

PROJECT DESCRIPTION

- 1. THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS IS FOR THE CONSTRUCTION OF A NEW ONE-STORY RESTROOM BUILDING AND RAMP.
- 2. THE DESIGN OF NEW WORK IS IN GENERAL CONFORMANCE TO THE REQUIREMENTS OF THE 2010 SAN FRANCISCO BUILDING CODE (SFBC) WHICH COMPRISES THE 2010 CALIFORNIA BUILDING CODE (CBC) AND 2010 SAN FRANCISCO AMENDMENTS.

GENERAL

- 1. THESE GENERAL NOTES APPLY THROUGHOUT ALL STRUCTURAL DRAWINGS EXCEPT WHERE SPECIFICALLY SHOWN BY NOTES ON DRAWINGS AND/OR DETAILS.
- 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO THE START OF CONSTRUCTION OR FABRICATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION OR FABRICATION. ANY DISCREPANCIES, INCONSISTENCIES, OR UNSOUND CONDITIONS SHALL BE REPORTED TO THE ENGINEER FOR RESOLUTION PRIOR TO THE START OF ANY CONSTRUCTION OR FABRICATION SO THAT A CLARIFICATION CAN BE ISSUED.
- 3. DIMENSIONS ARE TO CENTERLINE OF STEEL FRAMING, FACE OF CONCRETE SURFACES, FACE OF STUDS, FACE OF CONCRETE MASONRY UNITS (CMU), TOP OF SHEATHING, OR TOP OF STRUCTURAL SLAB, UNLESS OTHERWISE NOTED.
- 4. DIMENSIONS IN THE STRUCTURAL DRAWINGS ARE AS NOTED. DO NOT USE DIMENSIONS SCALED FROM THE STRUCTURAL DRAWINGS.
- 5. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE CITY AND COUNTY OF SAN FRANCISCO.
- 6. ALL TYPICAL DETAILS AND NOTES SHOWN ON DRAWINGS SHALL APPLY UNLESS OTHERWISE NOTED. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS, BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE DRAWINGS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO DETAILS ARE NOTED, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.
- 7. REFER TO OTHER DISCIPLINES' DRAWINGS AND COORDINATE INFORMATION RELATED TO THOSE OTHER DISCIPLINES' SYSTEMS FOR ITEMS SUCH AS:
 - a. FINISH FLOOR ELEVATIONS, FLOOR DEPRESSIONS, CHANGES IN ELEVATION, SLOPES, DRAINS, CURBS, PADS, INSERTS, ETC.
 - b. SIZE AND LOCATION OF ALL NON-BEARING PARTITIONS.
 - c. SIZE AND LOCATION OF ALL WALL, FLOOR AND ROOF OPENINGS.
 - d. STAIR FRAMING, HANGERS AND DETAILS.
 - e. WATERPROOFING AND WATERSTOPS.
 - f. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND FLOOR OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
 - g. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS, ETC., IN WALLS AND SLABS.
 - h. SIZE, LOCATION, ANCHORAGE AND BRACING FOR MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT.
- 8. FOR OPENINGS LARGER THAN 6" THAT ARE REQUIRED BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL SUBMIT DRAWINGS INDICATING OPENING LOCATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- 9. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS AND/OR METHODS OF CONSTRUCTION. ALTHOUGH THE NEED FOR SHORING MAY SOMETIMES BE INDICATED IN THE STRUCTURAL DRAWINGS, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DESIGN, PROVIDE, AND MAINTAIN TEMPORARY BRACING, SHORING, GUYING, OR OTHER TEMPORARY SUPPORT AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION.
- 10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTION OF ADJACENT STRUCTURES DURING CONSTRUCTION. THE CONTRACTOR SHALL BEAR ALL EXPENSE FOR REPAIR OR REPLACEMENT.
- 11. WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION UNTIL WALL DESIGN STRENGTH HAS BEEN ATTAINED AND ALL PERMANENT SUPPORTS ARE IN PLACE.
- 12. THE USE OF NEW CONSTRUCTION FOR TEMPORARY SUPPORT OR STORAGE OF CONSTRUCTION EQUIPMENT OR MATERIALS IS RESTRICTED TO THE DESIGN CAPACITY OF THE NEW CONSTRUCTION AT THE TIME IT IS TO BE USED. EQUIPMENT OR MATERIALS SHALL BE PLACED SO AS NOT TO EXCEED THE CAPACITY OF INDIVIDUAL ELEMENTS. PROVIDE ADEQUATE, ENGINEERED SHORING AND/OR BRACING WHERE DESIGN CAPACITY IS NOT SUFFICIENT.
- 13. CONSTRUCTION LOADS SHALL NOT BE PLACED ON NEW CONCRETE CONSTRUCTION, INCLUDING CONCRETE FILL ON METAL DECK, FOR AT LEAST 7 DAYS AFTER CONCRETE PLACEMENT.
- 14. SPECIFICATIONS AND DETAILING OF ALL WATERPROOFING AND DRAINAGE ITEMS, ALTHOUGH SOMETIMES INDICATED ON THE STRUCTURAL DRAWINGS FOR GENERAL INFORMATION PURPOSES ONLY, ARE SOLELY THE DESIGN RESPONSIBILITY OF OTHERS.
- 15. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING PIPES, DUCTS, AND UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE FOR REPAIR OR REPLACEMENT.
- 16. ALL STRUCTURAL MEMBERS AND ELEMENTS SHOWN ON THE STRUCTURAL DRAWINGS ARE NEW UNLESS NOTED (E) FOR EXISTING CONDITIONS.

BASIS OF DESIGN

- 1. ALL NEW CONSTRUCTION SHALL CONFORM TO THE 2010 SAN FRANCISCO BUILDING CODE (SFBC) WHICH COMPRISES THE 2010 CALIFORNIA BUILDING CODE (CBC) AND 2010 SAN FRANCISCO AMENDMENTS.
- 2. THE PUBLICATIONS LISTED BELOW ARE THE GOVERNING CODES AND STANDARDS REFERENCE BY THE CBC AND ARE REFERENCED HEREIN BY THEIR BASIC DESIGNATION. IN THE CASE OF CONFLICTING REQUIREMENTS, THE SFBC SHALL GOVERN.
 - ACI 301-10 AMERICAN CONCRETE INSTITUTE, "SPECIFICATIONS FOR STRUCTURAL CONCRETE", 2010 EDITION
 - ACI 318-08 AMERICAN CONCRETE INSTITUTE, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", 2005 EDITION
 - ASCE 7-10 AMERICAN SOCIETY OF CIVIL ENGINEERS, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES", 2005 EDITION
 - ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS
 - AWS D1.4 AMERICAN WELDING SOCIETY, "STRUCTURAL WELDING CODE - REINFORCING STEEL", 2000 EDITION

STRUCTURAL DESIGN CRITERIA

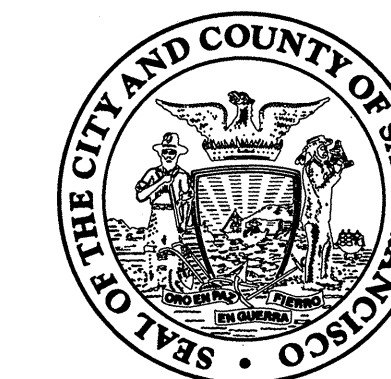
- 1. DESIGN LIVE LOADS:
 - ROOF: 20 PSF (REDUCIBLE)
 - 2. WIND DESIGN CRITERIA:
 - BASIC WIND SPEED: 85 MPH
 - EXPOSURE: C
 - 3. SEISMIC DESIGN CRITERIA:
 - PEAK GROUND ACCELERATION : $S_s = 1.730g$, $S_1 = 0.883g$
 - SITE CLASSIFICATION: D
 - SITE COEFFICIENTS: $F_a = 1.00$, $F_v = 1.50$
 - MAXIMUM SPECTRAL ACCELERATION: $S_{MS} = 1.730g$, $S_{M1} = 1.324g$
 - DESIGN SPECTRAL ACCELERATION: $S_{DS} = 1.153g$, $S_{D1} = 0.883g$
 - OCCUPANCY CATEGORY: II
 - IMPORTANCE FACTOR: $I = 1.0$
 - SEISMIC DESIGN CATEGORY: $S_{DC} = D$
- FOR BEARING WALL SYSTEMS WITH ORDINARY REINFORCED CONCRETE SHEAR WALLS:
- RESPONSE MODIFICATION FACTOR: $R = 4$
 - SYSTEM OVERSTRENGTH FACTOR: $\Omega_o = 2\frac{1}{2}$
 - DEFLECTION AMPLIFICATION FACTOR: $C_d = 4$
 - SEISMIC BASE SHEAR: $V = 0.288 W$ (LRFD)

SHEET INDEX			
SHEET NO.	TITLE	100% CD SUBMITTAL BID SET	100% CD SUBMITTAL PERMIT SET
S1.2	STRUCTURAL GENERAL NOTES	X	X
S1.3	STRUCTURAL GENERAL NOTES	X	X
S1.4	TYPICAL CONCRETE DETAILS	X	X
S1.5	TYPICAL CONCRETE DETAILS	X	X
S2.0	SITE PLAN	X	X
S2.1	FOUNDATION AND ROOF PLANS	X	X
S3.1	FOUNDATION DETAILS	X	X
S4.1	WALL ELEVATIONS	X	X
S4.2	WALL SECTIONS & DETAILS	X	X
S5.1	ROOF DETAILS	X	X
S6.1	RETAINING WALLS PLAN & ELEVATION	X	X
S6.2	RETAINING WALLS DETAILS	X	X
S6.3	RETAINING WALLS DETAILS	X	X
S6.4	RETAINING WALLS DETAILS	X	X
REFERENCE:			
		SEPT 28, 2012	SEPT 28, 2012

LEGEND

- WALL SECTION AND BUILDING SECTION:
 - WALL OR BUILDING SECTION
 - DRAWING SHEET WHERE WALL SECTION OR BUILDING SECTION IS LOCATED
- DETAIL SECTION REFERENCE:
 - WALL OR BUILDING SECTION NUMBER
 - DRAWING SHEET WHERE DETAIL SECTION IS LOCATED
- WALL ELEVATION:
 - WALL ELEVATION
 - DRAWING SHEET WHERE ELEVATION IS LOCATED
- DETAIL OR PARTIAL PLAN REFERENCE:
 - DETAIL OR PARTIAL PLAN NUMBER
 - DRAWING SHEET WHERE DETAIL OR PARTIAL PLAN IS LOCATED
- DETAIL REFERENCE:
 - DETAIL NUMBER
 - DRAWING SHEET WHERE DETAIL IS LOCATED
- CONC WALL
- REVISION

BUILDING DESIGN & CONSTRUCTION



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Project

2008 PARK BOND RESTROOM REPLACEMENT PROJECT CONTEMPORARY DESIGN

DUPONT TENNIS COURTS RESTROOMS
336 31st Ave, San Francisco, CA 94121
Block No. 1403 - Lot No. 007

Consultant

INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY & COUNTY OF SAN FRANCISCO
30 VAN NESS AVENUE, 5TH FLOOR
SAN FRANCISCO, CA 94102-6028

DESIGNED BY: SL	SL	DATE: 09/2012
DRAWN BY: BH	BH	DATE: 09/2012
CHECKED BY: JC	JC	DATE: 09/2012
APPROVED		
		DATE: 10/9/12
SECTION MANAGER:		DATE: 10/11/12
		DATE: 10/11/12
DEPUTY DIVISION MANAGER:		DATE: 10/11/12
		DATE: 10/11/12
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BID & CONSTRUCTION

No.	Date	Revisions

Section Head: T. LEUNG
Proj. Mgr.: M. YEE
Proj. Arch.: T. LEUNG
Drawn: T. LEUNG
Date: SEPTEMBER 2012
Phase: PERMIT SET



Drawing Title

STRUCTURAL GENERAL NOTES

Sheet No.

S1.1

Scale: NONE

Job No.

3092V-2

FOUNDATIONS

- THE FOUNDATION DESIGN IS BASED UPON THE PROJECT GEOTECHNICAL REPORT "GEOTECHNICAL MEMORANDUM - BATHROOM REPLACEMENT PROJECT CONTEMPORARY DESIGN" PREPARED BY THE DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING, DATED 11/15/2011.
- DESIGN SOIL PARAMETERS:
ALLOWABLE BEARING PRESSURE: 2,500 PSF FOR DEAD LOADS + LIVE LOADS
3,500 PSF FOR DEAD LOADS + LIVE LOADS + LATERAL LOADS
- REFER TO THE GEOTECHNICAL MEMORANDUM FOR ADDITIONAL INFORMATION AND RECOMMENDATIONS NOT NOTED HERE.
- THE GEOTECHNICAL ENGINEER SHALL VERIFY THE CONDITIONS AND/OR ADEQUACY OF ALL SUBGRADES, ENGINEERED FILLS, AND BACKFILLS BEFORE PLACEMENT OF FILLS, FOOTINGS, SLABS, OR OTHER CONSTRUCTION DEPENDENT UPON THEM.
- EXCAVATIONS FOR FOOTINGS SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING REINFORCING AND CONCRETE. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER WHEN THE EXCAVATIONS ARE READY FOR OBSERVATION BY THE GEOTECHNICAL ENGINEER.
- FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED NATIVE SOIL OR ENGINEERED FILL. ALL ABANDONED FOOTINGS, UTILITIES, ETC., SHALL BE REMOVED. ALL FOOTINGS SHALL BE FOUNDED AT A DEPTH AT LEAST 30" BELOW THE LOWEST ADJACENT GRADE. FOOTING DEPTHS SHOWN ON THE STRUCTURAL DRAWINGS ARE MINIMUM DEPTHS AND SHALL BE VERIFIED IN THE FIELD BY THE GEOTECHNICAL ENGINEER.
- SIDES OF FOUNDATIONS SHOWN STRAIGHT ARE FORMED. IF SITE CONDITIONS ALLOW AND GEOTECHNICAL ENGINEER CONCURS, SIDES OF FOUNDATION MAY BE FORMED OR NOT FORMED AT CONTRACTOR'S OPTION.
- WHERE FOUNDATIONS ARE CAST AGAINST EARTH, SLOPE SIDES OF EXCAVATIONS AS APPROVED BY GEOTECHNICAL ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP OF SLOUGHED MATERIALS BEFORE AND DURING CONCRETE PLACEMENT. CONCRETE COVER FOR REINFORCEMENT MAY BE AFFECTED.
- ENGINEERED FILL BELOW BUILDING FOOTINGS SHALL BE COMPACTED TO 95% RELATIVE COMPACTION AS DETERMINED BY THE ASTM D1557 COMPACTION TEST METHOD AND UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER. ENGINEERED FILL SHALL EXTEND AT LEAST 5 FEET BEYOND THE BUILDING PERIMETER.
- CONTRACTOR SHALL PROVIDE FOR DE-WATERING IF WATER IS PRESENT IN THE EXCAVATION. DE-WATERING PLANS SHALL BE SUBMITTED FOR REVIEW. DE-WATERING PLANS MAY INCLUDE A MONITORING PROGRAM TO EVALUATE SETTLEMENT IN THE ADJACENT IMPROVEMENTS. SEE GEOTECHNICAL REPORT.
- ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE THE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH UNLESS SPECIFICALLY APPROVED BY THE ENGINEER IN WRITING. THE CONTRACTOR SHALL BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL STRENGTH. THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, PERMITS, AND INSTALLATION OF SUCH BRACING.
- OVER-EXCAVATED FOOTINGS SHALL BE BACKFILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM) ($f'_{c\min} = 100$ PSI, $f'_{c\max} = 1,200$ PSI).
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF APPROPRIATE, ADEQUATE SHORING AND BRACING OF FOUNDATION EXCAVATION, AND UNDERPINNING OF EXISTING STRUCTURES TO ENSURE PROTECTION OF LIFE AND ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL ORDINANCES. UNDERPINNING, SHORING, LAGGING, ETC., SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA AND SHALL BE CONSTRUCTED UNDER SEPARATE PERMIT. SHORING PLAN TO BE SUBMITTED TO THE GEOTECHNICAL ENGINEER AND THE STRUCTURAL ENGINEER FOR REVIEW TO ENSURE CONFORMANCE WITH DESIGN DOCUMENTS.
- THE CONTRACTOR SHALL NOT UNDERMINE EXISTING FOUNDATIONS AND STRUCTURES DURING EXCAVATION. IF UNDERMINING OCCURS, THE CONTRACTOR SHALL PROVIDE CORRECTIVE MEASURES FOR ENGINEER TO REVIEW AND APPROVE AT CONTRACTOR'S EXPENSE.
- THE GEOTECHNICAL ENGINEER SHALL PREPARE A LETTER FOR THE DEPARTMENT OF BUILDING INSPECTION GIVING AN OPINION REGARDING CONFORMANCE OF THE FOOTING EXCAVATIONS, ENGINEERED FILL COMPACTION, SUBGRADE PREPARATION, AND BACKFILL WITH THE REQUIREMENTS CONTAINED IN THE GEOTECHNICAL REPORT.

CONCRETE

- MIXING, BATCHING, TRANSPORTING, PLACING, AND CURING OF ALL CONCRETE AND SPECIFICATION OF CONCRETE MATERIALS, SHALL CONFORM TO ACI 301 "SPECIFICATION FOR STRUCTURAL CONCRETE", EXCEPT AS NOTED BELOW.
 - CONCRETE SHALL BE READY-MIXED CONFORMING TO ASTM C94. CEMENT SHALL BE PORTLAND CEMENT TYPE II, CONFORMING TO ASTM C150. ALL CONCRETE USED IN SUSPENDED SLABS AND SLABS-ON-GRADE SHALL BE DESIGNED WITH A SHRINKAGE LIMITATION OF 0.04% AFTER 28 DAYS OF DRYING.
 - CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER AND APPROVED PRIOR TO USE. SELECTION OF CONCRETE MIX PROPORTIONS SHALL BE IN ACCORDANCE WITH ACI 301. MIX PROPORTIONS SHALL MEET OR EXCEED THE REQUIREMENTS LISTED BELOW FOR THE LOCATIONS NOTED. THE MORE STRINGENT OF THE REQUIREMENTS LISTED SHALL GOVERN.
 - SUPPLEMENTARY CEMENTITIOUS MATERIALS (SCM), SUCH AS SLAG, FLY ASH, SILICA FUME, AND CALCINED CLAY, AS A PERCENTAGE OF TOTAL WEIGHT OF CEMENTITIOUS MATERIAL SHALL BE A MINIMUM OF 25 PERCENT AND A MAXIMUM OF 50 PERCENT. COAL FLY ASH, AS A PERCENTAGE OF TOTAL WEIGHT OF CEMENTITIOUS MATERIAL, SHALL BE A MAXIMUM OF 20 PERCENT. COAL FLY ASH SHALL BE CLASS F, MEETING ASTM C618 REQUIREMENTS. FINELY GROUND GRANULATED BLAST-FURNACE SLAG SHALL CONFORM TO ASTM C989. WATER/CEMENT RATIO SHALL BE BASED ON TOTAL CEMENTITIOUS MATERIAL, INCLUDING SUPPLEMENTARY CEMENTITIOUS MATERIALS.
 - PROPORTIONS OF AGGREGATE TO CEMENTITIOUS PASTE SHALL BE SUCH AS TO PRODUCE A DENSE, WORKABLE MIX THAT CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER. SUPERPLASTICIZERS MAY BE USED TO IMPROVE WORKABILITY IN THIN OR CONGESTED SECTIONS.
 - CONCRETE SHALL HAVE THE FOLLOWING CHARACTERISTICS:
- | LOCATION | STRENGTH | | MAXIMUM TEST AGGREGATE | | MAXIMUM WATER/CEMENT RATIO | | MAX SLUMP |
|-----------------|-----------|-----|------------------------|------|----------------------------|--|-----------|
| | f'_c | MIN | AGE | SIZE | RATIO | | |
| MAT | 4,000 PSI | | 28 DAYS | 3/4" | 0.45 | | 4" |
| COLUMNS | 4,000 PSI | | 28 DAYS | 3/4" | 0.45 | | 3 1/2" |
| WALLS | 4,000 PSI | | 28 DAYS | 3/4" | 0.45 | | 3 1/2" |
| SUSPENDED SLABS | 4,000 PSI | | 28 DAYS | 3/4" | 0.45 | | 3 1/2" |
- PIPES OTHER THAN ELECTRICAL CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY THE ENGINEER. OUTSIDE DIAMETER OF CONDUIT EMBEDDED IN CONCRETE SHALL NOT EXCEED 1/6 TIMES THE MEMBER THICKNESS, OR 1 1/4", WHICHEVER IS LESS, WITHOUT APPROVAL OF THE ENGINEER. MINIMUM CLEAR DISTANCE BETWEEN CONDUITS OR REBAR SHALL BE 3 TIMES CONDUIT-DIAMETER (LARGER CONDUIT) OR 1 INCH, WHICHEVER IS GREATER. CONDUIT EMBEDDED IN SLABS SHALL BE EMBEDDED IN ONE LAYER AT MID-DEPTH OF SLABS. CONDUITS SHALL BE FIRMLY CHAIRED AND TIED TO PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT. CONDUIT CAN BE TIED TO REBAR WHEN ORIENTED PERPENDICULAR TO THEM, PROVIDE THE LOCATION OF THE REBAR IS NOT AFFECTED BY THE CONDUIT. PLACE #3 AT 12 INCHES ADDED REINFORCEMENT PERPENDICULAR TO CONDUITS WHERE REQUIRED TO SUPPORT CONDUIT. CONDUITS WITHOUT CLEARANCE NOTED ABOVE SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO INSTALLATION. ADDED TRIM REINFORCEMENT WILL BE REQUIRED WHERE CLEARANCES CANNOT BE MET, SUCH AS ELECTRICAL PANEL ROOMS.
 - SLEEVES, WHEN EMBEDDED IN CONCRETE, SHALL BE SPACED WITH ONE SLEEVE-DIAMETER (LARGER SLEEVE) CLEAR BETWEEN ADJACENT SLEEVES OR REBAR, OR 1 INCH, WHICHEVER IS GREATER. SLEEVES WITHOUT CLEARANCE NOTED ABOVE SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO INSTALLATION. ADDED TRIM REINFORCEMENT WILL BE REQUIRED WHERE CLEARANCES CANNOT BE MET, SUCH AS ELECTRICAL PANEL ROOMS.
 - ALUMINUM PIPES, CONDUITS, AND SLEEVES SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE.
 - THE CONTRACTOR SHALL INFORM THE ENGINEER AT LEAST 3 DAYS PRIOR TO POURING ANY STRUCTURAL CONCRETE SO THAT THE ENGINEER MAY HAVE THE OPPORTUNITY OF REVIEWING THE WORK PRIOR TO CONCRETE PLACEMENT.
 - ALL CONCRETE EXCEPT SLABS-ON-GRADE 6" THICK OR LESS SHALL BE MECHANICALLY VIBRATED AS TO COMPLETELY FILL THE FORM WITHOUT CAUSING UNDUE SEGREGATION.
 - FOR EACH CLASS OF CONCRETE, FOUR TEST CYLINDERS FROM EACH 150 CUBIC YARDS OR 5,000 SQUARE FEET OF SURFACE AREA FOR SLABS OR WALLS, PLACED IN ANY ONE DAY, SHALL BE SECURED AND TESTED BY THE BUREAU OF CONSTRUCTION MANAGEMENT - ONE TO BE TESTED AT 7 DAYS, TWO AT 28 DAYS, AND THE FOURTH HELD IN RESERVE. FOR POST-TENSIONED CONCRETE, SECURE FIVE CYLINDERS PER 150 CUBIC YARDS OR 5,000 SQUARE FEET OF SURFACE AREA FOR SLABS OR WALLS, PLACE IN ANY ONE DAY, TWO SETS MINIMUM - ONE TO BE TESTED AT 4 DAYS, TWO AT 28 DAYS, AND TWO HELD IN RESERVE.

- THE CONTRACTOR SHALL REMOVE AND REPLACE ANY CONCRETE WHICH FAILS TO ATTAIN SPECIFIED STRENGTH IN 28 DAYS IF SO DIRECTED BY THE ENGINEER. ANY DEFECTS IN THE HARDENED CONCRETE SHALL BE SATISFACTORILY REPAIRED OR THE HARDENED CONCRETE SHALL BE REPLACED.
- ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318 AND THE TYPICAL CONSTRUCTION JOINT DETAILS SHOWN ON THE STRUCTURAL DRAWINGS. ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE DUST, CHIPS, OR OTHER FOREIGN MATTER PRIOR TO PLACING THE ADJACENT CONCRETE. THE CONTRACTOR SHALL SUBMIT THE PROPOSED LOCATIONS OF CONSTRUCTION JOINTS TO THE ARCHITECT FOR REVIEW PRIOR TO START OF CONSTRUCTION.
- WHERE NEW CONCRETE IS TO BE CAST AGAINST EXISTING CONCRETE, THE EXISTING CONCRETE SURFACE SHALL BE ROUGHENED TO A MINIMUM OF 1/4" AMPLITUDE BY SANDBLASTING OR BUSH HAMMERING. THE EXISTING SURFACE SHALL BE CLEANED AND LANTANCE REMOVED. APPLY "SIKADUR 32, HI-MOD" EPOXY BONDING ADHESIVE, AS MANUFACTURED BY SIKA CORPORATION, LYNDHURST, NEW JERSEY, OR APPROVED EQUAL, TO EXISTING CONCRETE SURFACE PRIOR TO PLACEMENT OF NEW CONCRETE.

REINFORCING STEEL

- REINFORCING STEEL DETAILING, FABRICATION, AND PLACEMENT SHALL CONFORM TO THE ACI 318, CHAPTER 7.
- REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:
DEFORMED BARS ASTM A615 OR ASTM A706, GRADE 60
DEFORMED BARS USED IN SHEAR WALLS AND MOMENT-RESISTING-FRAMES ASTM A706, GRADE 60
WELDED REINFORCEMENT, WHEN SPECIFIED BY THE ENGINEER ASTM A706, GRADE 60
WELDED WIRE FABRIC (WWF) (SMOOTH WIRE) ASTM A185
WELDED WIRE REINFORCEMENT (DEFORMED WIRE) ASTM A496, ASTM A497
- ALL STEEL REINFORCING BAR BENDS SHALL BE MADE COLD.
- REINFORCEMENT AND EMBEDMENTS SHALL BE ACCURATELY POSITIONED AND SECURED AGAINST DISPLACEMENT BEFORE AND DURING CONCRETE PLACEMENT. PROVIDE SUFFICIENT SUPPORTS TO PREVENT DAMAGE OR DISPLACEMENT DUE TO CONSTRUCTION TRAFFIC ON REINFORCEMENT.
- PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE. SPLICE ONLY AS SHOWN OR APPROVED.
- WHERE NOTED ON PLANS, PROVIDE THREADED COUPLERS CAPABLE OF DEVELOPING 125% OF THE SPECIFIED YIELD STRENGTH OF THE REINFORCING STEEL. THREADED COUPLERS SHALL BE "LENTON COUPLERS", AS MANUFACTURED BY ERICO COMPANY, SOLON, OHIO, OR APPROVED EQUAL WITH CURRENT ICC-ES EVALUATION REPORT.
- WELDING (INCLUDING TACK WELD) OR REINFORCING BARS IS PROHIBITED EXCEPT WHERE DETAILED OR APPROVED IN WRITING BY ENGINEER.
- REINFORCEMENT CROSSING CONSTRUCTION JOINTS SHALL BE CONTINUOUS OR LAP SPLICED PER TENSION LAP TABLE OR APPROVED COUPLERS.
- MINIMUM CLEAR COVER DISTANCES FROM FINISHED FACE OF CONCRETE TO STEEL REINFORCEMENT SHALL BE AS FOLLOWS:
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 THROUGH #18 BARS 2"
#5 BAR, W31 OR D31 WIRE, AND SMALLER 1 1/2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
SLABS, WALLS, JOISTS
#14 AND #18 BARS 1 1/2"
#11 BAR AND SMALLER 3/4"
BEAMS, COLUMNS 1 1/2"
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INCLUDE ELEVATION OF ALL BEAMS AND COLUMNS SHOWING BAR AND LAP LOCATIONS. SUBMIT MILL CERTIFICATES FOR REINFORCING STEEL PRIOR TO REBAR PLACEMENT.

BUILDING DESIGN & CONSTRUCTION



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Project

2008 PARK BOND RESTROOM REPLACEMENT PROJECT CONTEMPORARY DESIGN

DUPONT TENNIS COURTS RESTROOMS
338 31st Ave, San Francisco, CA 94121
Block No. 1403 - Lot No. 007

Consultant

INFRASTRUCTURE DIVISION DEPARTMENT OF PUBLIC WORKS CITY & COUNTY OF SAN FRANCISCO 30 VAN NESS AVENUE, 5TH FLOOR SAN FRANCISCO, CA 94102-6028		
DESIGNED BY: SL	SL	DATE: 09/2012
DRAWN BY: BH	BH	DATE: 09/2012
CHECKED BY: JC	JC	DATE: 09/2012
APPROVED		
Raymond R. Leung 10/9/12		DATE: 10/9/12
SECTION MANAGER: Raymond R. Leung		DATE: 10/9/12
DEPUTY DIVISION MANAGER: [Signature]		DATE: 10/9/12
DIVISION MANAGER: [Signature]		DATE: 10/9/12

BID & CONSTRUCTION

No.	Date	Revisions

Section Head: T. LEUNG
Proj. Mgr.: M. YEE
Proj. Arch.: T. LEUNG
Drawn: [Signature]
Date: SEPTEMBER 2012
Phase: PERMIT SET



Drawing Title

STRUCTURAL GENERAL NOTES

Sheet No.

S1.2

Scale: NONE

Job No.

3092V-2

BUILDING DESIGN &
CONSTRUCTION



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Project

2008 PARK BOND RESTROOM
REPLACEMENT PROJECT
CONTEMPORARY DESIGN

DUPONT TENNIS COURTS RESTROOMS
336 31st Ave, San Francisco, CA 94121
Block No. 1403 - Lot No. 007

Consultant

INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY & COUNTY OF SAN FRANCISCO
30 VAN NESS AVENUE, 6TH FLOOR
SAN FRANCISCO, CA 94102-6028

DESIGNED BY: SL	SL	DATE: 09/2012
DRAWN BY: BH	BH	09/2012
CHECKED BY: JC	JC	09/2012
APPROVED		
SECTION MANAGER: <i>[Signature]</i> 10/9/12		DATE: 10/9/12
DEPUTY DIVISION MANAGER: <i>[Signature]</i> 10/11/12		DATE: 10/11/12
DIVISION MANAGER: <i>[Signature]</i> 10/11/12		DATE: 10/11/12

BID & CONSTRUCTION

No.	Date	Revisions

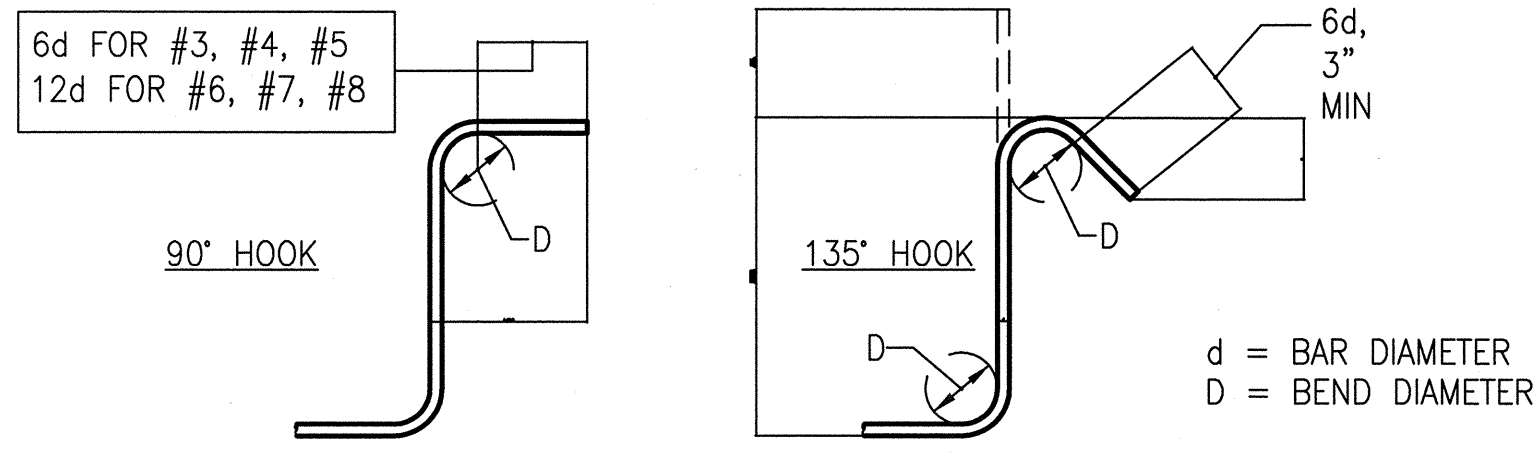
Section Head: T. LEUNG
Proj. Mgr.: M. YEE
Proj. Arch.: T. LEUNG
Date: SEPTEMBER 2012
Phase: PERMIT SET



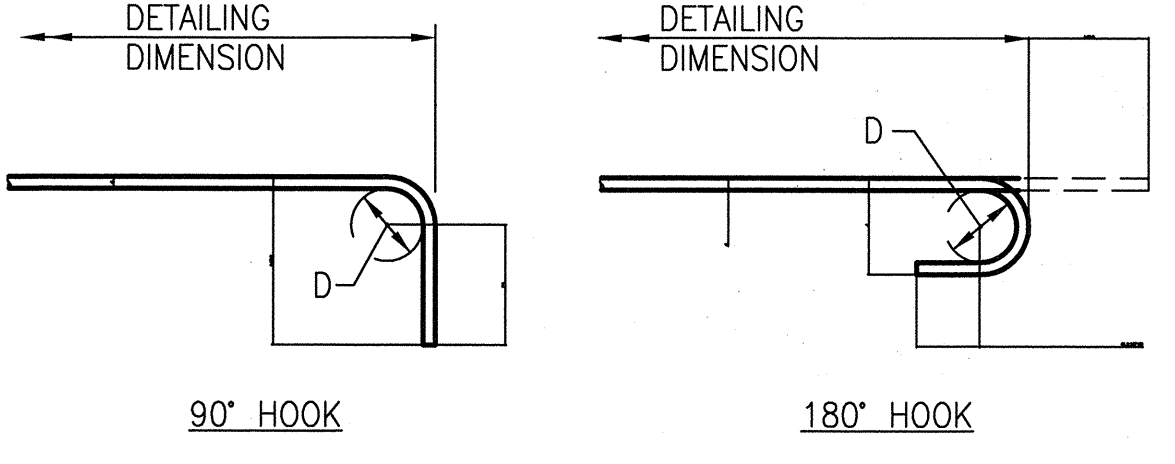
TYPICAL CONCRETE
DETAILS

Sheet No. S1.4

Scale: NONE
Job No. 3092V-2



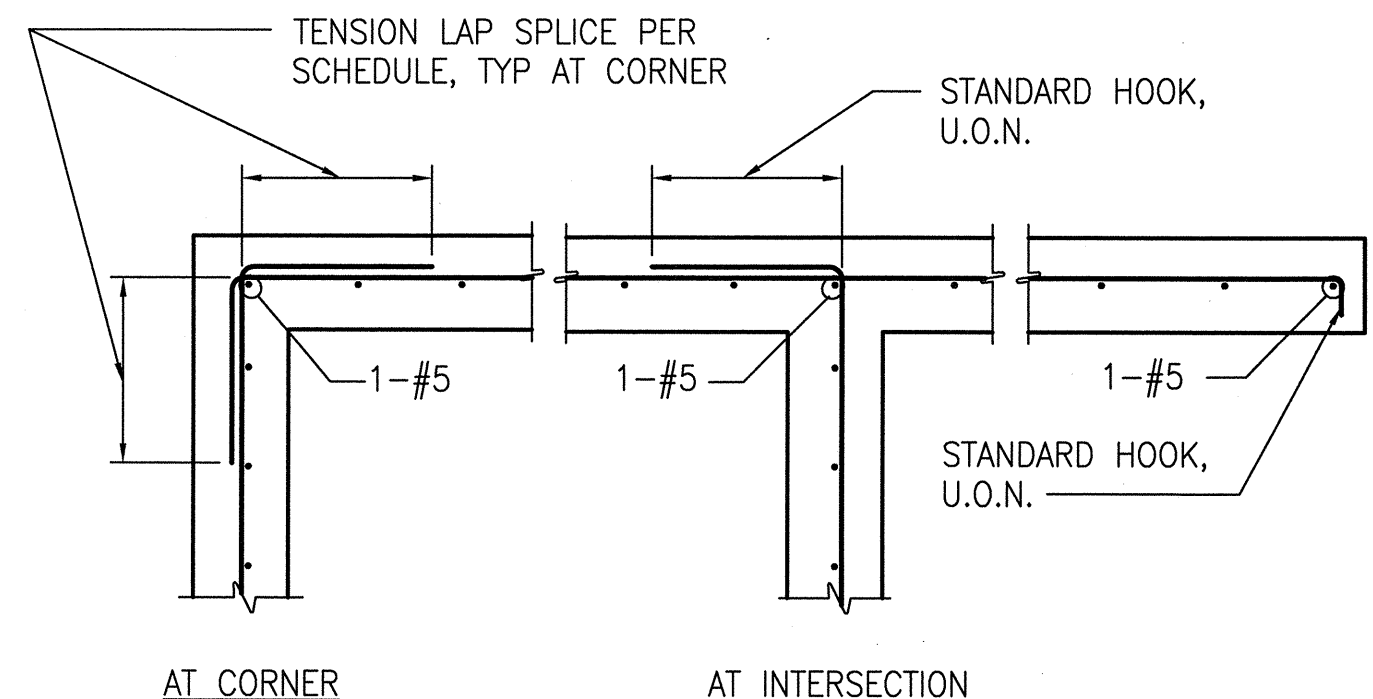
BAR SIZE	D	90° HOOKS		135° HOOKS	
		A OR G	A OR G	APPROX H	APPROX H
#3	1 1/2"	4"	4 1/2"	3"	3"
#4	2"	4 1/2"	4 1/2"	3"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"	3 3/4"
#6	4 1/2"	1'-0"	8"	4 1/2"	4 1/2"
#7	5 1/2"	1'-2"	9"	5 1/2"	5 1/2"
#8	6"	1'-4"	10 1/2"	6"	6"



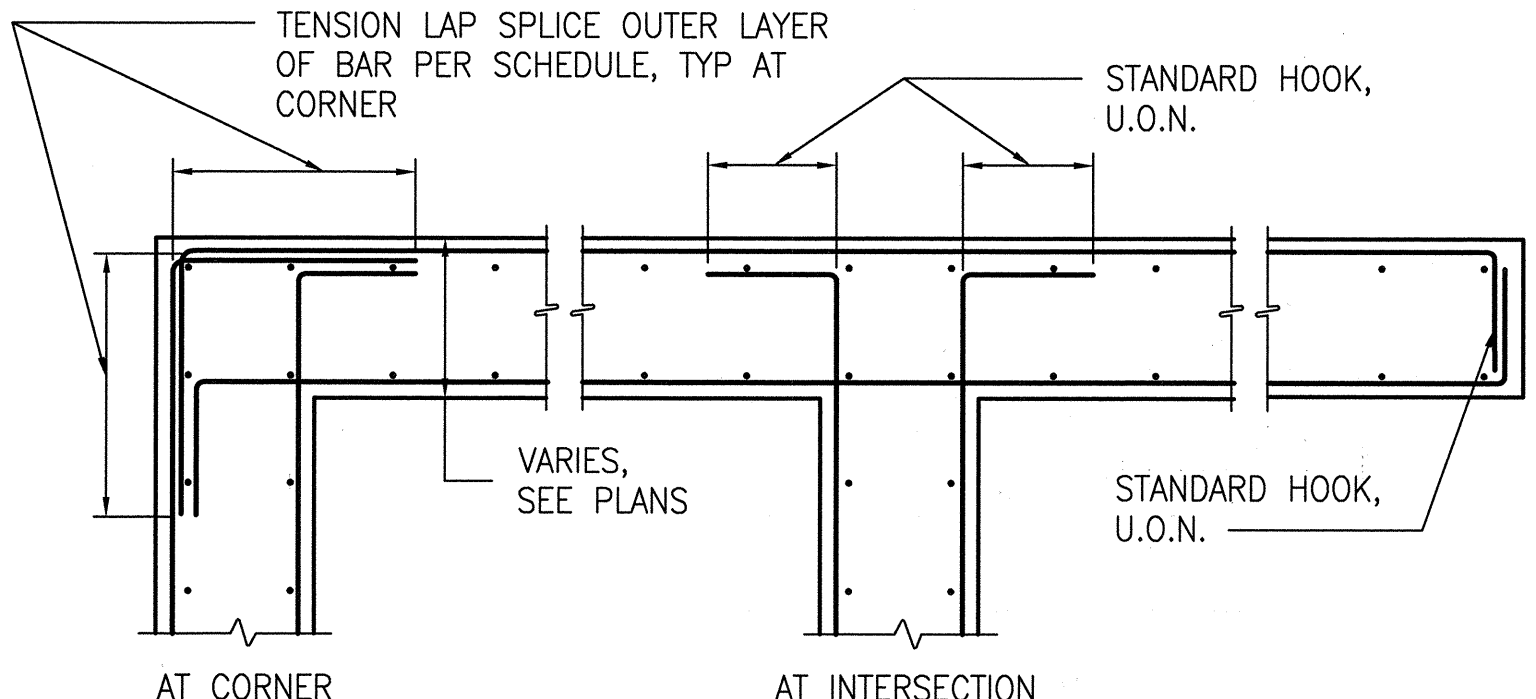
BAR SIZE	D	90° HOOKS		180° HOOKS	
		A OR G	J	A OR G	A OR G
#3	2 1/4"	6"	3"	5"	5"
#4	3"	8"	4"	6"	6"
#5	3 3/4"	10"	5"	7"	7"
#6	4 1/2"	1'-0"	6"	8"	8"
#7	5 1/2"	1'-2"	7"	10"	10"
#8	6"	1'-4"	8"	11"	11"

TYPICAL REINFORCEMENT BAR HOOKS AND BENDS
SCALE: N.T.S.

1



SINGLE CURTAIN REINF. DETAILS

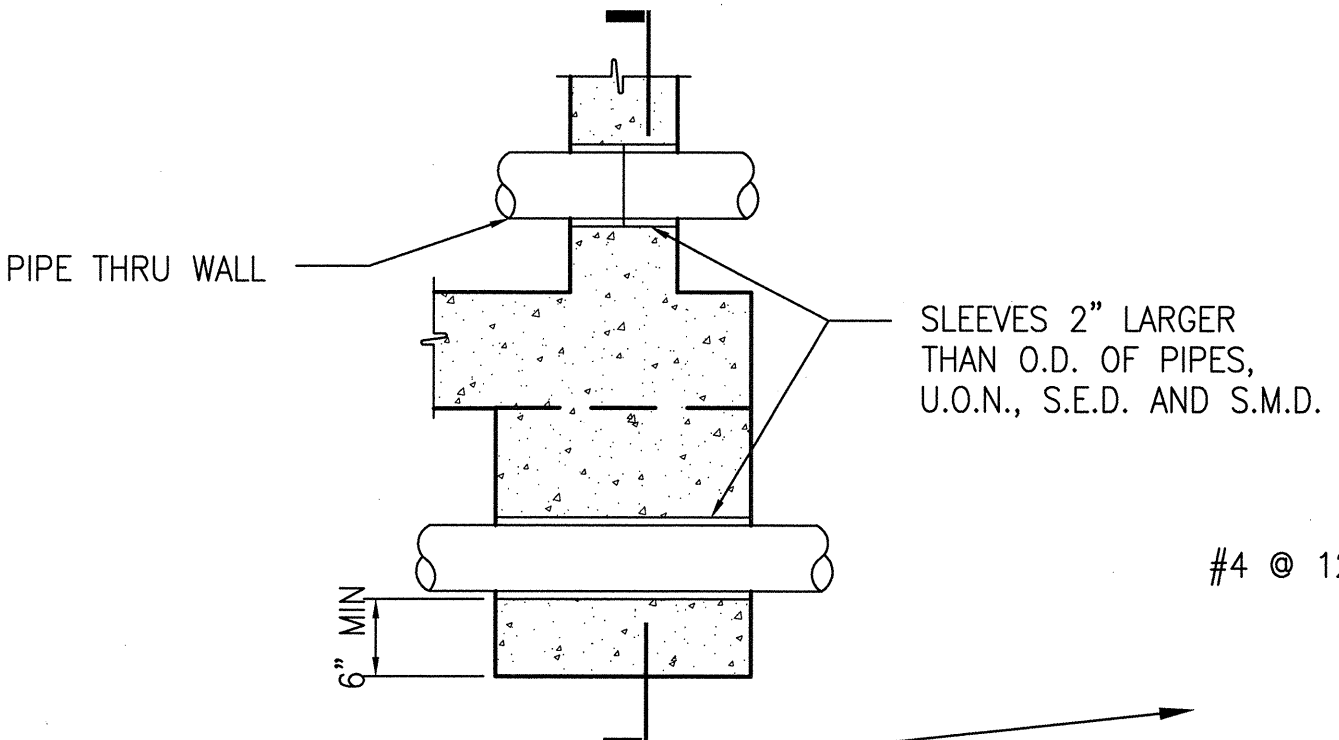


DOUBLE CURTAIN REINF. DETAILS

NOTE:
REINFORCEMENT SHOWN ON FOUNDATION DETAILS,
WALL ELEVATIONS, AND OTHER SPECIFICALLY
REFERENCED DETAILS TAKE PRECEDENCE OVER
REINFORCEMENT SHOWN HERE.

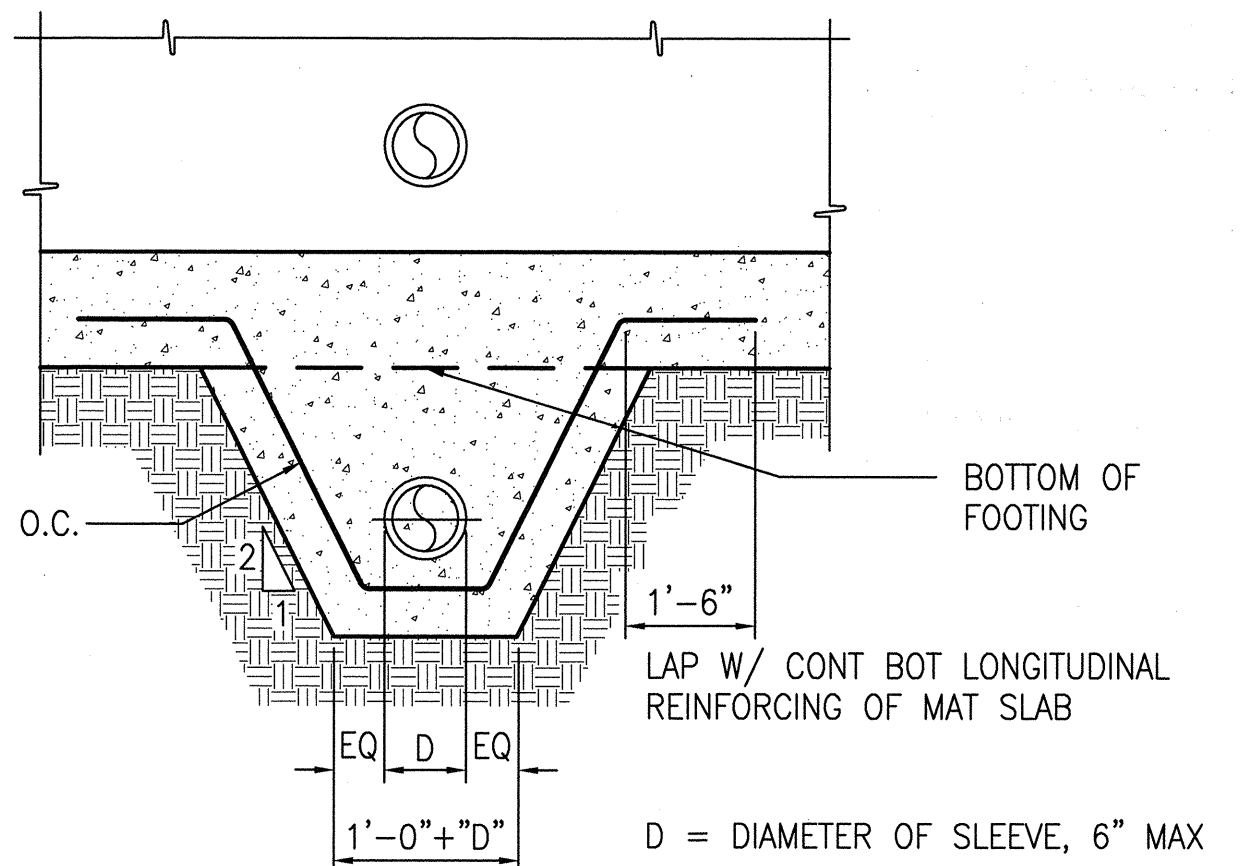
TYPICAL CONCRETE REINFORCEMENT AT CORNERS AND INTERSECTIONS
SCALE: N.T.S.

3



NOTE:
FOR PIPES 3'-0" OR LESS BELOW BOTTOM OF FOOTING, PROVIDE SLEEVE AND
CONCRETE AS SHOWN; FOR PIPES MORE THAN 3'-0" BELOW BOT OF FOOTING,
COMPACT BACKFILL OVER PIPE TO 95% PER GEOTECHNICAL REPORT.

TYPICAL DETAIL AT PIPES PERPENDICULAR TO FOOTING
SCALE: N.T.S.



5

BAR SIZE	f'c = 3,000 PSI				
	MIN DEVELOPMENT LENGTH			MIN LAP SPlice LENGTH	
	TOP	OTHER	HOOKED	TOP	OTHER
#3	1'-10"	1'-5"	0'-9"	2'-4"	1'-10"
#4	2'-5"	1'-10"	0'-11"	3'-1"	2'-5"
#5	3'-0"	2'-4"	1'-2"	3'-11"	3'-0"
#6	3'-7"	2'-9"	1'-5"	4'-8"	3'-7"
#7	5'-3"	4'-0"	1'-8"	6'-9"	5'-3"
#8	6'-0"	4'-7"	1'-10"	7'-9"	6'-0"

- ALL REINFORCING BARS SHALL BE DEVELOPED OR LAP SPliced AS SHOWN, U.O.N.
- LAP SPlice LOCATIONS SHALL BE STAGGERED WHENEVER POSSIBLE.
- TOP BARS ARE HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE LAP SPlice.

DEVELOPMENT LENGTH & LAP SPlice SCHEDULE
SCALE: N.T.S.

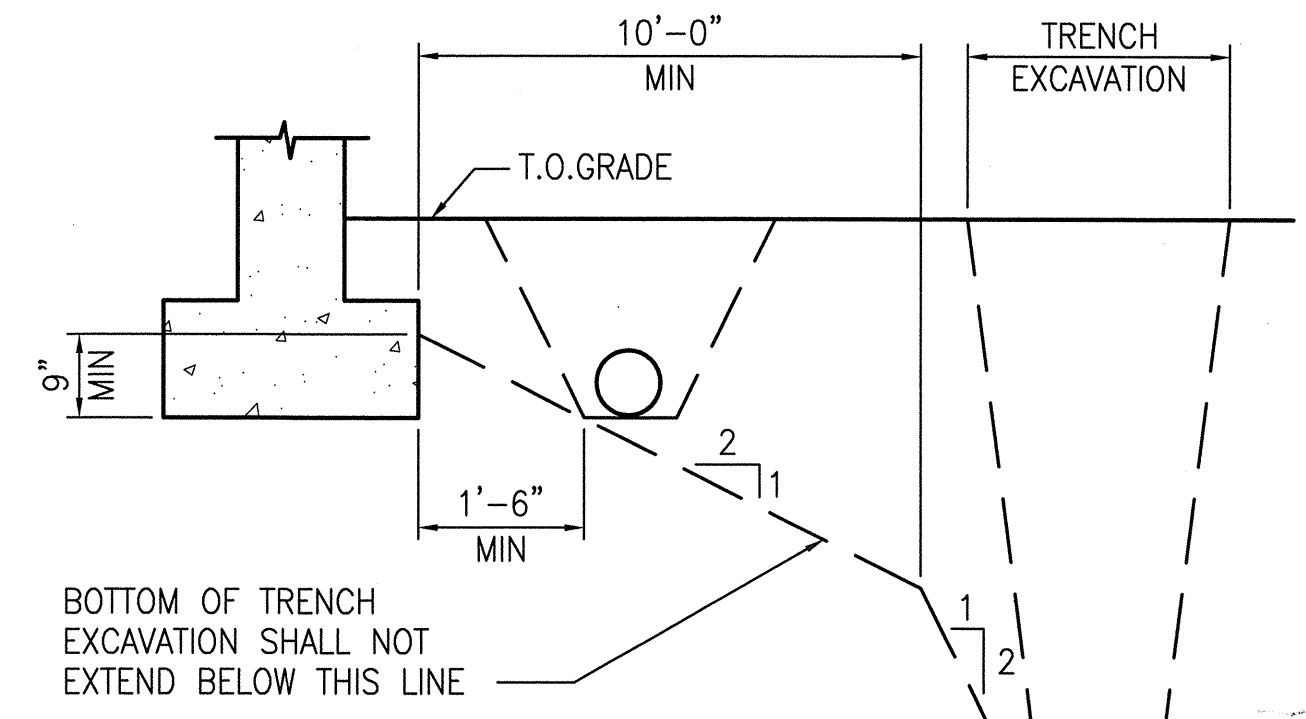
2

BAR SIZE	f'c = 4,000 PSI				
	MIN DEVELOPMENT LENGTH			MIN LAP SPlice LENGTH	
	TOP	OTHER	HOOKED	TOP	OTHER
#3	1'-7"	1'-3"	0'-8"	2'-0"	1'-7"
#4	2'-1"	1'-7"	0'-10"	2'-8"	2'-1"
#5	2'-7"	2'-0"	1'-0"	3'-5"	2'-7"
#6	3'-1"	2'-5"	1'-3"	4'-1"	3'-1"
#7	4'-6"	3'-6"	1'-5"	5'-11"	4'-8"
#8	5'-2"	4'-0"	1'-7"	6'-9"	5'-2"

- ALL REINFORCING BARS SHALL BE DEVELOPED OR LAP SPliced AS SHOWN, U.O.N.
- LAP SPlice LOCATIONS SHALL BE STAGGERED WHENEVER POSSIBLE.
- TOP BARS ARE HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE LAP SPlice.

DEVELOPMENT LENGTH & LAP SPlice SCHEDULE
SCALE: N.T.S.

4



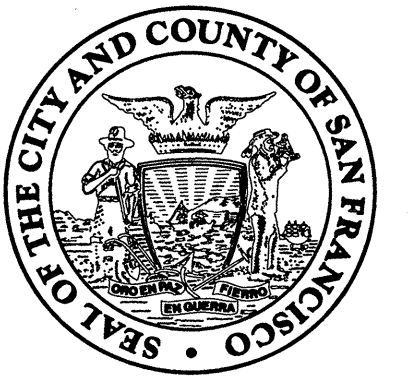
BOTTOM OF TRENCH
EXCAVATION SHALL NOT
EXTEND BELOW THIS LINE

NOTE:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING,
SHEETING OR OTHER MEANS TO MAINTAIN THE SIDES OF
THE EXCAVATION FROM CAVE-IN UNTIL ALL BACKFILL IS
COMPLETED PER SPECIFICATIONS.

TYPICAL DETAIL AT PIPES PARALLEL TO FOOTING
SCALE: N.T.S.

6

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30 VAN NESS AVENUE, 5TH FLOOR
SAN FRANCISCO, CA 94102-6028

DESIGNED BY: SL	SL	DATE: 09/2012
DRAWN BY: BH	BH	DATE: 09/2012
CHECKED BY: JC	JC	DATE: 09/2012

APPROVED		
<i>[Signature]</i>	10/9/12	DATE:
SECTION MANAGER:	10/10/12	DATE:
DEPUTY DIVISION MANAGER:		DATE:
DIVISION MANAGER:	10/12	DATE:

BID & CONSTRUCTION

No.	Date	Revisions

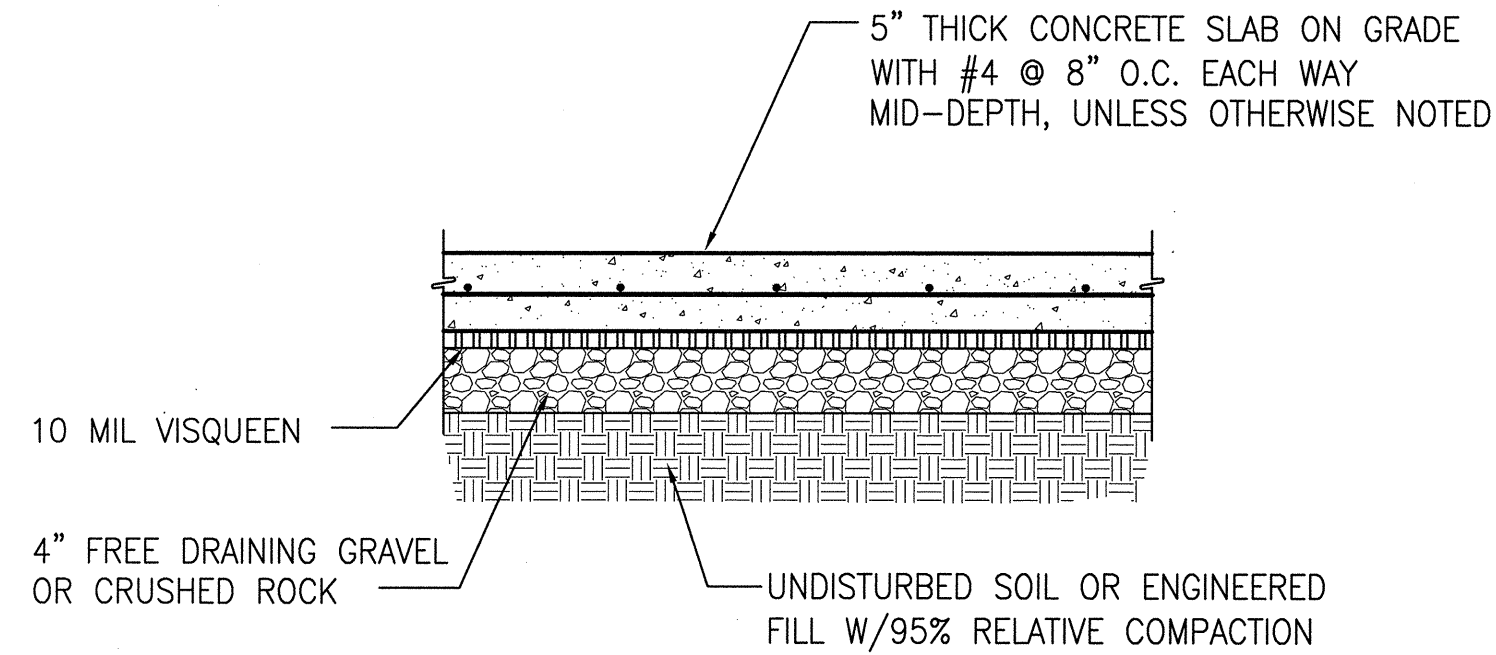
Section Head
T. LEUNG
Proj. Mgr.
M. YEE
Proj. Arch.
T. LEUNG
Drawn
Date
SEPTEMBER 2012
Phase
PERMIT SET



Drawing Title
TYPICAL CONCRETE
DETAILS

Sheet No.
S1.5

Scale NONE
Job No. 3092V-2

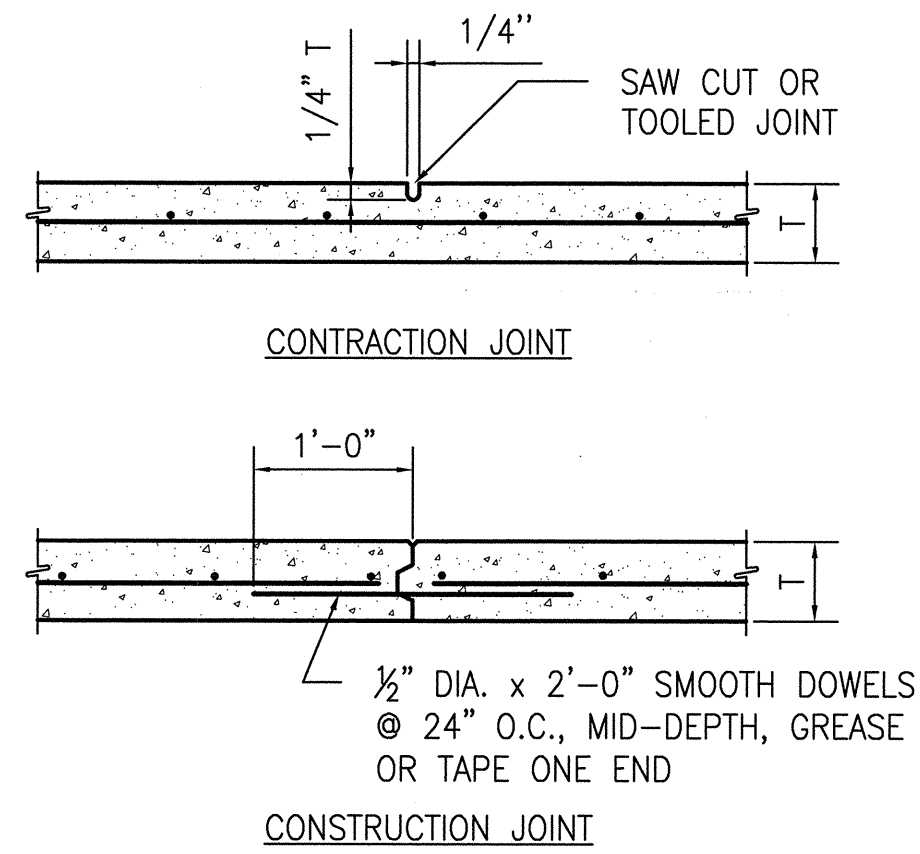


NOTE:
REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION ON
SUB-GRADE PREPARATION AND SLAB-ON-GRADE CONSTRUCTION.

TYPICAL CONCRETE SLAB-ON-GRADE

SCALE: N.T.S.

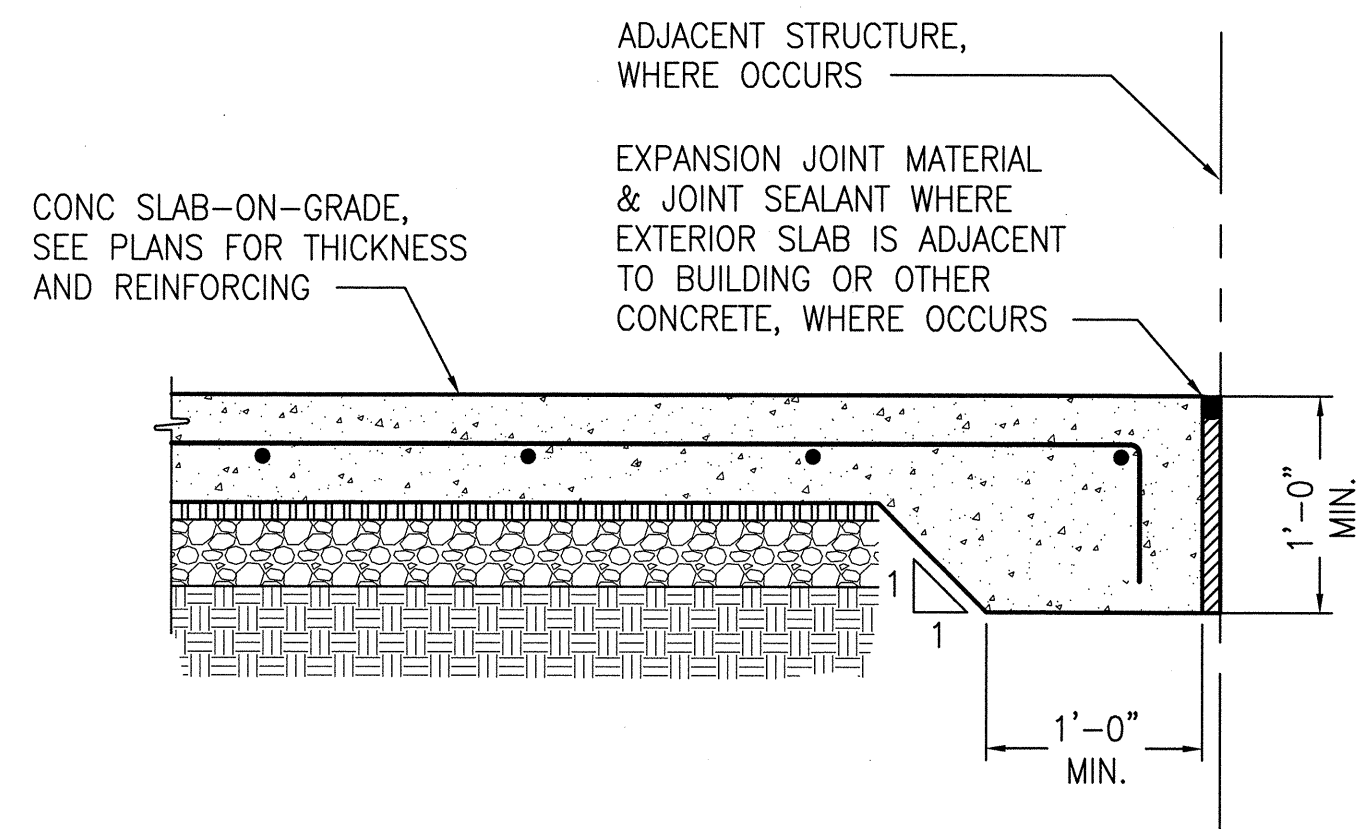
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TYPICAL SLAB-ON-GRADE CONTROL JOINTS

SCALE: N.T.S.

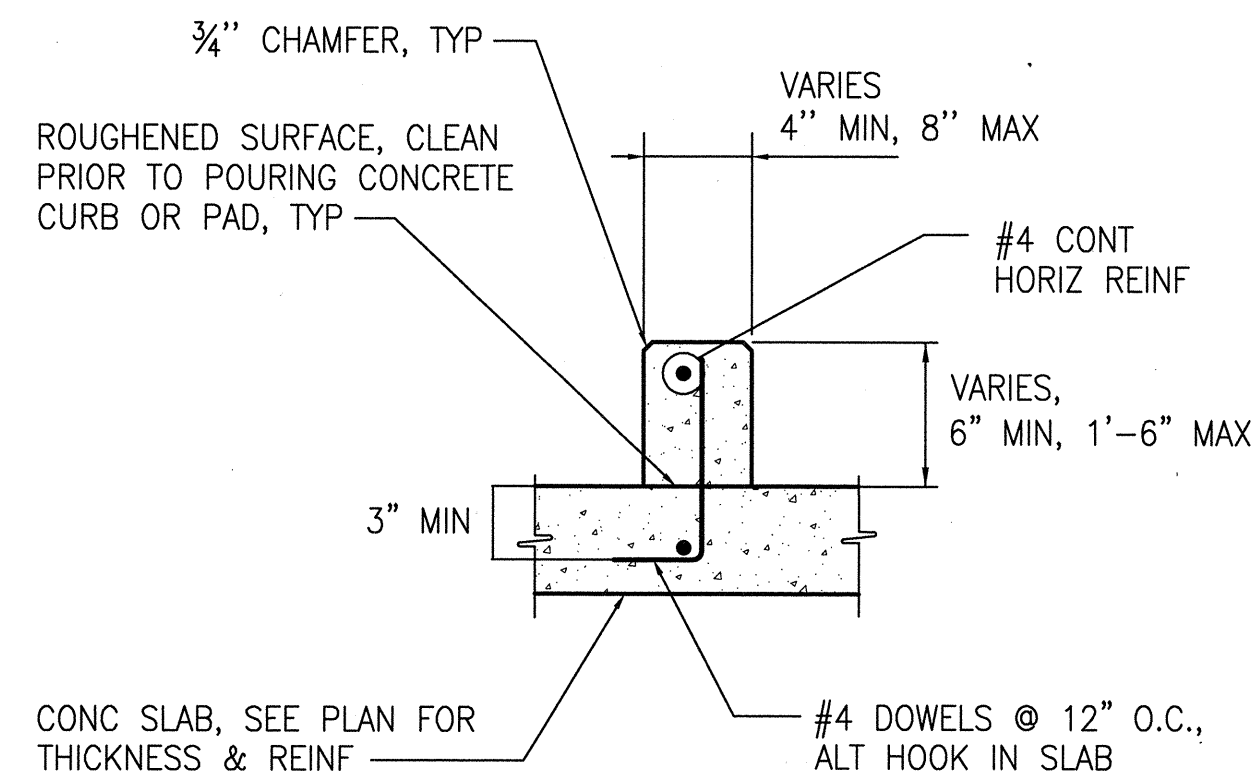
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TYPICAL SLAB-ON-GRADE THICKENED EDGE

SCALE: N.T.S.

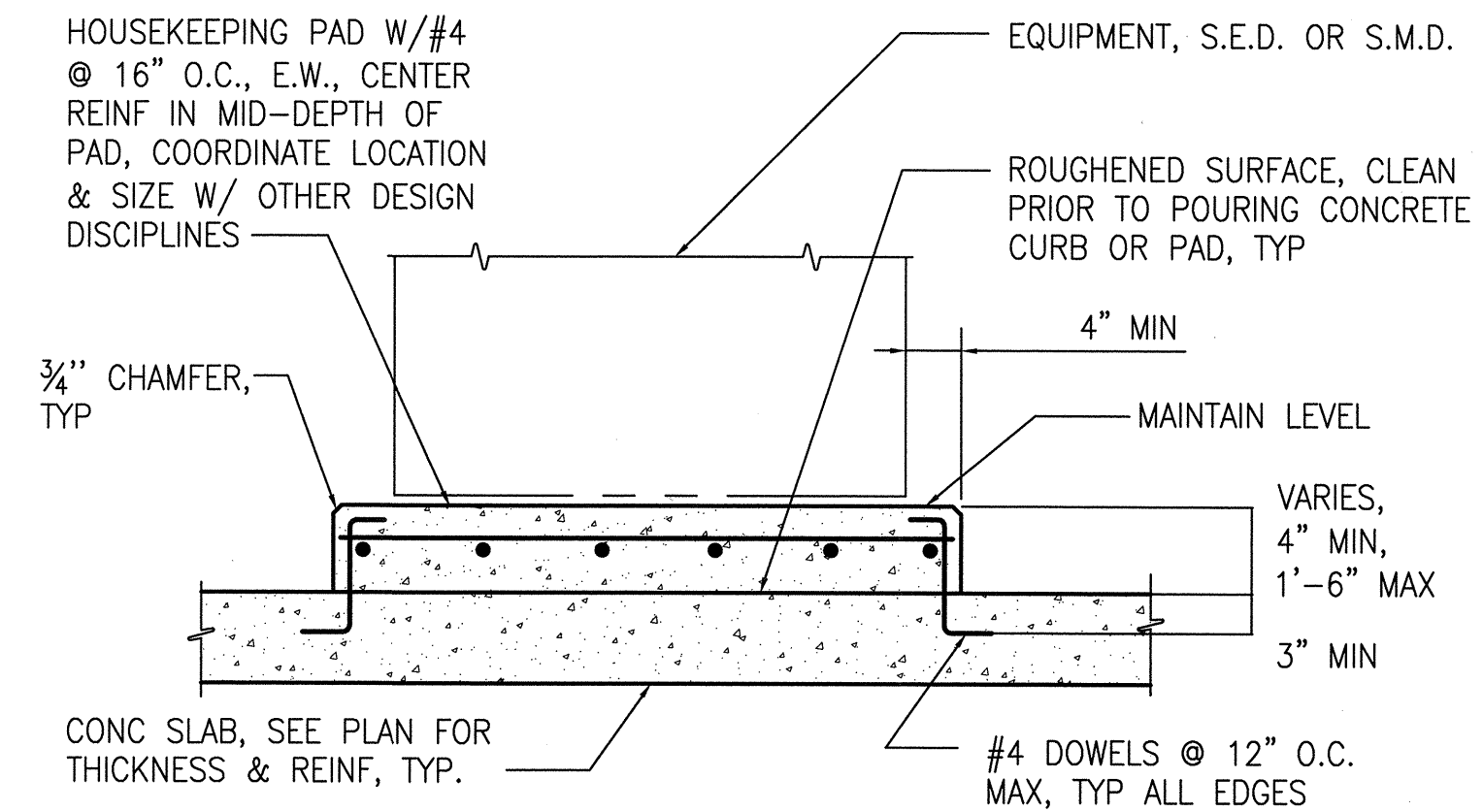
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TYPICAL CONCRETE CURB

SCALE: N.T.S.

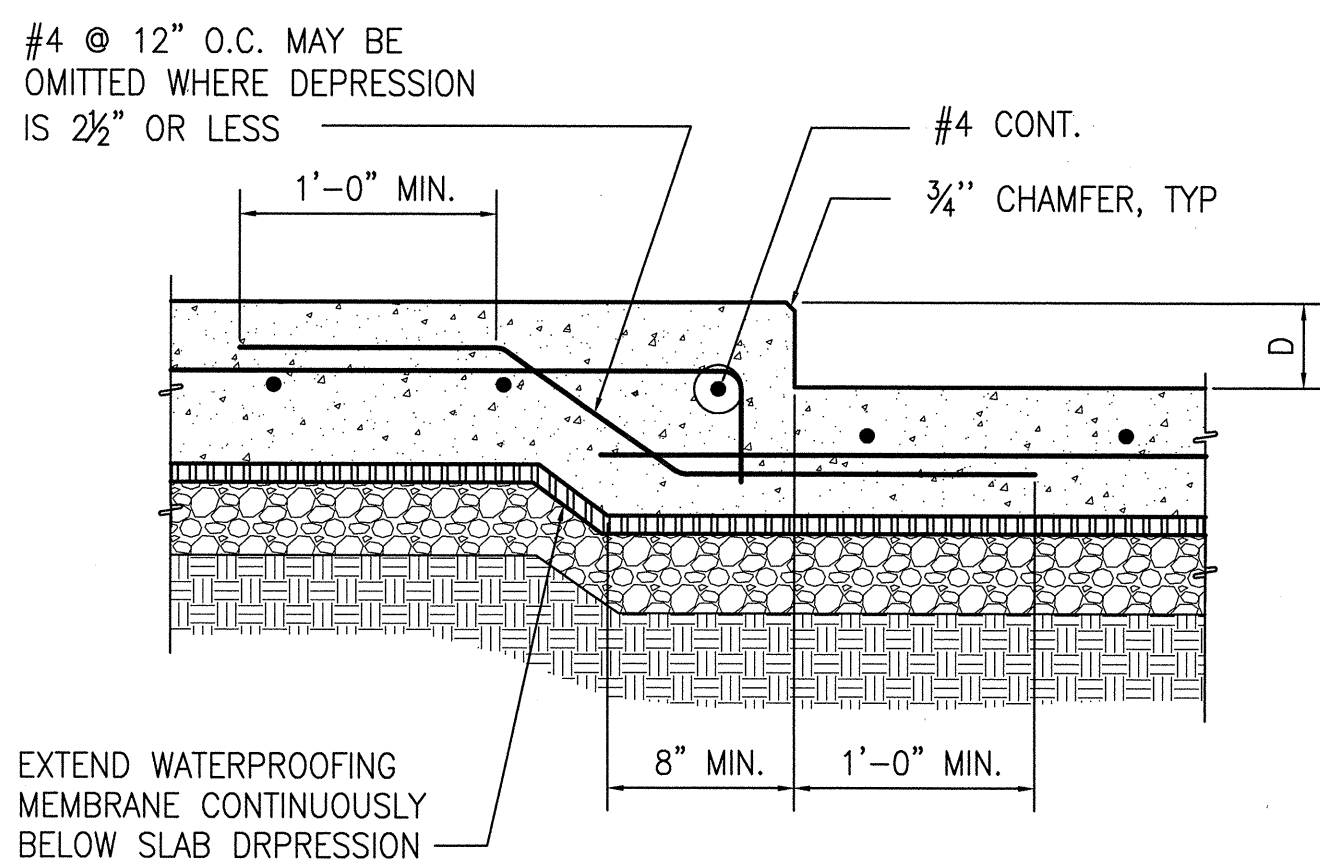
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TYPICAL CONCRETE HOUSEKEEPING PAD

SCALE: N.T.S.

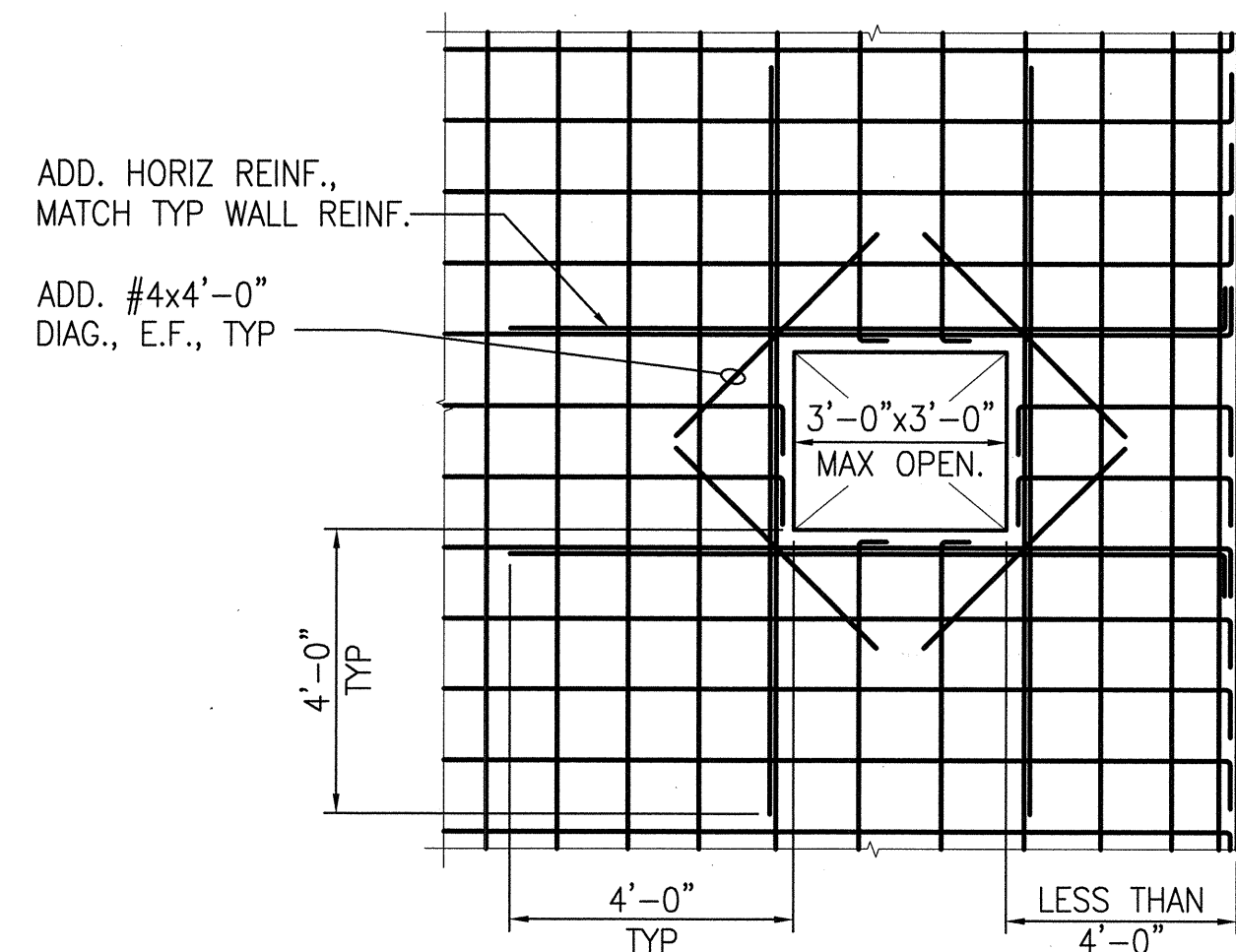
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TYPICAL DEPRESSED SLAB-ON-GRADE

SCALE: N.T.S.

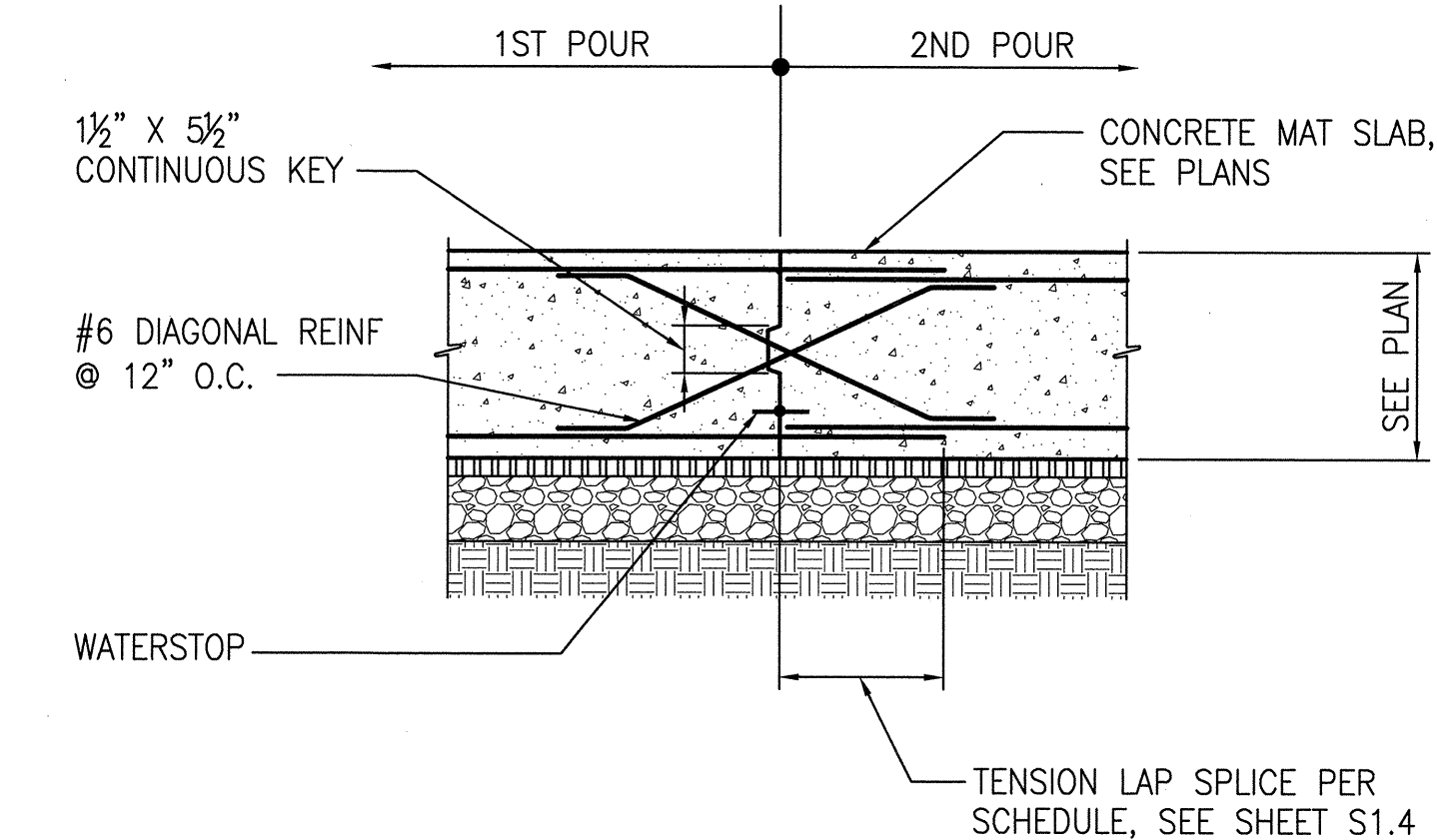
6



TYPICAL OPENING IN CONC WALL

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

7

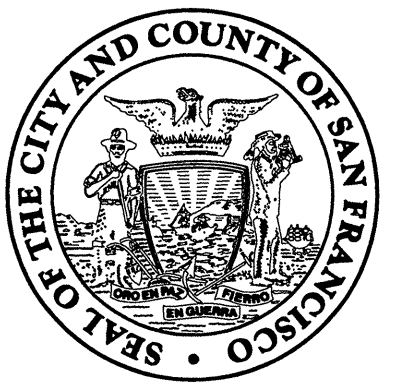


TYPICAL CONCRETE MAT CONSTRUCTION JOINT

SCALE: N.T.S.

8

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CONTEMPORARY DESIGN

DUPONT TENNIS COURTS RESTROOMS
336 31st Ave, San Francisco, CA 94121
Block No. 1403 - Lot No. 007

Consultant

INFRASTRUCTURE DIVISION DEPARTMENT OF PUBLIC WORKS CITY & COUNTY OF SAN FRANCISCO 30 VAN NESS AVENUE, 5TH FLOOR SAN FRANCISCO, CA 94102-6028		
DESIGNED BY: SL	SL	DATE: 09/2012
DRAWN BY: RHH	BH	DATE: 09/2012
CHECKED BY: JC	JC	DATE: 09/2012
APPROVED		
SECTION MANAGER: <i>[Signature]</i>		DATE: 10/9/12
DEPUTY DIVISION MANAGER: <i>[Signature]</i>		DATE:
DIVISION MANAGER: <i>[Signature]</i>		DATE: 10/12/12

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No.	Date	Revisions

Section Head T. LEUNG
Proj. Mgr. M. YEE
Proj. Arch. T. LEUNG
Date SEPTEMBER 2012
Phase PERMIT SET



Drawing Title

SITE PLAN

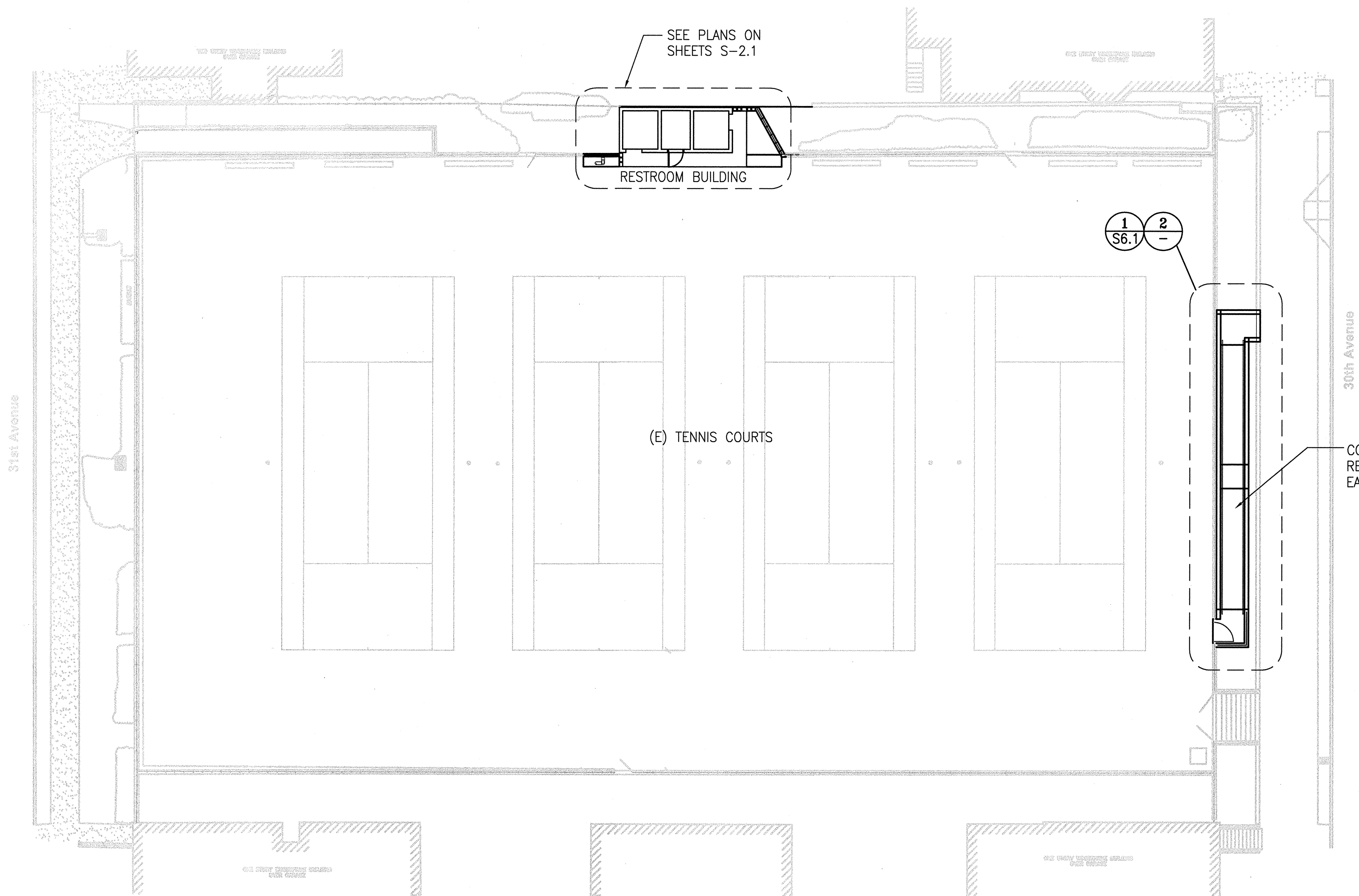
Sheet No.

S2.0

Scale 3/8"=1'-0"

Job No.

3092V-2

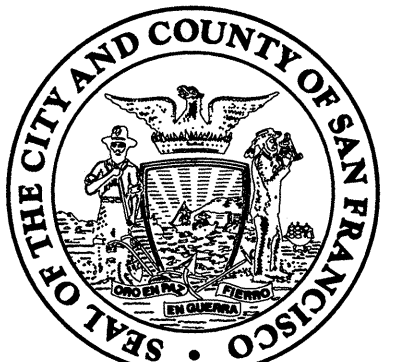


SITE PLAN
SCALE: 1/16"=1'-0"
1

PARTIAL PLAN
SCALE: 1/8"=1'-0"
2

- NOTES:
- MONITOR AND SURVEY EXISTING ADJOINING CONCRETE CURB FOR MOVEMENT, INCLUDING SETTLEMENT, BEFORE AND DURING CONSTRUCTION OF NEW RETAINING WALLS.
 - EXCAVATE AND CONSTRUCT NEW CONCRETE RETAINING WALL AGAINST EXISTING CONCRETE CURB IN SECTIONS AND IN SEQUENCE "A", "B", AND "C".
 - NEW CONCRETE IN "A" LOCATIONS SHALL CURE MINIMUM OF 3 DAYS BEFORE EXCAVATION OF "B" LOCATIONS.
 - SIMILARLY, NEW CONCRETE IN "B" LOCATIONS SHALL CURE MINIMUM OF 3 DAYS BEFORE EXCAVATION OF "C" LOCATIONS.

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SAN FRANCISCO, CA 94102-6028

DESIGNED BY:	SL	SL	DATE
			09/2012
DRAWN BY:	BH	BH	09/2012
CHECKED BY:	JC	JC	09/2012

APPROVED			
<i>Raymond R. Lu</i>		10/9/12	DATE:
SECTION MANAGER:		10/11/12	DATE:
<i>Raymond R. Lu</i>			DATE:
DEPUTY DIVISION MANAGER:			DATE:
<i>Paul M. ...</i>		10/17/12	DATE:
DIVISION MANAGER:			DATE:

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No.	Date	Revisions

Section Head
T. LEUNG
Proj. Mgr.
M. YEE
Proj. Arch.
T. LEUNG
Date
SEPTEMBER 2012
Phase
PERMIT SET



Drawing Title
FOUNDATION AND ROOF PLANS

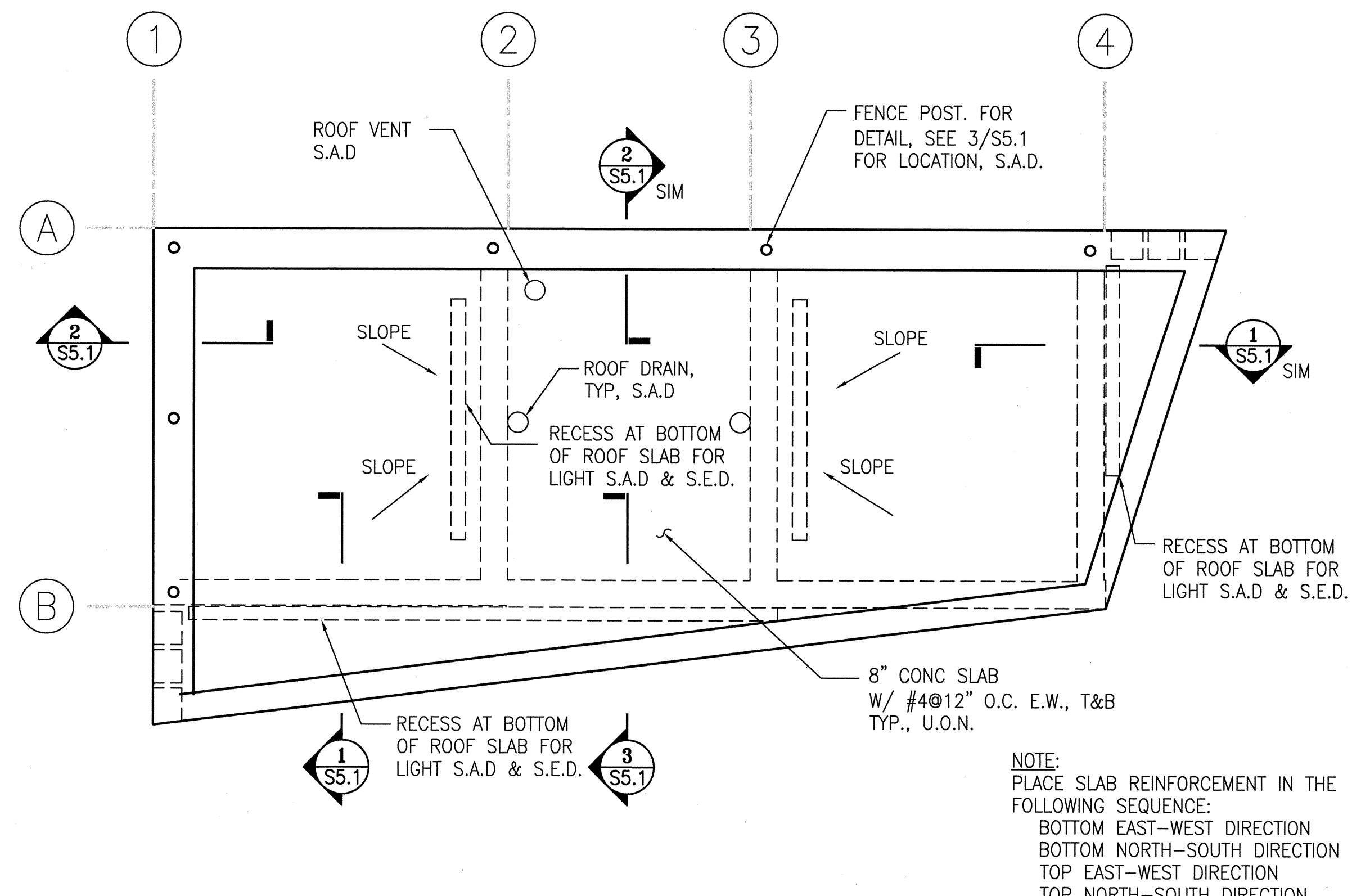
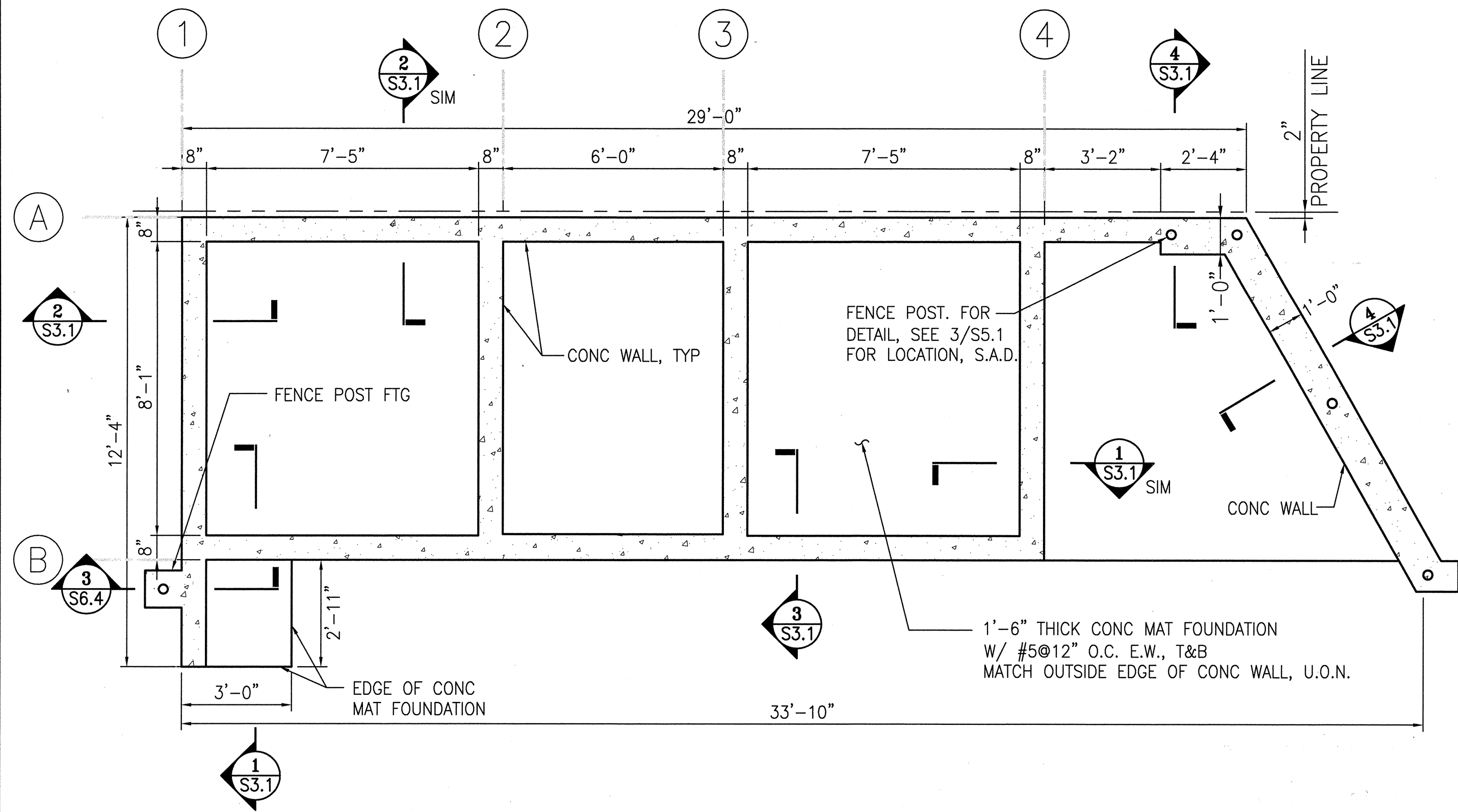
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S2.1

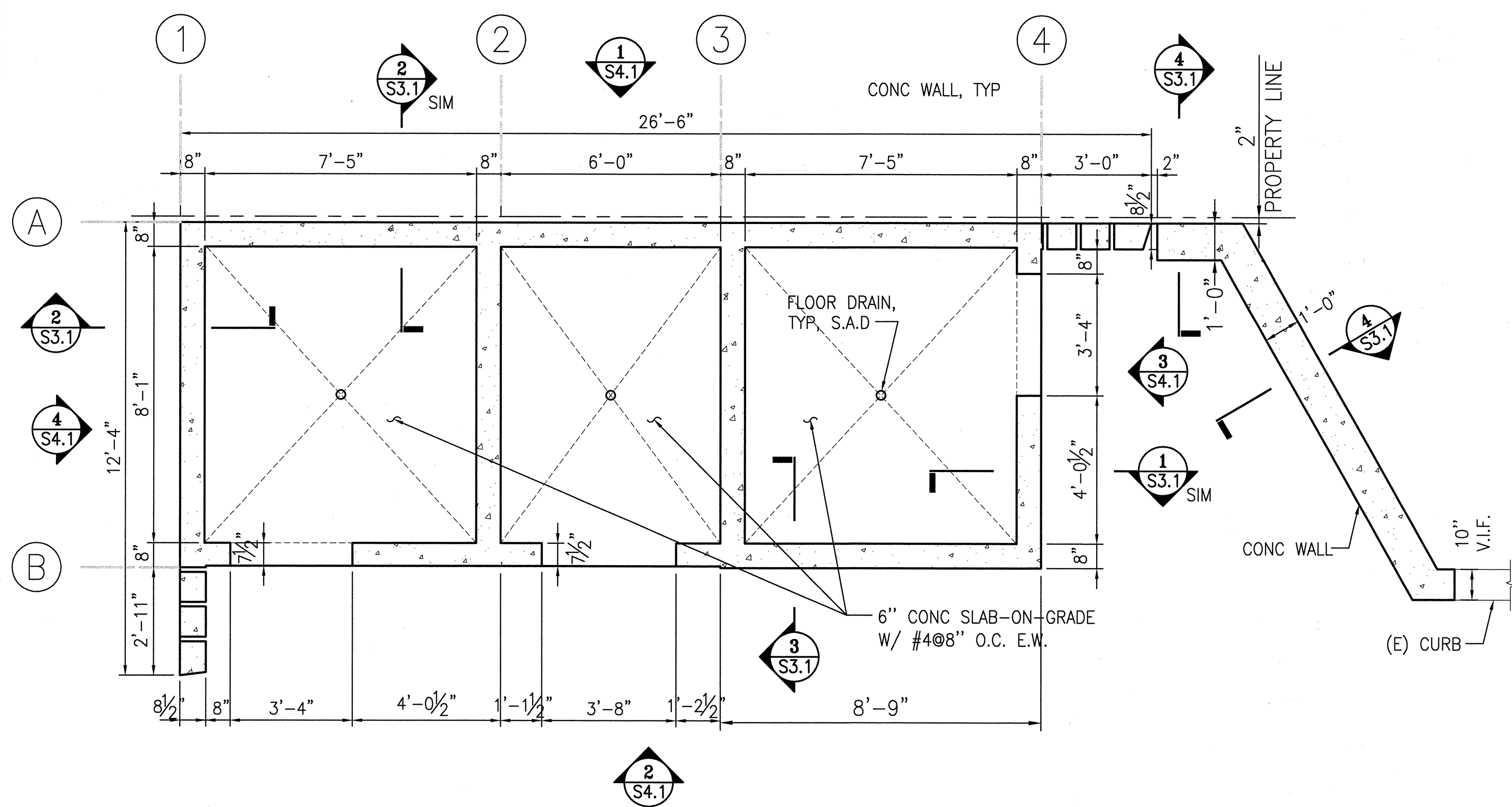
Scale 3/8"=1'-0"

Job No.

3092V-2



NOTE:
PLACE SLAB REINFORCEMENT IN THE FOLLOWING SEQUENCE:
BOTTOM EAST-WEST DIRECTION
BOTTOM NORTH-SOUTH DIRECTION
TOP EAST-WEST DIRECTION
TOP NORTH-SOUTH DIRECTION



SHEET NOTES:

- FOR GENERAL NOTES, REFER TO SHEETS S1.1 TO S1.3. FOR TYPICAL CONCRETE DETAILS, REFER TO SHEETS S1.4 TO S1.5.
- VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, SLAB DEPRESSIONS, ETC. WITH ARCHITECTURAL AND LANDSCAPE DRAWINGS PRIOR TO START OF CONSTRUCTION.
- SLOPE SLABS TO DRAIN. FOR DRAIN LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
- FOR ROOFING, SEE ARCHITECTURAL DRAWINGS.
- MECHANICAL FANS NOT SHOWN, SUPPORTS TO BE DESIGN-BUILD ITEM, SEE MECHANICAL DRAWINGS.
- PROVIDE CURING AND SEALING COMPOUND ON FINISHED CONCRETE SURFACES. ADD POLYMER GRIT ADDITIVE TO SEALING COMPOUND ON ALL WALKING SURFACES.
- FOR SCORE LINES IN CONCRETE SLAB-ON-GRADE, SEE ARCHITECTURAL DRAWINGS.
- ENGINEER FILL BELOW CONC SLAB SHALL BE COMPACTED TO 90% RELATIVE COMPACTION AS DETERMINED BY THE ASTM D1557 COMPACTION TEST METHOD AND UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER.

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APPROVED		
[Signature]		10/9/12 DATE:
SECTION MANAGER:		10/10/12 DATE:
[Signature]		DEPUTY DIVISION MANAGER: DATE:
[Signature]		10/11/12 DATE:
DIVISION MANAGER:		DATE:

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Section Head
T. LEUNG
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M. YEE
Proj. Arch.
T. LEUNG
Date
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Phase
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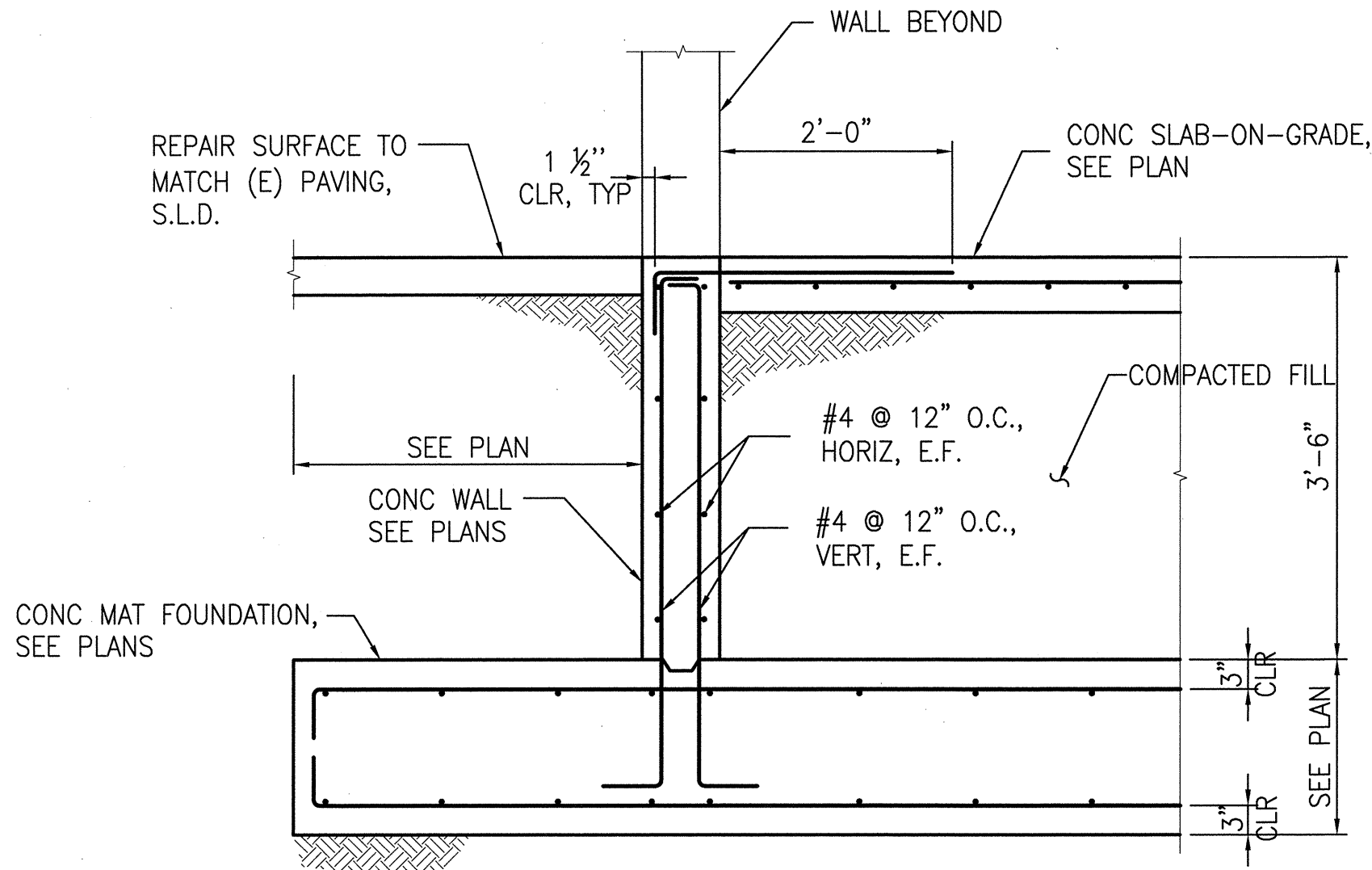


Drawing Title
FOUNDATION DETAILS

Sheet No.
S3.1

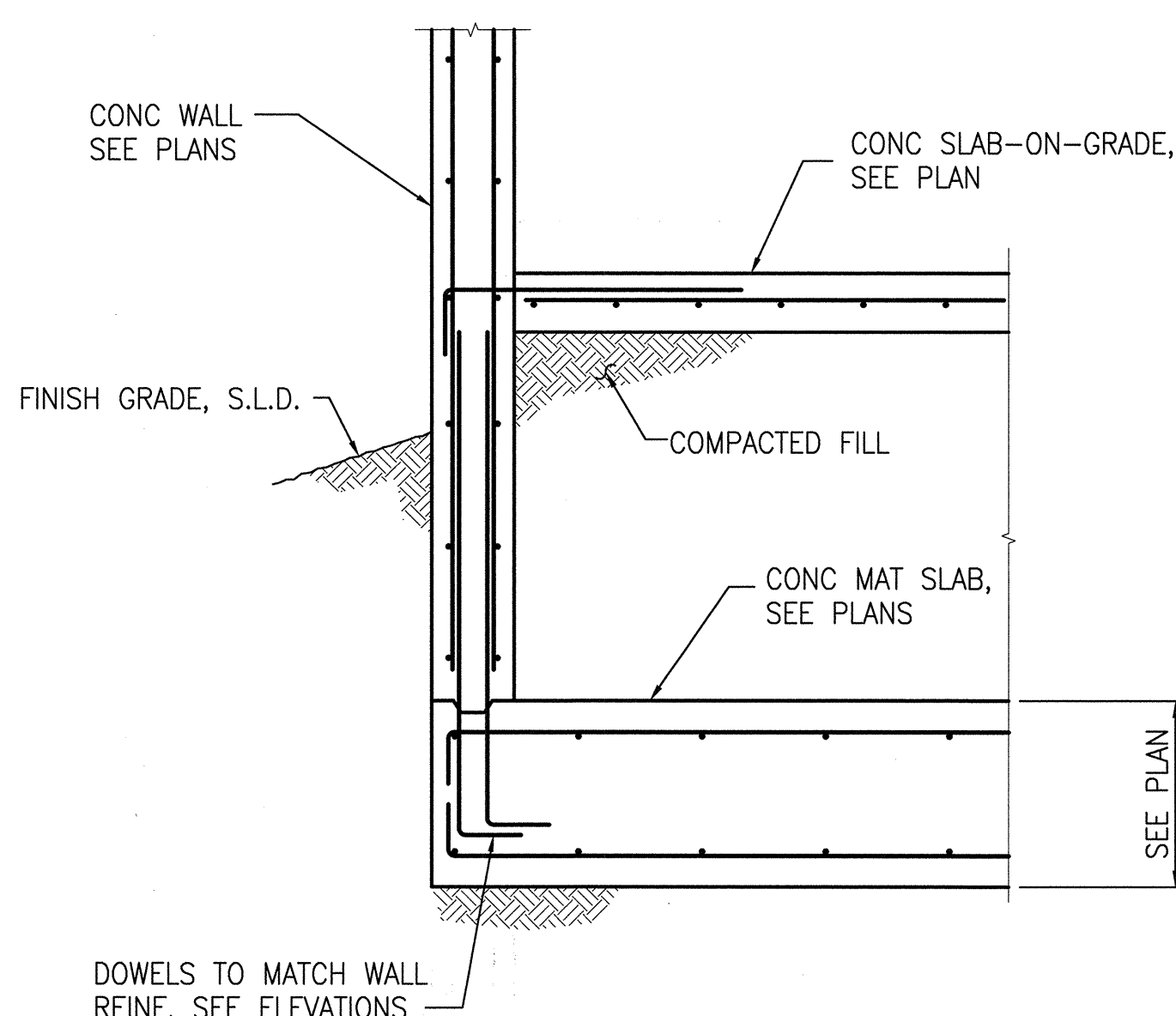
Scale
3/8"=1'-0"
Job No.
3092V-2

NOTE:
1. PROVIDE CURING & SEALING COMPOUND ON TOP SURFACE OF CONC SLAB.
2. SLOPE SLAB TO DRAIN, S.A.D.



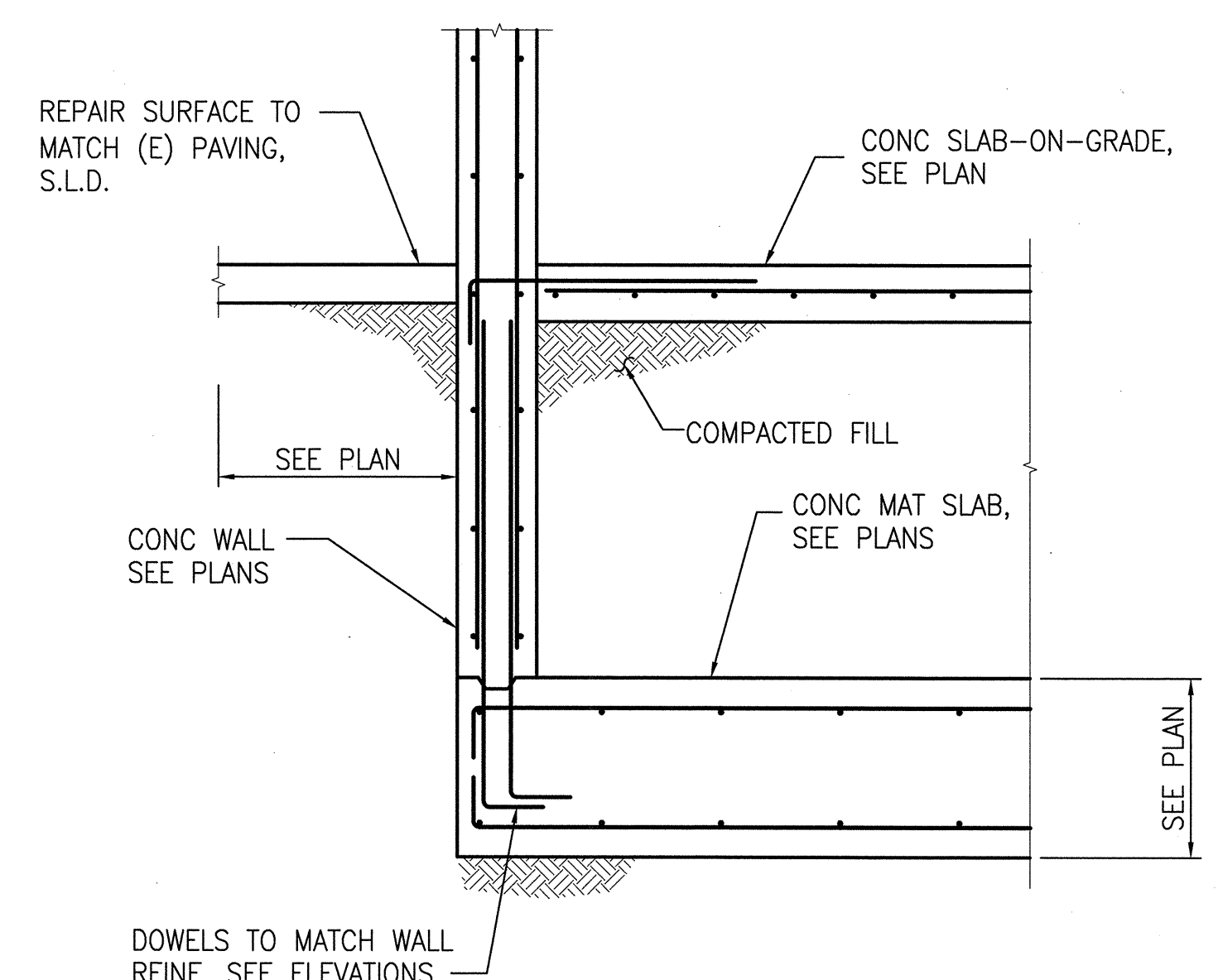
FOUNDATION DETAIL
SCALE: 3/4"=1'-0"
1

NOTE:
FOR INFORMATION NOT SHOWN OR NOTED, SEE DET 1/-.



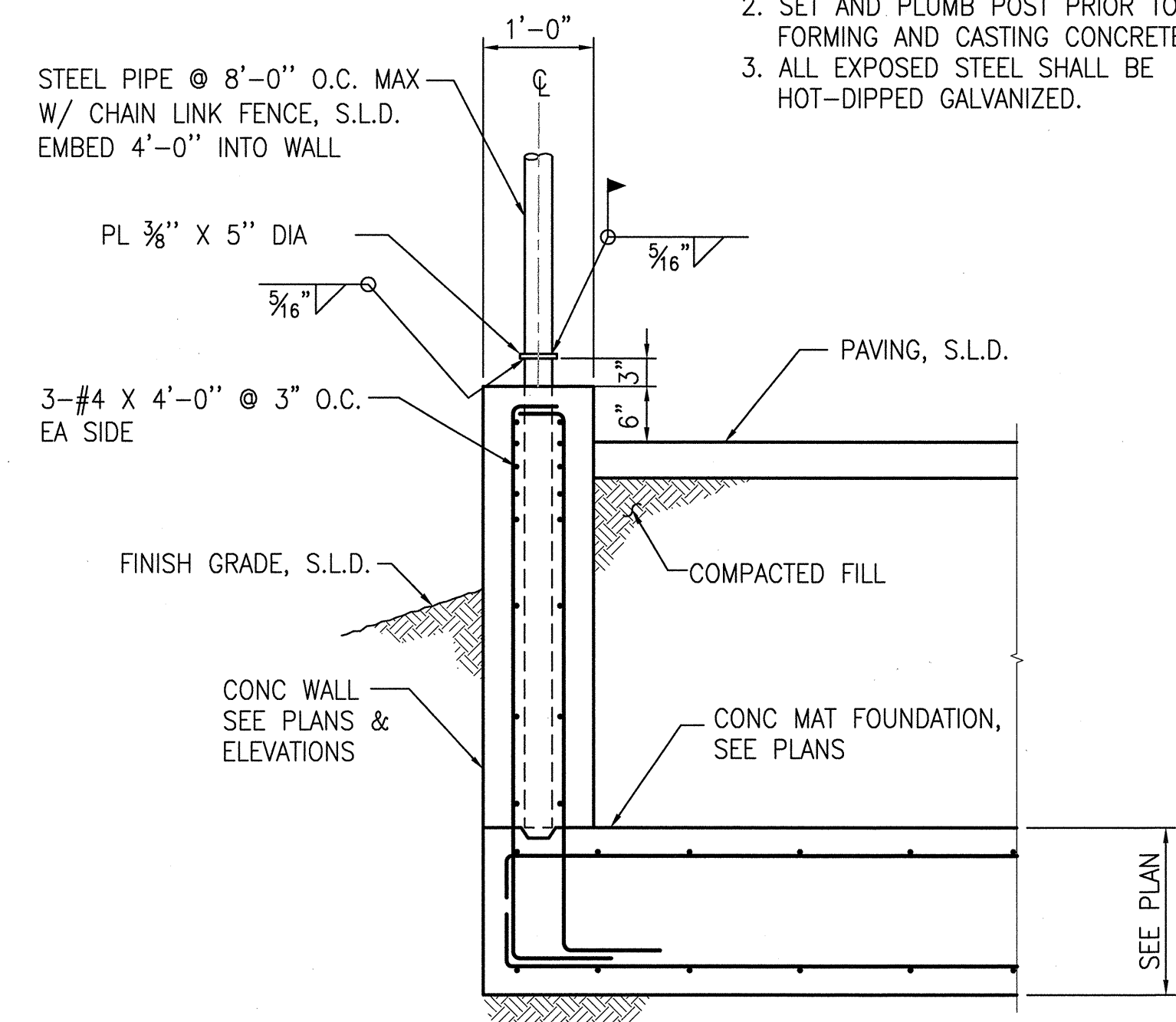
FOUNDATION DETAIL
SCALE: 3/4"=1'-0"
2

NOTE:
FOR INFORMATION NOT SHOWN OR NOTED, SEE DET 1/- AND 2/-.



FOUNDATION DETAIL
SCALE: 3/4"=1'-0"
3

NOTE:
1. FOR INFORMATION NOT SHOWN OR NOTED, SEE DET 1/- AND 2/-.
2. SET AND PLUMB POST PRIOR TO FORMING AND CASTING CONCRETE.
3. ALL EXPOSED STEEL SHALL BE HOT-DIPPED GALVANIZED.



FOUNDATION DETAIL
SCALE: 3/4"=1'-0"
4

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CHECKED BY:	JC JC	DATE	09/2012
APPROVED			
Raymond R. Luong 10/9/12		DATE	10/9/12
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DEPUTY DIVISION MANAGER:		DATE	
DIVISION MANAGER:		DATE	

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Proj. Arch. T. LEUNG
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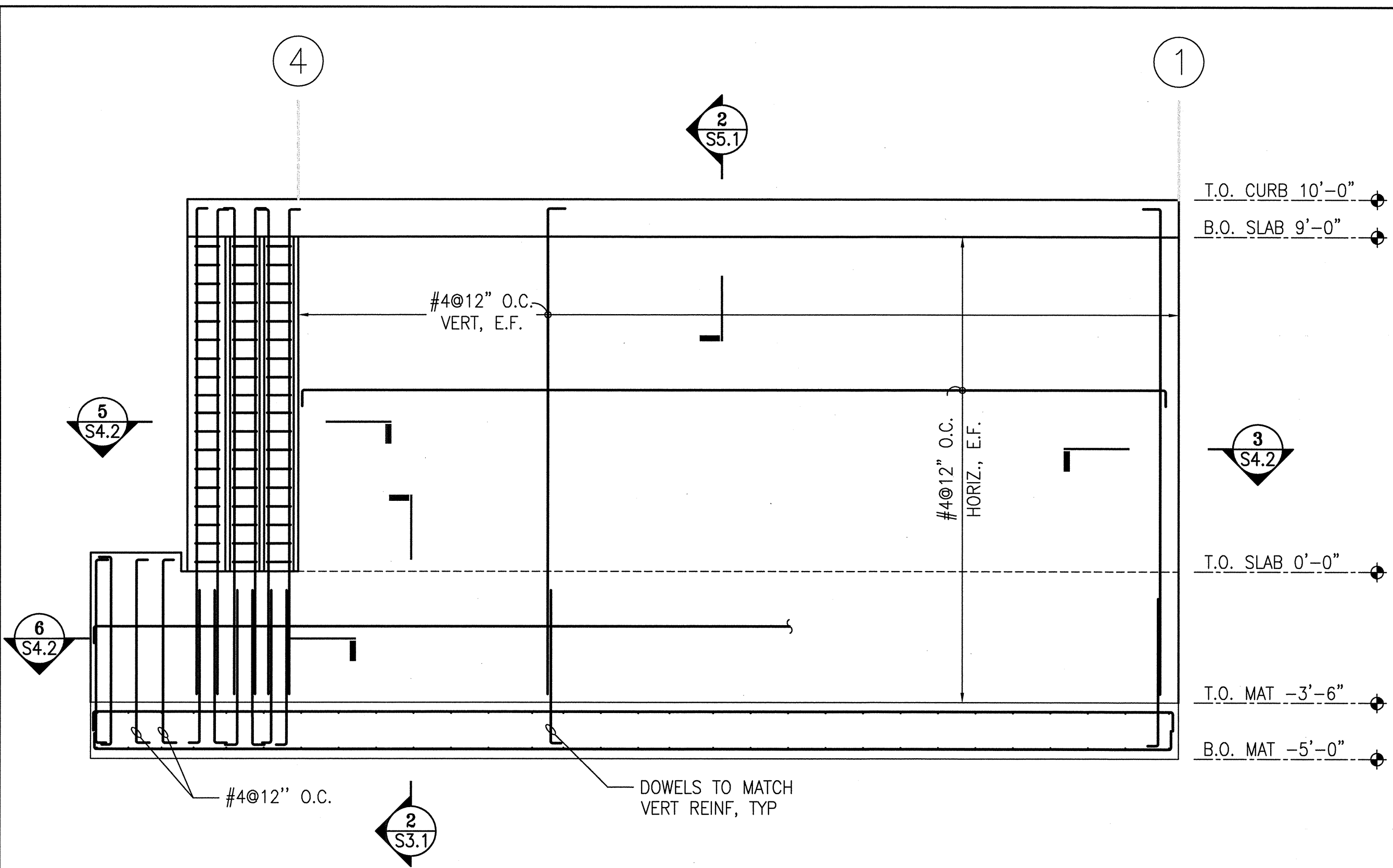


Drawing Title
WALL ELEVATIONS

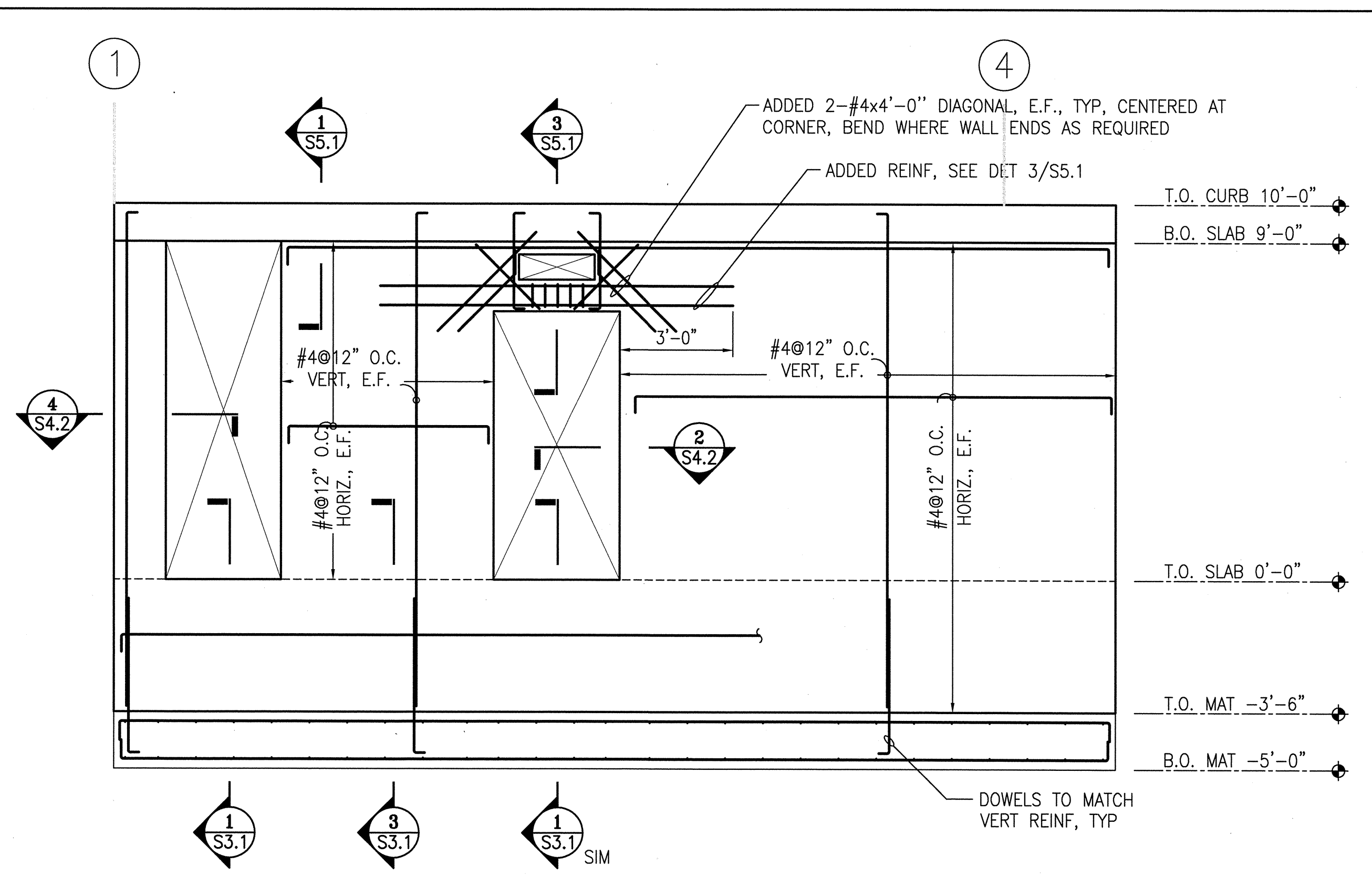
Sheet No. **S4.1**

Scale AS NOTED

Job No. 3092V-2

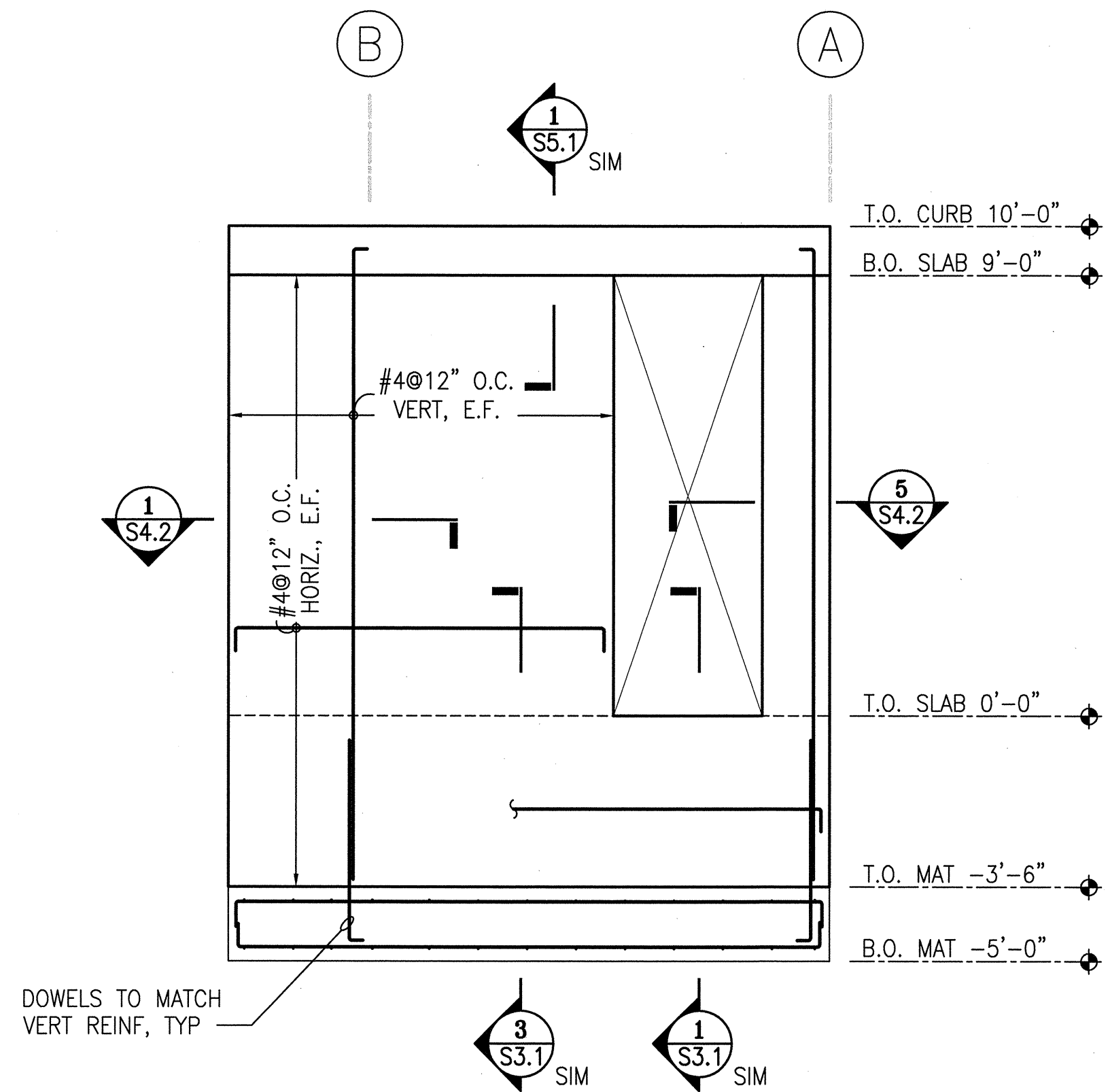


EXTERIOR WALL ELEVATION - NORTH
SCALE: 3/8"=1'-0"



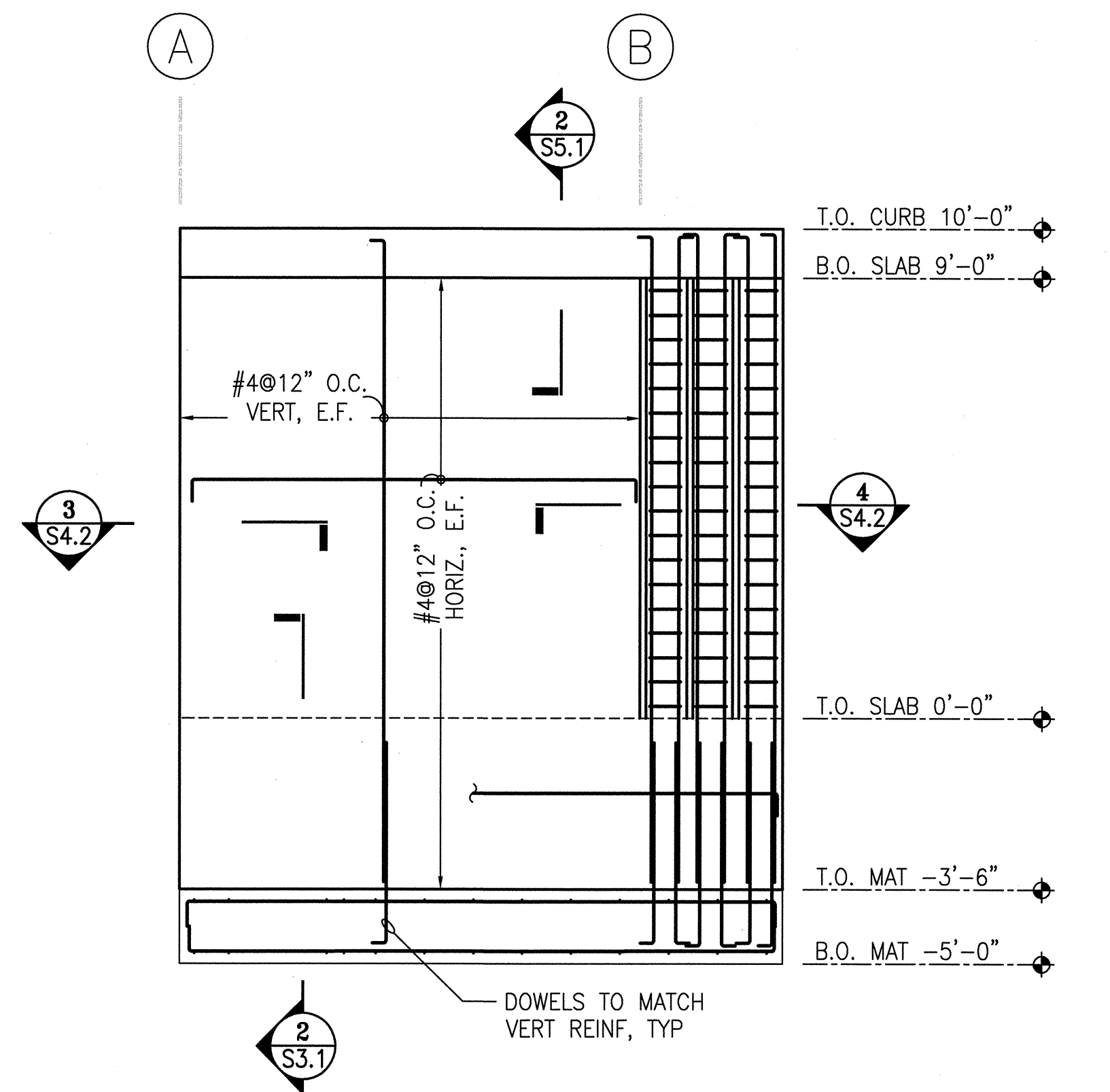
EXTERIOR WALL ELEVATION - SOUTH
SCALE: 3/8"=1'-0"

- NOTES:
1. FOR OPENING LOCATIONS AND DIMENSIONS, S.A.D.
2. FOR TYPICAL REINFORCEMENT AROUND OPENINGS, SEE DETAIL 7/S1.5.



EXTERIOR WALL ELEVATION - EAST
SCALE: 3/8"=1'-0"

NOTE:
FOR OPENING LOCATIONS AND DIMENSIONS, S.A.D.



EXTERIOR WALL ELEVATION - WEST
SCALE: 3/8"=1'-0"

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94102-6028 Fax (415) 5574701

Project
**2008 PARK BOND RESTROOM
REPLACEMENT PROJECT
CONTEMPORARY DESIGN**
DUPONT TENNIS COURTS RESTROOMS
336 31st Ave, San Francisco, CA 94121
Block No. 1403 - Lot No. 007

Consultant

INFRASTRUCTURE DIVISION DEPARTMENT OF PUBLIC WORKS CITY & COUNTY OF SAN FRANCISCO 30 VAN NESS AVENUE, 5TH FLOOR SAN FRANCISCO, CA 94102-6028		
DESIGNED BY: SL	SL	DATE 09/2012
DRAWN BY: JST	BH	DATE 09/2012
CHECKED BY: J.C.	JC	DATE 09/2012
APPROVED		
<i>Raymond R. Lu</i>	10/9/12	DATE
SECTION MANAGER	10/11/12	DATE
DEPUTY DIVISION MANAGER		DATE
DIVISION MANAGER	10/12/12	DATE

BID & CONSTRUCTION

No.	Date	Revisions

Section Head
T. LEUNG
Proj. Mgr.
M. YEE
Proj. Arch.
T. LEUNG
Drawn
Date
SEPTEMBER 2012
Phase
PERMIT SET



Drawing Title
**WALL SECTIONS
& DETAILS**

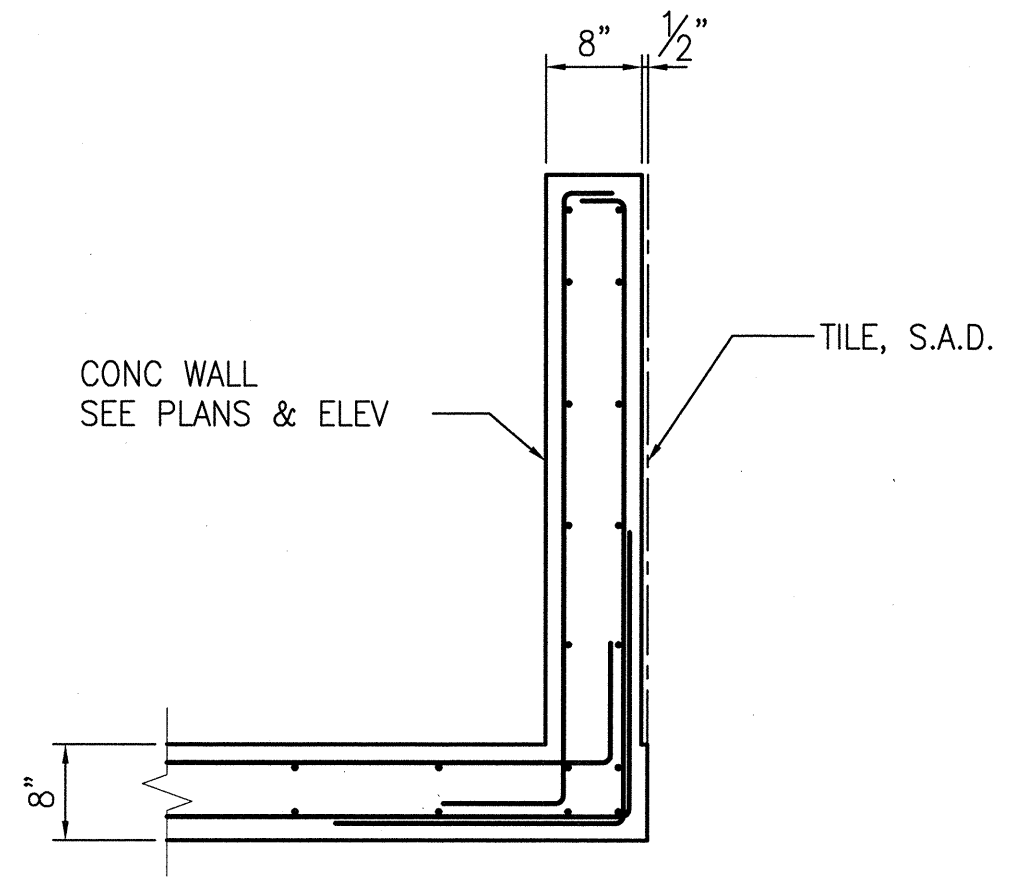
Sheet No.
S4.2

Scale
AS NOTED

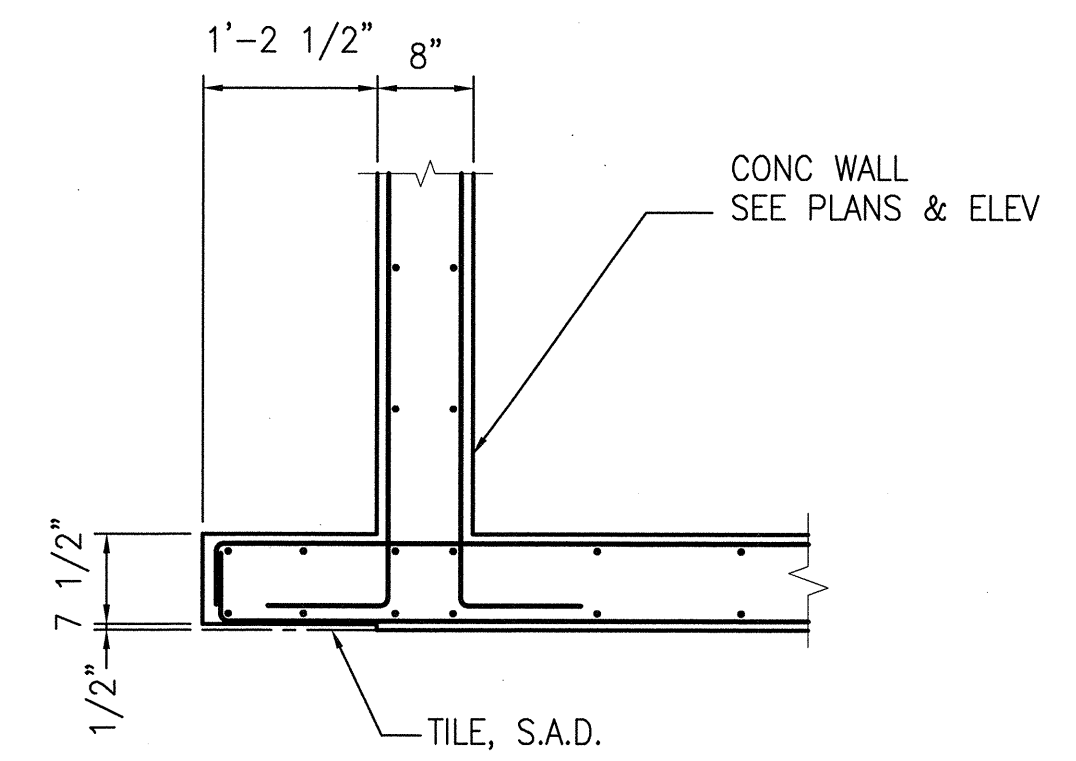
Job No.
3092V-2

SHEET NOTES:

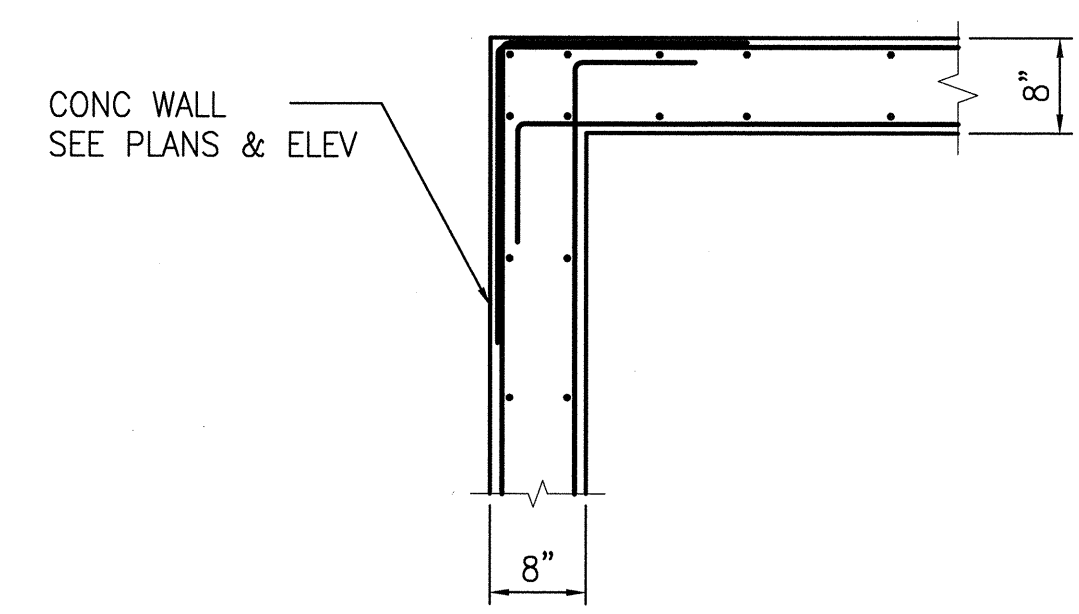
- FOR GENERAL NOTES, REFER TO SHEETS S1.1 TO S1.3.
FOR TYPICAL CONCRETE DETAILS, REFER TO SHEETS S1.4 TO S1.5.
- VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, ETC. WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION.



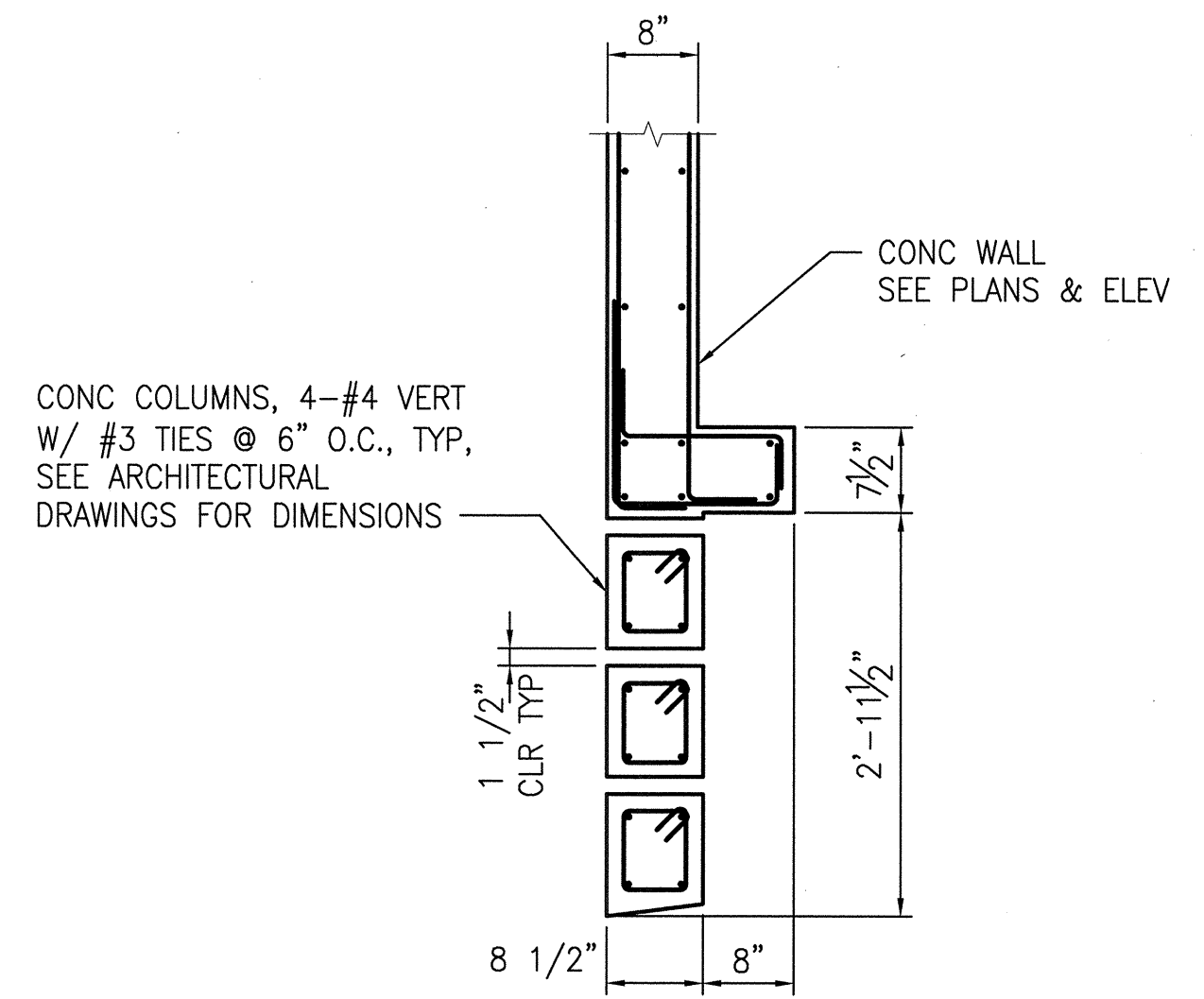
PLAN DETAIL
SCALE: 3/4"=1'-0"
1



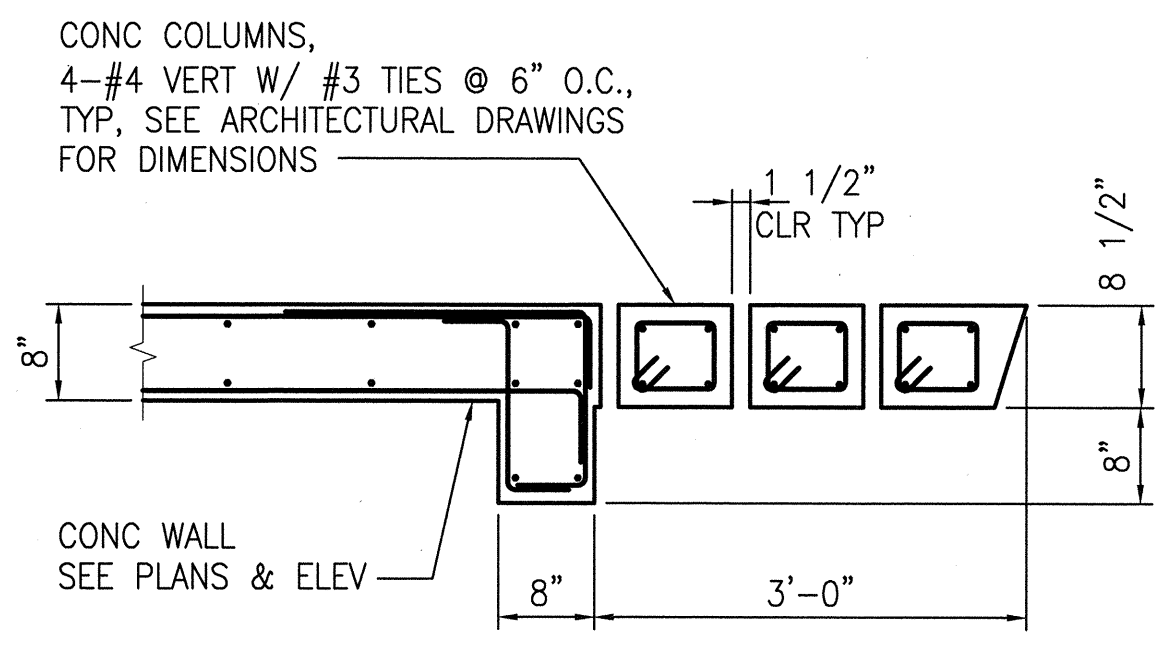
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SCALE: 3/4"=1'-0"
2



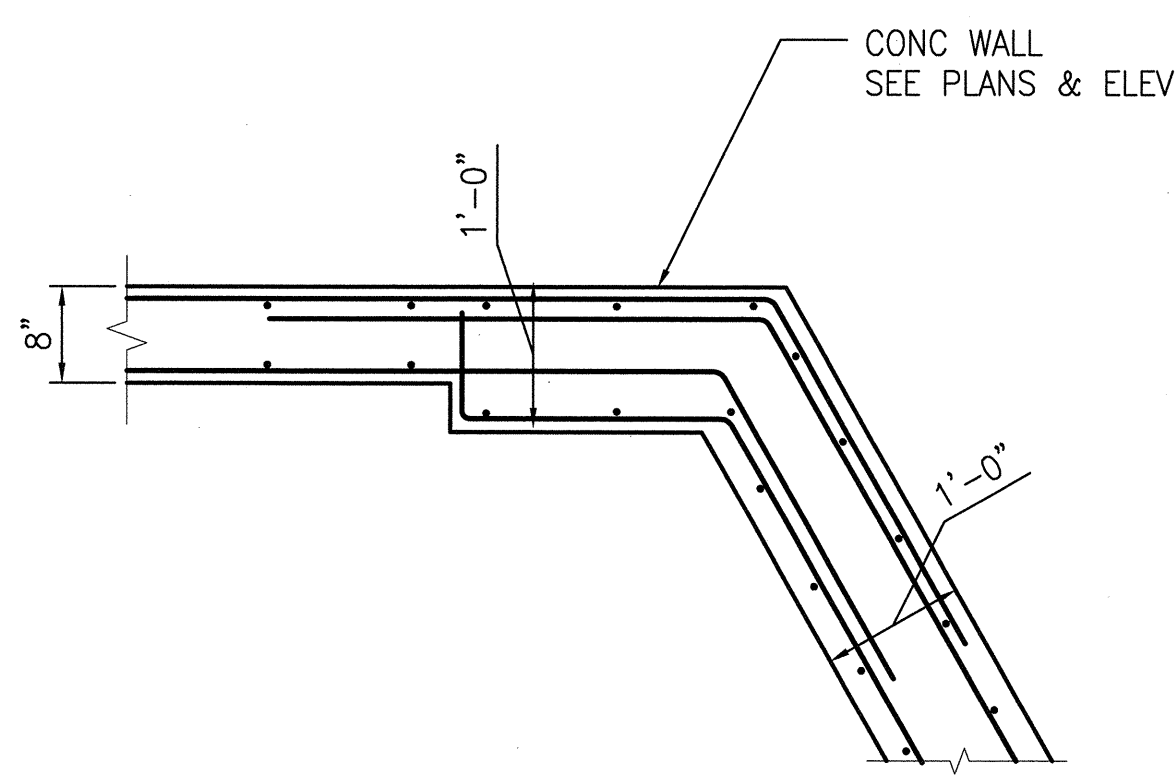
PLAN DETAIL
SCALE: 3/4"=1'-0"
3



PLAN DETAIL
SCALE: 3/4"=1'-0"
4

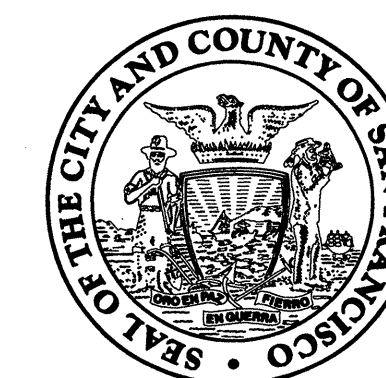


PLAN DETAIL
SCALE: 3/4"=1'-0"
5



PLAN DETAIL
SCALE: 3/4"=1'-0"
6

BUILDING DESIGN &
CONSTRUCTION



Architecture • Construction
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Project

2008 PARK BOND RESTROOM
REPLACEMENT PROJECT
CONTEMPORARY DESIGN

DUPONT TENNIS COURTS RESTROOMS
336 31st Ave, San Francisco, CA 94121
Block No. 1403 - Lot No. 007

Consultant

INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY & COUNTY OF SAN FRANCISCO
30 VAN NESS AVENUE, 5TH FLOOR
SAN FRANCISCO, CA 94102-6028

DESIGNED BY:	SL	SL	DATE
			09/2012
DRAWN BY:	BH	BH	09/2012
CHECKED BY:	JC	JC	09/2012

APPROVED			
<i>[Signature]</i>		DATE:	10/25/12
SECTION MANAGER:		DATE:	10/25/12
<i>[Signature]</i>		DATE:	10/25/12
DEPUTY DIVISION MANAGER:		DATE:	
<i>[Signature]</i>		DATE:	10/25/12
DIVISION MANAGER:		DATE:	

BID & CONSTRUCTION

No.	Date	Revisions

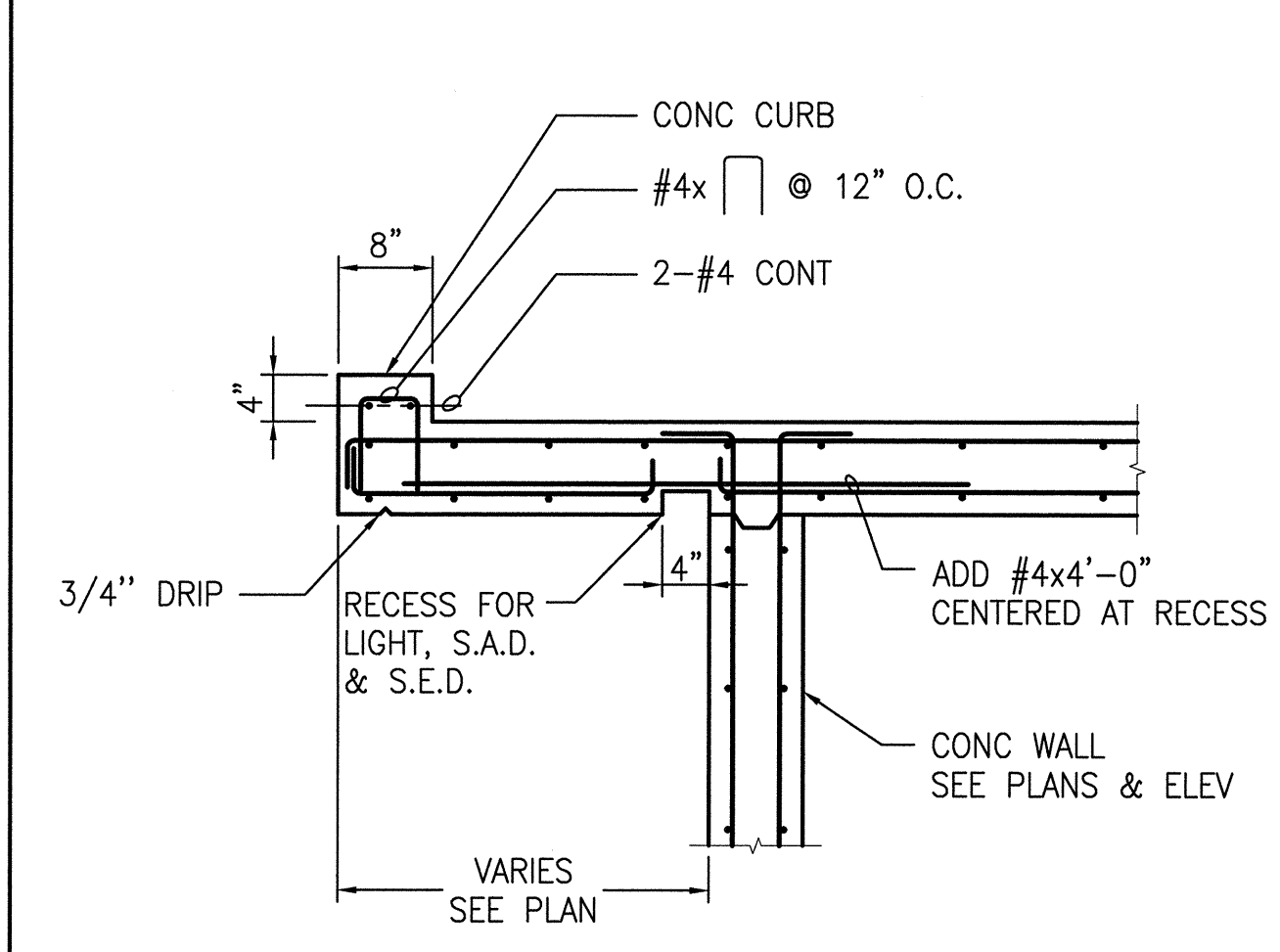
Section Head
T. LEUNG
Proj. Mgr.
M. YEE
Proj. Arch.
T. LEUNG
Drawn
Date
SEPTEMBER 2012
Phase
PERMIT SET



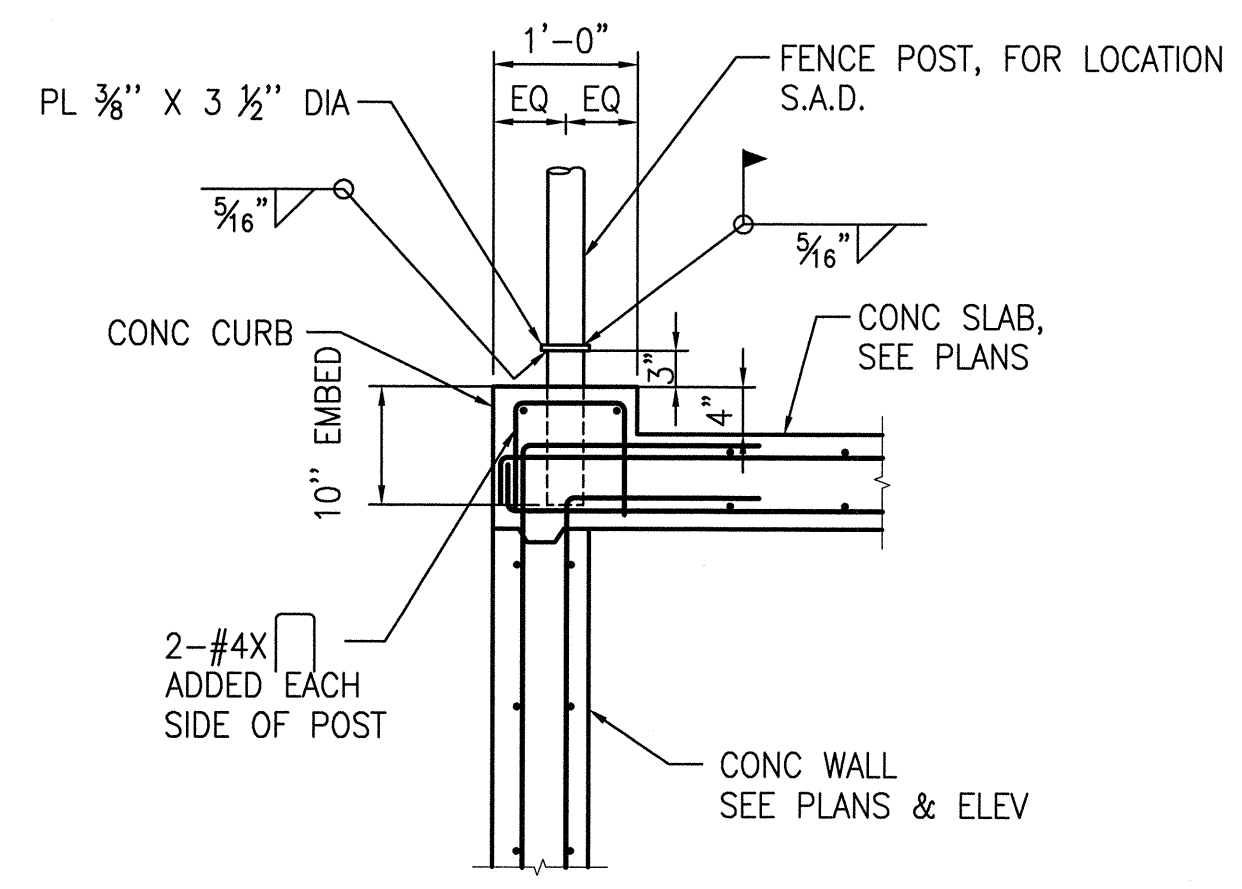
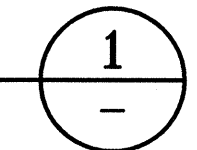
Drawing Title
ROOF DETAILS

Sheet No.
S5.1

Scale
AS NOTED
Job No.
3092V-2

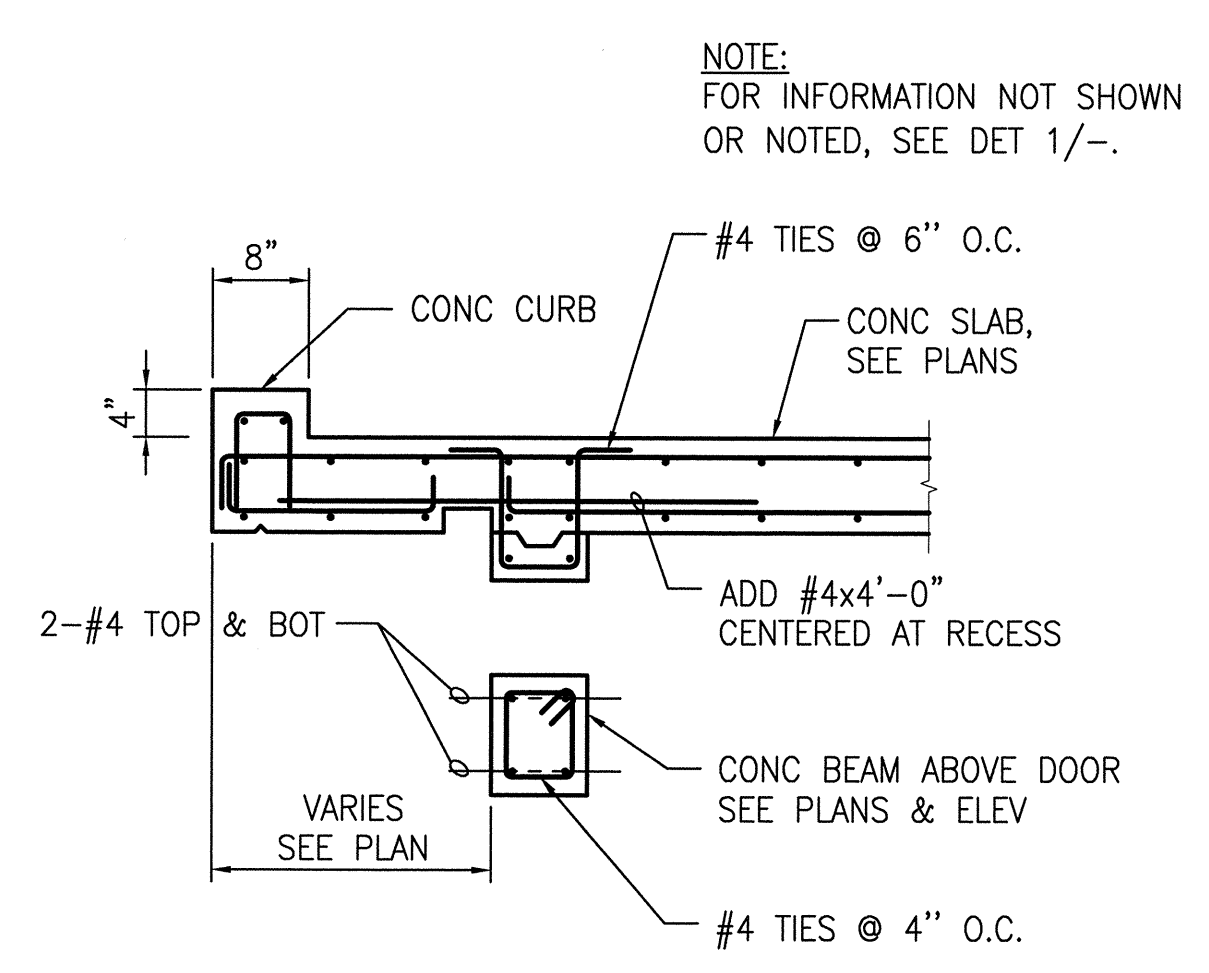
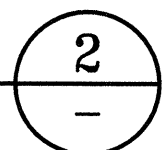


ROOF DETAIL
SCALE: 3/4"=1'-0"



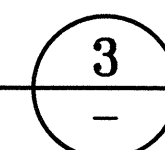
NOTES:
1. ALL EXPOSED STEEL SHALL BE HOT-DIPPED GALVANIZED.

ROOF DETAIL
SCALE: 3/4"=1'-0"

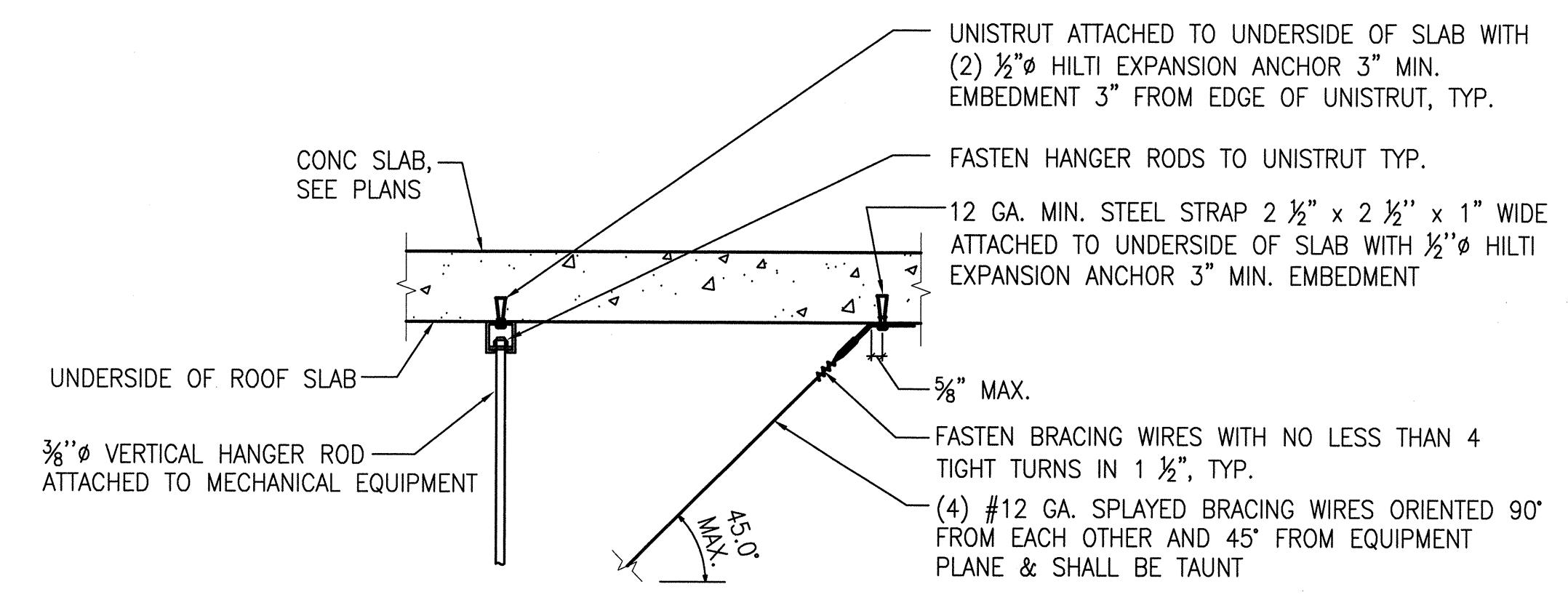


NOTE:
FOR INFORMATION NOT SHOWN
OR NOTED, SEE DET 1/-.

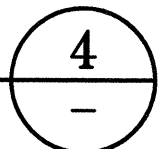
ROOF DETAIL
SCALE: 3/4"=1'-0"



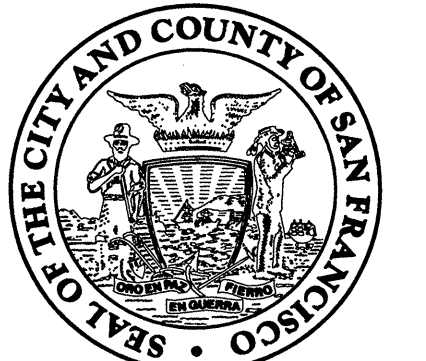
NOTES:
1. ALL EXPOSED STEEL SHALL BE HOT-DIPPED GALVANIZED.
2. FOR LOCATION OF ANCHORS, S.M.D.



MECHANICAL SUPPORT AND SEISMIC BRACING DETAIL
SCALE: 3/4"=1'-0"



BUILDING DESIGN &
CONSTRUCTION



Architecture • Construction
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San Francisco, CA 94102-6028 (415) 557-4700
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Project
**2008 PARK BOND RESTROOM
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336 31st Ave, San Francisco, CA 94121
Block No. 1403 - Lot No. 007

Consultant

INFRASTRUCTURE DIVISION DEPARTMENT OF PUBLIC WORKS CITY & COUNTY OF SAN FRANCISCO 30 VAN NESS AVENUE, 5TH FLOOR SAN FRANCISCO, CA 94102-6028		
DESIGNED BY: SL	SL	DATE 09/2012
DRAWN BY: BH	BH	DATE 09/2012
CHECKED BY: JC	JC	DATE 09/2012
APPROVED		
Raymond R. Liu 10/9/12		DATE
Section Manager: Raymond R. Liu 10/11/12		DATE
Deputy Division Manager: [Signature] 10/12		DATE
Division Manager: [Signature] 10/12		DATE

BID & CONSTRUCTION

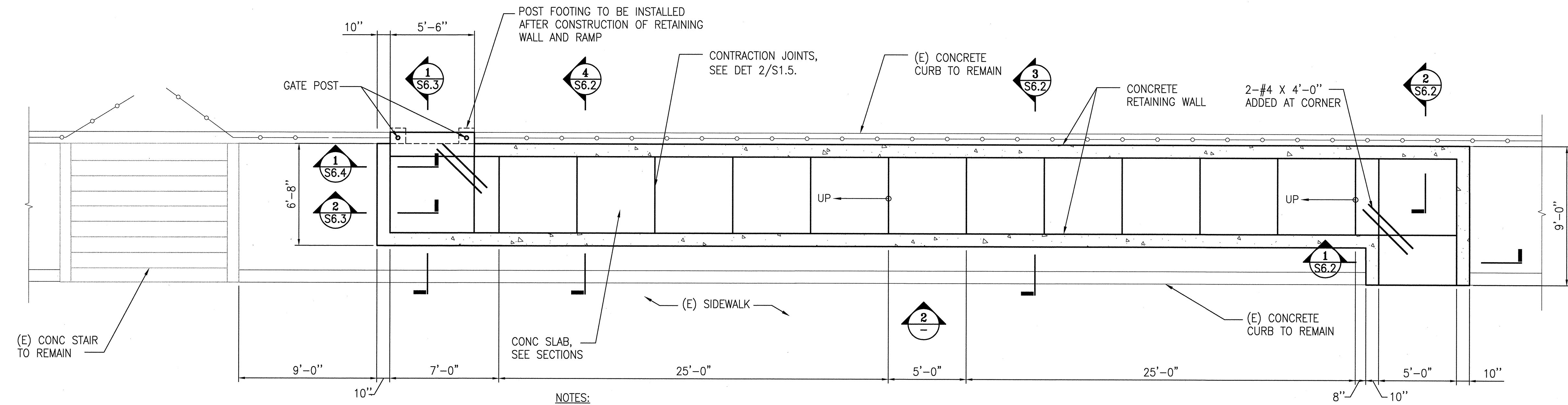
No.	Date	Revisions

Section Head T. LEUNG
Proj. Mgr. M. YEE
Proj. Arch. T. LEUNG
Drawn
Date SEPTEMBER 2012
Phase PERMIT SET



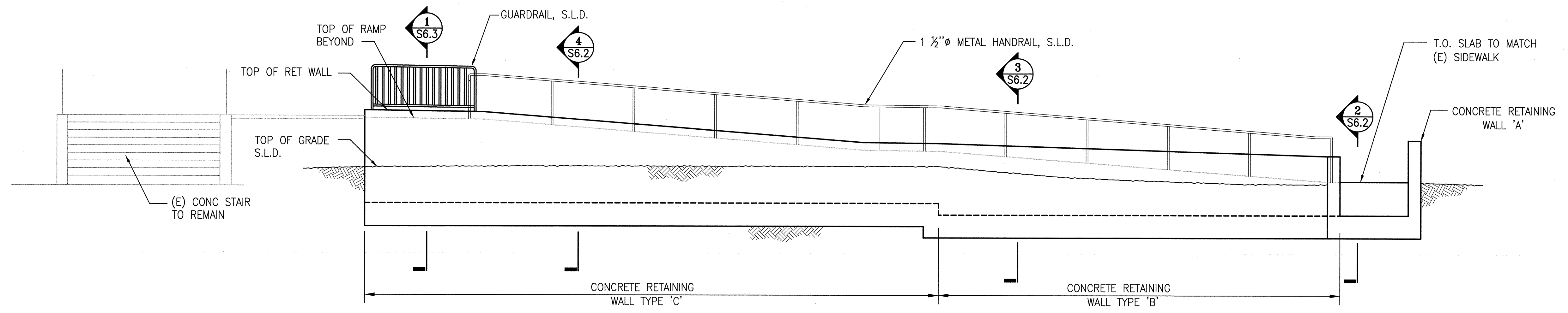
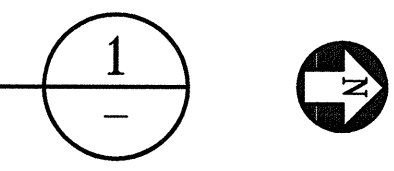
Drawing Title
**RETAINING WALLS
PLAN & ELEVATION**

Sheet No. **S6.1**
Scale AS NOTED
Job No. 3092V-2

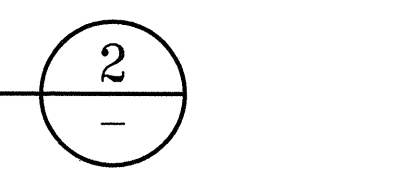


- NOTES:
- FOR GENERAL NOTES, REFER TO SHEETS S1.1 TO S1.3. FOR TYPICAL CONCRETE DETAILS, REFER TO SHEETS S1.4 TO S1.5.
 - VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, SLAB DEPRESSIONS, ETC. WITH LANDSCAPE DRAWINGS PRIOR TO START OF CONSTRUCTION.
 - SLOPE SLABS TO DRAIN. SEE LANDSCAPE DRAWINGS FOR SLOPING REQUIREMENTS.
 - PROVIDE CURING AND SEALING COMPOUND ON FINISHED CONCRETE SURFACES. ADD POLYMER GRIT ADDITIVE TO SEALING COMPOUND ON ALL WALKING SURFACES.
 - CONTRACTOR SHALL SUBMIT CONTRACTION JOINT LOCATIONS TO CITY REPRESENTATIVE FOR APPROVAL.
 - FOR GATE DETAILS, S.L.D. PROVIDE POST FOOTING AS SHOWN IN 1/S6.4 AND 2/S6.4.
 - FOR TOP OF WALL ELEVATIONS, SEE LANDSCAPE DRAWINGS.
 - ALL EXPOSED STEEL SHALL BE HOT-DIPPED GALVANIZED.

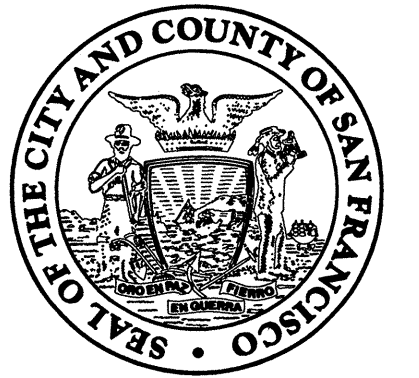
RAMP FOUNDATION PLAN
SCALE: 1/4"=1'-0"



CONCRETE RAMP ELEVATION
SCALE: 1/4"=1'-0"



BUILDING DESIGN &
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Project

2008 PARK BOND RESTROOM
REPLACEMENT PROJECT
CONTEMPORARY DESIGN

DUPONT TENNIS COURTS RESTROOMS
336 31st Ave, San Francisco, CA 94121
Block No. 1403 - Lot No. 007

Consultant

INFRASURFACE DIVISION DEPARTMENT OF PUBLIC WORKS CITY & COUNTY OF SAN FRANCISCO 30 VAN NESS AVENUE, 5TH FLOOR SAN FRANCISCO, CA 94102-6028	
DESIGNED BY: SL SL	DATE: 09/2012
DRAWN BY: BH BH	DATE: 09/2012
CHECKED BY: JC JC	DATE: 09/2012
APPROVED	
SECTION MANAGER: [Signature]	DATE: 10/25/12
DEPUTY DIVISION MANAGER: [Signature]	DATE: 10/25/12
DIVISION MANAGER: [Signature]	DATE: 10/25/12

BID & CONSTRUCTION

No.	Date	Revisions

Section Head: T. LEUNG
Proj. Mgr.: M. YEE
Proj. Arch.: T. LEUNG
Date: SEPTEMBER 2012
Phase: PERMIT SET

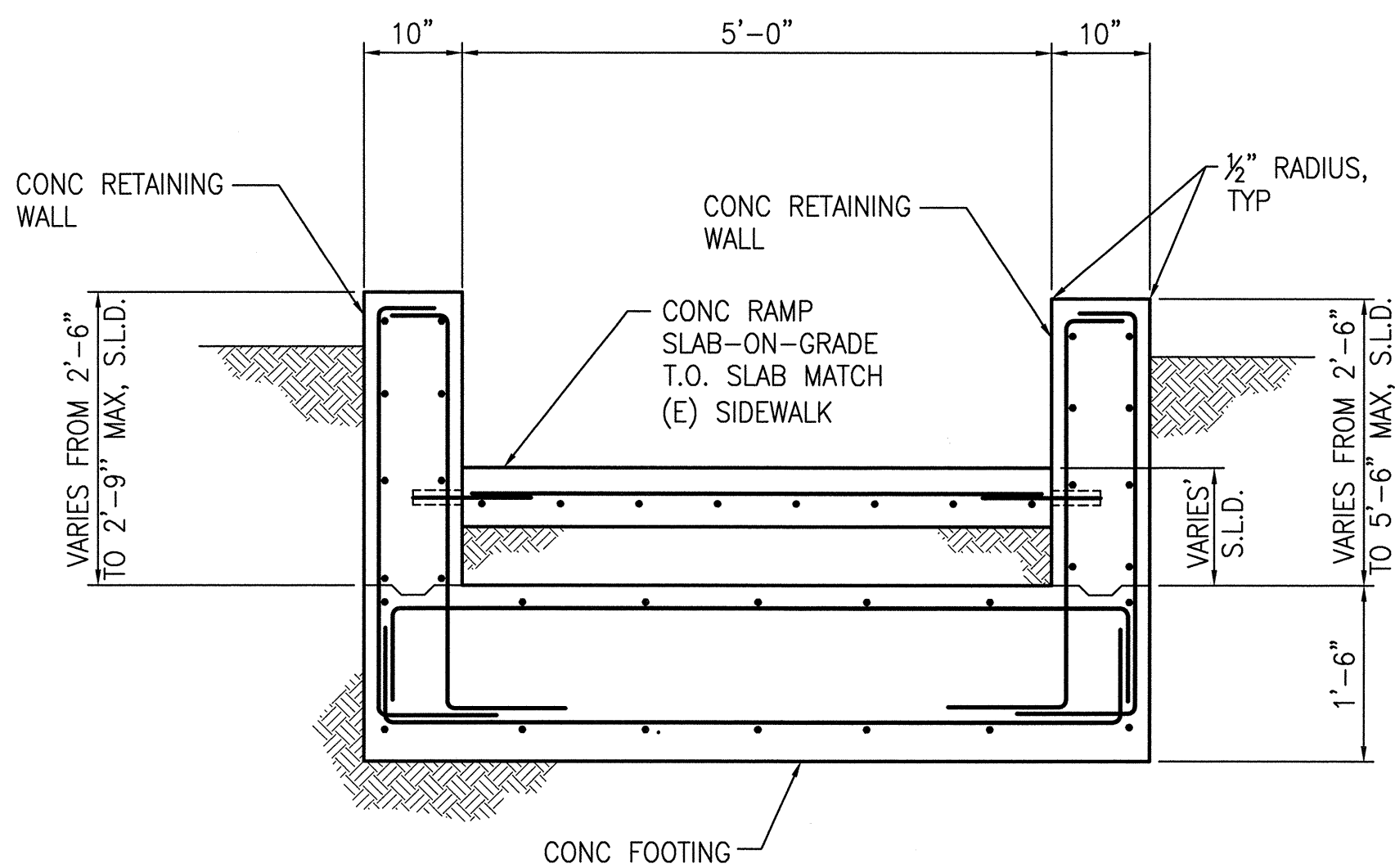


Drawing Title
RETAINING WALLS
DETAILS

Sheet No. S6.2

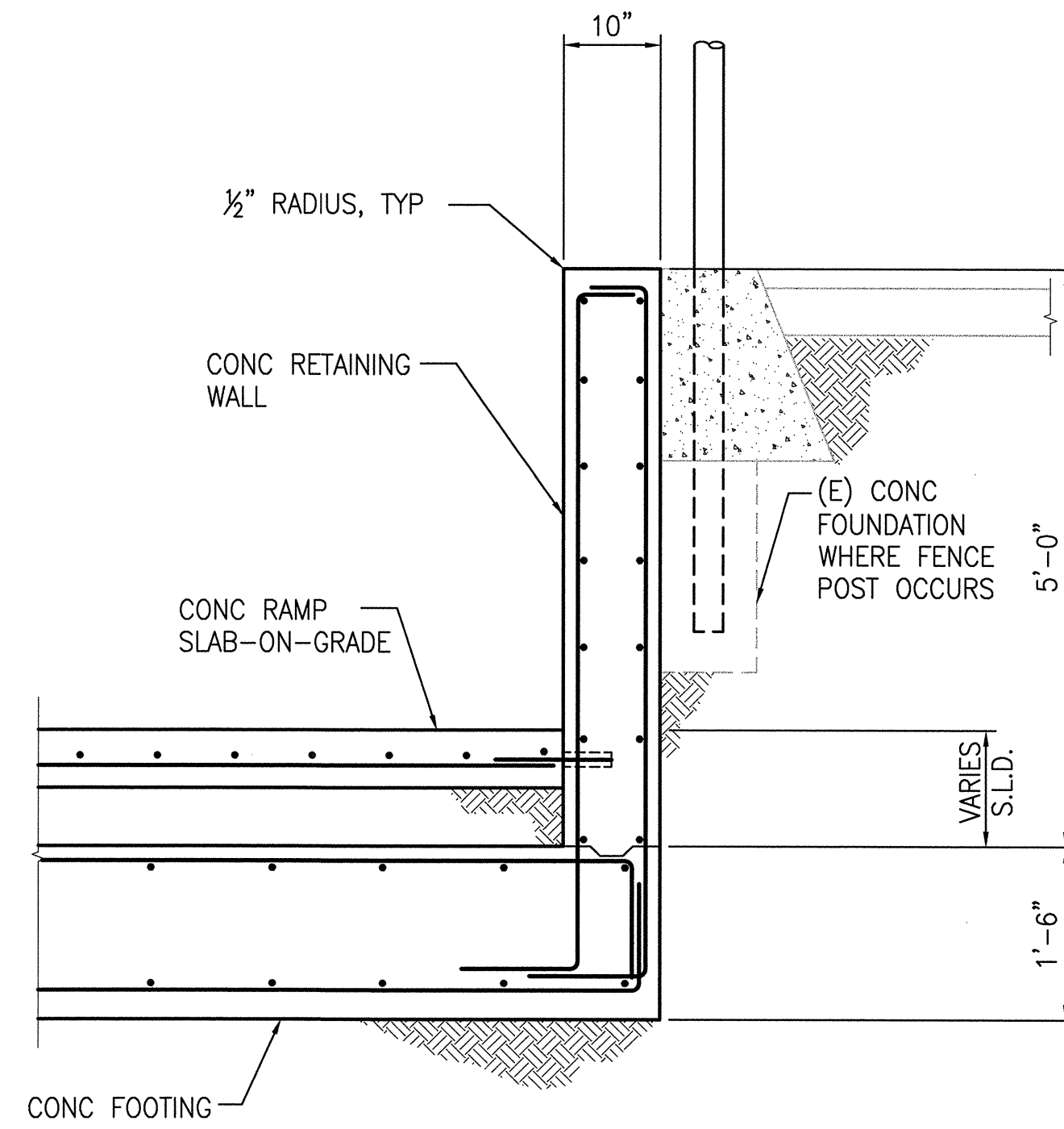
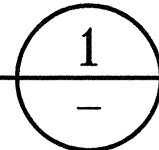
Scale AS NOTED

Job No. 3092V-2



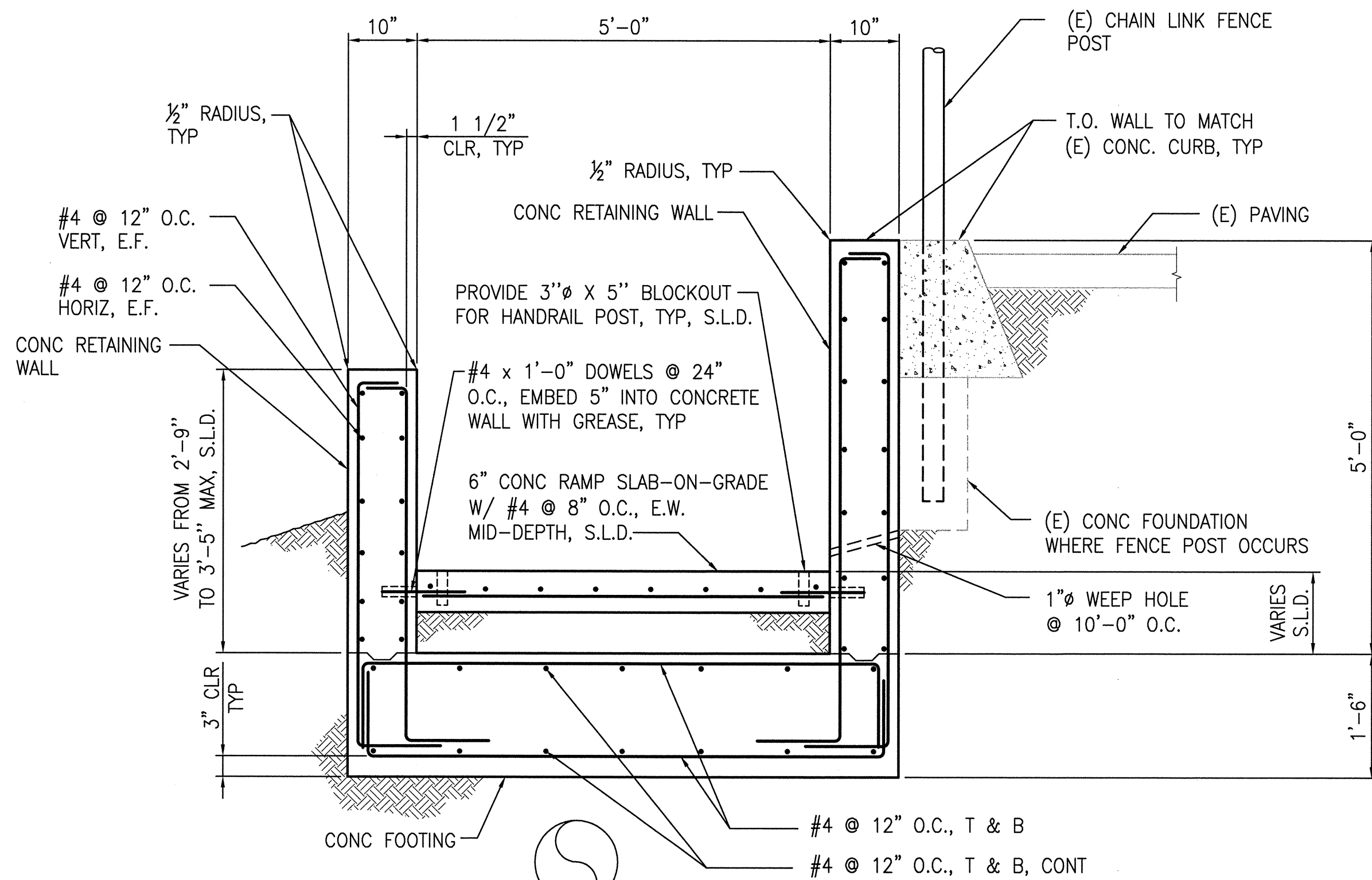
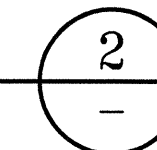
NOTE:
FOR INFO NOT SHOWN OR NOTED,
SEE DET 3/-.

WALL TYPE "A"
SCALE: 3/4"=1'-0"



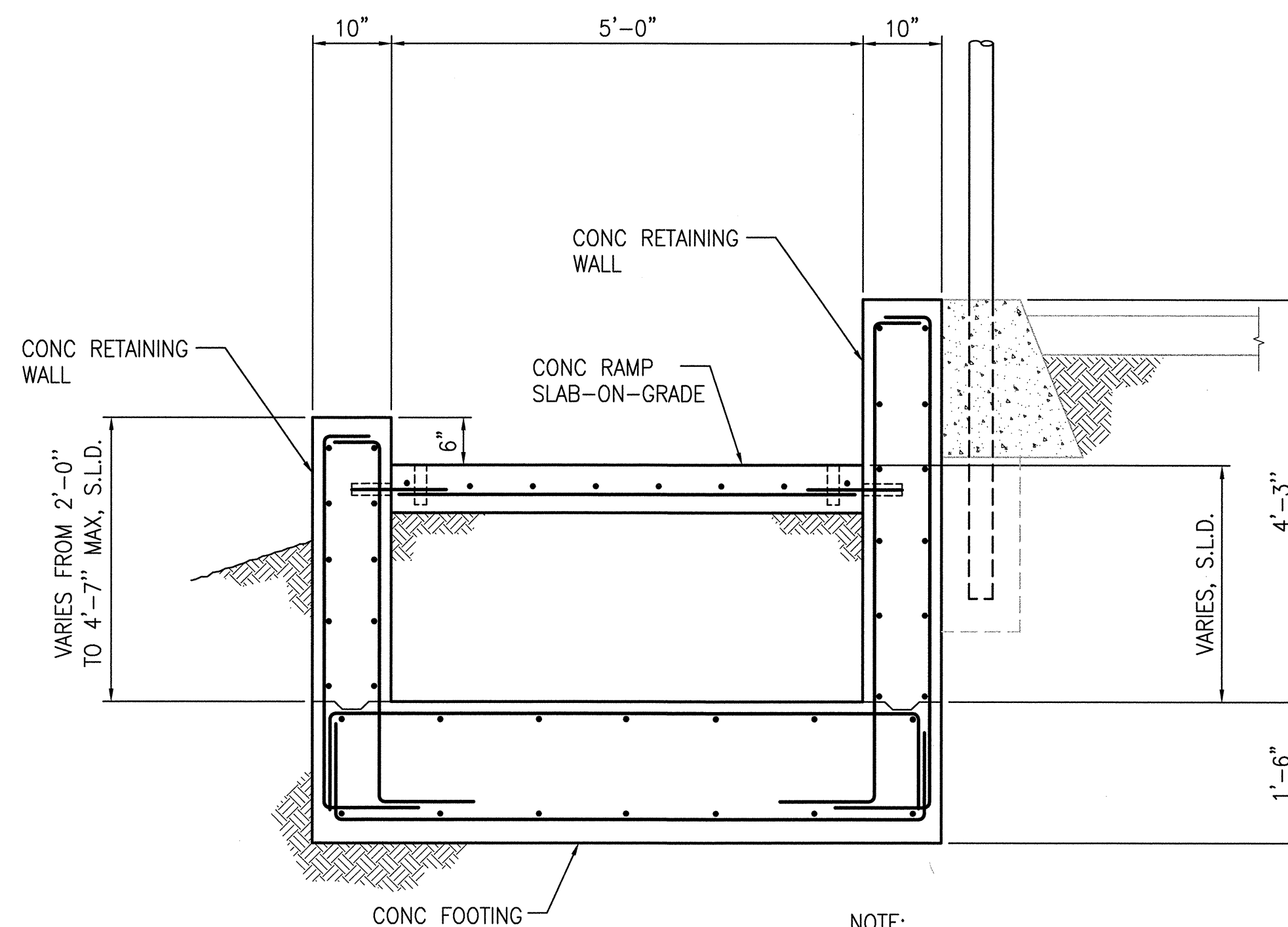
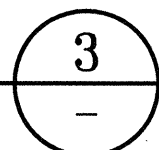
NOTE:
FOR INFO NOT SHOWN OR NOTED,
SEE SECTION 3/-.

SECTION
SCALE: 3/4"=1'-0"



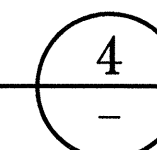
NOTE:
ALL EXPOSED STEEL SHALL BE
HOT-DIPPED GALVANIZED.

WALL TYPE "B"
SCALE: 3/4"=1'-0"



NOTE:
FOR INFO NOT SHOWN OR NOTED,
SEE SECTION 3/-.

WALL TYPE "C"
SCALE: 3/4"=1'-0"



BUILDING DESIGN &
CONSTRUCTION



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30 Van Ness Avenue Suite 4100
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Project
**2008 PARK BOND RESTROOM
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Consultant

INFRASTRUCTURE DIVISION DEPARTMENT OF PUBLIC WORKS CITY & COUNTY OF SAN FRANCISCO 30 VAN NESS AVENUE, 5TH FLOOR SAN FRANCISCO, CA 94102-6028			
DESIGNED BY:	SL SL	DATE	09/2012
DRAWN BY:	BH BH	DATE	09/2012
CHECKED BY:	JC JC	DATE	09/2012
APPROVED			
Raymond R. Luong 10/9/12		DATE: 10/9/12	
Margaret Pea 10/11/12		DATE: 10/11/12	
DATE: 10/11/12		DATE: 10/11/12	
DATE: 10/11/12		DATE: 10/11/12	

BID & CONSTRUCTION

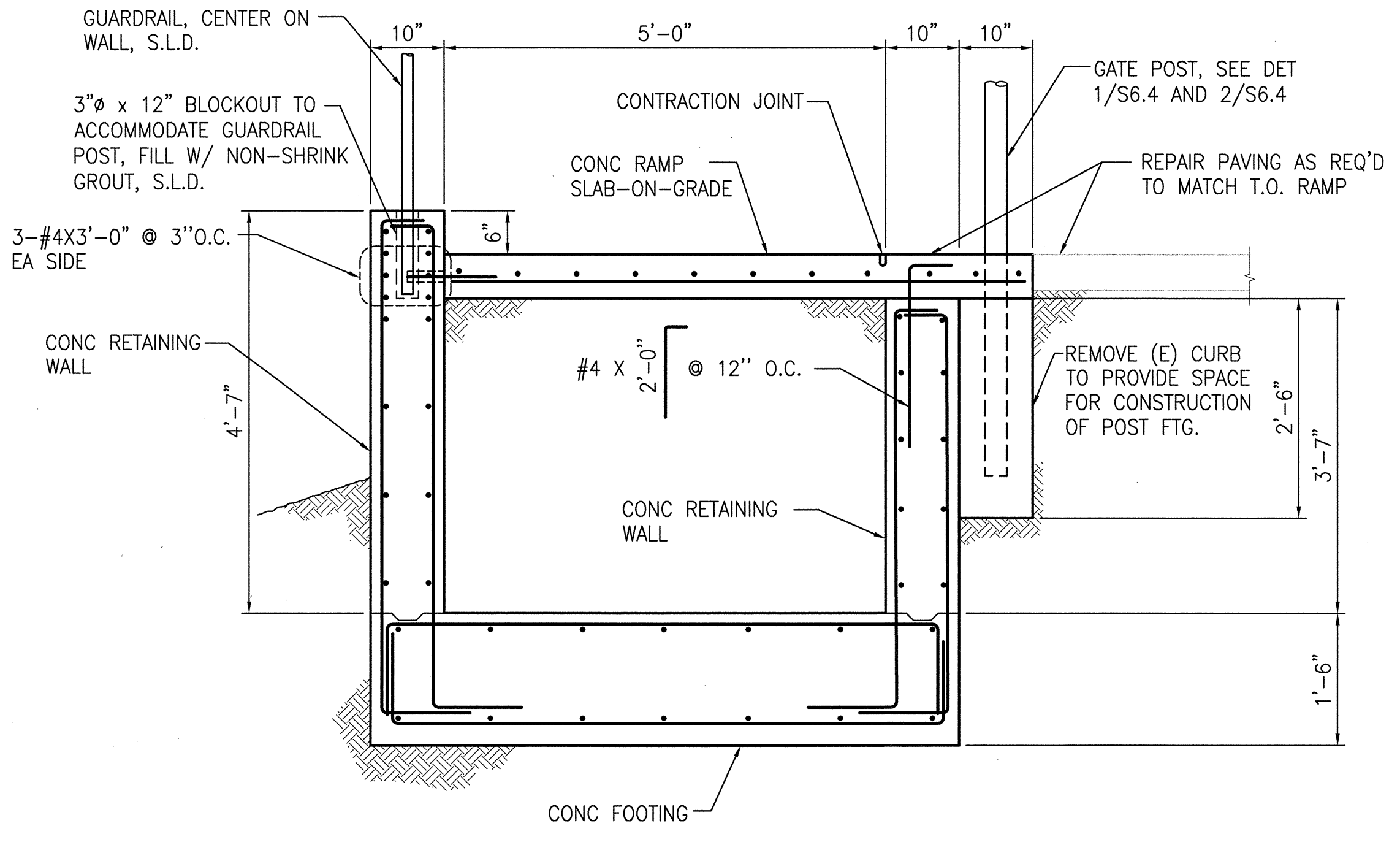
No.	Date	Revisions

Section Head T. LEUNG
Proj. Mgr. M. YEE
Proj. Arch. T. LEUNG
Drawn
Date SEPTEMBER 2012
Phase PERMIT SET



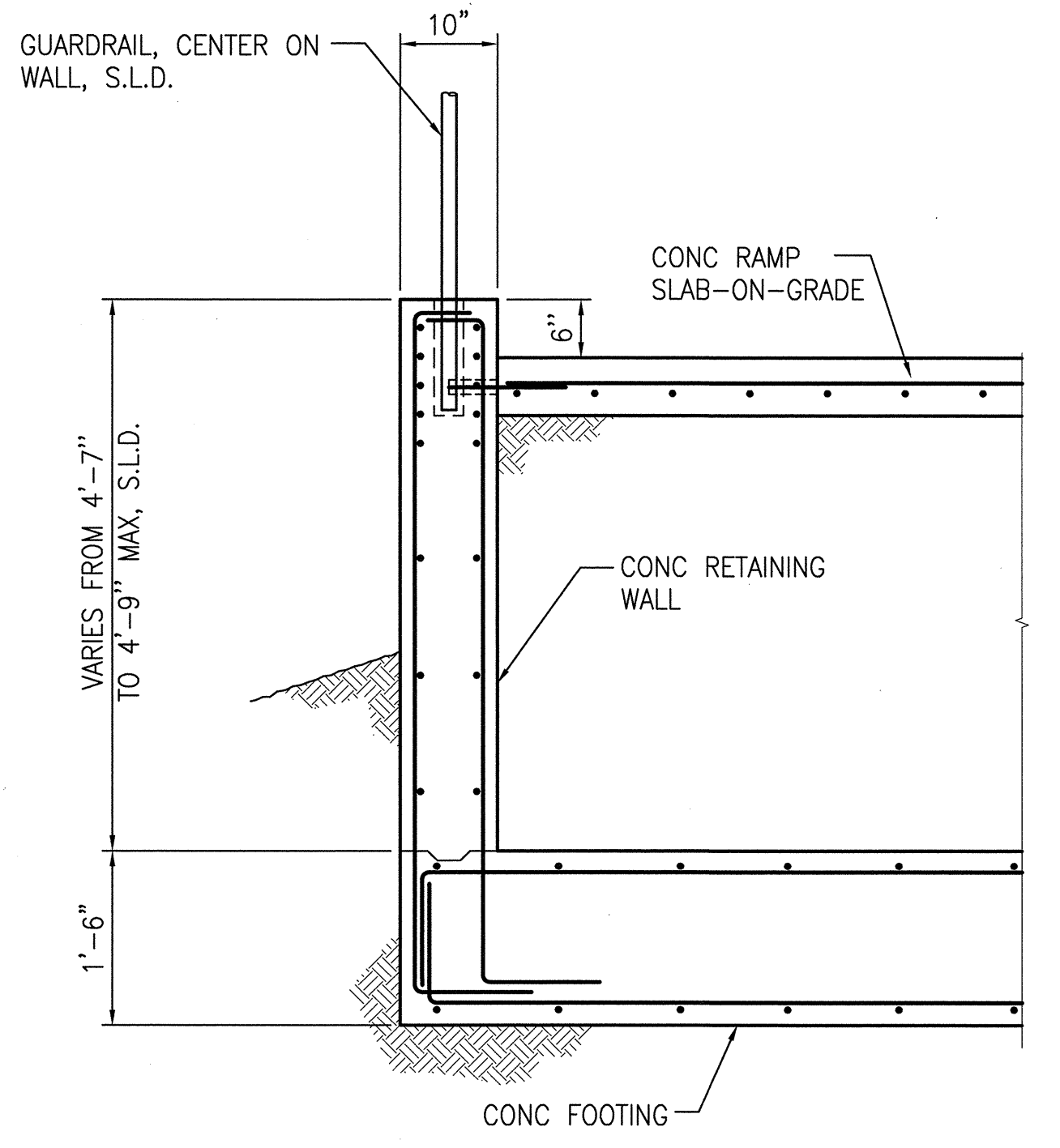
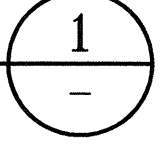
Drawing Title
**RETAINING WALLS
DETAILS**

Sheet No. **S6.3**
Scale AS NOTED
Job No. 3092V-2



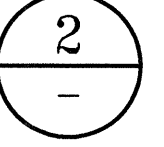
NOTE:
1. FOR INFO NOT SHOWN OR NOTED, SEE SECTION 3/6.2.
2. ALL EXPOSED STEEL SHALL BE HOT-DIPPED GALVANIZED.

SECTION
SCALE: 3/4"=1'-0"



NOTE:
1. FOR INFO NOT SHOWN OR NOTED, SEE SECTION 3/6.2 AND 1/-.
2. ALL EXPOSED STEEL SHALL BE HOT-DIPPED GALVANIZED.

SECTION
SCALE: 3/4"=1'-0"



BUILDING DESIGN &
CONSTRUCTION



Architecture • Construction
Tara D. Lamont - Acting Deputy Division Manager
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94102-6028 Fax (415) 5574701


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2008 PARK BOND RESTROOM
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DEPARTMENT OF PUBLIC WORKS
CITY & COUNTY OF SAN FRANCISCO
30 VAN NESS AVENUE, 5TH FLOOR
SAN FRANCISCO, CA 94102-6028

DESIGNED BY:	SL	SL	DATE	09/2012
DRAWN BY:	BH	BH	DATE	09/2012
CHECKED BY:	JC	JC	DATE	09/2012
APPROVED				
 SECTION MANAGER:		DATE: 10/9/12		
DEPUTY DIVISION MANAGER:		DATE: 10/11/12		
DIVISION MANAGER:		DATE: 10/9/12		

BID & CONSTRUCTION

No.	Date	Revisions

Section Head
T. LEUNG
Proj. Mgr.
M. YEE
Proj. Arch.
T. LEUNG
Drawn
Date
SEPTEMBER 2012
Phase
PERMIT SET



Drawing Title

RETAINING WALLS
DETAILS

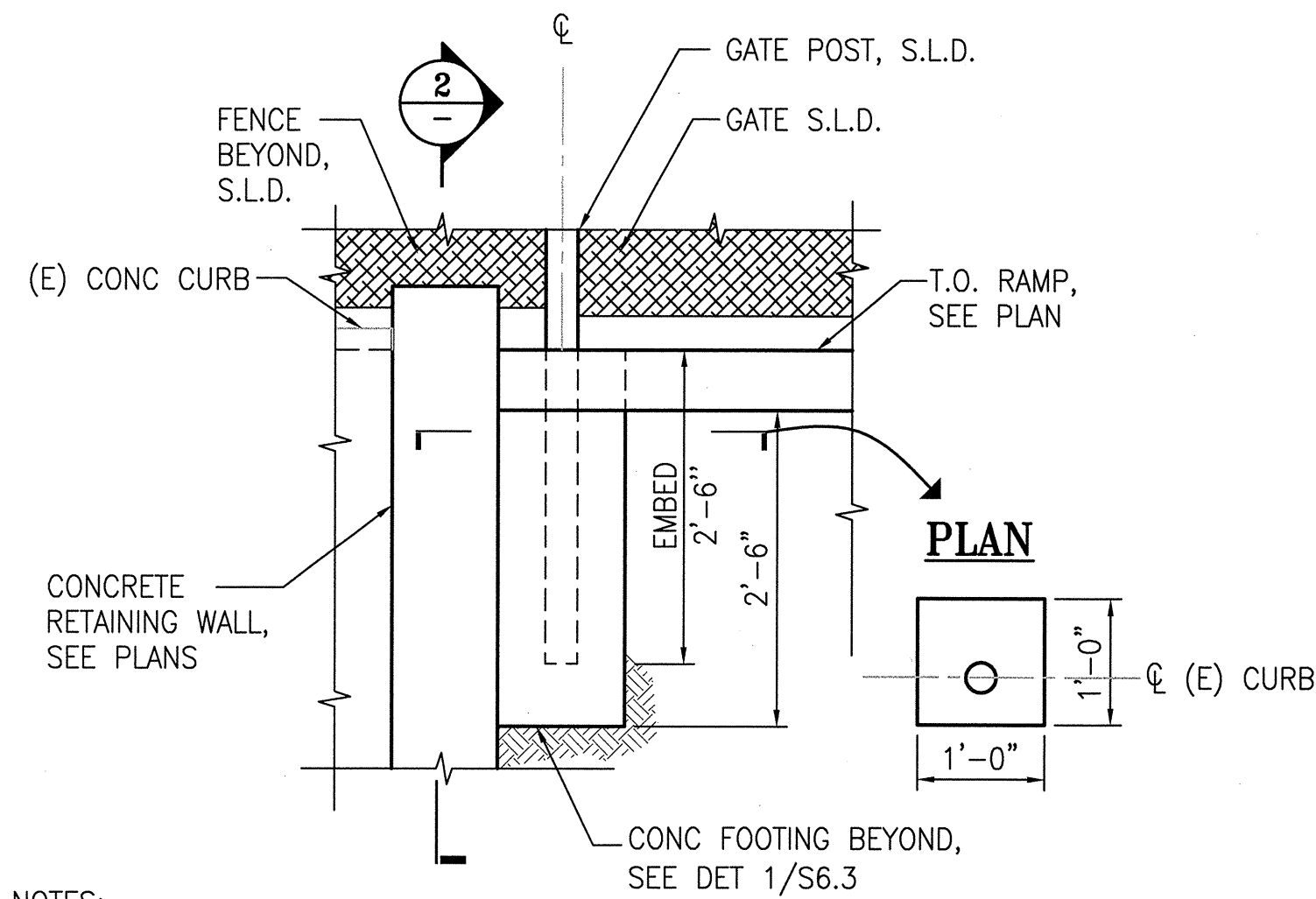
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S6.4

Scale AS NOTED

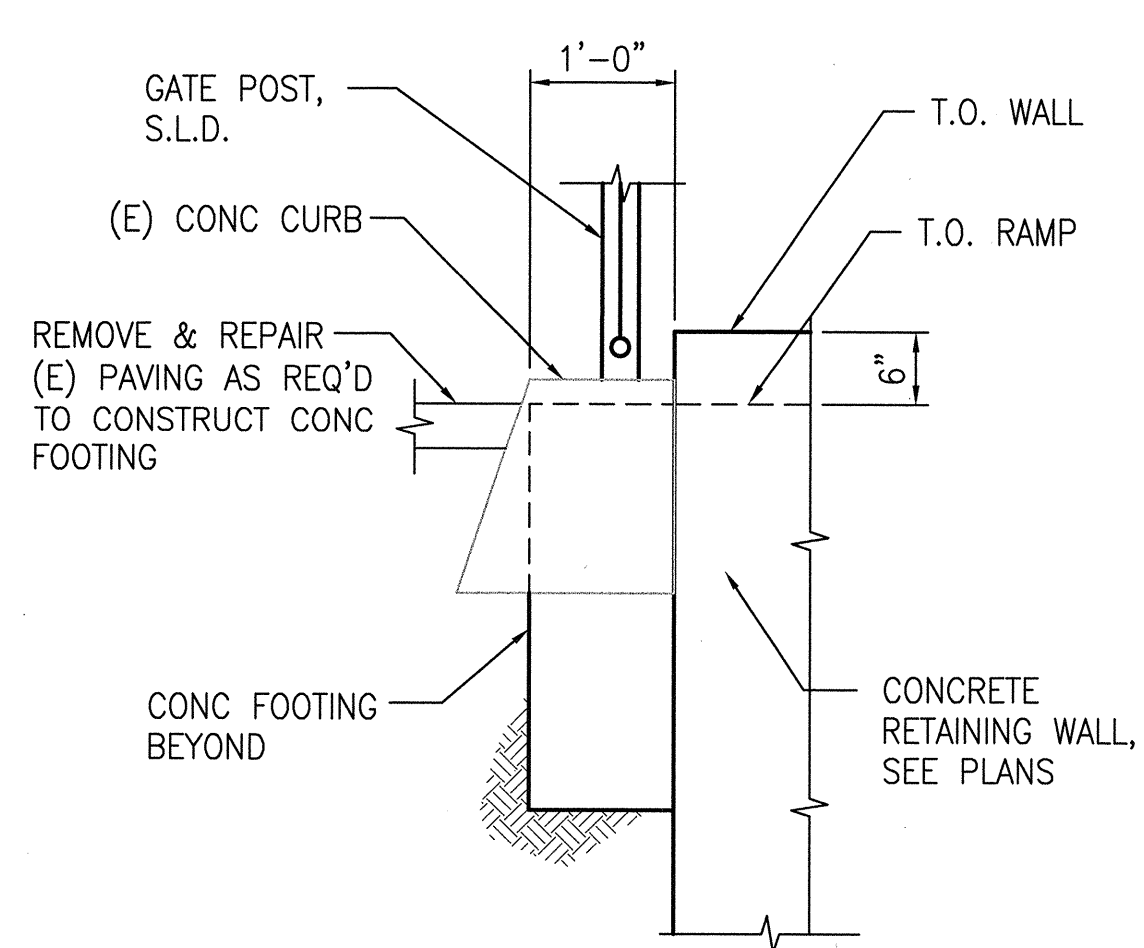
Job No.

3092V-2



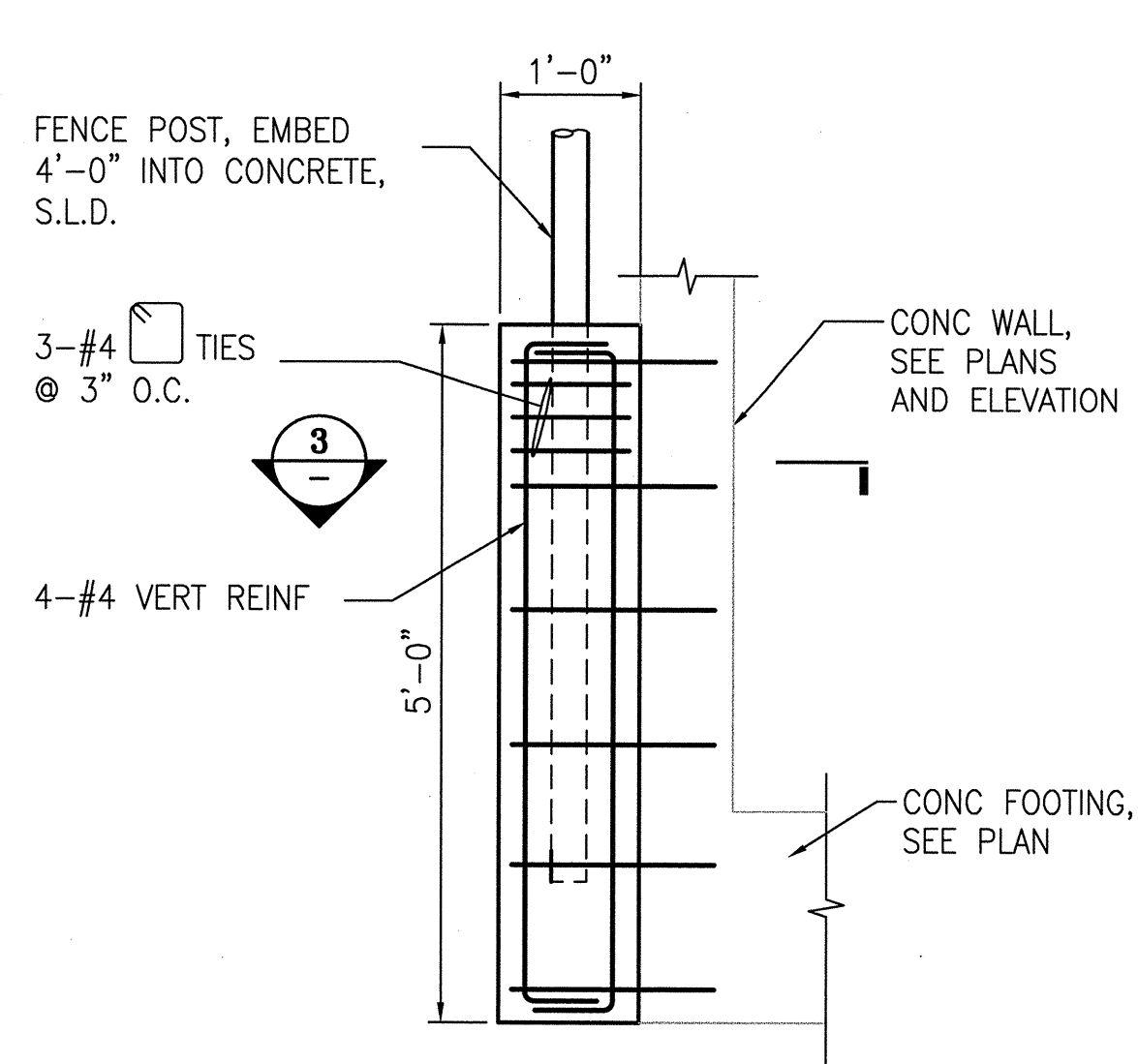
GATE POST DETAIL 1

SCALE: 3/4"=1'-0"



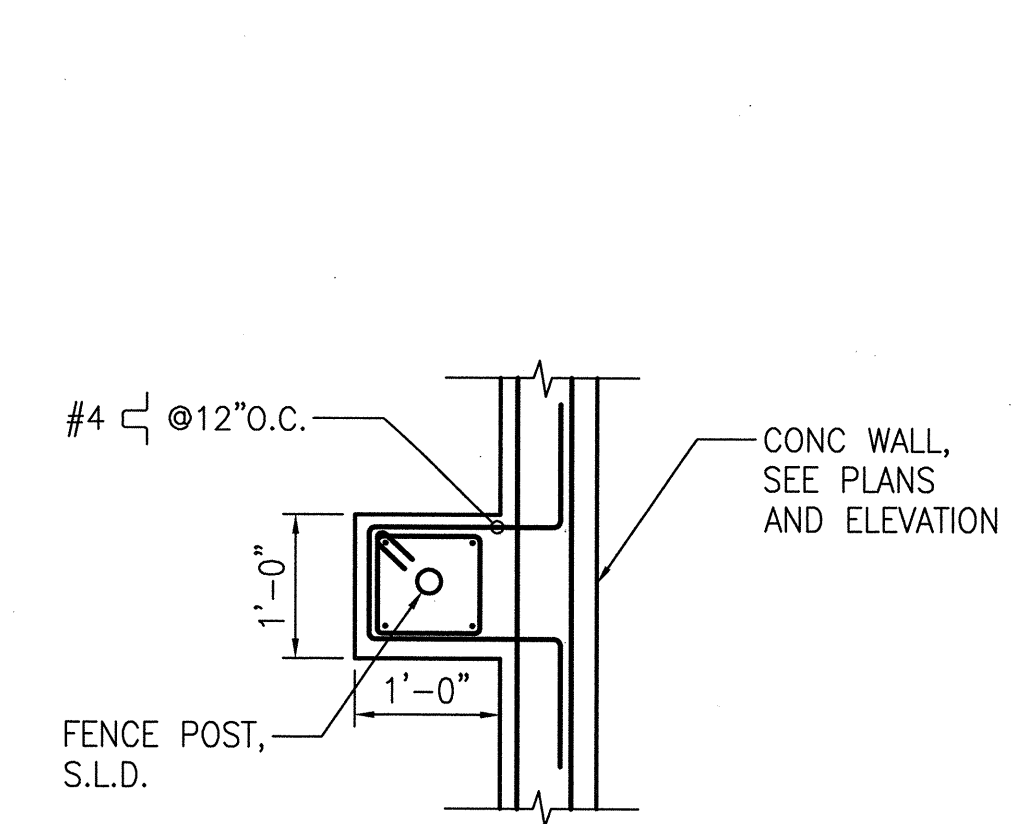
GATE POST DETAIL 2

SCALE: 3/4"=1'-0"



POST FOOTING DETAIL 3

SCALE: 3/4"=1'-0"



POST FOOTING DETAIL 4

SCALE: 3/4"=1'-0"

NOTES:

1. FOR LOCATION OF GATE POST, S.L.D.
2. ALL EXPOSED STEEL SHALL BE HOT-DIPPED GALVANIZED