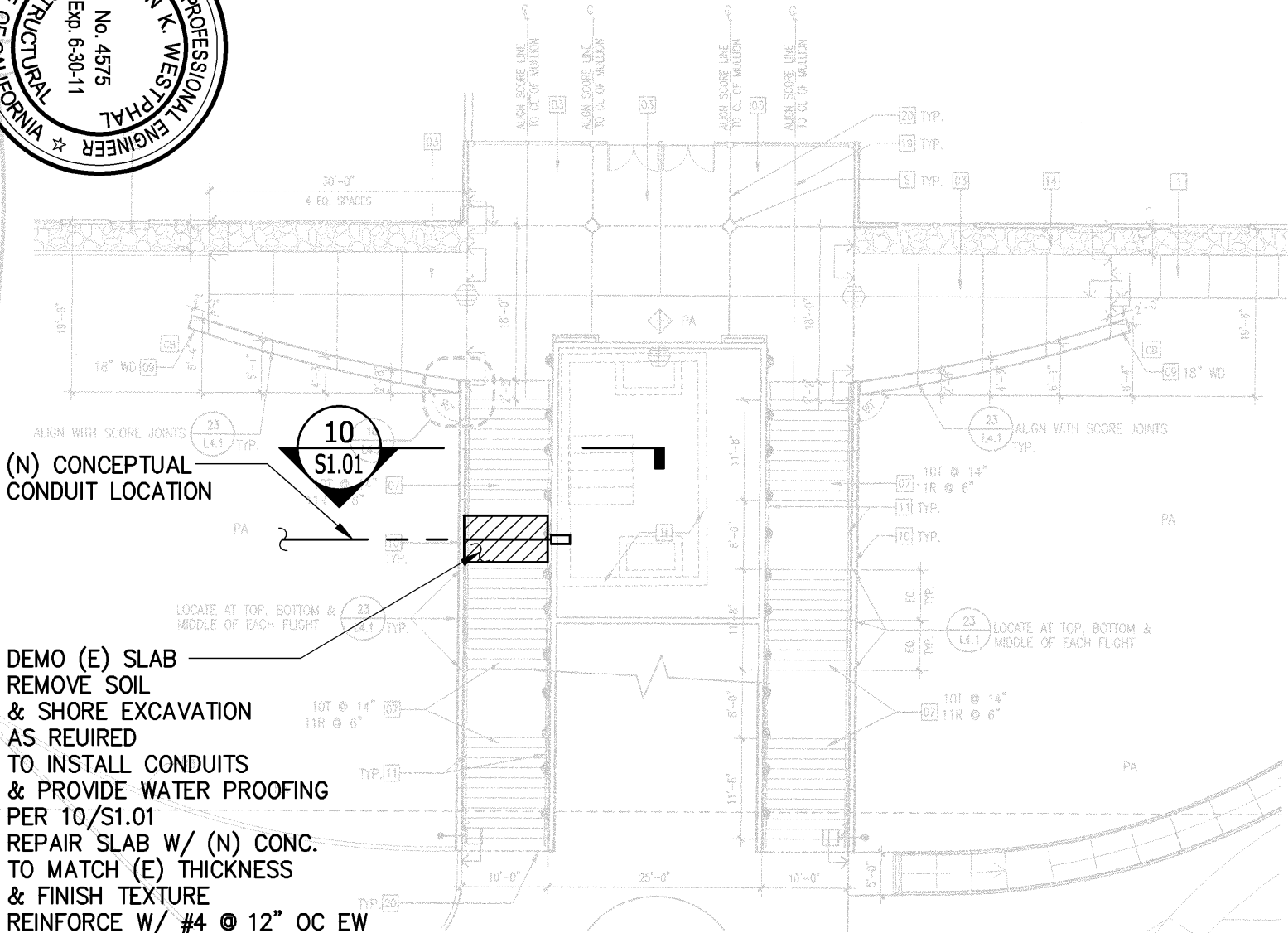
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Detail Description	Job. No.	2806610
01/L5.05	Filename	
IRRIGATION DETAILS	Date	10 OCT 2010
	Scale	NTS
	Sketch	
		SKL-1 ADDENDUM 4



BUILDING 36



GROUND FLOOR PLAN

(N) CONCEPTUAL
CONDUIT LOCATION



- DEMO (E) SLAB
- REMOVE SOIL
- & SHORE EXCAVATION
- AS REQUIRED
- TO INSTALL CONDUITS
- & PROVIDE WATER PROOFING
- PER 10/S1.01
- REPAIR SLAB W/ (N) CONC.
- TO MATCH (E) THICKNESS
- & FINISH TEXTURE
- REINFORCE W/ #4 @ 12" OC EW
- PROVIDE #4 x 16" EPOXY DOWELS,
- 4" EPOXY EMBED.
- @ 12" OC AROUND PERIMETER.



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PROJECT: CSM NORTH GATEWAY
 LOAD CENTER & SITE WALL
 1700 West Hillsdale Blvd San Mateo, CA 94402

TITLE: ADDENDUM 4

REF: 10/S1.01

JOB # 08C135

DATE: 10/18/10

SCALE: AS NOTED

SSK-2