

IMPROVEMENT NOTES

1. THE STRUCTURAL SECTIONS SHOWN ON THESE PLANS ARE BASED ON R-VALUE TESTS OR MINIMUM STRUCTURAL STANDARDS REQUIRED BY THE CITY...

THIS NOTE WILL NOT APPLY TO THOSE AREAS WHERE GRADING IS MINIMAL AND "R" VALUES CAN BE OBTAINED PRIOR TO PLAN APPROVAL...

- 2. ALL ELECTRICAL, TELEPHONE AND CABLE TELEVISION UTILITIES SHALL BE CONSTRUCTED/CONVERTED TO UNDERGROUND. THE RELOCATION AND/OR UNDERGROUNDING OF EXISTING AND NEW UTILITIES SHALL BE DONE BY THE DEVELOPER OF THE PROPERTY AT NO COST TO THE CITY.
3. ALL UNDERGROUND UTILITIES AND LATERALS SHALL BE INSTALLED BEFORE CONSTRUCTION OF THE CURB AND GUTTER OR SURFACING OF STREETS.
4. A PERMIT SHALL BE OBTAINED FROM THE CITY OF SAN MARCOS FOR ANY EXCAVATION AND/OR CONSTRUCTION WITHIN THE PROPOSED PROJECT AND PUBLIC RIGHT-OF-WAY.

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM NAD'83, ZONE 6, AS DETERMINED LOCALLY BY THE LINE BETWEEN CITY OF SAN MARCOS CONTROL MONUMENT 'SMVCO38'...

SOURCE OF TOPOGRAPHIC MAPPING

THE PLANIMETRIC AND TOPOGRAPHIC FEATURES SHOWN HEREON WERE COMPILED FROM A COMBINATION OF THE AERIAL PHOTOGRAMMETRIC MAPPING PREPARED BY PHOTO GEODETIC CORPORATION DATED FEBRUARY 12, 1998...

CAMPUS POINTE MEDICAL CENTRE IMPROVEMENT PLANS

VALLECITOS WATER DISTRICT GENERAL NOTES

- 1. ALL WATER AND SEWER LINES SHALL BE INSTALLED ACCORDING TO THE CURRENT STANDARD SPECIFICATIONS, DRAWINGS AND APPROVED MATERAIL LIST OF THE VALLECITOS WATER DISTRICT FOR THE CONSTRUCTION OF WATER AND SEWER FACILITIES.
2. WATER LINES SHALL HAVE A MINIMUM COVER OF 36 INCHES. SEWER LINES SHALL HAVE A MINIMUM COVER OF 5 FEET.
3. CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES 48 HOURS PRIOR TO CONSTRUCTION, A VALID UNDERGROUND SERVICE ALERT TICKET SHALL BE ON FILE.

LEGAL DESCRIPTION:

PARCEL A: A.P.N. # 220-201-02 ALL OF LOT TWENTY TWO (22) AND LOT TWENTY ONE (21), EXCEPT THE WESTELY 100 FEET THEREOF...

GEOTECHNICAL ENGINEER'S DECLARATION:

THESE PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED RELATIVE TO GEOTECHNICAL ASPECTS OF THE PLANS AND HAVE BEEN FOUND TO BE IN CONFORMANCE WITH INTENTIONS OF THE FINDINGS AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT BY ROBERT PRATER ASSOCIATES, WM. D. HESPELER, G.E., PROJECT NUMBER 546-6 & 05-29...

WM. DAVID HESPELER, G.E., REG. 396 REGISTRATION EXPIRES, MARCH 31, 2010

OWNER/PERMITTEE:

CARMEL, LLC c/o ELKINS-ZIRPOLO, INC Attn: ALEXANDER ZIRPOLO 2150 FIRST AVENUE SAN DIEGO, CA 92101 (619)239-3434

I HEREBY CERTIFY THAT A REGISTERED SOILS ENGINEER OR GEOLOGIST HAS BEEN OR WILL BE RETAINED TO SUPERVISE OVER ALL GRADING ACTIVITY AND ADVISE ON THE COMPACTION AND STABILITY OF THE SITE.



WORK TO BE DONE:

- THE GRADING CONSISTS OF THE FOLLOWING WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING DOCUMENTS:
1) SAN DIEGO AREA REGIONAL STANDARD DRAWINGS
2) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ('GREEN BOOK')
3) CITY OF SAN MARCOS GRADING AND EXCAVATION ORDINANCE

LEGEND

Table with columns: DESCRIPTION, STD. DWG., SYMBOL, QUANTITY. Lists items like PROPERTY LINE/RIGHT OF WAY, EXISTING SLOPE, EXISTING CONTOUR, EXISTING SPOT ELEVATION, etc.

SITE ADDRESS:

337 EAST CARMEL STREET SAN MARCOS, CA 92069

A.P.N.:

220-201-01 & 02

IMPORTANT NOTICE: Section 4216 of the Government Code requires that a Dig Alert Identification Number be issued before a 'Permit to Excavate' will be valid. For your Dig Alert I.D. Number Call Underground Service Alert at 8-1-1 Two working days before you dig

HYDROLOGY/HYDRAULIC REPORT

A COPY OF THE APPROVED HYDROLOGY/HYDRAULIC STUDY FOR THIS PROJECT IS ON FILE WITH THE CITY OF SAN MARCOS ENGINEERING DIVISION. THIS REPORT IS TITLED 'HYDROLOGY/HYDRAULICS' STUDY FOR PROPOSED MEDICAL OFFICE BUILDING, DATED MAY 23, 2008...

DECLARATION OF ENGINEER OF WORK (VALLECITOS WATER DISTRICT):

I HEREBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THESE PLANS COMPLIES WITH PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE OF THE DESIGN OF THESE IMPROVEMENTS, I ASSUME FULL RESPONSIBLE CHARGE FOR SUCH DESIGN...

RICHARD G. LANG, R.C.E. 39016 DATE REGISTRATION EXPIRES, MARCH 31, 2009

DECLARATION OF RESPONSIBLE CHARGE (CITY OF SAN MARCOS):

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN MARCOS IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR THIS PROJECT.

ENGINEER OF WORK:

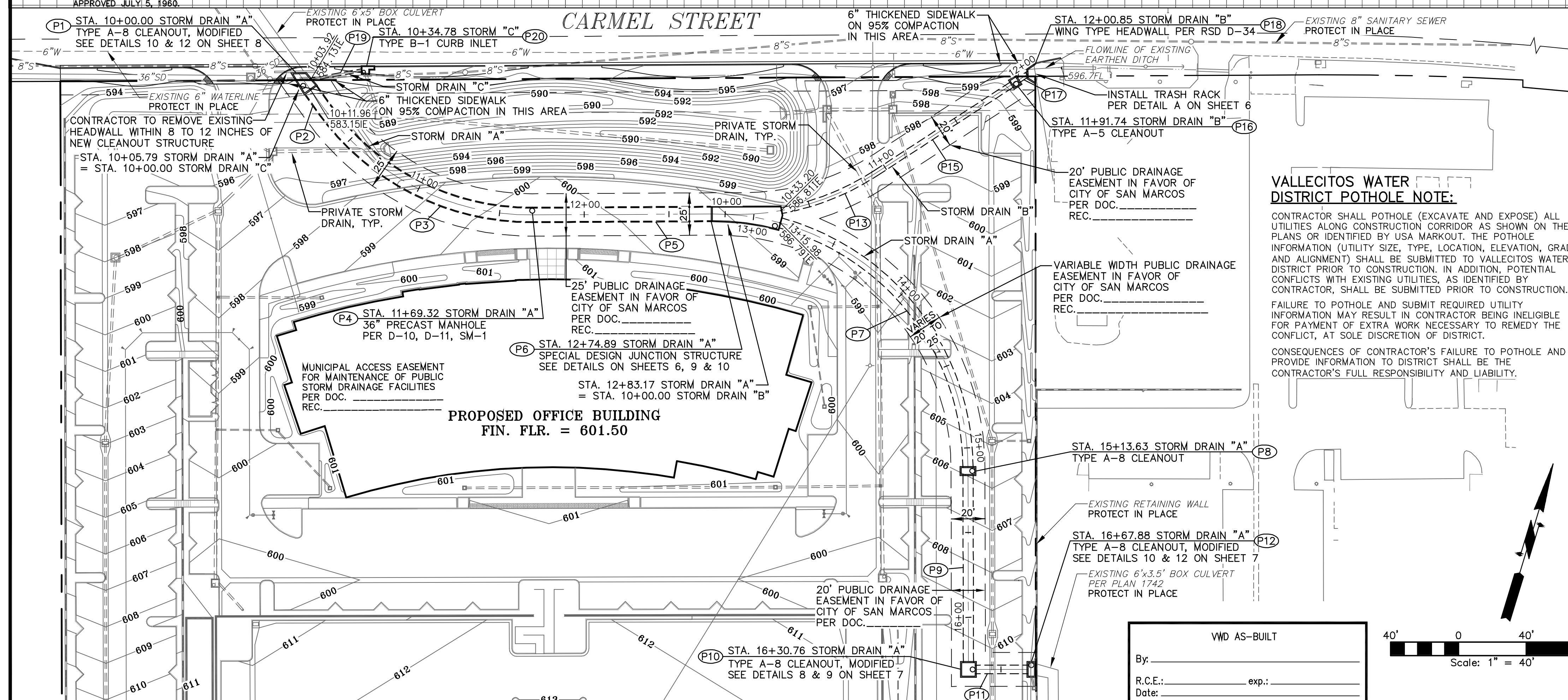
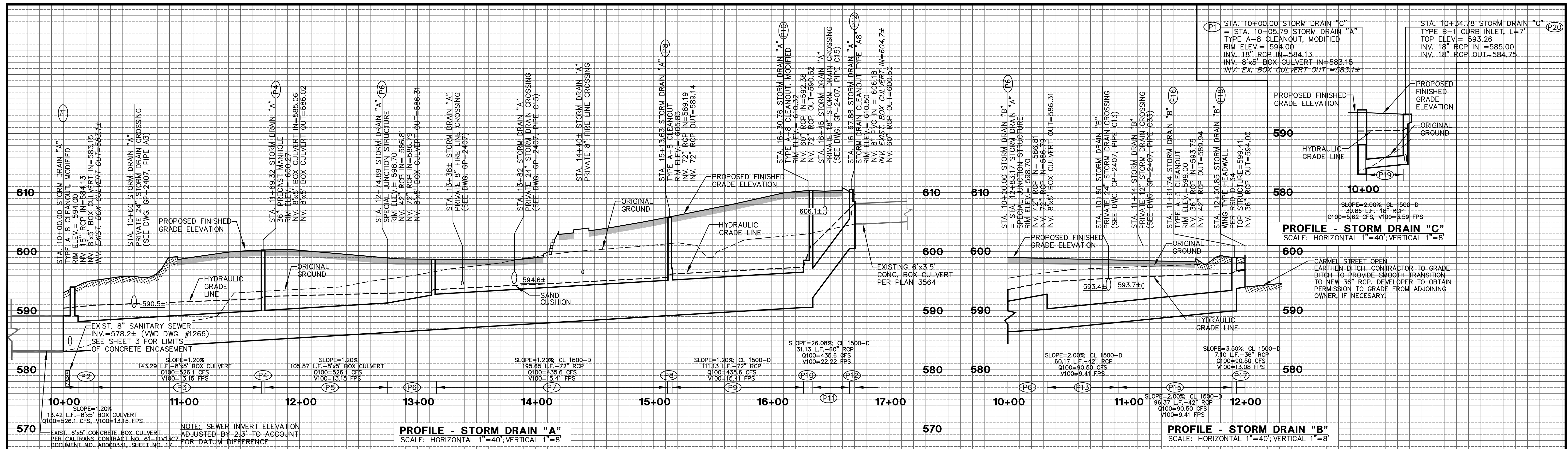
RICHARD G. LANG, R.C.E. 39016 DATE REGISTRATION EXPIRES, MARCH 31, 2009

LANG ENGINEERING COMPANY 6110 INNOVATION WAY CARLSBAD, CA 92009 (760)692-1950



-LANG- engineering co. Consulting Engineers Land Planners 6110 INNOVATION WAY CARLSBAD, CALIFORNIA 92009

Summary table with columns: SAN MARCOS FIRE DEPARTMENT, VALLECITOS WATER DISTRICT, ENGINEER OF WORK, CITY APPROVED CHANGES, RECOMMENDED FOR APPROVAL, APPROVED FOR CONSTRUCTION, BENCH MARK, CITY OF SAN MARCOS ENGINEERING DIVISION, City Drawing No. IP-4783



NO.	BRG./RAD.	DELTA	SLOPE	LENGTH	COMMENTS
(P2)	S52°33'23"E		1.20%	13.42'	8"x5" BOX
(P3)	R=150.00'	54°43'54"	1.20%	143.29'	8"x5" BOX
(P5)	N72°42'43"E		1.20%	105.57'	8"x5" BOX
(P7)	R=150.00'	74°43'58"	1.20%	195.65'	72" RCP
(P9)	S170°36'E		1.20%	111.13'	72" RCP
(P11)	N72°57'25"E		26.08%	31.13'	60" RCP

NO.	COMMENTS
(P1)	TYPE A-8 CLEANOUT, MODIFIED; RIM ELEV.=594.00 INV. 18" RCP IN = 584.13 INV. 8"x5" BOX CULVERT IN = 583.15 INV. EXIST. 6"x3.5" BOX CULVERT OUT = 583.1±
(P4)	36" PRECAST MANHOLE, RIM ELEV.=600.27 INV. 8"x5" BOX CULVERT IN = 585.06 INV. 8"x5" BOX CULVERT OUT = 585.02
(P6)	SPECIAL JUNCTION STRUCTURE RIM ELEV. 598.70 INV. 42" RCP IN = 586.81 INV. 72" RCP IN = 586.79 INV. 8"x5" BOX CULVERT OUT = 586.31
(P8)	TYPE A-8 CLEANOUT RIM ELEV. = 605.83 INV. 72" RCP IN = 589.19 INV. 72" RCP OUT = 598.14
(P10)	TYPE A-8 CLEANOUT, MODIFIED RIM ELEV. = 610.32 INV. 60" RCP IN=592.38 INV. 72" RCP OUT=590.52
(P12)	TYPE A-8 CLEANOUT, MODIFIED RIM ELEV.=610.50 INV. 8" PVC IN=606.18 (DWG. GP-2407, PIPE C43) INV. EXIST. 6"x3.5" BOX CULVERT IN = 604.7± INV. 60" RCP OUT = 600.50

NO.	BRG./RAD.	DELTA	SLOPE	LENGTH	COMMENTS
(P13)	R=150.00'	22°58'57"	2.00%	60.17'	42" RCP
(P15)	N39°56'06"E		2.00%	96.37'	42" RCP
(P17)	N39°56'06"E		3.50%	7.10'	36" RCP

NO.	BRG./RAD.	DELTA	SLOPE	LENGTH	COMMENTS
(P19)	N62°40'53"E		2.00%	30.86'	18" RCP

NO.	COMMENTS
(P16)	TYPE A-5 CLEANOUT; RIM ELEV.=599.00 INV. 36" RCP IN = 593.75 INV. 42" RCP OUT = 589.94
(P18)	WING TYPE HEADWALL PER RSD D-34 TOP STRUCTURE = 599.41 INV. 36" RCP OUT = 594.00 INSTALL TRASH RACK PER DETAIL A ON SHEET 6

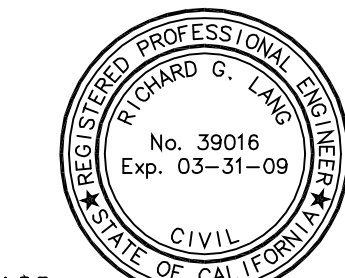
NO.	COMMENTS
(P20)	TYPE B-1 CURB INLET; L = 7' TOP ELEV.=593.26 INV. 18" RCP IN=585.00 (DWG. GP-2407, PIPE B1) INV. 18" RCP OUT = 584.75 INSTALL 18" DRAINAGE GATE, MODEL No. F-10f BY WATERMAN INDUSTRIES, INC. ON PIPE B1 OUTFALL

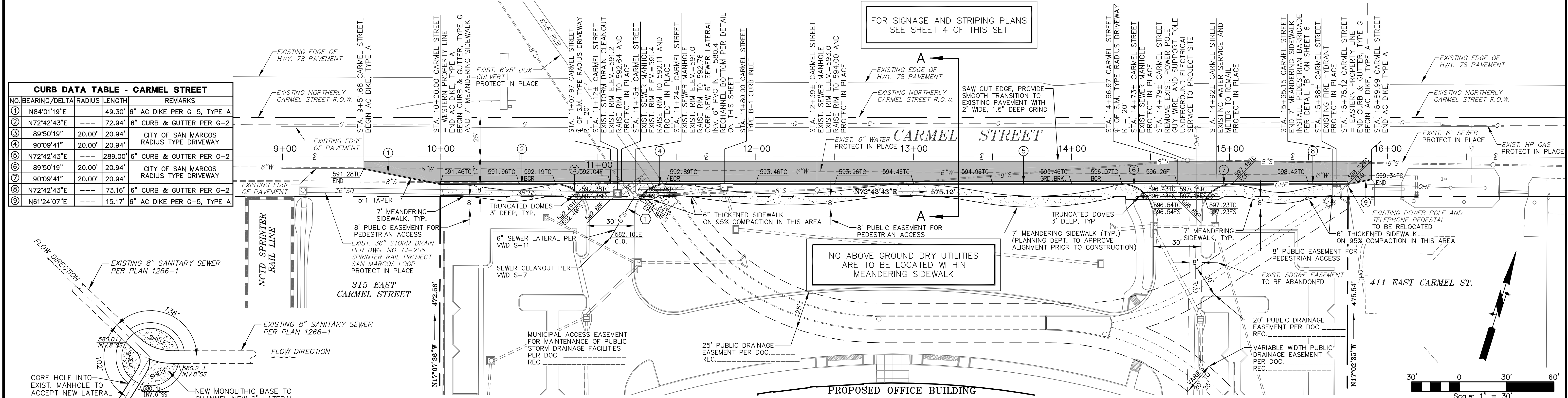
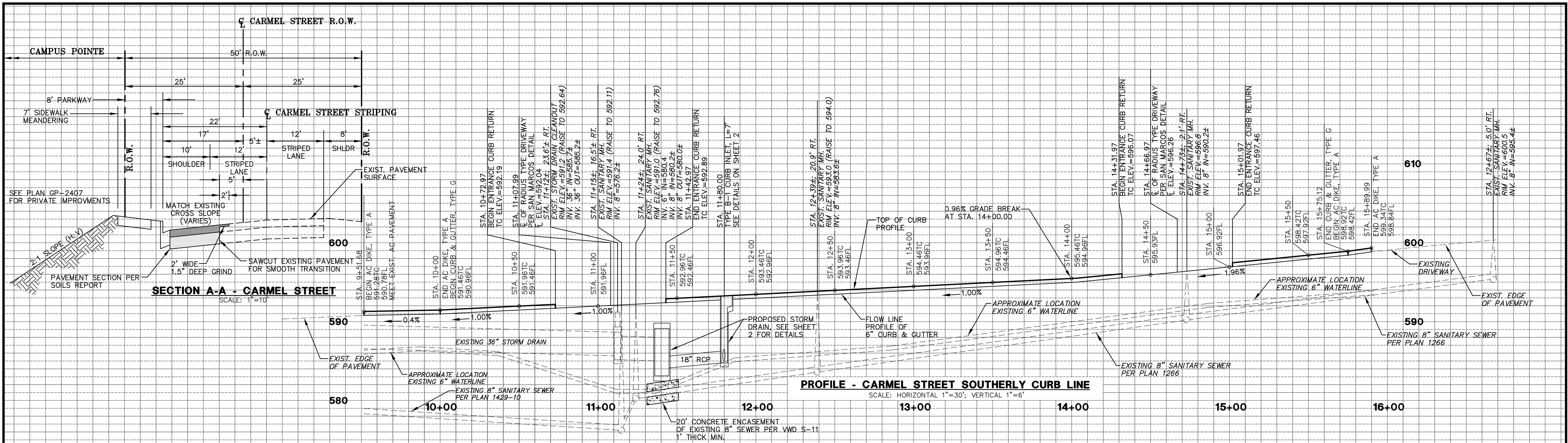
VALLECITOS WATER DISTRICT POTHOLE NOTE:
CONTRACTOR SHALL POTHOLE (EXCAVATE AND EXPOSE) ALL UTILITIES ALONG CONSTRUCTION CORRIDOR AS SHOWN ON THE PLANS OR IDENTIFIED BY USA MARKOUT. THE POTHOLE INFORMATION (UTILITY SIZE, TYPE, LOCATION, ELEVATION, GRADE AND ALIGNMENT) SHALL BE SUBMITTED TO VALLECITOS WATER DISTRICT PRIOR TO CONSTRUCTION. IN ADDITION, POTENTIAL CONFLICTS WITH EXISTING UTILITIES, AS IDENTIFIED BY CONTRACTOR, SHALL BE SUBMITTED PRIOR TO CONSTRUCTION. FAILURE TO POTHOLE AND SUBMIT REQUIRED UTILITY INFORMATION MAY RESULT IN CONTRACTOR BEING INELIGIBLE FOR PAYMENT OF EXTRA WORK NECESSARY TO REMEDY THE CONFLICT, AT SOLE DISCRETION OF DISTRICT. CONSEQUENCES OF CONTRACTOR'S FAILURE TO POTHOLE AND PROVIDE INFORMATION TO DISTRICT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY AND LIABILITY.

NOTE: ALL STORM DRAIN STRUCTURES SHALL HAVE SHAPED INVERTS POURED IN PLACE PER (P) (S)

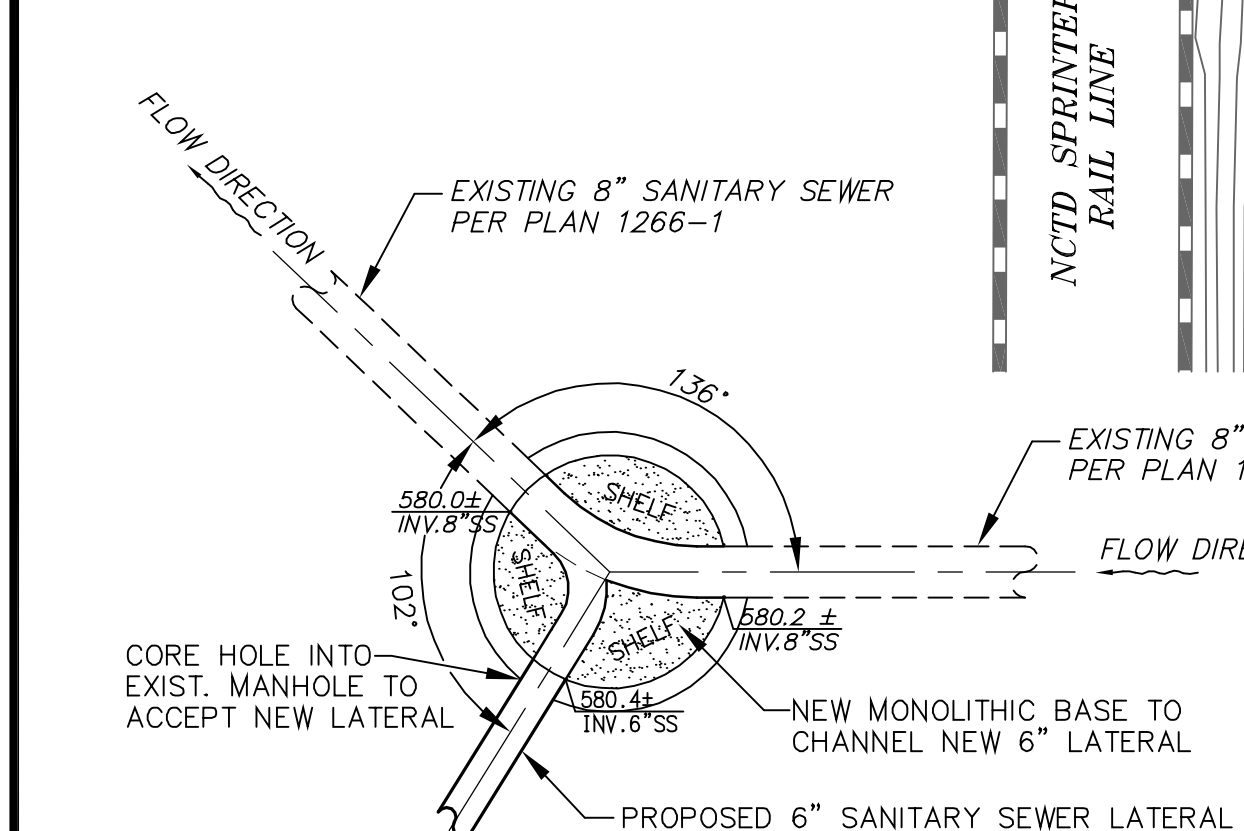
NOTE: ALL STORM DRAIN STRUCTURES SHALL HAVE SHAPED INVERTS POURED IN PLACE PER (P) (S)

SAN MARCOS FIRE DEPARTMENT		VALLECITOS WATER DISTRICT		ENGINEER OF WORK		CITY APPROVED CHANGES		RECOMMENDED FOR APPROVAL		APPROVED FOR CONSTRUCTION		BENCH MARK		CITY OF SAN MARCOS ENGINEERING DIVISION		City Drawing No.	
By: Fire Marshal		By: Richard G. Lana, P.E.		Name: Richard G. Lana, P.E.		No. Description		By: Sassan Haghgo, Deputy City Engineer		By: Michael D. Edwards, City Engineer		Description: Caltrans Monument #8-12.9 1988 CPH 2 1/2" Brass disc (P1) #130 on Record of Survey 139201		IMPROVEMENT PLANS FOR: SDP-06-318 MF 1599 TPM 651		IP-4783	
Date: 03/31/09		Date: 03/31/09		R.C.E.: 39016 exp: 03/31/09		App'd By/Date		R.C.E.: 42201 exp: 03/31/2010		Date: 06/30/2010		Location: Brass disc in sidewalk of a point 66.7' south of the southwest corner of the Twin Oaks Valley Road bridge over Highway 78		CAMPUS POINTE MEDICAL CENTRE PUBLIC STORM DRAIN		Sheet 2 of 12	
												Elev: 581.91 Datum: MSL		-LANG- engineering co. Consulting Engineers, Land Planners		MAXIMO WO# 0815639	





CURB DATA TABLE - CARMEL STREET				
NO.	BEARING/Delta	RADIUS	LENGTH	REMARKS
1	N84°01'19"E	---	49.30'	6" AC DIKE PER G-5, TYPE A
2	N72°42'43"E	---	72.94'	6" CURB & GUTTER PER G-2
3	89°50'19"	20.00'	20.94'	CITY OF SAN MARCOS RADIUS TYPE DRIVEWAY
4	90°09'41"	20.00'	20.94'	CITY OF SAN MARCOS RADIUS TYPE DRIVEWAY
5	N72°42'43"E	---	289.00'	6" CURB & GUTTER PER G-2
6	89°50'19"	20.00'	20.94'	CITY OF SAN MARCOS RADIUS TYPE DRIVEWAY
7	90°09'41"	20.00'	20.94'	CITY OF SAN MARCOS RADIUS TYPE DRIVEWAY
8	N72°42'43"E	---	73.16'	6" CURB & GUTTER PER G-2
9	N61°24'07"E	---	16.17'	6" AC DIKE PER G-5, TYPE A



VALLECITOS WATER DISTRICT POTHOLE NOTE:
 CONTRACTOR SHALL POTHOLE (EXCAVATE AND EXPOSE) ALL UTILITIES ALONG CONSTRUCTION CORRIDOR AS SHOWN ON THE PLANS OR IDENTIFIED BY USA MARKOUT. THE POTHOLE INFORMATION (UTILITY SIZE, TYPE, LOCATION, ELEVATION, GRADE AND ALIGNMENT) SHALL BE SUBMITTED TO VALLECITOS WATER DISTRICT PRIOR TO CONSTRUCTION. IN ADDITION, POTENTIAL CONFLICTS WITH EXISTING UTILITIES, AS IDENTIFIED BY CONTRACTOR, SHALL BE SUBMITTED PRIOR TO CONSTRUCTION.
 FAILURE TO POTHOLE AND SUBMIT REQUIRED UTILITY INFORMATION MAY RESULT IN CONTRACTOR BEING INELIGIBLE FOR PAYMENT OF EXTRA WORK NECESSARY TO REMEDY THE CONFLICT, AT SOLE DISCRETION OF DISTRICT.
 CONSEQUENCES OF CONTRACTOR'S FAILURE TO POTHOLE AND PROVIDE INFORMATION TO DISTRICT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY AND LIABILITY.

CARMEL STREET IMPROVEMENT PLAN
 SCALE: 1" = 30'

PRIVATE LATERAL SEWER TABLE			
NO.	LENGTH	SLOPE	BEARING
1	29.70'	5.72%	S12°52'24"W

NOTE:
 CENTERLINE STATIONING SHOWN HEREON IS FOR THIS PROJECT ONLY.

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SAN MARCOS ENGINEERING DIVISION	City Drawing No.
By: Fire Marshal	By:	By: Richard G. Lana, P.E. R.C.E.: 39016 exp: 03/31/09	No. Description App'd By Date	By: Sassan Haghgo, Deputy City Engineer R.C.E.: 42201 exp: 03/31/2010	By: Michael D. Edwards, City Engineer R.C.E.: 32977 exp: 06/30/2010	Description: Caltrans Monument "78-12.9 1988 CD" 2 1/4" brass disc (PT #1330 on Record of Survey 13928) located in sidewalk at a point 65.7' south of the southwest corner of the Twin Oaks Valley Road bridge over Highway 78. Record From: Record of Survey 13928 Elev.: 581.91 Datum: MSL	IMPROVEMENT PLANS FOR: SDP-06-318 MF 1599 TPM 651	IP-4783
Date:	Date:	Date:	Date:	Date:	Date:		6110 INNOVATION WAY CARLSBAD, CALIFORNIA 92009 (760)692-1950 FAX(760)692-1951 © 2008 LANG ENGINEERING COMPANY	Sheet 3 of 12

GENERAL TRAFFIC NOTES

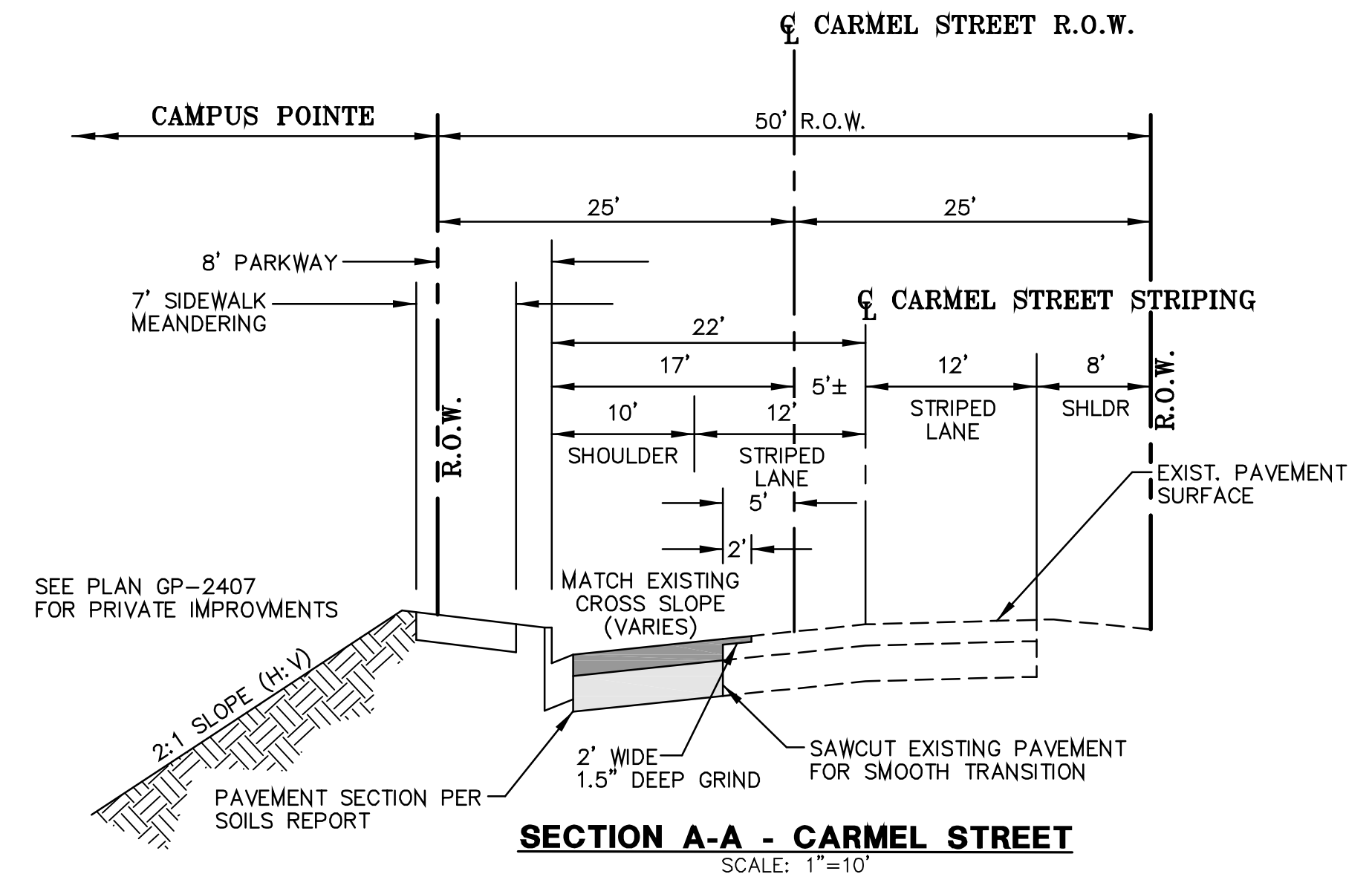
- A TRAFFIC CONTROL PLAN, INCLUDING THE LAYOUT OF CONSTRUCTION WARNING AND DETOUR SIGNS, SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR APPROVAL A MINIMUM OF 72 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. TRAFFIC CONTROL SHALL BE IMPLEMENTED BEFORE ANY WORK IS STARTED.
- BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND FACILITIES OF THE FOLLOWING UTILITIES BY CONTRACTING THE UNDERGROUND SERVICE ALERT AT 1-800-227-2600: AT&T VALLECITOS WATER DISTRICT SAN DIEGO GAS & ELECTRIC COX COMMUNICATIONS

TRAFFIC SIGNING NOTES

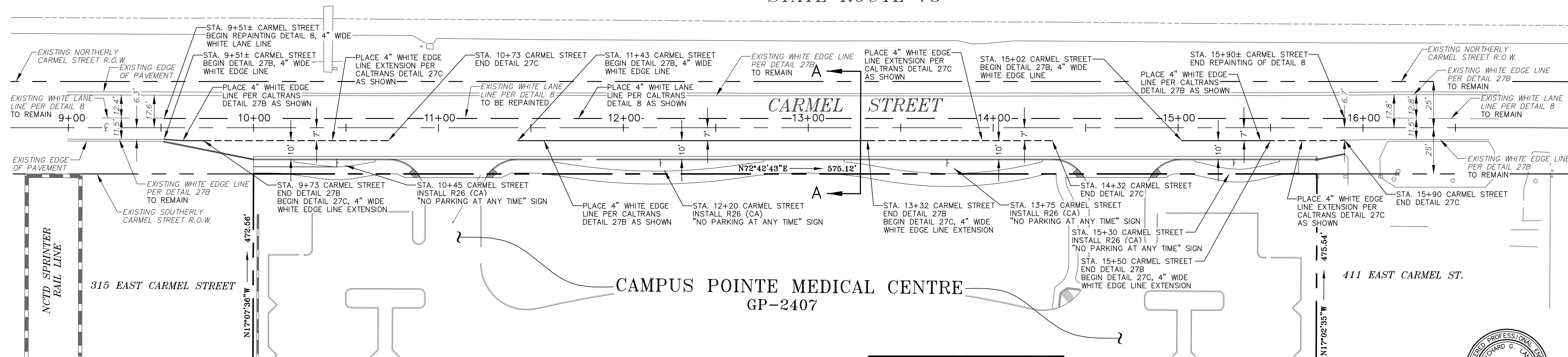
- SIGNING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBJECT TO CITY OF SAN MARCOS PUBLIC WORKS DEPARTMENT APPROVAL. ALL SIGNS SHALL CONFORM TO THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- SIGN POSTS:
 - SHALL BE TUBULAR BREAK-AWAY POSTS (TELSPAR OR UNISTRUT), 1 3/4" GALVANIZED STEEL OR EQUAL;
 - SHALL HAVE SEVEN FEET (7') (2.13 M) VERTICAL CLEARANCE ABOVE FINISHED GRADE FOR ONE SIGN MOUNTING OR SIX FEET (6') (1.83 M) FOR A TWO SIGN MOUNTING;
 - SHALL HAVE A MAXIMUM OF TWO SIGNS (WITH DIFFERENT MEANINGS) ON EACH SIDE (MAXIMUM NUMBER OF SIGNS ON BOTH SIDES SHALL NOT EXCEED FOUR).
 - SHALL BE ANCHORED A MINIMUM OF TWENTY-FOUR INCHES (24") (61 CM) BELOW FINISHED GRADE IN UNDISTURBED SOIL AND BACKFILLED WITH POST HOLE CONCRETE [IF IN SIDEWALK AREA, BACKFILL SHALL BE FOUR INCHES (4") (10.2 CM) OF CONCRETE ABOVE TWENTY INCHES (20") (50.8 CM) OF SAND];
 - LOCATED IN THE MEDIAN, SHALL BE SET IN AN EIGHT INCH DIAMETER (8" ϕ) BY TWENTY-FOUR INCH (24") (8" ϕ x 24") DEEP (20.3 CM ϕ x 61 CM) PVC SLEEVE AND BACKFILLED WITH SAND TO THE TOP OF THE SLEEVE;
 - SHALL BE NEW (USED POSTS ARE PROHIBITED ON NEW SIGN INSTALLATIONS);
 - SHALL BE REJECTED IF DAMAGED, BENT OR SPLINTERED;
 - LOCATIONS SHALL BE MARKED BY CONTRACTOR AND APPROVED BY THE PUBLIC WORKS DIRECTOR OR HIS ASSIGNEE PRIOR TO FINAL PLACEMENT.
 - SHALL HAVE A MINIMUM OF FORTY-EIGHT INCHES (48") (121.9 CM) HORIZONTAL DISTANCE BETWEEN POST AND BACK EDGE OF SIDEWALK (ADA SPECIFICATION) FOR WHEEL CHAIR ACCESS.
 - SHALL BE ALUMINUM POSTS FOR STREET NAME SIGNS * WOOD POSTS USED FOR CLASS II OR III BARRICADES SHALL BE PAINTED WHITE.
- SIGNS:
 - SHALL BE ALUMINUM AND HAVE REFLECTIVITY FACING AND MESSAGE WITH AN HIGH INTENSITY DESIGN OR BETTER;
 - SHALL HAVE A MINIMUM OF TWELVE INCHES (12") (30.5 CM) HORIZONTAL CLEARANCE BEHIND THE CURB FACE;
 - FORTY-EIGHT INCHES (48") (121.9 CM) WIDE SHALL BE STRAPPED ON THE BACK OF THE SIGN WITH SIGN STRAP HARDWARE;
 - LARGER THAN FORTY-EIGHT INCHES (48") (121.9 CM) WIDE SHALL BE SET ON TWO POSTS;
 - SHALL BE MOUNTED ON:
 - NEW OR EXISTING STREET LIGHT STANDARDS SHALL USE A 3/4" (1.91CM) "BAND IT" STEEL STRAPPING WITH FASTENERS;
 - ALUMINUM POSTS SHALL USE 2 7/8" (7.3 CM) POST CAPS FOR SINGLE SIGNS AND 2 7/8" (7.3 CM) CROSS SADDLE FOR TWO SIGNS;
 - SIGNS MOUNTED ON POWER/UTILITY POLES PROHIBITED.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF SAN MARCOS' PUBLIC WORKS DEPARTMENT UPON COMPLETION OF SIGNING.
- EXISTING SIGNS SHALL BE SALVAGED AND DELIVERED TO THE PUBLIC WORKS DEPARTMENT LOCATED AT 201 MATA WAY.
- STOP SIGN INSTALLATION SHALL INCLUDE THE SIGN, POST, LIMIT LINE, STOP LEGEND AND A MINIMUM OF 50' OF DOUBLE YELLOW CENTERLINE STRIPING UNLESS ADJACENT TO MEDIAN.
- NO OUTLET SIGNS SHALL BE POSTED WHERE THERE IS NO LEGAL OUTLET WHEN THE STREET EXCEEDS 800 FEET OR WHEN THE TERMINUS OF THE ROADWAY IS NOT VISIBLE FROM THE INTERSECTION.
- SPEED LIMIT SIGN INSTALLATION SHALL INCLUDE PAVEMENT LEGENDS.

TRAFFIC STRIPING NOTES

- ALL STRIPING AND PAVEMENT MARKINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE APPROPRIATE DETAILS IN THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- FOR ALL REFERENCES TO DETAILS OR FIGURES SHOWN HEREON, REFER TO THE LATEST EDITION OF THE CALTRANS STANDARD PLANS A20A - A20D AND A24A - A24E. TYPE VI LANE DROP ARROWS PER A24A SHALL BE USED IN SAN MARCOS.
- ALL LEGEND STENCILS SHALL MATCH THE STENCILS CURRENTLY USED BY THE CITY OF SAN MARCOS PUBLIC WORKS DEPARTMENT. THESE STENCILS SHALL INCLUDE, BUT NOT LIMITED TO THE FOLLOWING: "BIKE LANE", "R X R", "SCHOOL", "SIGNAL AHEAD", "SPEEDS", "STOP", "STOP AHEAD", AND "TURN ARROWS".
- STRIPING ALIGNMENT AND LAYOUT, INCLUDING "TURKEY-TRACKS," SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND IS SUBJECT TO CITY OF SAN MARCOS PUBLIC WORKS DEPARTMENT APPROVAL.
- PAINT SHALL BE APPLIED UNDER SUITABLE WEATHER CONDITIONS AND PER THE PAINT MANUFACTURERS LABEL RECOMMENDATIONS FOR PAVEMENT AND AMBIENT TEMPERATURE REQUIREMENTS. PAINT SHALL NOT BE APPLIED IF RAIN IS FORECASTED WITHIN 24 HOURS.
- THINNING OF PAINT WILL NOT BE ALLOWED.
- SECTION 84-3.02 "MATERIALS" OF THE LATEST EDITION OF THE CALTRANS STANDARD SPECIFICATIONS IS AMENDED TO READ AS FOLLOWS: FOR TRAFFIC STRIPES SHALL CONFORM TO THE FOLLOWING CALTRANS SPECIFICATIONS:
 - RAPID DRY WATER-BORNE, WHITE AND YELLOW 8010-42L-30 OR 8010-61G-10 [LOW VOC (VOLATILE ORGANIC COMPOUND) AND LEAD-BASED PAINTS ARE PROHIBITED].
 - GLASS BEADS SHALL CONFORM TO CALTRANS STANDARD SPECIFICATION NO. 8010-51J-22 (TYPE I - MOISTURE PROOF).
 - GLASS BEADS SHALL BE APPLIED WHEN STRIPING TRAFFIC LINES OR PAINTING LEGENDS.
 - INFORMATION REGARDING TRAFFIC PAINT AND GLASS BEADS MAY BE OBTAINED FROM THE CALTRANS ENGINEERING SERVICE CENTER, 5900 FOLSOM BLVD., SACRAMENTO, CA 95819-4612; (916) 227-7000.
- ALL STRIPING SHALL INCLUDE RAISED PAVEMENT MARKERS (RPMs) PER THE APPROPRIATE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES DETAILS.
 - RAISED PAVEMENT MARKERS (RPMs) SHALL BE CERAMIC OR ABS (ACRYLONITRILE-BUTADIENE-STYRENE) PLASTIC. APPROVED RPM TYPES ARE AS FOLLOWS:
 - TYPE A AND AY CERAMIC - 4" ϕ (10.2 CM ϕ) (WHITE OR YELLOW);
 - 1 - OR 2-WAY REFLECTIVE ABS - 4" x 4" (10.2 CM x 10.2 CM) SQUARE.
 - MINIMUM RPM THICKNESS SHALL BE 15 MILS.
 - RPMs SHALL BE AFFIXED WITH MACHINED APPLIED HOT BITUMEN OR STANDARD SET EPOXY (PART A AND B).
- CONTRACTOR SHALL REMOVE ALL CONFLICTING PAINTED LINES, MARKINGS AND PAVEMENT LEGENDS BY SANDBLASTING. GRINDING MAY BE USED IF EQUIPMENT AND METHODOLOGY IS APPROVED BY THE CITY. SANDBLASTING OR GRINDING DEBRIS SHALL BE REMOVED AS SOON AS POSSIBLE BUT NO LATER THAN BEFORE THE END OF EACH WORK DAY.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF SAN MARCOS' PUBLIC WORKS DEPARTMENT UPON COMPLETION OF STRIPING.
- TWO COATS OF PAINT SHALL BE APPLIED ON NEW SURFACES AND ONE ON EXISTING SURFACES.
- THERMOPLASTIC STRIPING AND PAVEMENT MARKING LEGENDS MAYBE USED WITH PRIOR APPROVAL FROM THE CITY OF SAN MARCOS PUBLIC WORKS DIRECTOR.
- ALL SIGNALIZED INTERSECTIONS SHALL HAVE PEDESTRIAN CROSSWALKS PER CALTRANS. NON-METRIC LEGENDS ON LOAN TO THE CONTRACTOR FROM THE CITY OF SAN MARCOS PUBLIC WORKS DEPARTMENT ARE SUBJECT TO COST RECOVERY CHARGES. THOSE CHARGES WILL INCLUDE THE USE OF LEGENDS PLUS ADMINISTRATIVE FEES. THESE FEES SHALL BE ADMINISTERED BY THE CITY OF SAN MARCOS PUBLIC WORKS DEPARTMENT.
- A MINIMUM OF 100 FEET DOUBLE YELLOW CENTERLINE SHALL BE STRIPED ALONG ALL KNUCKLES AND HORIZONTAL CURVATURES WITH THE RADIUS OF 100 FEET OR LESS.
- ALL CROSSWALKS AND LIMIT LINES AT SIGNALIZED INTERSECTIONS SHALL BE INSTALLED WITH THERMOPLASTIC, UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL DETAIL 40 AND DETAIL 41 WITHIN THE INTERSECTIONS SHALL BE INSTALLED WITH THERMOPLASTIC, UNLESS OTHERWISE NOTED ON THE PLANS.
- PAVEMENT MARKING LEGEND STENCILS SHALL BE CALTRANS STANDARD NON-METRIC "A" BRAND OR CITY APPROVED EQUAL. CONTRACTOR SHALL VERIFY THAT THE STENCILS TO BE USED ARE APPROVED BY THE CITY OF SAN MARCOS PRIOR TO INSTALLATION. CITY STENCILS MAY BE BORROWED BASED ON THE FOLLOWING CONDITIONS:
 - STENCILS BORROWED FROM THE CITY OF SAN MARCOS PUBLIC WORKS DEPARTMENT WILL REQUIRE POSTING A \$200.00 CASH BOND FOR EACH LETTER OR SYMBOL USED.
 - THIS MONEY WILL BE RETURNED AFTER THE LEGENDS ARE RETURNED CLEANED AND UNDAMAGED.
 - EACH UNIT WILL BE CHARGED A \$25.00 PER LETTER PER DAY NON-REFUNDABLE USER FEE.
 - THE CONTRACTOR WILL STENCIL GUARD EACH BORROWED LETTER OR SYMBOL BEFORE USING.
 - THE CITY OF SAN MARCOS PUBLIC WORKS DEPARTMENT (760.752-7550) WILL BE NOTIFIED 1 WEEK IN ADVANCE FOR ANY STENCILS THE CONTRACTOR WISHES TO BORROW.



STATE ROUTE 78



NOTE:

CENTERLINE STATIONING SHOWN HEREON IS FOR THIS PROJECT ONLY.

CARMEL STREET SIGNAGE AND STRIPING PLAN

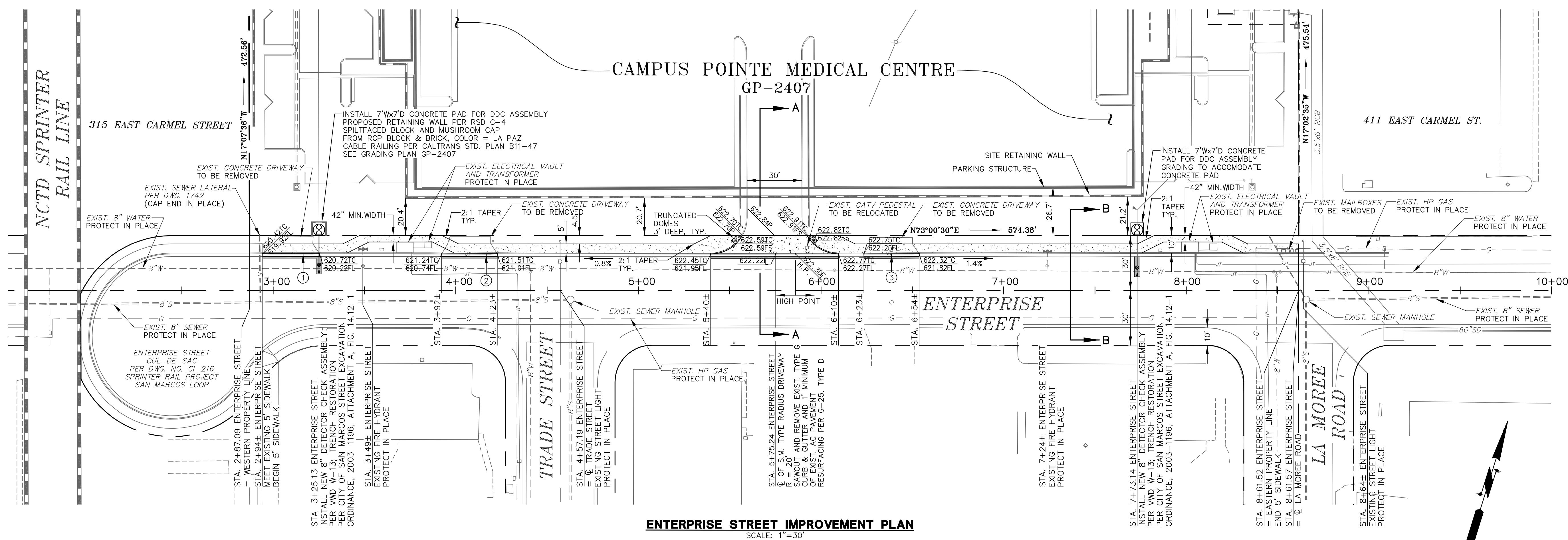
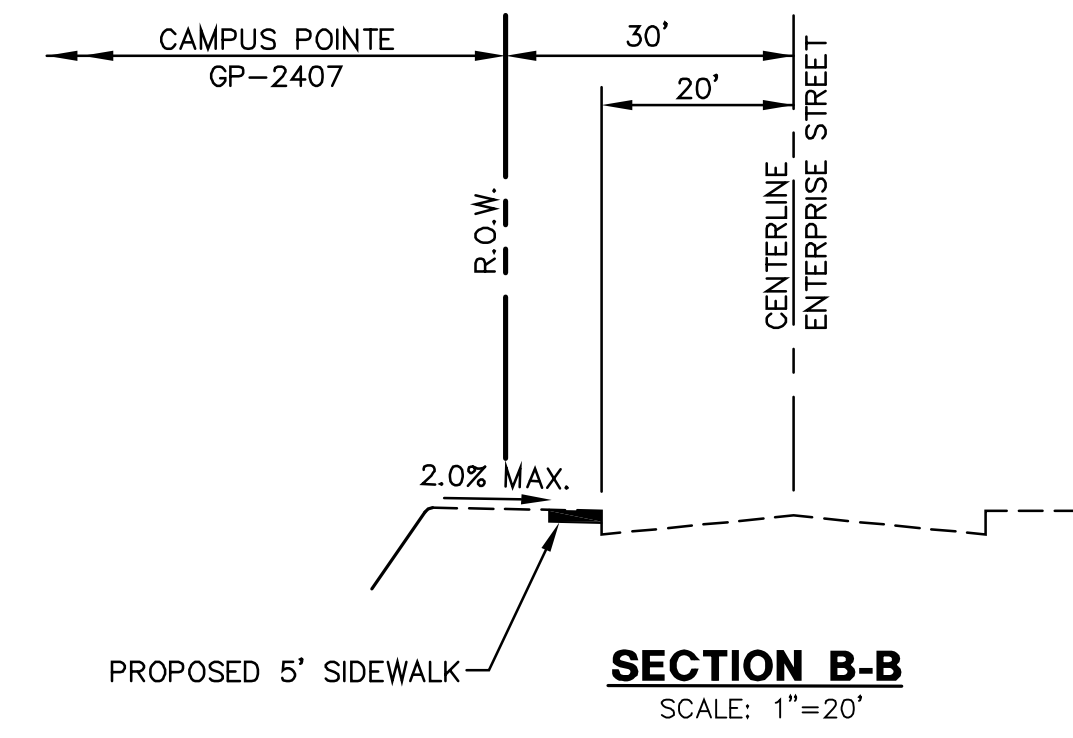
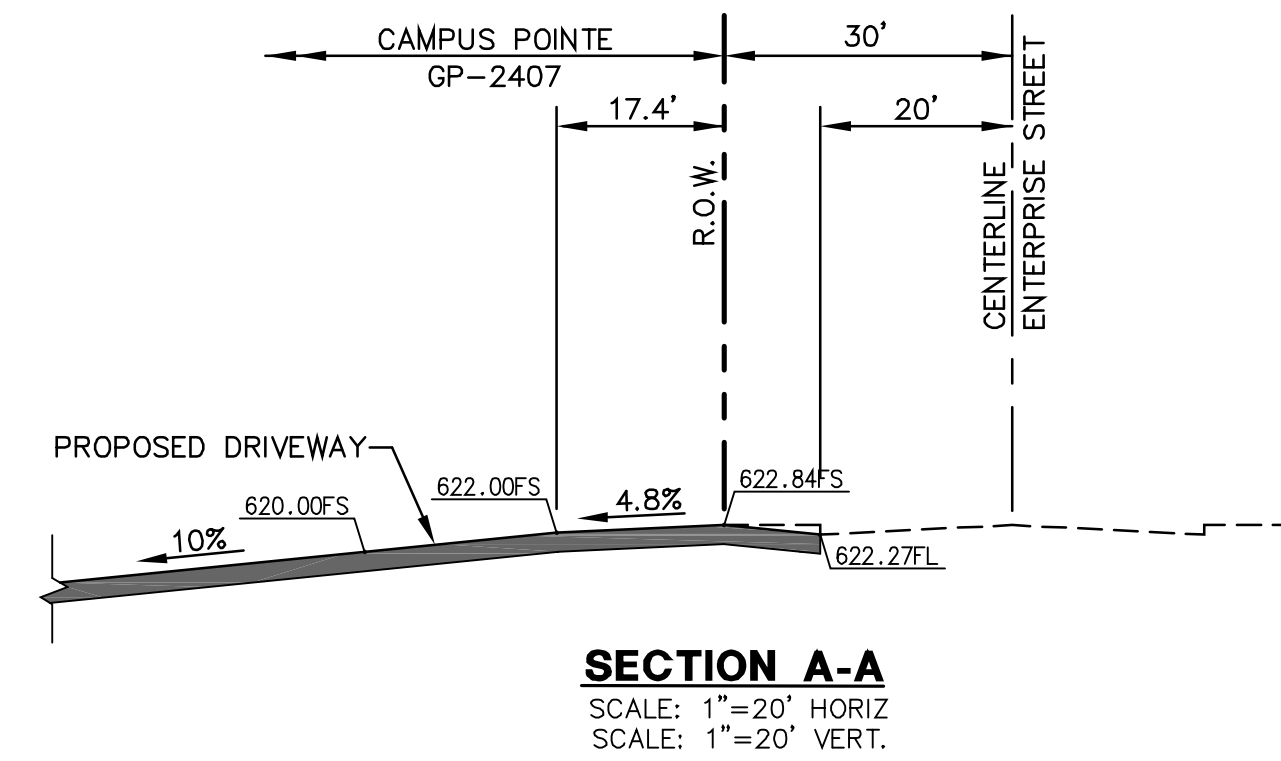
SCALE: 1"=30'

VWD AS-BUILT	
By: _____	exp.: _____
R.C.E.: _____	Date: _____



-LANG-
engineering co.
Consulting Engineers, Land Planners
6110 INNOVATION WAY CARLSBAD, CALIFORNIA 92009
PH (760) 692-1950 FAX (760) 692-1951
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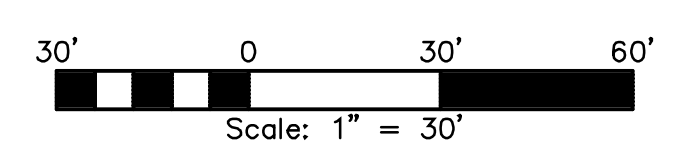
SAN MARCOS FIRE DEPARTMENT		VALLECITOS WATER DISTRICT		ENGINEER OF WORK		CITY APPROVED CHANGES		RECOMMENDED FOR APPROVAL		APPROVED FOR CONSTRUCTION		BENCH MARK		CITY OF SAN MARCOS ENGINEERING DIVISION		City Drawing No.	
By: Fire Marshal		By: _____		By: Richard G. Lang, P.E.		No. Description App'd By Date		By: Sassan Haghgo, Deputy City Engineer		By: Michael D. Edwards, City Engineer		Description: Caltrans Monument #78-12.9 1988 C.D.H. 2 1/4" Brass disk (PT #1130 on Record of Survey 13928) located on sidewalk at a point 66.7' south of the southwest corner of the Twin Oaks Valley Road bridge over Highway 78		SIGNAGE AND STRIPING PLANS FOR: SDP-06-318 MF 1599 TPM 651		IP-4783	
Date: _____		Date: _____		R.C.E.: 39016 exp: 03/31/09				R.C.E.: 42201 exp: 03/31/2010		Date: _____		Elev: _____ Datum: MSL		CARMEL STREET		Sheet 4 of 12	



CURB DATA TABLE - ENTERPRISE STREET				
NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS
①	N72°57'57"E	---	31.1'±	6" CURB & GUTTER PER G-2
②	N72°54'12"E	---	30.3'±	6" CURB & GUTTER PER G-2
③	N72°52'38"E	---	30.2'±	6" CURB & GUTTER PER G-2

NOTE: FOR ALL EXISTING DRIVEWAY APRONS, SAWCUT AND REMOVE 1' MINIMUM OF EXISTING AC PAVEMENT AND RESURFACE PER G-25, TYPE D.

VALLECITOS WATER DISTRICT POT HOLE NOTE:
CONTRACTOR SHALL POT HOLE (EXCAVATE AND EXPOSE) ALL UTILITIES ALONG CONSTRUCTION CORRIDOR AS SHOWN ON THE PLANS OR IDENTIFIED BY USA MARKOUT. THE POT HOLE INFORMATION (UTILITY SIZE, TYPE, LOCATION, ELEVATION, GRADE AND ALIGNMENT) SHALL BE SUBMITTED TO VALLECITOS WATER DISTRICT PRIOR TO CONSTRUCTION. IN ADDITION, POTENTIAL CONFLICTS WITH EXISTING UTILITIES, AS IDENTIFIED BY CONTRACTOR, SHALL BE SUBMITTED PRIOR TO CONSTRUCTION. FAILURE TO POT HOLE AND SUBMIT REQUIRED UTILITY INFORMATION MAY RESULT IN CONTRACTOR BEING INELIGIBLE FOR PAYMENT OF EXTRA WORK NECESSARY TO REMEDY THE CONFLICT, AT SOLE DISCRETION OF DISTRICT. CONSEQUENCES OF CONTRACTOR'S FAILURE TO POT HOLE AND PROVIDE INFORMATION TO DISTRICT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY AND LIABILITY.



VWD AS-BUILT

By: _____

R.C.E.: _____ exp.: _____

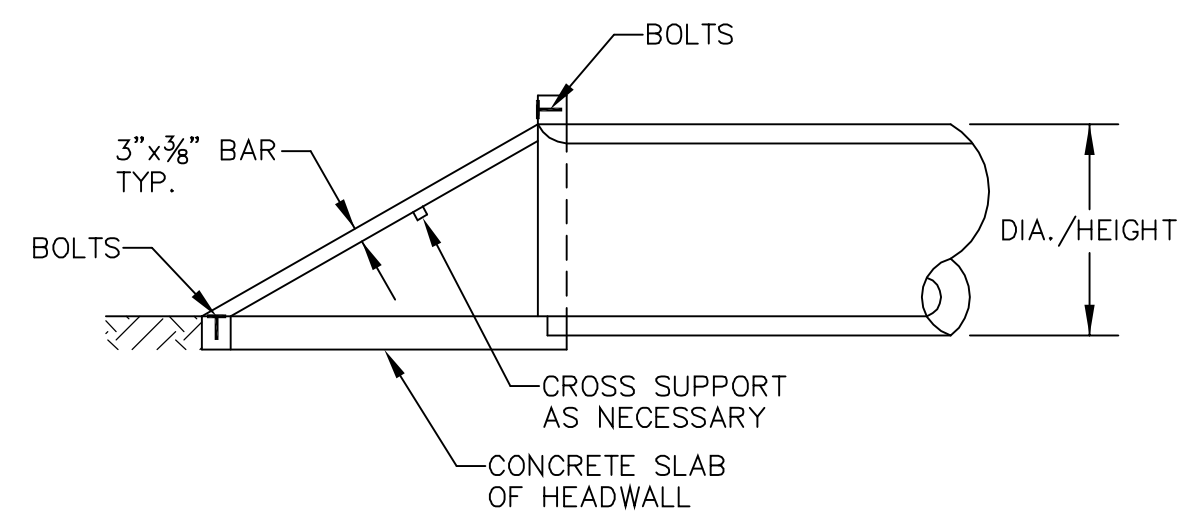
Date: _____

NOTE:
CENTERLINE STATIONING SHOWN HEREON IS FOR THIS PROJECT ONLY.



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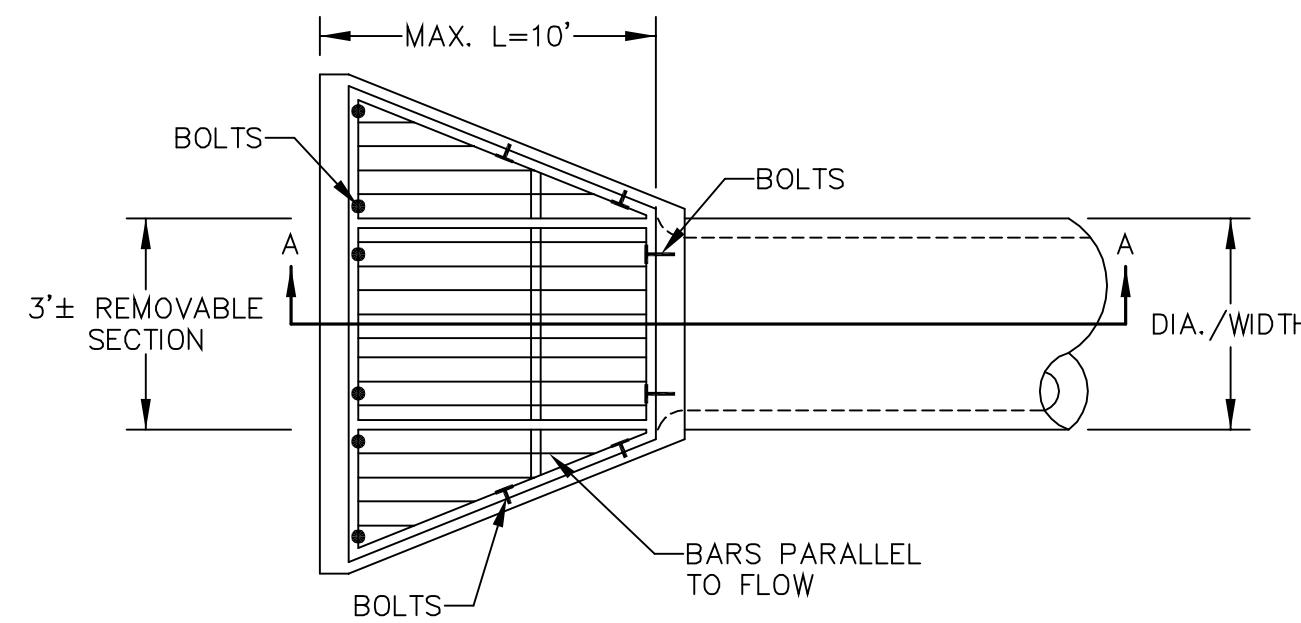
SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SAN MARCOS ENGINEERING DIVISION	City Drawing No.
By: Fire Marshal	By: _____	By: Richard G. Lang, P.E. Date: _____ R.C.E.: 39016 exp: 03/31/09	No. Description App'd By Date	By: Sassan Haghgo, Deputy City Engineer R.C.E.: 42201 exp: 03/31/2010	By: Michael D. Edwards, City Engineer R.C.E.: 32977 exp: 06/30/2010	Description: Caltrans Monument #78-12.9 1988 CH+ 2 1/4' bridge over GP #1132 on Record of Survey 139281 Location: Brass disc in sidewalk at a point 66.7' south of the southwest corner of the Twin Oaks Valley Road bridge over Highway 78 Record From: Record of Survey 139281 Elev: 481.81 Datum: MSL	IMPROVEMENT PLANS FOR: SDP-06-318 MF 1599 TPM 651 ENTERPRISE STREET	IP-4783 Sheet 5 of 12



SECTION A-A

NOTES:

1. USE MINIMUM 1/2 INCH STAINLESS STEEL BOLTS AND 1/8 INCH STAINLESS STEEL WASHERS.
2. ALL STEEL TO BE GALVANIZED ASTM A 36 STEEL.
3. ALL JOINTS TO BE WELDED.
4. BARS SHALL BE SPACED AT 6 INCHES ON CENTER.
5. BARS SHALL BE 3"x3/8".
6. STRUCTURE SHALL BE BOLTED TO ALLOW FOR REMOVAL.
7. WELD 3"x3/8" BAR AS CROSS SUPPORT ON BOTTOM OF RACK WHEN UNBRACED LENGTH IS GREATER THAN 6 FT.

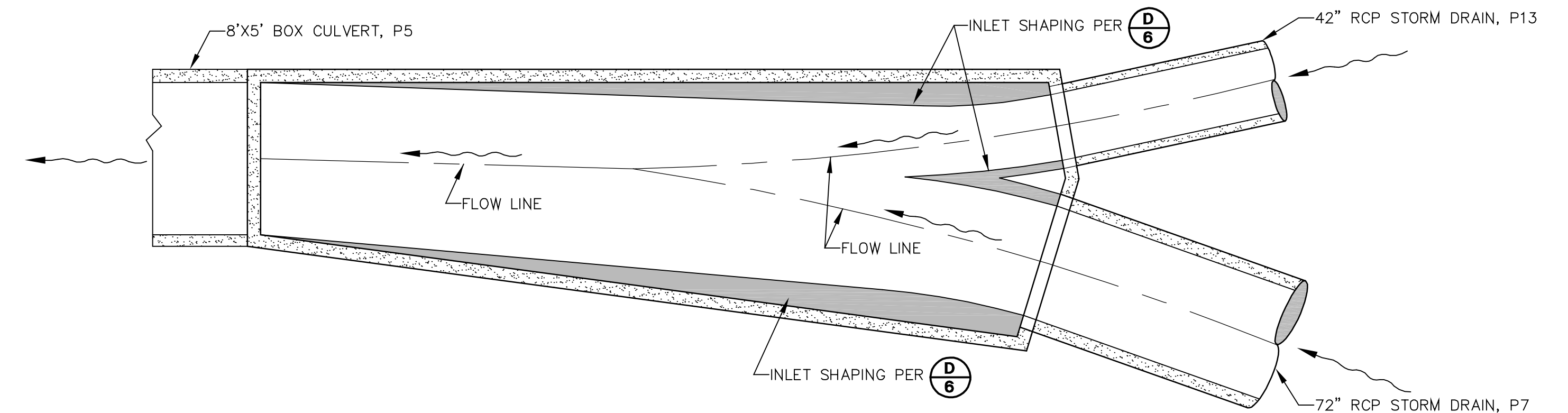


PLAN VIEW

TRASH RACK

NO SCALE

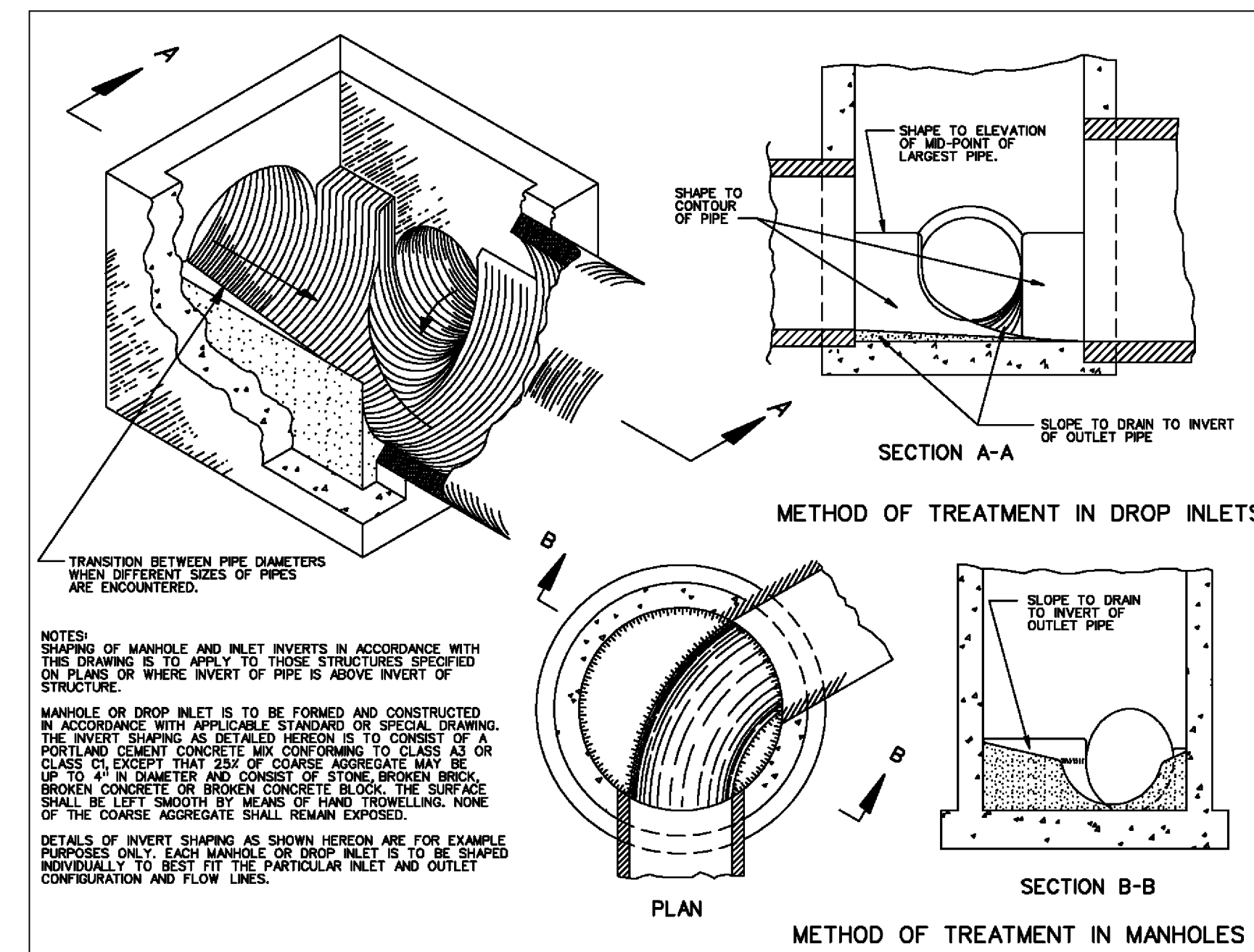
A
6



JUNCTION STRUCTURE P-6 INLET SHAPING

NO SCALE

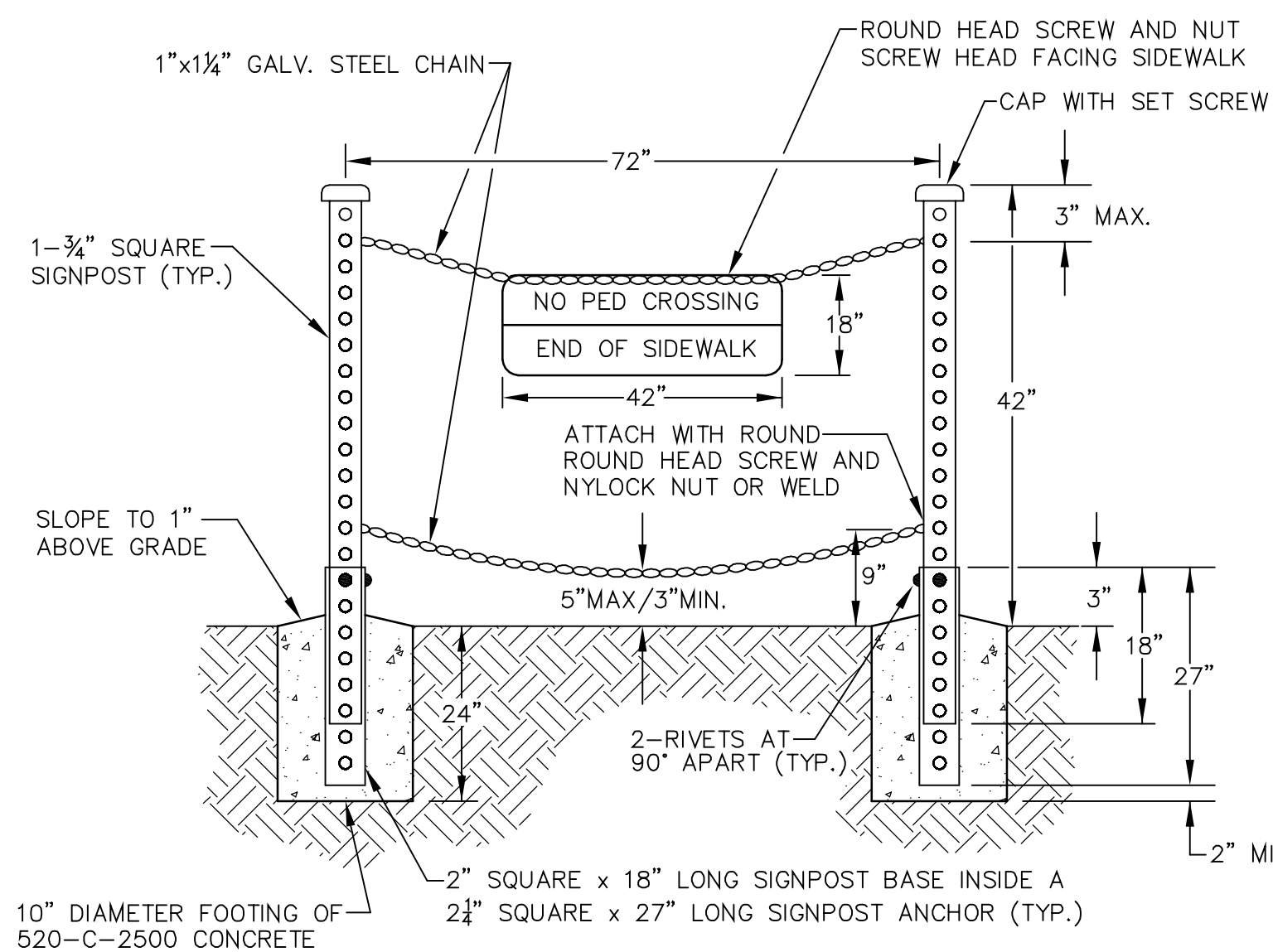
C
6



STORM DRAINAGE STRUCTURES INLET SHAPING

NO SCALE

D
6



PEDESTRIAN BARRICADE

NO SCALE

B
6

W/D AS-BUILT

By: _____

R.C.E.: _____ exp.: _____

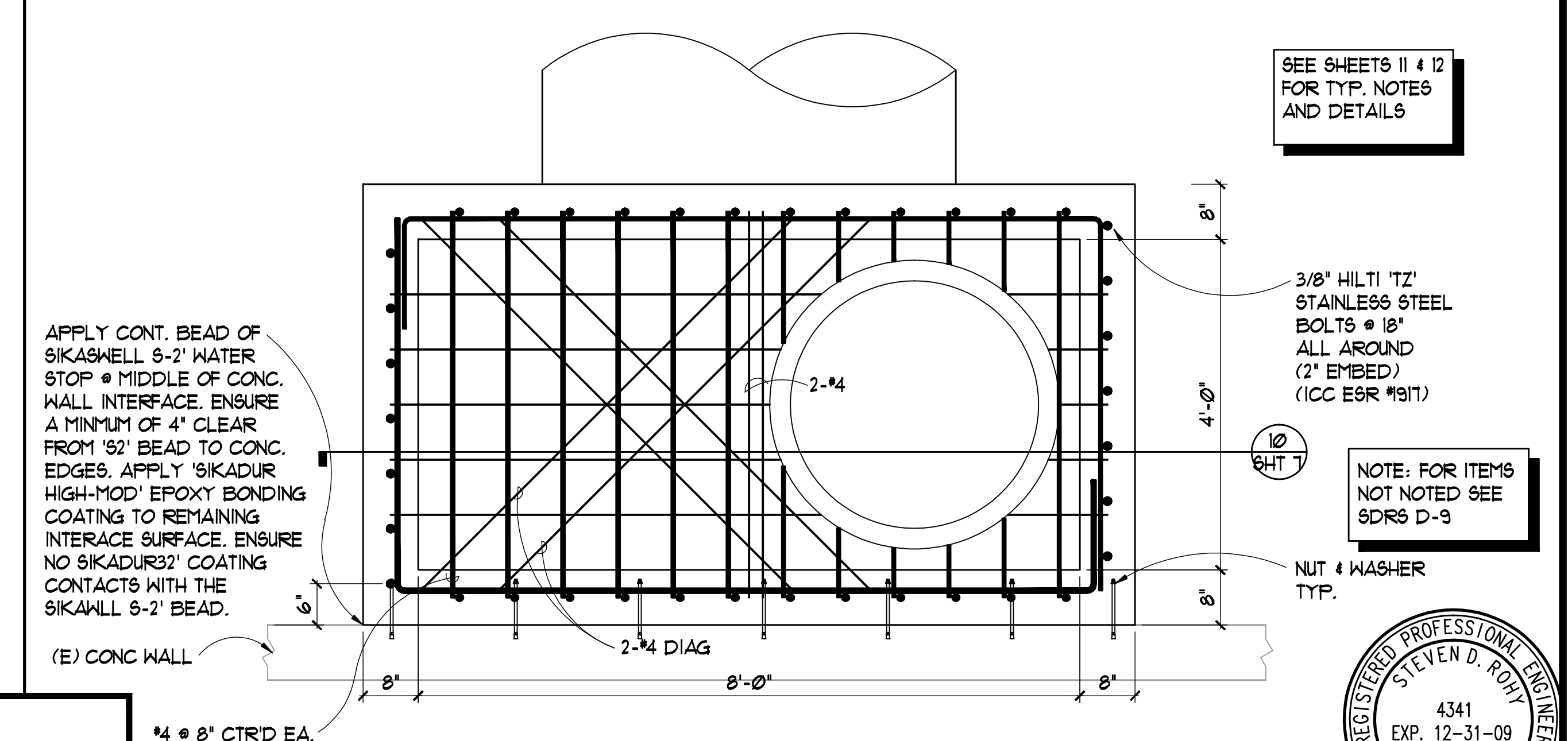
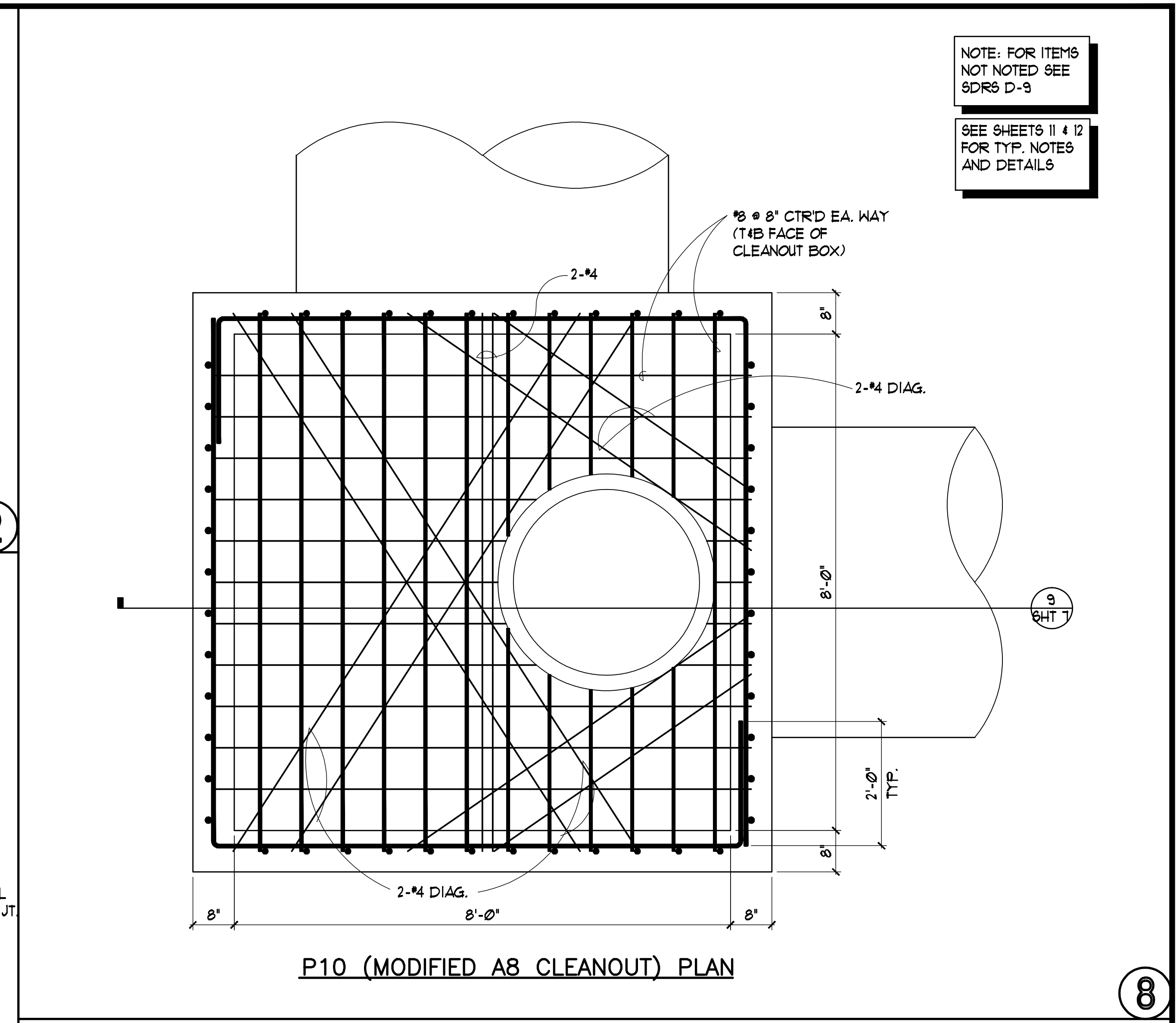
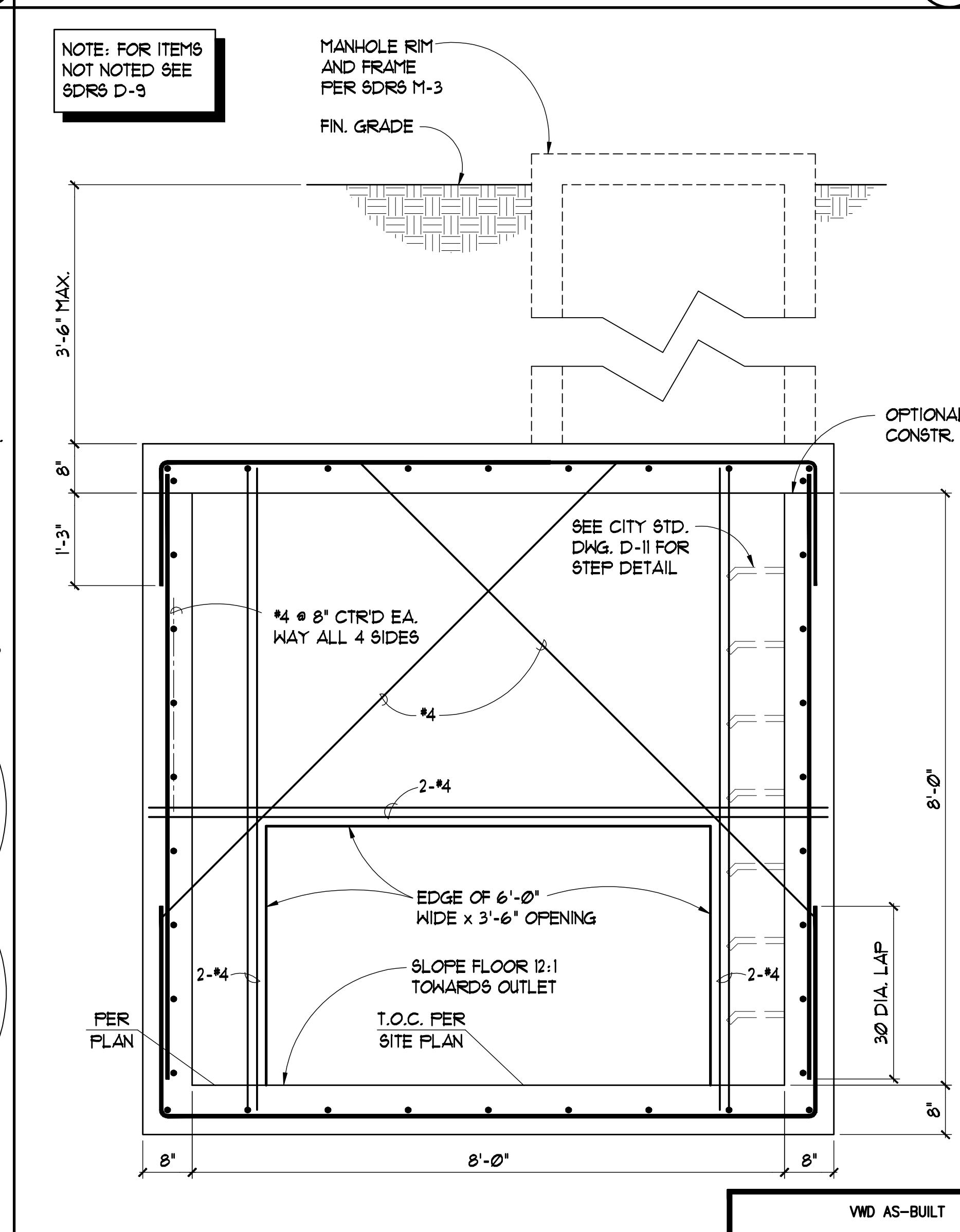
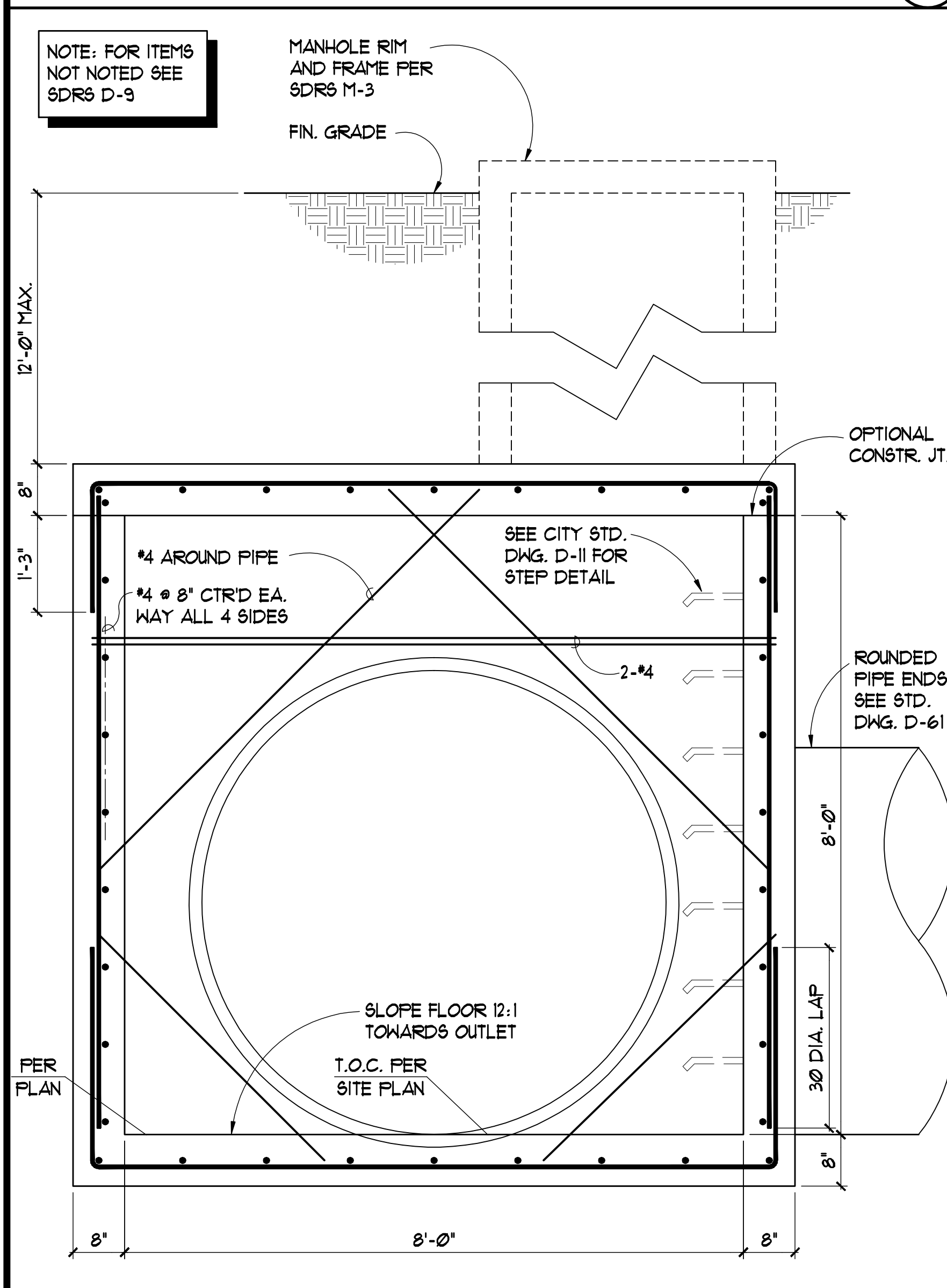
Date: _____

SAN MARCOS FIRE DEPARTMENT By: _____ Date: _____	VALLECITOS WATER DISTRICT By: _____ Date: _____	ENGINEER OF WORK By: Richard G. Lang, P.E. R.C.E.: 39016 exp.: 03/31/09	CITY APPROVED CHANGES No. Description App'd By Date	RECOMMENDED FOR APPROVAL By: Sassan Haghighi, Deputy City Engineer R.C.E.: 42201 exp.: 03/31/2010	APPROVED FOR CONSTRUCTION By: Michael D. Edwards, City Engineer R.C.E.: 32977 exp.: 06/30/2010	BENCH MARK Description: Caltrans Monument 78-12.9 1988 C&H, 2 1/4" brass disk (PT #130 on Record of Survey 13928) Location: Brass disk in sidewalk at a point 89.7' south of the southwest corner of the Twin Oaks Valley Road bridge over Highway 78. Record From: Record of Survey 13928. Elev: 221.91 Datum: MSL	CITY OF SAN MARCOS ENGINEERING DIVISION SDP-06-318 MF 1599 TPM 651 CAMPUS POINTE MEDICAL CENTRE	City Drawing No. IP-4783 Sheet 6 of 12



NOTE: FOR ITEMS NOT NOTED SEE SDRS D-9

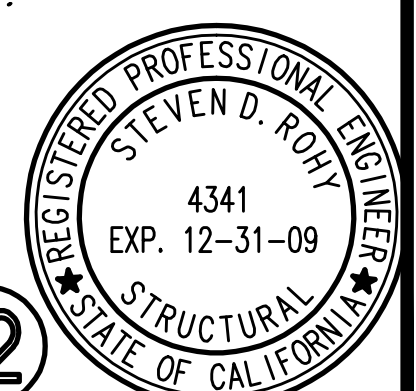
SEE SHEETS 11 & 12 FOR TYP. NOTES AND DETAILS



SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK
By: Fire Marshal	By: Steve Rohy	By: Steve Rohy
Date:	Date: 12/31/09	R.S.E.: 4341 exp.: 12/31/09

CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION
No. Description App'd By Date	By: Sassan Haghgo, Deputy City Engineer R.C.E.: 42201 exp.: 03/31/2010	By: Michael D. Edwards, City Engineer R.C.E.: 32977 exp.: 06/30/2010

BENCH MARK	CITY OF SAN MARCOS ENGINEERING DIVISION	City Drawing No.
Description: Calliana Monument "78-12.9 1988 CD# 2 1/2" Brass disc (PI #1130 on Record of Survey 15928)	SDP 06-318 MF 1599 TPM 651	IP-4783
Location: Brass disc in sidewalk at a point 66.7' south of the southwest corner of the Twin Oaks Valley Road bridge over Highway 78	STRUCTURAL DETAILS FOR	Sheet 7 of 12
Record from: Record of Survey 15928	CAMPUS POINTE MEDICAL CENTRE	MAXIMO W# 0815639
Elev.: 581.91 Datum: MSL		



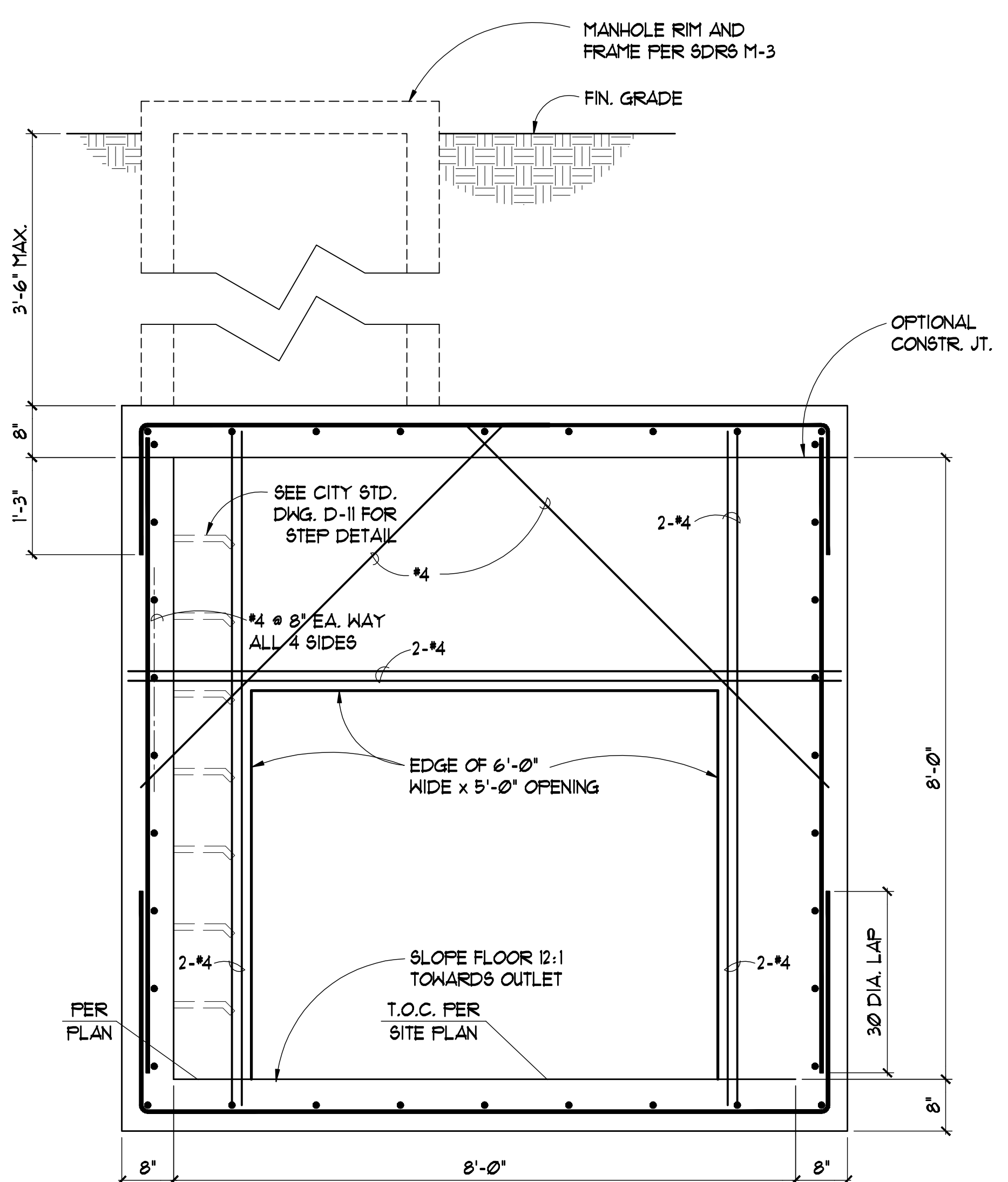
SEE SHEETS 11 & 12
FOR TYP. NOTES
AND DETAILS

1

2

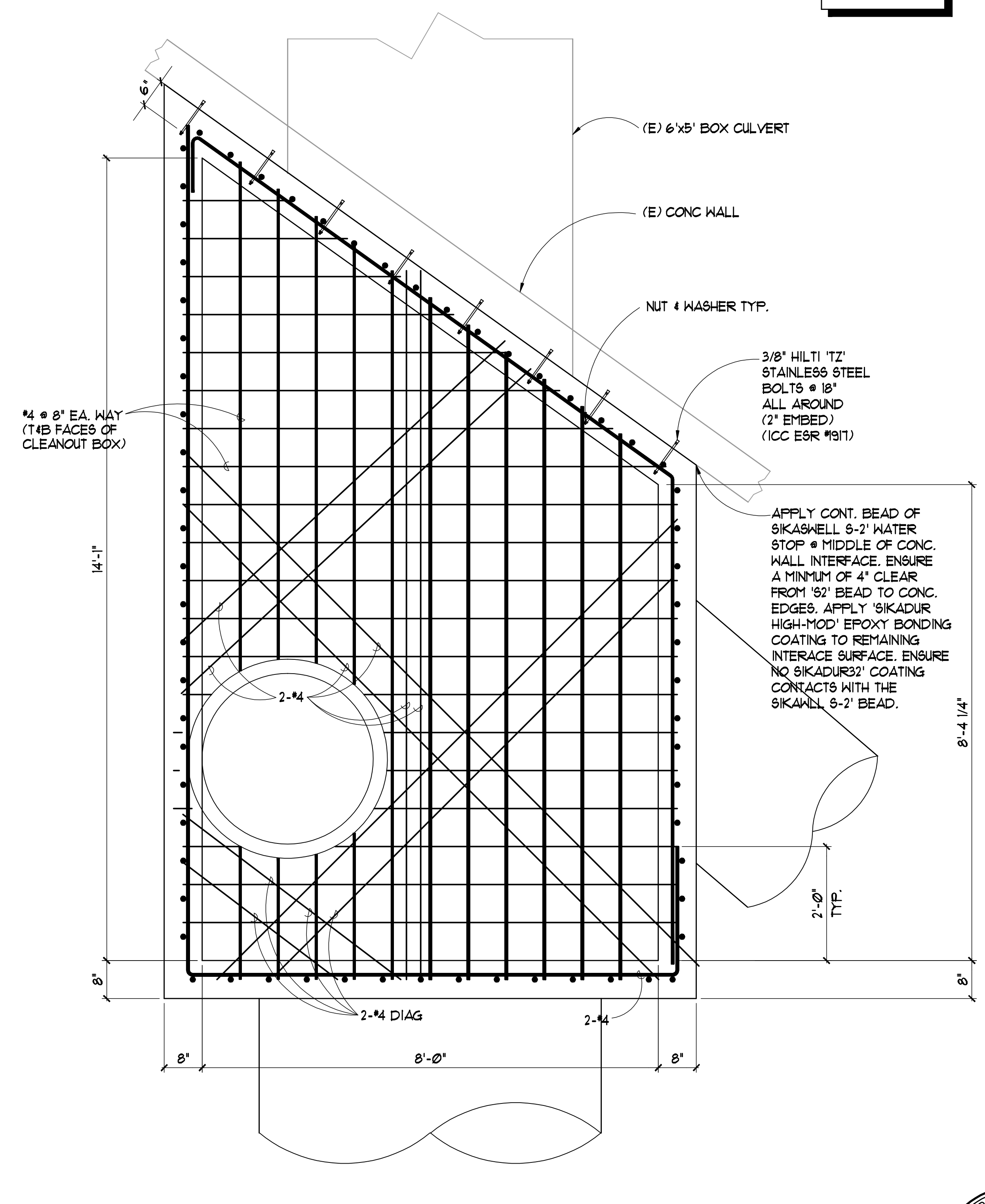
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9



P2 SECTION

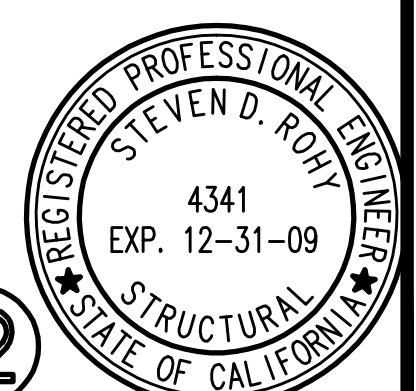
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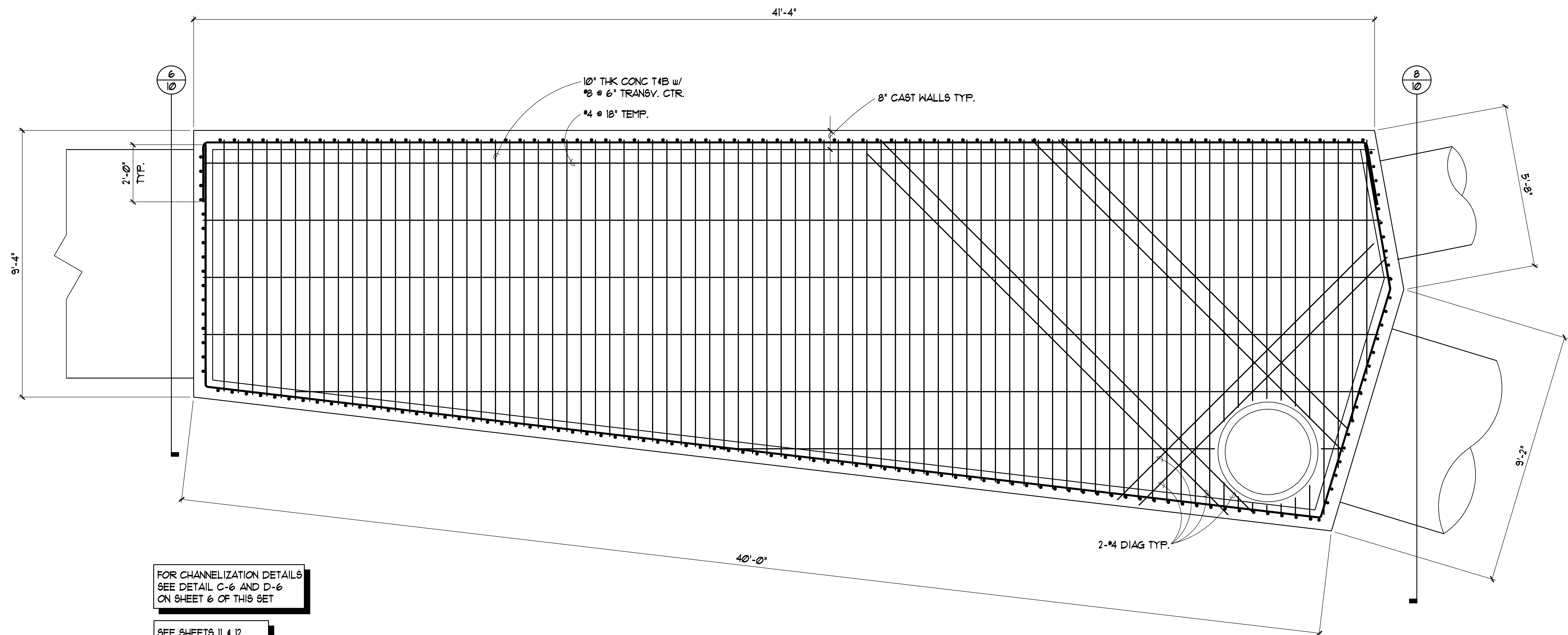
P2 PLAN (MODIFIED A8 CLEANOUT)

12

SAN MARCOS FIRE DEPARTMENT		VALLECITOS WATER DISTRICT		ENGINEER OF WORK		CITY APPROVED CHANGES		RECOMMENDED FOR APPROVAL		APPROVED FOR CONSTRUCTION		BENCH MARK		CITY OF SAN MARCOS ENGINEERING DIVISION		City Drawing No.	
By: _____ Fire Marshal		By: _____		By: _____ Date: _____ Name: Steve Rohy R.S.E.: 4341 exp: 12/31/09		No. Description App'd By Date		By: Sassan Haghgo, Deputy City Engineer R.C.E.: 42201 exp.: 03/31/2010		By: Michael D. Edwards, City Engineer R.C.E.: 32977 exp.: 06/30/2010		Description: California Monument "78-12.9 1988 CD# 2 1/4" Brass disc (PI #1130 on Record of Survey 13928) Location: Brass disc in sidewalk at a point 66.7' south of the southwest corner of the Twin Oaks Valley Road bridge over Highway 78 Record From: Record of Survey 13928 Elev.: 581.91 Datum: MSL		SDP 06-318 MF 1599 TPM 651		IP-4783	
Sheet 8 of 12																	



MAXIMO WO# 0815639



FOR CHANNELIZATION DETAILS
SEE DETAIL C-6 AND D-6
ON SHEET 6 OF THIS SET

SEE SHEETS 11 & 12
FOR TYP. NOTES
AND DETAILS

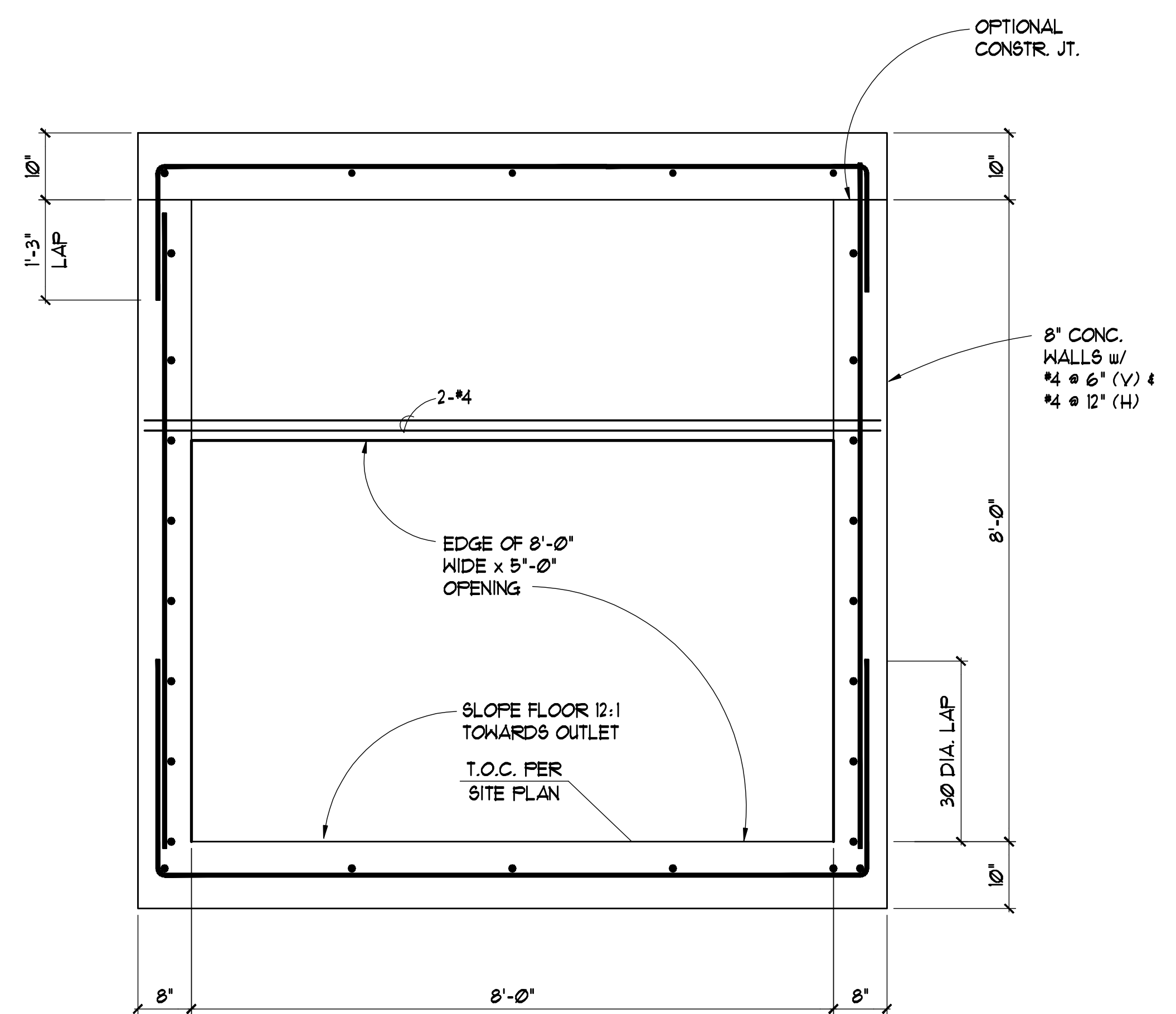
JUNCTION STRUCTURE PLAN



VMD AS-BUILT
By: _____
R.C.E.: _____ exp.: _____
Date: _____

SAN MARCOS FIRE DEPARTMENT By: _____ Fire Marshal Date: _____	VALLECITOS WATER DISTRICT By: _____ Date: _____	ENGINEER OF WORK By: _____ Date: _____ Name: Steve Rohy R.S.E.: 4341 exp.: 12/31/09	CITY APPROVED CHANGES		RECOMMENDED FOR APPROVAL By: Sassan Haghgoo, Deputy City Engineer R.C.E.: 42201 exp.: 03/31/2010 Date: _____	APPROVED FOR CONSTRUCTION By: Michael D. Edwards, City Engineer R.C.E.: 32977 exp.: 06/30/2010 Date: _____	BENCH MARK Description: California Monument "78-12.9 1988 CD# 2 1/4" Brass disc (PI #1130 on Record of Survey 13928) Location: Brass disc in sidewalk at a point 66.7' south of the southeast corner of the Twin Oaks Valley Road bridge over Highway 78 Record From: Record of Survey 13928 Elev.: 581.91 Datum: MSL	CITY OF SAN MARCOS ENGINEERING DIVISION SDP 06-318 MF 1590 TPM 651 STRUCTURAL DETAILS FOR CAMPUS POINTE MEDICAL CENTRE	City Drawing No. IP-4783 Sheet 9 of 12
			No.	Description					

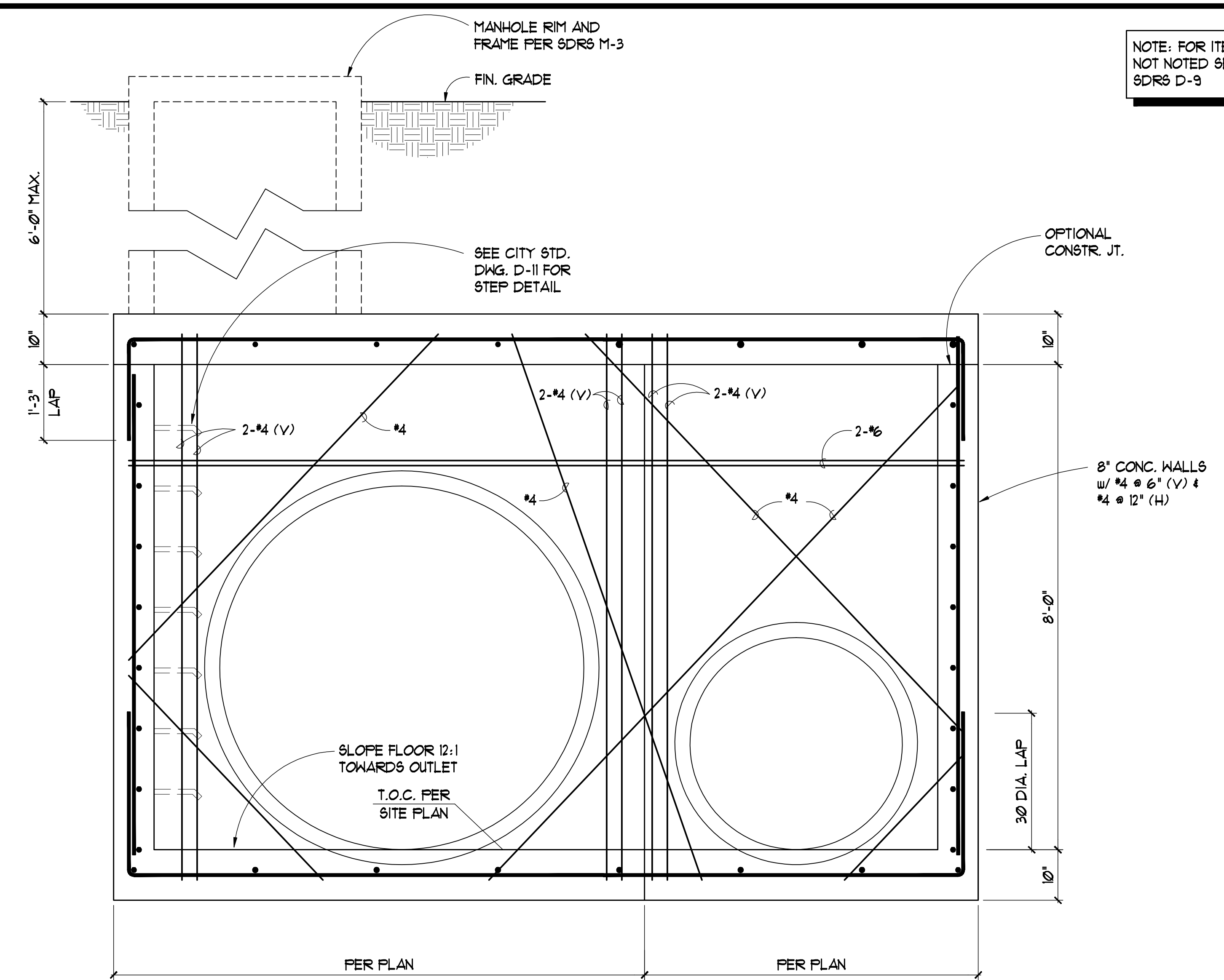
NOTE: FOR ITEMS NOT NOTED SEE SDRS D-9



JUNCTION SECTION

6

NOTE: FOR ITEMS NOT NOTED SEE SDRS D-9



JUNCTION SECTION

8

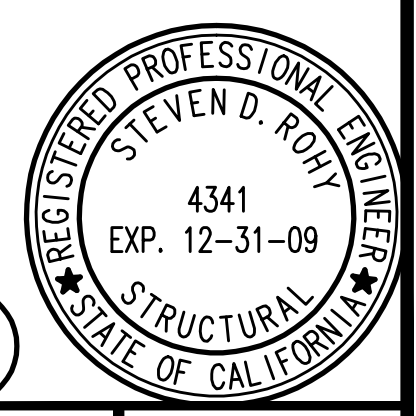
9

10

11

12

SAN MARCOS FIRE DEPARTMENT By: _____ Fire Marshal Date: _____	VALLECITOS WATER DISTRICT By: _____ Date: _____	ENGINEER OF WORK By: _____ Date: _____ Name: Steve Rohy R.S.E.: 4341 exp.: 12/31/09	CITY APPROVED CHANGES		RECOMMENDED FOR APPROVAL By: Sassan Haghgo, Deputy City Engineer R.C.E.: 42201 exp.: 03/31/2010 Date: _____	APPROVED FOR CONSTRUCTION By: Michael D. Edwards, City Engineer R.C.E.: 32977 exp.: 06/30/2010 Date: _____	BENCH MARK Description: Calliana Monument "78-12.9 1988 CDH" 2 1/4" brass disc (PI #1130 on Record of Survey 13928) Location: Brass disc in sidewalk at a point 66.7' south of the southwest corner of the Twin Oaks Valley Road bridge over Highway 78 Record From: Record of Survey 13928 Elev.: 581.91 Datum: MSL	CITY OF SAN MARCOS ENGINEERING DIVISION SDP 06-318 MF 1590 TFM 651 STRUCTURAL DETAILS FOR CAMPUS POINTE MEDICAL CENTRE City Drawing No. IP-4783 Sheet 10 of 12
			No.	Description				



SPECIAL INSPECTIONS & TESTING (IBC CHAPTER 17)

- 1. SPECIAL INSPECTIONS AND TESTING SHALL MEET THE REQUIREMENTS OF IBC SECTION 1704, 1707 AND 1708.
2. SPECIAL INSPECTORS SHALL:
A. BE EMPLOYED BY THE OWNER AND ACT AS THE OWNER'S AGENT PER IBC SECTION 1704.1.
B. BE CERTIFIED BY PUBLIC WORKS TO PERFORM THE TYPES OF INSPECTIONS SPECIFIED.
C. PREPARE REPORTS THAT SHALL BE SIGNED BY A [STATE] REGISTERED CIVIL ENGINEER.
D. OBSERVE THE WORK ASSIGNED FOR COMFORMANCE WITH APPROVED DRAWINGS AND SPECIFICATIONS.
E. FURNISH INSPECTION REPORTS TO THE ENGINEER AND PUBLIC WORKS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION; THEN, IF NOT CORRECTED, TO THE ENGINEER AND PUBLIC WORKS PER IBC SECTION 1704.1.2.
F. SUBMIT TO THE ENGINEER AND PUBLIC WORKS A CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION, SIGNED BY A [STATE] REGISTERED CIVIL ENGINEER, STATING THAT THE WORK WAS IN CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC.
3. SUMMARY OF CONTINUOUS AND PERIODIC INSPECTIONS:
A. CONSTRUCTION INSPECTIONS LISTED ARE IN ADDITION TO THE CALLED INSPECTIONS REQUIRED BY IBC SECTION 109. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION BY A BUILDING OFFICIAL. SPECIALLY INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL IS SUBJECT TO REMOVAL OR EXPOSURE.
B. CONTINUOUS INSPECTION IS REQUIRED DURING THE PERFORMANCE OF THE WORK UNLESS OTHERWISE SPECIFIED.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY BEFORE PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION.
5. OFF-SITE FABRICATION:
A. SUBMIT APPLICATION TO PUBLIC WORKS FOR APPROVAL PRIOR TO FABRICATION.
B. SUBMIT A CERTIFICATE OF COMPLIANCE FOR OFF-SITE FABRICATION TO PUBLIC WORKS PRIOR TO ERECTION OF PREFABRICATED COMPONENTS.

SCHEDULE OF REQUIRED SPECIAL INSPECTIONS (2006 IBC)

Table with 3 columns: VERIFICATION AND INSPECTION TASK, TYPE OF TASK, FREQUENCY. Rows include 1704.7 SOILS (Verify materials, excavations, classification, placement, use of materials) and 1704.4 CONCRETE CONSTRUCTION (Inspect formwork, reinforcing steel, bolts, use of design, fresh concrete, concrete strength, curing, prestressed concrete, pre-cast concrete, post-tensioned concrete).

FOUNDATION

- 1. THE SOILS REPORT RECOMMENDATIONS SHALL BE COMPLIED WITH BY THE CONTRACTOR.
2. SOILS INFORMATION: SEE SOILS REPORT BY: ROBERT PRATER ASSOCIATES DATED: MARCH 1999 FOUNDATION MATERIAL: SOIL DESIGN PARAMETERS: ALLOWABLE BEARING PRESSURE.....3500 PSF CANTILEVER ACTIVE (LEVEL)..... 35 PCF CANTILEVER ACTIVE (3:1 SLOPE).....40 PCF CANTILEVER ACTIVE (2:1 SLOPE).....50 PCF LATERAL BEARING (PASSIVE) PRESSURE..... 300 PCF COEFFICIENT OF FRICTION.....0.35 MINIMUM CONTINUOUS FOOTING WIDTH.....12 INCHES BOTTOM OF FOOTINGS SHALL BE AT LEAST 18 INCHES BELOW LOWEST ADJACENT GRADE.
3. ALL FOUNDATION WORK SHALL BE FOUNDED ON FIRM UNDISTURBED NATURAL SOILS OR APPROVED COMPACTED SOILS.
4. ALL SITE SOIL WORK SHALL BE DONE UNDER THE DIRECT OBSERVATION OF THE SOILS ENGINEER.
5. SOILS ENGINEER SHALL VERIFY IN WRITING TO THE ENGINEER THAT SITE SOIL WORK COMPLIES WITH ALL OF THE RECOMMENDATIONS AND CONCLUSIONS OF THE SOILS REPORT.
6. THE FINISH EXCAVATION FOR FOUNDATIONS SHALL BE NEAT & TRUE TO LINE.
7. FOUNDATION EXCAVATIONS SHALL BE KEPT FREE OF LOOSE MATERIAL AND STANDING WATER AND SHALL BE CHECKED AND APPROVED BY THE SOILS ENGINEER BEFORE THE PLACEMENT OF ANY CONCRETE.
8. THE TESTING LAB SHALL SUBMIT COMPACTION REPORTS FOR ALL FILL TO THE ENGINEER BEFORE REQUESTING FOUNDATION INSPECTION. ALL LOOSE SOIL AND FILL DIRT, INCLUDING BACKFILL BEHIND RETAINING WALLS, SHALL BE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY, OR GREATER AS REQUIRED BY THE SOILS REPORT.
9. BACKFILL FOR ALL RETAINING WALLS SHALL BE NON-EXPANSIVE PERVIOUS MATERIAL APPROVED BY THE SOILS ENGINEER AND SHALL NOT BE PLACED UNTIL MASONRY OR CONCRETE RETAINING MEMBERS HAVE BEEN IN PLACE A MINIMUM OF 14 DAYS AND HAVE OBTAINED 75% OF THE DESIGN STRENGTH.
10. PROVIDE TEMPORARY SHORING FOR ALL WALLS RETAINING EARTH, PRIOR TO BACKFILLING.
11. TEMPORARY SHORING FOR ALL RETAINING WALLS REQUIRING PERMANENT STRUCTURAL SUPPORT AT THE TOP OF THE WALL SHALL REMAIN IN PLACE UNTIL SUCH SUPPORTS ARE INSTALLED, AND IN THE CASE OF CONCRETE SUPPORTS, THE SHORING SHALL REMAIN IN PLACE A MINIMUM OF 7 DAYS AFTER CONCRETE PLACEMENT.

REINFORCED CONCRETE (IBC CHAPTER 19)

- 1. CEMENT SHALL CONFORM TO ASTM C150, TYPE II.
2. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33.
3. READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.
4. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THESE NOTES. CONCRETE SHALL BE STANDARD WEIGHT CONCRETE (145 PCF) AND HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS:
ELEMENT STRENGTH AGG W/C RATIO (MAX)
FOOTINGS.....3000 PSI 1" 57
WALLS & COLUMNS.....3000 PSI 1" 45
6. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR CONCRETE DESIGN STRENGTHS EXCEEDING 2500 PSI.
7. CONCRETE SHALL BE PROPORTIONED SUCH THAT THE 7 DAY STRENGTHS ARE A MINIMUM OF SEVENTY PERCENT OF THE SPECIFIED 28 DAY STRENGTH FOR ANY CONCRETE CONSTRUCTION REQUIRING SHORING, BRACING OR TO RECEIVE CONSTRUCTION LOADS. ALSO, SLABS ON GRADE SHALL HAVE A COMPRESSION STRENGTH OF 1800 PSI MINIMUM AT 3 DAYS IF SUBJECT TO CONSTRUCTION TRAFFIC.
8. ADMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER. ADMIXTURES SHALL COMPLY WITH ASTM C494 & C1017 AND BE OF A TYPE THAT INCREASES THE WORKABILITY OF THE CONCRETE, BUT SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT (CALCIUM CHLORIDE SHALL NOT BE USED).
9. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, HOLD-DOWN ANCHORS AND INSERTS SHALL BE WELL SECURED IN POSITION WITH WIRE POSITIONERS PRIOR TO FOUNDATION INSPECTION AND BEFORE PLACING CONCRETE.
10. CONCRETE CURING: SEE SPECIFICATIONS.
11. PROJECTING CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 3/4" CHAMFER.
12. REFER TO DRAWINGS OF OTHER DISCIPLINES FOR MOLDS, GROOVES, CLIPS, ORNAMENTS, OR GROUNDS REQUIRED TO BE CAST INTO CONCRETE.
13. LOCATION OF ALL CONSTRUCTION, CONTROL AND WEAKENED PLANE JOINTS NOT SPECIFICALLY INDICATED ON THE DRAWINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO REINFORCEMENT PLACEMENT.
14. FOUNDATIONS TO RECEIVE CONCRETE OR MASONRY WALLS: ROUGHEN TOPS OF FOOTINGS TO A FULL AMPITUDE OF 1/4 INCH AND ABRASIVELY CLEAN.
15. CONTRACTOR SHALL SUBMIT MIX DESIGNS FOR REVIEW BEFORE FABRICATION AND INSTALLATION.

GENERAL

- 1. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER THESE STANDARD STRUCTURAL NOTES. TYPICAL DETAILS SHALL BE USED WHENEVER APPLICABLE. REFER TO SPECIFICATIONS FOR INFORMATION NOT COVERED BY THESE NOTES OR DRAWINGS. THESE NOTES TAKE PRECEDENCE OVER ANY OTHER BOOK SPECIFICATIONS.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK, AND THE ENGINEER/ARCHITECT SHALL BE IMMEDIATELY NOTIFIED, IN WRITING, OF ANY DISCREPANCIES. IN NO CASE SHALL DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THE STRUCTURAL DRAWINGS.
3. ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF, AND RESOLVED WITH, THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
4. WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
5. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN THE AREA TO BE EXCAVATED, BEFORE BEGINNING EXCAVATION.
6. NO PIPES, DUCTS, SLEEVES, CHASES, ETC. SHALL BE PLACED IN SLABS, BEAMS, OR WALLS, NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC. THE CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.
7. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE 2006 INTERNATIONAL BUILDING CODE (IBC).
8. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE ENGINEER FREE AND HARMLESS FROM ALL CLAIMS, DEMANDS AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ENGINEER.
9. RETAIN A [STATE] REGISTERED CIVIL ENGINEER TO DESIGN ALL TEMPORARY BRACING, SHORING, AND SUPPORT REQUIRED DURING CONSTRUCTION.
10. INCLUDE ENGINEERING FEES, ENGINEERING DESIGN TIME AND PUBLIC WORKS APPROVAL TIME IN THE COST OF PROPOSED MATERIAL ALTERNATES. CONTACT ENGINEER FOR FEE AMOUNT. SUBMIT MATERIAL ALTERNATE FOR REVIEW BEFORE CONSTRUCTION.
11. STRUCTURAL CAD DRAWINGS SHALL NOT BE USED FOR SHOP DRAWINGS UNLESS AN AGREEMENT BETWEEN THE STRUCTURAL ENGINEER AND CONTRACTOR HAS BEEN ESTABLISHED ACCORDING TO CASE DOCUMENT 11-1996. CONTACT ENGINEER FOR FEE AMOUNT.

STRUCTURAL OBSERVATION (IBC CHAPTER 17)

- 1. DEFINITION: THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM, FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS, AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY IBC SECTION 109, 1704 OR OTHER SECTIONS OF THE CODE.
2. IN ACCORDANCE WITH IBC SECTIONS 106.3.4 AND 1709 THE ENGINEER REQUIRES OBSERVATION DURING CONSTRUCTION OF THE FOLLOWING:
A.) FOUNDATION EXCAVATION AND REINFORCEMENT
1. FOOTINGS
B.) PARTIAL FRAMING
1. REINFORCING STEEL
C.) FINAL FRAMING
1. ALL REVISIONS TO PLANS
3. NOTIFICATION: 48 HOURS BEFORE REQUIRED OBSERVATION. DELINQUENT NOTIFICATION MAY REQUIRE DEMOLITION OF COVERED MATERIALS FOR OBSERVATION.
4. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVERS KNOWLEDGE, HAVE BEEN RESOLVED.

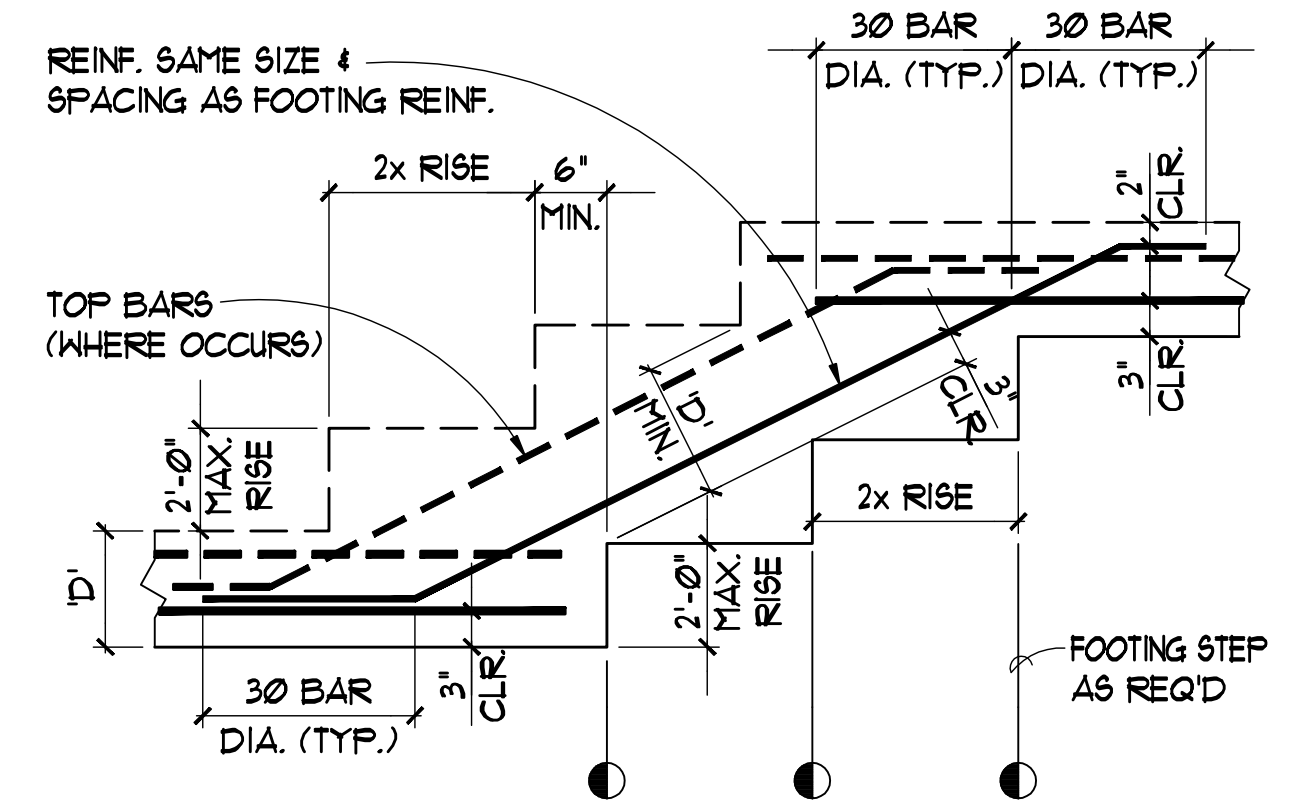
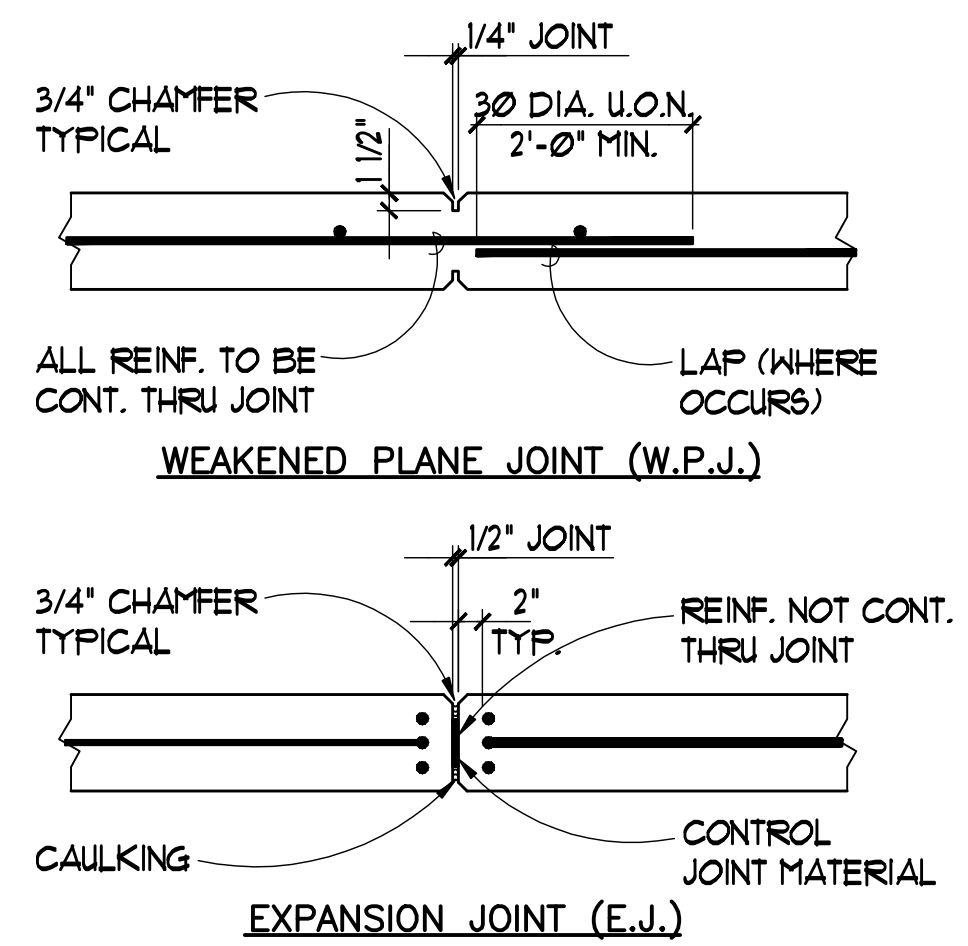
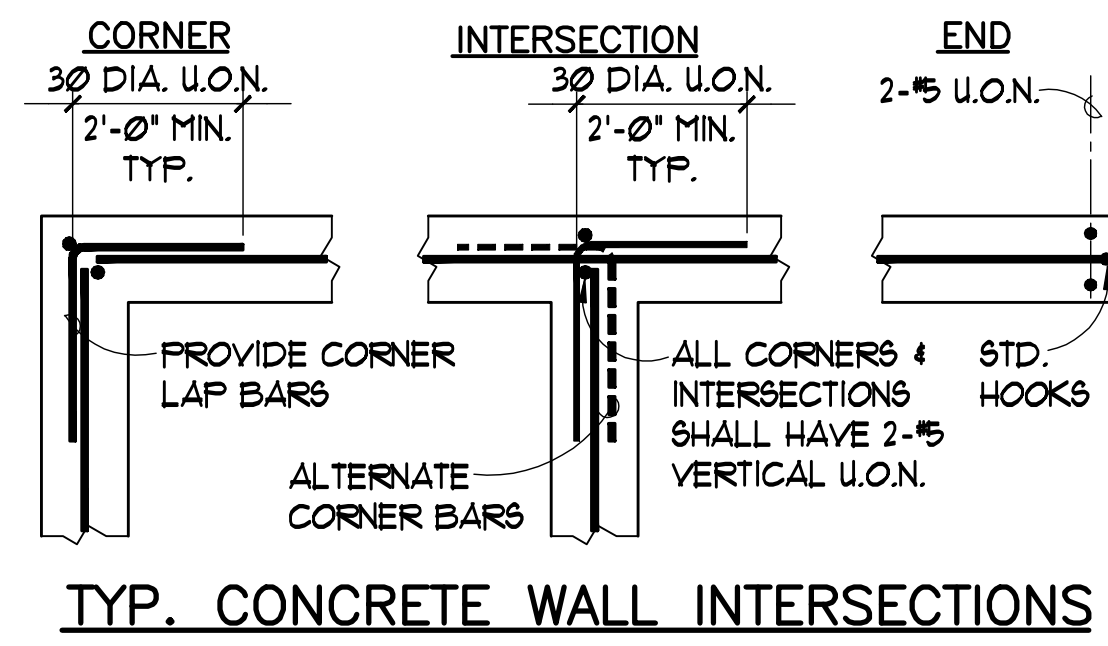
REINFORCING STEEL

- 1. BAR REINFORCEMENT SHALL BE ASTM A615, GRADE 60 DEFORMED BARS.
2. MINIMUM LAP SPLICES OF REINFORCING BARS SHALL BE AS SPECIFIED IN THE DRAWINGS.
3. VERTICAL BARS IN CONCRETE WALLS SHALL BE ACCURATELY POSITIONED AT THE CENTER OF THE WALL UNLESS OTHERWISE NOTED ON PLANS.
4. VERTICAL BARS IN MASONRY WALLS SHALL BE ACCURATELY POSITIONED AT THE CENTER OF THE WALLS UNLESS OTHERWISE NOTED ON PLANS AND SHALL BE TIED IN POSITION TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 200 BAR DIAMETERS.
5. REINFORCING DETAILING, BENDING, AND PLACING SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE", LATEST EDITION.
6. REINFORCING STEEL SHALL BE PROVIDED WITH THE FOLLOWING MINIMUM CONCRETE COVER FOR CAST IN PLACE CONCRETE:
A. CONCRETE DEPOSITED AGAINST EARTH: 3"
B. CONCRETE SURFACE (FORMED) EXPOSED TO EARTH OR WEATHER: #6 THROUGH #8 BARS: 2" #6 BAR AND SMALLER: 1-1/2"
C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER: SLABS, WALLS AND JOISTS #14 AND #18 BARS: 1-1/2" #11 BAR AND SMALLER: 3/4"
7. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, HOLD-DOWN ANCHORS AND INSERTS SHALL BE WELL SECURED IN POSITION WITH WIRE POSITIONERS PRIOR TO FOUNDATION INSPECTION AND BEFORE PLACING CONCRETE OR GROUT.
8. DOWELS BETWEEN FOOTINGS AND WALLS SHALL BE THE SAME GRADE, SIZE, AND SPACING AS VERTICAL WALL REINFORCING UNLESS OTHERWISE NOTED ON PLANS.
9. FURNISH #3 SPACER TIES AT APPROXIMATELY 2'-6" ON CENTER IN ALL BEAMS AND FOOTINGS TO SECURE REINFORCING IN PLACE.
10. CONTRACTOR SHALL SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION AND INSTALLATION.



VMD AS-BUILT
By:
R.C.E.: exp:
Date:

Administrative section containing project information for San Marcos Fire Department, Vallecitos Water District, and City of San Marcos Engineering Division. Includes drawing title 'TYPICAL STRUCTURAL FOR CAMPUS POINTE MEDICAL CENTRE' and drawing number 'IP-4783'.



REBAR LAP SCHEDULE (CONCRETE)

BAR SIZE	f'c=3000 PSI		f'c=4000 PSI	
	TOP BARS (IN.)	OTHER BARS (IN.)	TOP BARS (IN.)	OTHER BARS (IN.)
#3	28	22	24	19
#4	31	25	32	25
#5	41	38	40	31
#6	56	43	48	37
#7	81	63	70	54
#8	93	72	80	62
#9	105	81	91	70
#10	118	91	102	79
#11	131	101	113	87

NOTES:
 1. LAP SPLICE LENGTHS FOR GRADE 60 REINFORCING BAR.
 2. LAP SPLICE LENGTHS FOR NORMAL WEIGHT CONCRETE.
 3. LAP SPLICE LENGTHS FOR CLASS B LAPS = 1.3 ld.
 4. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
 5. LAP SPLICE LENGTHS ARE BASED ON THE TYPE OF STRUCTURAL ELEMENT AS FOLLOWS:
 BEAMS OR COLUMNS: COVER AT LEAST 1.0db AND CENTER TO CENTER SPACING AT LEAST 1.0db.
 ALL OTHERS: COVER AT LEAST 1.0db AND CENTER TO CENTER SPACING AT LEAST 3.0db.

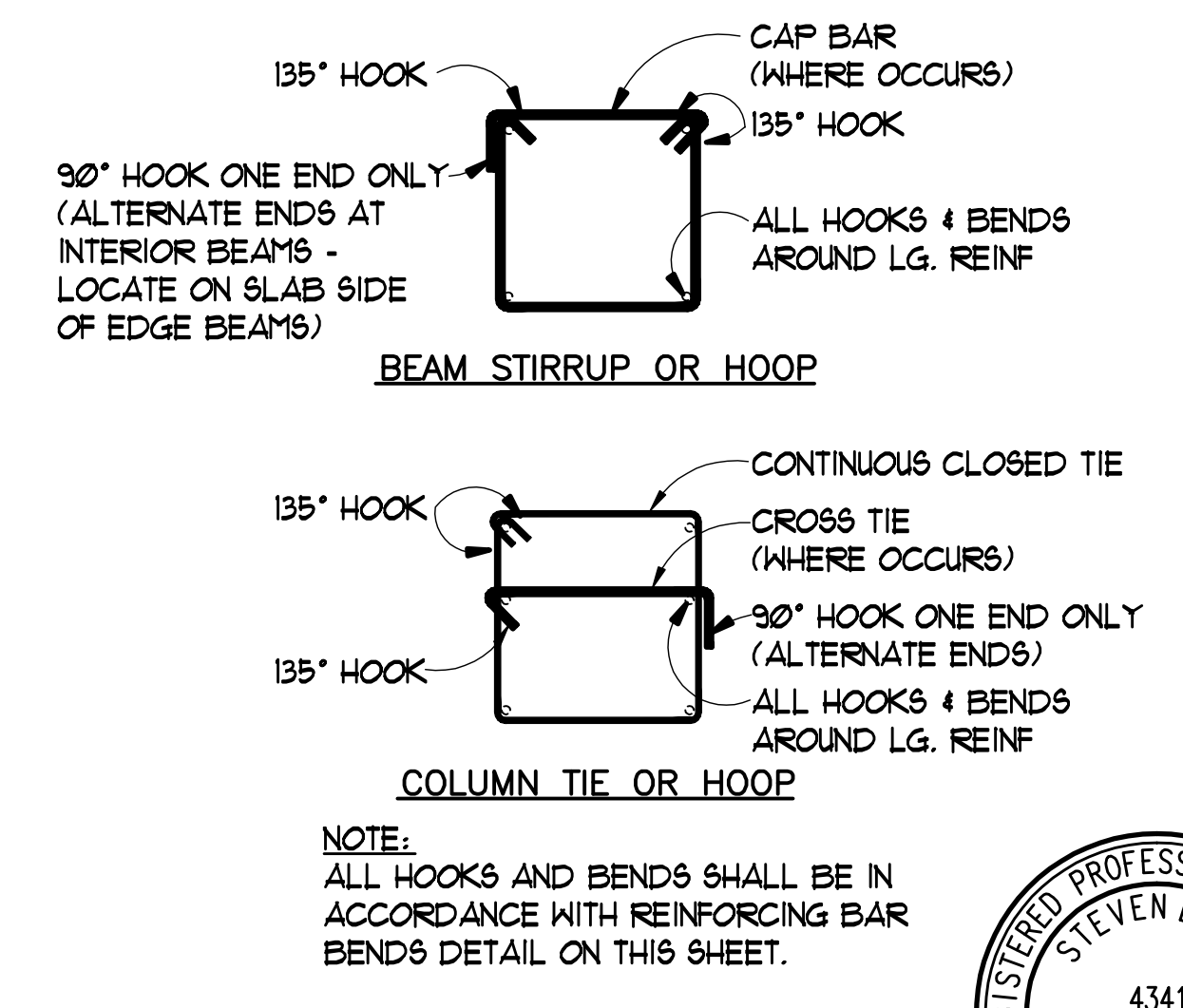
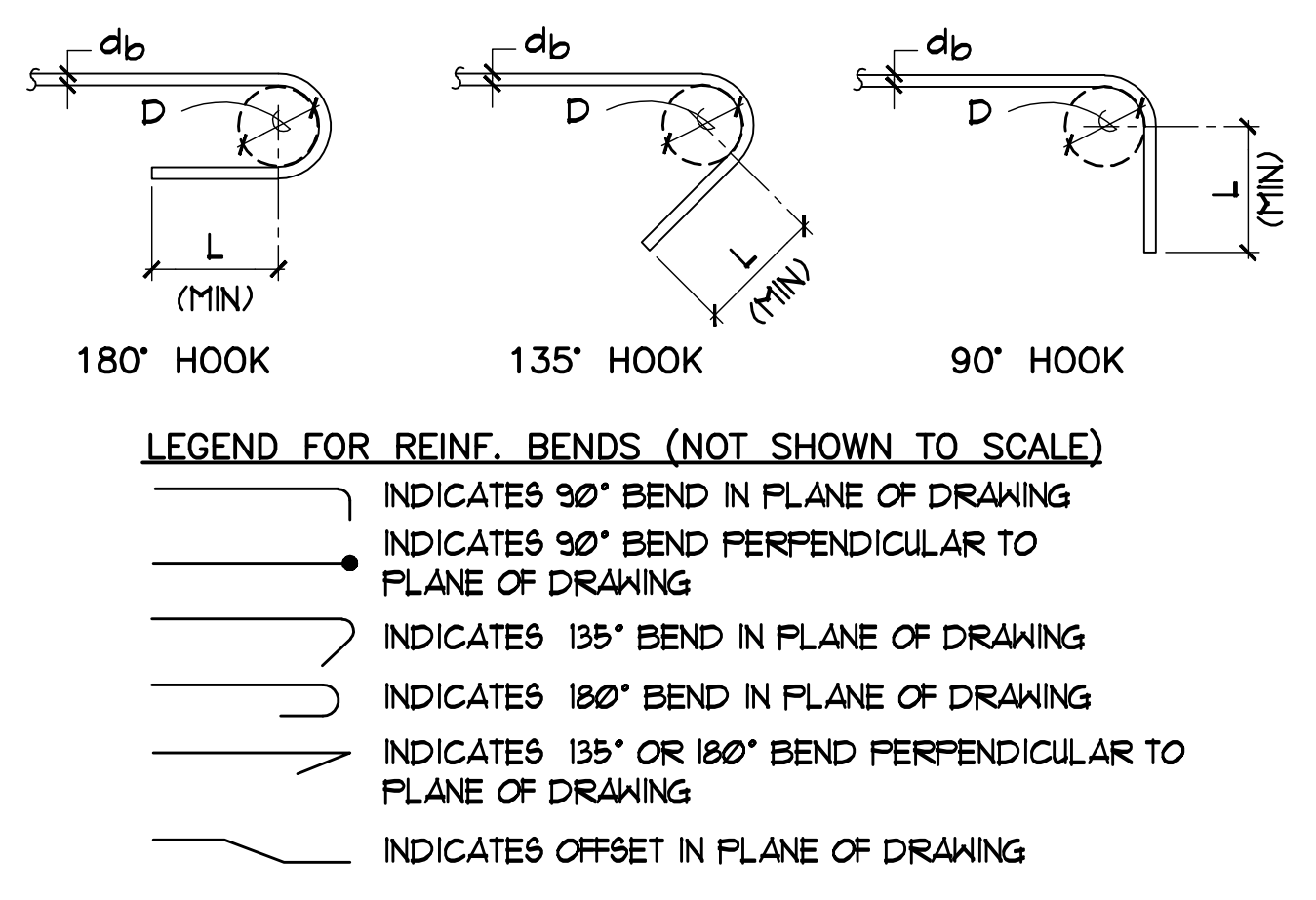
BARS OTHER THAN STIRRUPS, TIES, HOOPS & CROSS-TIES

BAR SIZE	"D"	180° "L"	135° "L"	90° "L"
#3	2 1/4	2 1/2	-	4 1/2
#4	3	2 1/2	-	6
#5	3 3/4	2 1/2	-	7 1/2
#6	4 1/2	3	-	9
#7	5 1/4	3 1/2	-	10 1/2
#8	6	4	-	12
#9	9 1/2	4 1/2	-	13 1/2
#10	10 3/4	5 1/4	-	15 1/4
#11	12	5 3/4	-	17
#14	18 1/4	7	-	21
#8	24	9	-	27

STIRRUPS, TIES, HOOPS & CROSS-TIES

BAR SIZE	"D"	"L"	"L"	"L"
#3	1 1/2	-	4	4
#4	2	-	4	4
#5	2 1/2	-	4	4
#6	4 1/2	-	4 1/2	9
#7	5 1/4	-	5 1/4	10 1/2
#8	6	-	6	12

(1) USE 3 3/4" IN CONC. BLK. CONSTRUCTION
 NOTE: ALL DIMENSIONS GIVEN ARE IN INCHES.



SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES		RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SAN MARCOS ENGINEERING DIVISION	City Drawing No.
By: _____ Fire Marshal	By: _____	By: Steve Rohy Name: Steve Rohy R.S.E.: 4341 exp.: 12/31/09	No. _____ Description _____ App'd By _____ Date _____	Date _____	By: Sossan Haghgoo, Deputy City Engineer R.C.E.: 42201 exp.: 03/31/2010	By: Michael D. Edwards, City Engineer R.C.E.: 32977 exp.: 06/30/2010	Description: Calliana Monument "78-12.9 1988 CDH" 2 1/4" brass disc (PI #1130 on Record of Survey 13928) Location: Brass disc in sidewalk at a point 66.7' south of the southwest corner of the Twin Oaks Valley Road bridge over Highway 78 Record from: Record of Survey 13928 Elev.: 581.91 Datum: MSL	SDP 06-318 MF 1599 TPM 651	IP-4783
Date: _____	Date: _____				Date: _____	Date: _____		Sheet 12 of 12	MAXIMO WO# 0815639