IMPROVEMENT NOTES

AND PUBLIC RIGHT-OF-WAY.

THE STRUCTURAL SECTIONS SHOWN ON THESE PLANS ARE BASED ON R-VALUE TESTS OR MINIMUM STRUCTURAL STANDARDS REQUIRED BY THE CITY, WHICHEVER IS GREATER. ACTUAL STRUCTURAL SECTIONS WILL BE DETERMINED AFTER THE "R" VALUE TEST HAS BEEN CONDUCTED BY A QUALIFIED GEOTECHNICAL ENGINEER ON THE PREPARED SUB-BASE MATERIAL. THE "R" VALUE TEST AND RECOMMENDED ENGINEERED STRUCTURAL SECTION MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO THE INSTALLATION OF BASE AND PAVING MATERIALS. STRUCTURAL SECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH CHAPTER 600 OF THE CALTRANS HIGHWAY DESIGN MANUAL. STRUCTURAL SECTIONS SHALL BE NOTED ON THE "AS-BUILT" DRAWINGS.

THIS NOTE WILL NOT APPLY TO THOSE AREAS WHERE GRADING IS MINIMAL AND "R" VALUES CAN BE OBTAINED PRIOR TO PLAN APPROVAL. ALL EXISTING STREETS SHALL BE CORE TESTED TO DETERMINE THE EXISTING STRUCTURAL SECTION AND TO DETERMINE THE EXTENT OF OVERLAY OR RECONSTRUCTION NECESSARY TO ACHIEVE THE REQUIRED "R" VALUES. TESTS SHALL BE PERFORMED AT LOCATIONS APPROVED BY THE PUBLIC

- 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.
- 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
- CONTRACTOR SHALL NOTIFY THE CITY'S PUBLIC WORKS DEPARTMENT 48 HOURS PRIOR TO THE BEGINNING OF ANY GRADING/CONSTRUCTION WORK
- PRECISE LOCATIONS/ELEVATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE NOT KNOWN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAKING SUFFICIENT EXPLORATIONS TO LOCATE ALL UTILITIES AND SUBSTRUCTURES WHETHER SHOWN ON THE PLANS OR NOT AND TO PROTECT THEM FROM ANY POSSIBLE DAMAGE PRIOR TO AND DURING CONSTRUCTION. THE EXPENSE OF REPAIR OR REPLACEMENT OF SAID UTILITIES AND SUBSTRUCTURES SHALL BE BORNE BY THE CONTRACTOR. CONTRACTOR SHALL NOTIFY THE ENGINEER—OF—WORK OF ANY POTENTIAL CONFLICTS SUFFICIENTLY IN TIME FOR CONSTRUCTION CHANGES TO BE MADE AND APPROVED.
- THE CONTRACTOR SHALL CONTACT THE UNDERGROUND SERVICE ALERT AT 1-800-422-4133 AT LEAST 48 HOURS PRIOR TO EXCAVATING TO VERIFY THE LOCATIONS OF UNDERGROUND FACILITIES OF THE FOLLOWING UTILITIES:

COX COMMUNICATIONS OR TIME WARNER COMMUNICATIONS PACIFIC BELL/SBC SAN DIEGO GAS & ELECTRIC/SEMPRA VALLECITOS WATER DISTRICT

A DIG ALERT IDENTIFICATION NUMBER MUST BE ISSUED BEFORE A "PERMIT TO EXCAVATE" IS VALID PER GOVERNMENT CODE SECTION 4216/4217.

- AN AS-BUILT DRAWING SHALL BE SUBMITTED FOR ALL PUBLIC IMPROVEMENTS PRIOR TO ACCEPTANCE OF SAID IMPROVEMENTS.
- 9. THE ENGINEER-OF-WORK SHALL BE NOTIFIED WHEN CONSTRUCTION COMMENCES.

THE CITY'S DESIGN STANDARDS AND SPECIFICATIONS.

- 10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION/GRADING OF SLOPES, PADS, STREET GRADES AND INFRASTRUCTURE IMPROVEMENTS ACCORDING TO THESE PLANS. THE ENGINEER-OF-WORK SHALL BE CONTACTED WHEN CHANGES OR ADDITIONS MADE DURING THE PROGRESS OF CONSTRUCTION OR IF THERE IS A MISUNDERSTANDING OF THESE PLANS OR FIELD STAKES AND AN INTERPRETATION IS NEEDED. CERTIFICATION FROM THE REGISTERED CIVIL ENGINEER STATING THAT THE GRADING HAS BEEN COMPLETED PER THE APPROVED PLAN, AND THE COMPACTION REPORT FROM THE GEOTECHNICAL ENGINEER ON ANY REQUIRED FILL AREAS SHALL BE PROVIDED PRIOR TO BUILDING PERMITS BEING ISSUED.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ANY MONUMENTATION AND/OR BENCHMARKS. ANY MONUMENTATION AND/OR BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A LICENSED LAND SURVEYOR OR A REGISTERED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED BY THE LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER AS REQUIRED BY THE LAND SURVEYOR'S ACT.
- 12. ALL EXISTING FEATURES AND STRUCTURES IN CONFLICT WITH THESE PLANS SHALL BE RELOCATED OR REMOVED AT THE DEVELOPER'S EXPENSE,
- 13. MINIMUM 90% COMPACTION IS REQUIRED IN ALL ON-SITE FILL AREAS WITH A MINIMUM OF 95% COMPACTION SIX INCHES (6") BELOW FINISHED SUBGRADE IN A PUBLIC STREET.
- ALL PUBLIC IMPROVEMENTS SHOWN ON THESE IMPROVEMENT PLANS SHALL BE CONSTRUCTED TO THE SATISFACTION OF THE PUBLIC WORKS DIRECTOR PRIOR TO OCCUPANCY OF ANY BUILDING,
- 15. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF ANY EQUIPMENT SHALL BE LIMITED TO THE HOURS OF 7:00 A.M. TO 4:30 P.M., MONDAY THROUGH FRIDAY. NO WORK SHALL BE PERFORMED ON THE PREMISES ON SATURDAY. SUNDAY OR HOLIDAYS.
- 16. NO PRIVATE IRRIGATION MAINS OR CONTROL VALVES SHALL BE PLACED WITHIN THE PUBLIC RIGHT-OF-WAY.
- 17. CURB RAMPS SHALL BE INSTALLED AT ALL CURB RETURNS PER TITLE 24, PART 2, STATE CHAPTER 71, SITE DEVELOPMENT REQUIREMENTS FOR HANDICAPPED ACCESSIBILITY, SECTION 7103, CURB RAMPS, OF THE CALIFORNIA BUILDING CODE.
- 18. ALL TRENCH EXCAVATION AND BACKFILL IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE REQUIREMENTS OF THE CITY'S EXCAVATION ORDINANCE
- 19. THESE PLANS HAVE BEEN EXAMINED BY THE CITY'S ENGINEERING DIVISION TO INSURE COMPLIANCE WITH GENERAL ENGINEERING STANDARDS AND
- THE ENGINEER-OF-WORK SHALL BEAR THE SOLE RESPONSIBILITY OF THE MATHEMATICAL DATA AND ACCURACY OF DESIGN SHOWN HEREON.
- 21. IF THE IMPROVEMENTS SHOWN ON THIS PLAN HAVE NOT BEEN CONSTRUCTED AND ACCEPTED BY THE CITY WITHIN TWO (2) YEARS OF THE DATE OF PLAN APPROVAL BY THE CITY ENGINEER, THESE PLANS WILL BE SUBJECT TO REVIEW BY THE CITY'S ENGINEERING DIVISION FOR CONFORMANCE WITH CURRENT CITY STANDARDS, POLICIES AND OR ADDITIONAL REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, RELOCATION OR REPLACEMENT OF ALL STRIPING, SIGNING OR TRAFFIC DETECTOR LOOPS AS REQUIRED BY THE PUBLIC WORKS DIRECTOR.
- 23. STREET SIGNING AND STRIPING ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE SUBJECT TO CITY OF SAN MARCOS PUBLIC WORKS DEPARTMENT APPROVAL
- 24. DUST CONTROL MEASURES, SUCH AS THE PERIODIC WETTING DOWN OF THE BARE AND EXPOSED AREAS, SHALL BE USED AT ALL TIMES DURING CONSTRUCTION TO THE SATISFACTION OF THE PUBLIC WORKS AND/OR BUILDING INSPECTORS,
- 25. THE CONTRACTOR IS ADVISED THAT HE IS RESPONSIBLE FOR MAINTAINING THE ADJOINING PUBLIC STREETS AND RIGHT-OF-WAYS IN A CLEAN AND DUST FREE CONDITION WITHIN THE LIMITATION OF THE CITY MUNICIPAL CODE SECTION 14.15.030 "ILLICIT DISCHARGES PROHIBITED." THIS SECTION OF THE CODE PROHIBITS THE "WASHING DOWN" OF A STREET INTO A PUBLIC STORM DRAIN. THE CONTINUOUS USE OF STREET SWEEPING MACHINES MAY BE ADVISABLE.
- THE ENGINEER-OF-WORK IS NOT RESPONSIBLE FOR GRADING OPERATIONS OR GRADING DONE. THE CONTRACTOR IS SOLELY RESPONSIBLE.
- A PERMIT MUST BE OBTAINED FROM THE SAN MARCOS FIRE DEPARTMENT PRIOR TO ANY BLASTING, CITY PERMITS ARE
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUALLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, THE ENGINEER AND THE CITY HARMLESS FROM ANY AND ALL LIABLITY, REAL OR ALLEGED, MINE CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, ENGINEER OR CITY.
- EROSION CONTROL, INCLUDING RIP—RAP, INTERIM SLOPE PROTECTION, SANDBAGS OR OTHER EROSION CONTROL MEASURES SHALL BE PROVIDED AS NECESSARY TO CONTROL SEDIMENT AND SILT FROM THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL FACILITIES THROUGHOUT THE DEVELOPMENT OF THE PROJECT.
- 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.
- 31. FIRE SPRINKLERS ARE REQUIRED ON ALL HOMES ON LOTS ______ THROUGH ______
- 32. ALL LOTS REQUIRING FIRE SPRINKLERS MUST HAVE A MINIMUM _____
- 33. IN NO CASE SHALL THE CITY BE RESPONSIBLE FOR CONSTRUCTION COSTS FOR THESE IMPROVEMENTS, INCLUDING THE UNDERGROUNDING OF EXISTING AND NEW DRY UTILITIES, OR ANY NECESSARY REPAIRS.

PRIOR TO ANY CONSTRUCTION, EXCAVATION, STORAGE OF MATERIALS OR ANY OTHER ENCROACHMENTS

34. FIRE HYDRANTS SHALL BE AS FOLLOWS:

RESIDENTIAL "SINGLE FAMILY DETACHED DWELLINGS" JONES 3700 OR CLOW 2050, ONE-4" AND ONE-2%" OUTLETS MULTI-FAMILY, COMMERICAL OR INDUSTRIAL, JONES 3775 OR CLOW 2065, TWO-4" AND ONE-2½" OUTLETS.

VALLECITOS WATER DISTRICT

BASIS OF BEARINGS

SAN MARCOS FIRE DEPARTMENT

Fire Marshal

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", (PT.#1038 ON RO 13928) AND CALIFORNIA DEPARTMENT OF TRANSPORTATION MONUMENT "78-12.9 1988", (PT. #1130 ON ROS 13928), I.E. N87°44'19"W. SAID BEARING AND THE BEARINGS SHOWN HEREON ARE IN TERMS OF THE CALIFORNIA COORDINATE SYSTEM NAD'83, ZONE 6. QUOTED BEARINGS FROM REFERENCE MAPS OR DEEDS MAY OR MAY NOT BE IN TERMS OF SAID SYSTEM.

ENGINEER OF WORK

Name: Richard G. Lang, P.E

R.C.E.: 39016 exp: 03/31/09

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, JOB #982345, AND GROUND FIELD SURVEYS PERFORMED BY POUNTNEY & ASSOCIATES, INC. DATED FEBRUARY 19 & 23, 1998 AND IN MARCH OF 2000.

CAMPUS POINTE MEDICAL CENTRE IMPROVEMENT PLANS

VALLECITOS WATER DISTRICT GENERAL NOTES

- 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. VALLECITOS WATER DISTRICT 1-760-744-0460 COX COMMUNICATION 1-800-227-2600 PACIFIC BELL 1-800-227-2600 UNDERGROUND SERVICE ALERT SAN DIEGO GAS & ELECTRIC 1-800-227-2600 1-800-227-2600
- 4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL SUBSTRUCTURES, WHETHER SHOWN ON THE PLANS OR NOT, AND PROTECT THEM FROM DAMAGE. THE ACTUAL LOCATION AND DEPTH OF ALL EXISTING WATER AND SEWER LINES IS TO BE VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCY IS TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF WORK FOR CORRECTION AND THEN SUBMITTED TO THE DISTRICT FOR APPROVAL
- 5. NEITHER THE ENGINEER, OWNER NOR THE VALLECITOS WATER DISTRICT SHALL BE RESPONSIBLE FOR THE ENFORCEMENT OF SAFETY STANDARDS.
- 6. A PRECONSTRUCTION CONFERENCE MEETING WITH VALLECITOS WATER DISTRICT PERSONNEL SHALL BE HELD A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION
- 7. A SIGNED SET OF IMPROVEMENT PLANS DOES NOT IMPLY THAT CONSTRUCTION MAY BEGIN. THE CONTRACTOR MUST CONTACT THE VALLECITOS WATER DISTRICT ENGINEERING DEPARTMENT.
- 8. ANY PROPOSED CHANGES IN THE APPROVED IMPROVEMENT PLANS MUST BE REVIEWED AND APPROVED BY THE DISTRICT PRIOR TO THE INSTALLATION OF SUCH CHANGES AND THE CHANGES SHALL BE SHOWN ON THE IMPROVEMENT PLANS.
- 9. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO MAINTAIN AT ALL TIMES ON THE JOB SITE, AN "AS-BUILT" RECORD OF ALL WATER AND SEWER MAINS AND APPURTENANCES INSTALLED UNDER HIS CONTRACT AND PROVIDE SAID RECORD TO THE ENGINEER AT THE COMPLETION OF THE CONTRACT. THE ENGINEER SHALL PROVIDE TWO (2) BLUELINE SETS OF "AS-BUILTS" TO THE DISTRICT PRIOR TO THE WATER AND SEWER SYSTEM BEING PLACED INTO SERVICE, AND A FINAL "AS-BUILT" MYLAR AS A CONDITION OF ACCEPTANCE OF THE WATER AND SEWER SYSTEM.
- 10. ALL CONTRACTORS WORKING IN THE PUBLIC RIGHTS-OF-WAY SHALL OBTAIN A SEPARATE ENCROACHMENT PERMIT OR EXCAVATION PERMIT FROM THE APPROPRIATE AGENCY. INSPECTION OF ALL WORK IS REQUIRED. FORTY-EIGHT (48) HOURS ADVANCE NOTICE IS REQUIRED FOR INSPECTION. NO WORK SHALL BE PERFORMED IN THE PUBLIC RIGHT-OF-WAY ON SATURDAYS, SUNDAYS OR LEGAL HOLIDAYS WITHOUT THE EXPRESS PERMISSION OF THE DISTRICT ENGINEER.
- 11. CONTRACTOR SHALL POTHOLE (EXCAVATE AND EXPOSE) ALL UTILTIES ALONG CONSTRUCTION EXCAVATION CORRIDOR AS SHOWN ON THE PLANS OR IDENTIFIED BY USA MARK-OUT. 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 UTILTIIES, AS IDENTIFIED BY THE CONTRACTOR, SHALL BE SUBMITTED PRIOR TO CONSTRUCTION. CONSEQUENCES OFCONTRACTOR'S FAILURE TO POTHOLE AND PROVIDE INFORMATION TO DISTRICT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY AND LIABILITY.
- 12. A BLASTING PLAN SHALL BE SUBMITTED FOR DISTRICT APPROVAL PRIOR TO THE USE OF EXPLOSIVES NEAR DISTRICT FACILITIES.
- 13. NEW STREETS SHALL BE CONSTRUCTED TO SUB GRADE PRIOR TO INSTALLATION OF THE PUBLIC WATER OR SEWER SYSTEM.
- 14. ALL WATER LINES SHALL BE DUCTILE IRON PIPE, CLASS 350, OR AS NOTED. ALL FITTINGS ARE TO BE PUSH ON, UNLESS OTHERWISE SHOWN AND APPROVED BY THE DISTRICT ENGINEER. MAXIMUM ALLOWABLE DEFLECTION FOR DIP SHALL BE 3 DEGREES. ALL SEWER LINES SHALL BE BELL AND SPIGOT SDR35 PVC PIPE, OR AS NOTED. LATERALS MAY BE WHITE OR GREEN.
- 15. THE CONTRACTOR SHALL TEST HIS LINES AGAINST HIS OWN BLOCKING AND NOT AGAINST DISTRICT VALVES.
- 16. UPON CONNECTION OF THE NEW WATER SYSTEM TO THE EXISTING SYSTEM, ALL VALVES ON THE EXISTING AND NEW SYSTEM SHALL BE OPERATED ONLY BY DISTRICT PERSONNEL. THE DEVELOPER OR CONTRACTOR SHALL NOTIFY DISTRICT INSPECTOR IN WRITING A MINIMUM OF 6 WORKING DAYS PRIOR TO A PLANNED SHUTDOWN. ALL SHUTDOWNS REQUIRE A STATE CERTIFIED BACTERIA TEST.
- 17. UNLESS OTHERWISE SHOWN, SEWER LATERALS AND WATER SERVICES SHALL BE RUN PERPENDICULAR TO THE MAIN.
- 18. THE MINIMUM SIZE FOR WATER SERVICES SHALL BE ONE-INCH (1"), ALL WATER SERVICES SHALL BE MARKED WITH A "W" ON THE CURB AND SHALL BE SHOWN ON THE "AS-BUILT" DRAWINGS.
- 19. PRESSURE REGULATING VALVES SHALL BE INSTALLED BEFORE THE WATER METER FOR ALL INSTALLATIONS WITH GREATER THAN 150 PSI. 1" HIGH PRESSURE WATER SERVICES WILL REQUIRE A #6B METER BOX.
- 20. ALL MATERIALS SHALL UTILIZED ONLY WITHIN THE PRESSURE RATING OF THE DEVICE.
- 21. ALL SEWER LATERALS SHALL BE CONSTRUCTED TO A MINIMUM FIVE-FOOT (5') DEPTH (TO TOP OF PIPE) AT PROPERTY LINE AND SHALL BE CLEAR OF DRIVEWAYS. ALL LATERALS SHALL BE CLEARLY MARKED WITH AN "S" ON THE CURB AND SHALL BE SHOWN ON THE "AS-BUILT" DRAWINGS.
- 22. ALL ABANDONED SEWER LATERALS SHALL BE CAPPED AT THE MAIN. ALL ABANDONED WATER SERVICES SHALL BE PLUGGED OFF AT THE MAIN. AND THE CONNECTION SEVERED, BAILS AND SERVICE SADDLES OTHER THAN BRASS SHALL BE REPLACED PRIOR TO ABANDONMENT, RELOCATE EXISTING SERVICES AS DIRECTED BY THE DISTRICT ENGINEER, WATER MAIN STUBS WHICH ARE NOT USED SHALL BE ABANDONED AT THE MAIN BY REMOVING VALVE AND INSTALLING BLIND FLANGE AT TEE. SHUTDOWN OF WATER MAINS MAY BE REQUIRED DURING ABANDONMENT. ABANDONING EXISTING WATER OR SEWER MAINS SHALL CONSIST OF REMOVAL OR SLURRY FILL AS APPROVED BY THE
- 23. DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ACP PIPE WHICH SHALL BE PERFORMED BY A CONTRACTOR REGISTERED BY CAL/OSHA AND CERTIFIED BY THE STATE CONTRACTORS LICENSING BOARD FOR ASBESTOS REMOVAL.
- 24. WATER SERVICES WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN FULL WITH A COPPER SERVICE PER DISTRICT SPECIFICATIONS AS DIRECTED BY THE DISTRICT. SEWER LATERALS OR WYES DAMAGED OR MODIFIED DURING CONSTRUCTION SHALL BE REPLACED IN FULL, AS DIRECTED BY THE DISTRICT.
- 25. RELOCATION OR EXTENSION OF AN EXISTING WATER METER SHALL MEAN INSTALLATION OF THE METER AT A LOCATION IN CONFORMANCE WITH DISTRICT SPECIFICATIONS AS DIRECTED BY THE DISTRICT AND PERPENDICULAR TO THE MAINLINE CONNECTION, UNLESS OTHERWISE NOTED, SERVICE LATERALS OTHER THAN COPPER SHALL BE REPLACED TO THE MAIN. BAILS AND SERVICE SADDLES OTHER THAN BRASS SHALL ALSO BE REPLACED, SHUTDOWN OF MAIN MAY BE REQUIRED,
- 26. PRIOR TO ACCEPTANCE OF ANY SEWER LINE BY THE DISTRICT, ALL MAINS SHALL BE AIR TESTED, FLUSHED CLEAN USING THE "WAYNE" BALL METHOD OR VACTOR TRUCK, AND SHALL PASS A 5% MANDREL THROUGH THE PIPE, ALL TEST WATER SHALL BE PUMPED, A VIDEO CAMERA INSPECTION OF THE SEWER MAIN SHALL BE CONDUCTED BY PRIVATE
- 27. THE DISTRICT WILL NOT SUPPLY WATER SERVICE, EXCEPT FOR FIRE PROTECTION, TO ANY PROJECT UNTIL ALL PROVISIONS OF THE DISTRICT STANDARDS AND IMPROVEMENT PLANS HAVE BEEN MET, AND FINAL ACCEPTANCE OF THE PROJECT HAS BEEN GRANTED BY THE DISTRICT BOARD OF DIRECTORS.

LEGAL DESCRIPTION:

PARCEL A: AP.N. # 220-201-02 ALL OF LOT TWENTY TWO (22) AND LOT TWENTY ONE (21), EXCEPT THE WESTERLY 100 FEET THEREOF, ALL IN BLOCK 58 OF RANCHO LOS VALLECITOS DE SAN MARCÓS, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF NO. 806, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, DECEMBER 21, 1895; EXCEPTING THEREFROM THAT PORTION CONVEYED TO THE STATE OF CALIFORNIA BY DEED RECORDED APRIL 11, 1960 AS FILE NO. 74130. PARCEL B: A.P.N. # 220-201-01 THE WESTERLY 100 FEET OF LOT TWENTY ONE (21) BLOCK 58 OF RANCHO LOS VALLECITOS DE SAN MARCOS, ACCORDING TO THE MAP THEREOF NO. 806, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, DECEMBER 21, 1895. EXCEPTING THEREFROM THAT PORTION CONVEYED TO THE STATE OF CALIFORNIA BY DEED RECORDED APRIL 11, 1960, AS FILE NO 74130.

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, DATED MARCH 12, 1999 AND UPDATE LETTER DATED DECEMBER 14, 2005.

No. 396

∖ Exp. 03–31–10

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

OWNER / PERMITTEE:

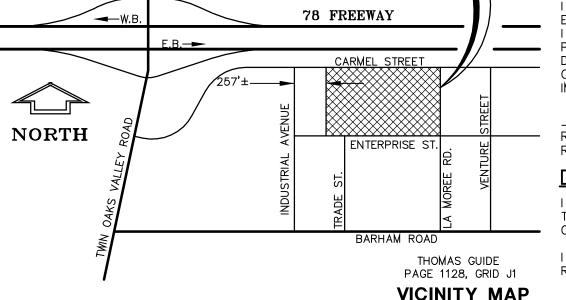
No. Description

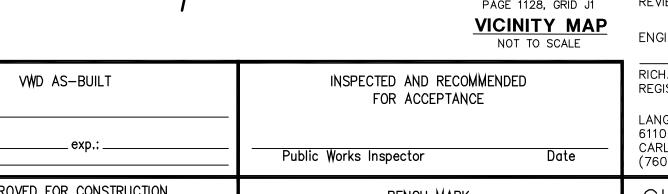
CARMEL, LLC c/o ELKINS-ZIRPOLO, INC Attn: ALEXANDER ZIRPOLO 2150 FIRST AVENUE SAN DIEGO, CA 92101 (619)239-3434

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.

ALEXANDER ZIRPOLO, MANAGING MEMBER

NORTH ENTERPRISE THOMAS GUIDE PAGE 1128, GRID J1





DECLARATION OF ENGINEER OF WORK (VALLECITOS WATER DISTRICT): PROJECT SITE 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 ASSUME FULL RESPONSIBLE CHARGE FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE SIGNATURE OF THESE PLANS BY AND THE REVIEW OF THE PLANS BY VALLECITOS WATER DISTRICT, IS A REVIEW OF GENERAL COMPLIANCE WITH DISTRICT STANDARDS. THIS APPROVAL IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OR ACCURACY OF THE DESIGN OF THE IMPROVEMENTS. SUCH APPROVAL DOES NOT, THEREFORE, RELIEVE ME OF MY RESPONSIBILITY FOR THE DESIGN OF THESE IMPROVEMENTS. RICHARD G. LANG, R.C.E. 39016 REGISTRATION EXPIRES, MARCH 31, 2009 <u>DECLARATION OF RESPONSIBLE CHARGE (CITY OF SAN MARCOS)</u> 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.

WORK TO BE DONE:

DESCRIPTION

EXISTING SLOPE_

EXISTING CONTOUR_

EXIST. WATER LINE_

EXIST. SEWER LINE_

EXISTING SPOT ELEVATION.

EXISTING STREET LIGHT_

EXIST. SEWER MANHOLE_

EXIST. STORM DRAIN_

PROPOSED CONTOUR_

6" AC DIKE, TYPE A.

CONCRETE SIDEWALK_

36" HEADWALL

TYPE A CLEANOUT.

TRUNCATED DOMES_

SHEET INDEX

SHEET 1:

SHFFT 3

SHEET 4:

SHEET 5:

SHFFT 8:

SHEET 9:

SHEET 10:

SHFFT 11:

SHEET 6

20' RADIUS TYPE DRIVEWAY.

PROPOSED SPOT ELEVATION-

CARMEL/ENTERPRISE STREET PAVEMENT

6" TYPE "G" CURB AND GUTTER_

STORM DRAIN (SIZE PER PLAN).

BOX CULVERT (SIZE PER PLAN)

SPECIAL JUNCTION STRUCTURE.

8" DETECTOR CHECK ASSEMBLY

PRIVATE 6" SEWER CLEANOUT.

COVER SHEET

SITE DETAILS

STRUCTURAL DETAILS

STRUCTURAL DETAILS

STRUCTURAL DETAILS

STRUCTURAL DETAILS

TYPICAL STRUCTURAL NOTES

TYPICAL STRUCTURAL DETAILS

STORM DRAIN IMPROVEMENT PLAN

CARMEL STREET IMPROVEMENT PLAN

ENTERPRISE STREET IMPROVEMENT PLAN

CARMEL STREET SIGNAGE AND STRIPING PLAN

HYDROLOGY/HYDRAULIC REPORT

PRIVATE 6" SEWER LATERAL

DAYLIGHT LINE.

PROPERTY LINE/RIGHT OF WAY

EXIST. CURB AND GUTTER/EDGE OF PAVEMENT

EXIST. JOINT UTILITY TRENCH (ELECT., GAS, PHONE, CABLE)

1) SAN DIEGO AREA REGIONAL STANDARD DRAWINGS

I CITY OF SAN MARCOS GRADING AND EXCAVATION ORDINANCE

6) STATE OF CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONÌROL DEVIĆES

VALLECITOS WATER DISTRICT STANDARD DRAWINGS AND SPECIFICATIONS

STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREEN BOOK")

4) STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS

5) STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS

STD. DWG.

ANY CHANGES OR REVISIONS THEREFROM SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

_SAN MARCOS DETAIL

_SEE SHEET 7__

_VWD S-12. SDR-35__

DATED MAY 23, 2008, JOB NO. 060525, AS PREPARED BY LANG ENGINEERING COMPANY.

RSD G-30_

VWD S-7

LEGEND

THE GRADING CONSISTS OF THE FOLLOWING WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING DOCUMENTS

SYMBOL

(580.00)

____W____FS___

337 EAST CARMEL STREET

SAN MARCOS, CA 92069

220-201-01 & 02

A.P.N.:

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,

QUANTITY

6,763 S.F.

527 L.F.

65 L.F.

1,563 S.F.

31 L.F. - 18" RCP

8 L.F. - 36" RCP 157 L.F. - 42" RCP

31 L.F. - 60" RCP

1 EA,-TYPE A-5

3 EA.-TYPE A-8

30 L.F. - 6" PVC

IMPORTANT NOTICE

Section 4216 of the Government

Code requires that a Dig Alert Identificatio

Number be issued before a

"Permit to Excavate" will be valid.

For your Dig Alert I.D. Number Call

Underground Service Alert at

'wo working days before you di

1 EA,

6 EACH

2 EACH

1 EACH

2 EA,-TYPE A-8, MODIFIED

307 L.F. - 72" RCP

186 C.Y. - 8'x5' BOX CULVERT

ENGINEER OF WORK: DATE RICHARD G. LANG, R.C.E. 39016 No. 39016 REGISTRATION EXPIRES, MARCH 31, 2009 Exp. 03-31-09 LANG ENGINEERING COMPANY 6110 INNOVATION WAY CARLSBAD, CA 92009 (760)692 - 1950

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. onsulting Engineers Land Planners O INNOVATION WAY ARLSBAD, CALIFORNIA 92009

PH(760)692-195 FAX(760)692-195 © 2008 LANG ENGINEERING COMPANY CITY OF SAN MARCOS ENGINEERING DIVISION City Drawing No.

CAMPUS POINTE MEDICAL CENTRE

IP-4783 Sheet **1** of **12**

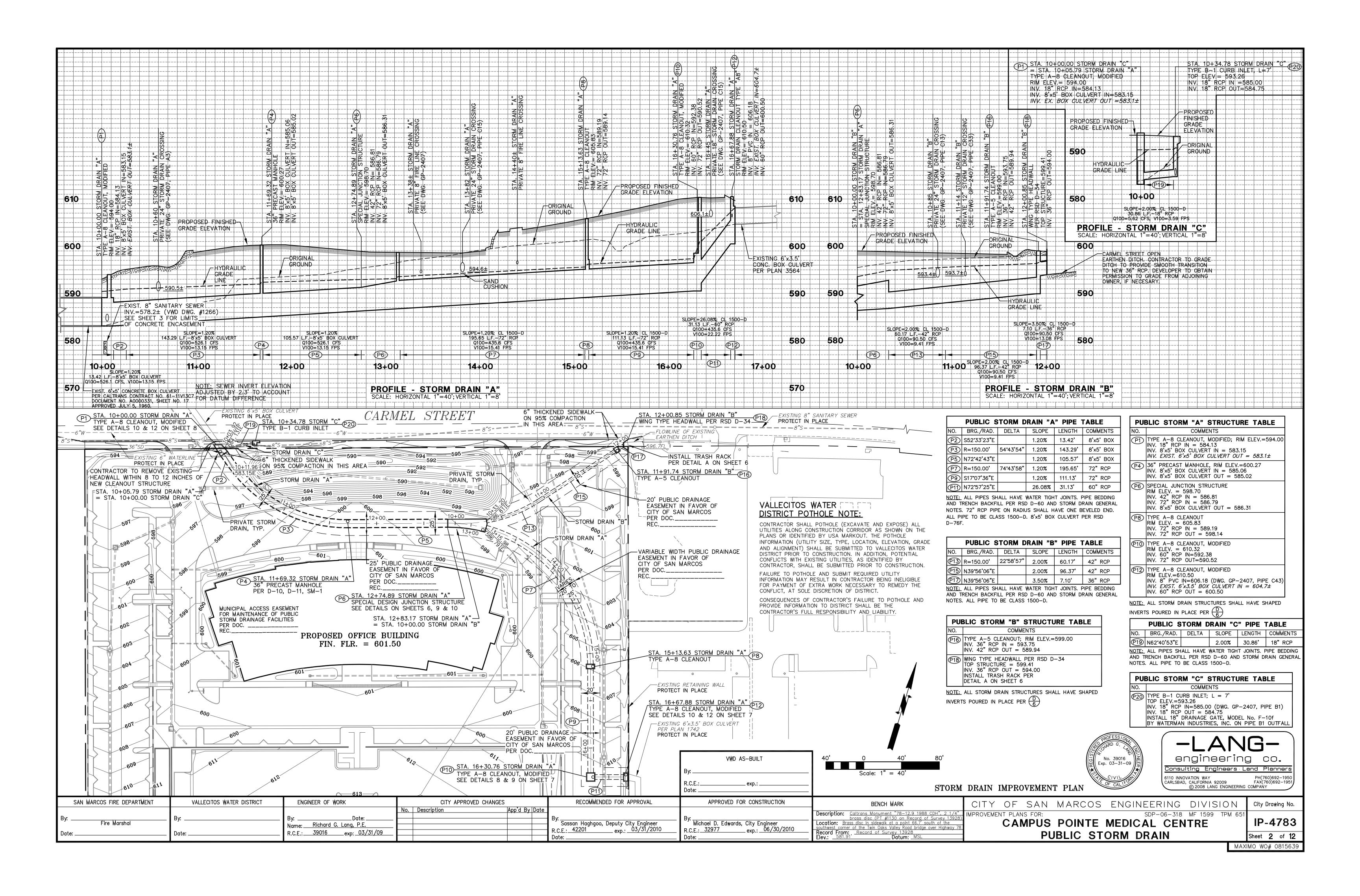
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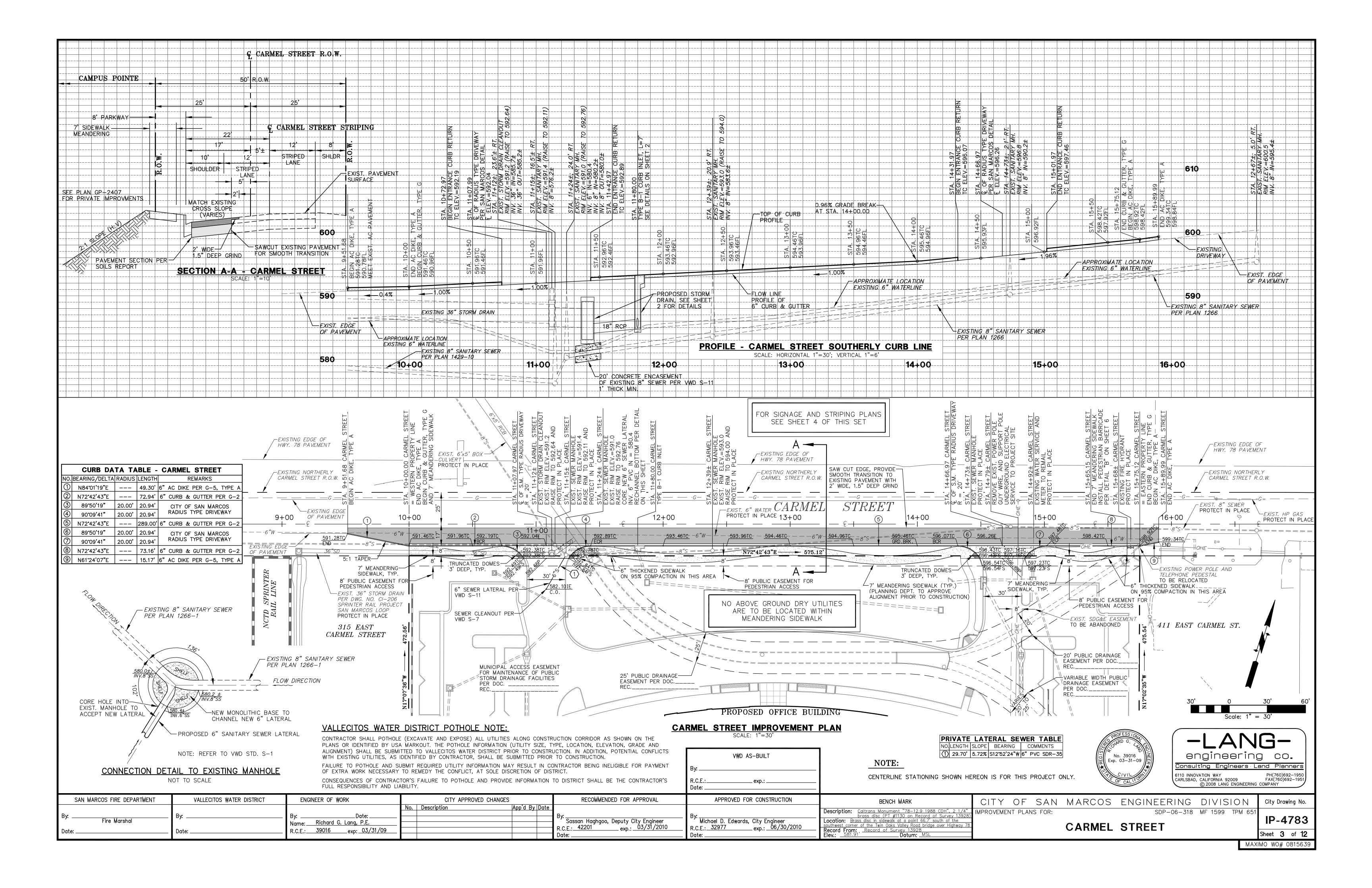
Date: . APPROVED FOR CONSTRUCTION BENCH MARK

RECOMMENDED FOR APPROVAL CITY APPROVED CHANGES App'd By Date Sassan Haghgoo, Deputy City Engineer 2.C.E.: 42201 $_{\rm exp.:}$ 03/31/2010 Date:

Description: Caltrans Monument "78-12.9 1988 CDH", 2 1/4 IMPROVEMENT PLANS FOR: <u>brass disc (PT #1130 on Record of Survey 1392</u> Location: Brass disc in sidewalk at a point 66.7' south of the <u>southwest corner of the Twin Oaks Valley Road bridge over Highway 7</u> _exp.: <u>06/30/2010</u> Record From: Record of Survey 13928
Flev: 581.91 ______ Datum: ______

Michael D. Edwards, City Engineer R.C.E.: 32977 Date: ___





<u>GENERAL TRAFFIC NOTES</u>

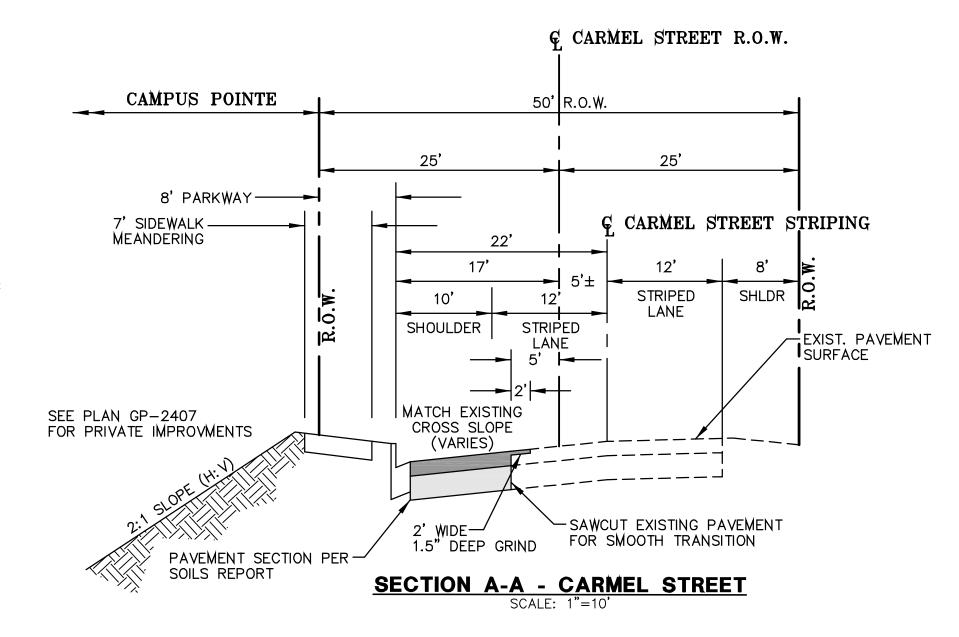
- 1. A TRAFFIC CONTROL PLAN, INCLUDING THE LAYOUT OF CONSTRUCTION WARNING AND DETOUR SIGNS, SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR APPROVAL A MINIMUM OF 72 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. TRAFFIC CONTROL SHALL BE IMPLEMENTED BEFORE ANY WORK IS STARTED.
- 2. BEFORE EXCAVATING, 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 SAN DIEGO GAS & ELECTRIC VALLECITOS WATER DISTRICT COX COMMUNICATIONS

TRAFFIC SIGNING NOTES

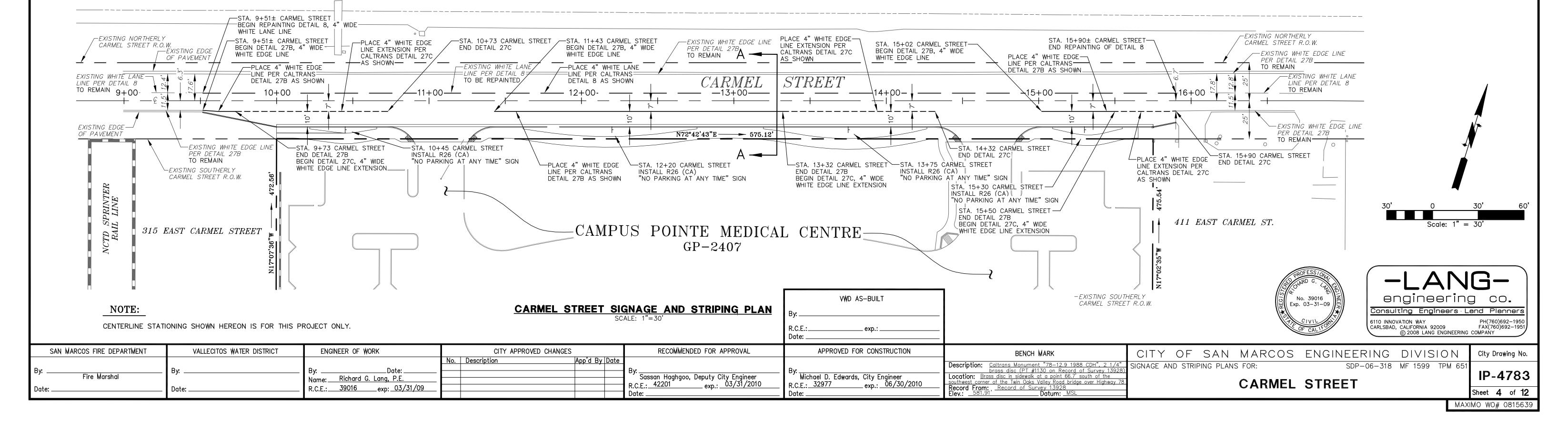
- 1. SIGNING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBJECT TO CITY OF SAN MARCOS PUBLIC WORKS DEPARTMENT APPROVAL. ALL SIGNS SHALL CONFORM TO THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- A. SHALL BE, TUBULAR BREAK-AWAY POSTS (TELSPAR OR UNISTRUT), 1 3/4" GALVANIZED STEEL OR EQUAL;
- B. 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; C. SHALL HAVE A MAXIMUM OF TWO SIGNS (WITH DIFFERENT MEANINGS) ON EACH SIDE (MAXIMUM NUMBER OF SIGNS ON BOTH SIDES SHALL NOT EXCEED FOUR).
- D. 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)]; E. LOCATED IN THE MEDIAN, SHALL BE SET IN AN EIGHT INCH DIAMETER (8" Φ) BY TWENTY-FOUR INCH (24") (8"Φ Χ 24") DEEP (20.3 CM \$\phi\$ X 61 CM) PVC SLEEVE AND BACKFILLED WITH SAND TO THE TOP OF THE SLEEVE;
- F. SHALL BE NEW (USED POSTS ARE PROHIBITED ON NEW SIGN INSTALLATIONS); G. SHALL BE REJECTED IF DAMAGED, BENT OR SPLINTERED;
- H. LOCATIONS SHALL BE MARKED BY CONTRACTOR AND APPROVED BY THE PUBLIC WORKS DIRECTOR OR HIS ASSIGNEE PRIOR TO FINAL
- I. 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. J. SHALL BE ALUMINUM POSTS FOR STREET NAME SIGNS * WOOD POSTS USED FOR CLASS II OR III BARRICADES SHALL BE PAINTED
- A. SHALL BE ALUMINUM AND HAVE REFLECTIVITY FACING AND MESSAGE WITH AN HIGH INTENSITY DESIGN OR BETTER;
- B. SHALL HAVE A MINIMUM OF TWELVE INCHES (12") (30.5 CM) HORIZONTAL CLEARANCE BEHIND THE CURB FACE;
- C. FORTY-EIGHT INCHES (48") (121.9 CM) WIDE SHALL BE STRAPPED ON THE BACK OF THE SIGN WITH SIGN STRAP HARDWARE;
- D. LARGER THAN FORTY-EIGHT INCHES (48") (121.9 CM) WIDE SHALL BE SET ON TWO POSTS;
- E. SHALL BE MOUNTED ON:
- 1) NEW OR EXISTING STREET LIGHT STANDARDS SHALL USE A 3/4" (1.91CM) "BAND IT" STEEL STRAPPING WITH FASTENERS; 2) 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
- F. SIGNS MOUNTED ON POWER/UTILITY POLES PROHIBITED.
- 4. THE CONTRACTOR SHALL NOTIFY THE CITY OF SAN MARCOS' PUBLIC WORKS DEPARTMENT UPON COMPLETION OF SIGNING.
- 5. EXISTING SIGNS SHALL BE SALVAGED AND DELIVERED TO THE PUBLIC WORKS DEPARTMENT LOCATED AT 201 MATA WAY. 6. 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.
- 7. 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.
- 8. SPEED LIMIT SIGN INSTALLATION SHALL INCLUDE PAVEMENT LEGENDS.

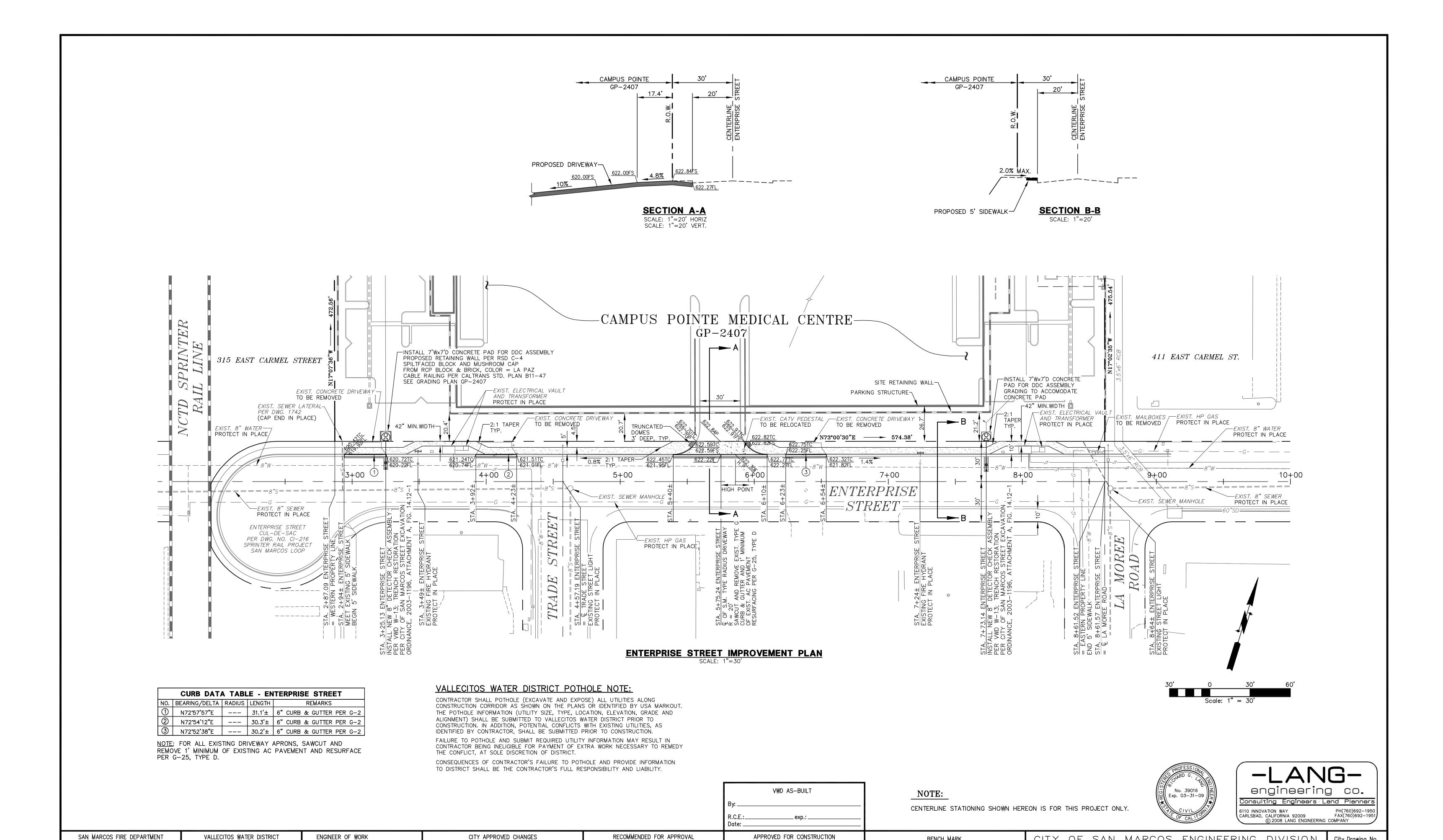
TRAFFIC STRIPING NOTES

- 1. 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.
- 2. 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.
- 3. 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".
- 4. 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.
- 5. 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.
- 7. SECTION 84-3.02 "MATERIALS" OF THE LATEST EDITION OF THE CALTRANS STANDARD SPECIFICATIONS IS AMENDED TO READ AS FOLLOWS: PAINT 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 (VIOLATILE 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 FOLSUM BLVD., SACRAMENTO, CA 95819-4612; (916) 227-7000.
- 8. ALL STRIPING SHALL INCLUDE RAISED PAVEMENT MARKERS (RPMS) PER THE APPROPRIATE CALIFORNIA MANUAL ON UNIFORM TRAFFIC
- CONTROL DEVICES DETAILS. 9. RAISED PAVEMENT MARKERS (RPMS) SHALL BE CERAMIC OR ABS (ACRYLONITRILE-BUTADIENE-STYRENE) PLASTIC. APPROVED RPM TYPES ARE AS FOLLOWS:
- A. TYPE A AND AY CERAMIC -4" ϕ (10.2 CM ϕ) (WHITE OR YELLOW);
- B. 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).
- 10. 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.
- 11. THE CONTRACTOR SHALL NOTIFY THE CITY OF SAN MARCOS' PUBLIC WORKS DEPARTMENT UPON COMPLETION OF STRIPING.
- 12. TWO COATS OF PAINT SHALL BE APPLIED ON NEW SURFACES AND ONE ON EXISTING SURFACES.
- 13. THERMOPLASTIC STRIPING AND PAVEMENT MARKING LEGENDS MAYBE USED WITH PRIOR APPROVAL FROM THE CITY OF SAN MARCOS PUBLIC WORKS DIRECTOR,
- 14. 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.
- 15. 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.
- 16. ALL CROSSWALKS AND LIMIT LINES AT SIGNALIZED INTERSECTIONS SHALL BE INSTALLED WITH THERMOPLASTIC, UNLESS OTHERWISE NOTED ON THE PLANS.
- 17. ALL DETAIL 40 AND DETAIL 41 WITHIN THE INTERSECTIONS SHALL BE INSTALLED WITH THERMOPLASTIC, UNLESS OTHERWISE NOTED ON
- 18. PAVEMENT MARKING LEGEND STENCILS SHALL BE CALTRANS STANDARD NON-METRIC "" 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





No. Description

Name: Richard G. Lang, P.E.

R.C.E.: 39016 exp: 03/31/09

Fire Marshal

|App'd By|Date

Sassan Haghgoo, Deputy City Engineer R.C.E.: 42201 exp.: 03/31/2010

CITY OF SAN MARCOS ENGINEERING DIVISION

ENTERPRISE STREET

City Drawing No.

IP-4783

Sheet **5** of **12**

MAXIMO WO# 0815639

SDP-06-318 MF 1599 TPM 65

BENCH MARK

Michael D. Edwards, City Engineer
.C.E.: 32977 exp.: 06/30/2010

R.C.E.: 32977

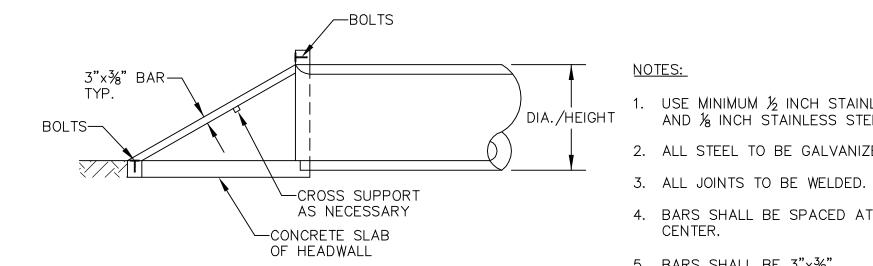
Date: ___

Description: Caltrans Monument "78—12.9 1988 CDH", 2 1/4" brass disc (PT #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

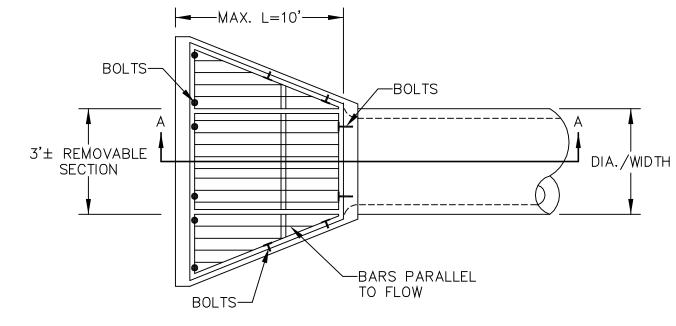
Record From: Record of Survey 13928

Elev.: 581.91' Datum: MSL



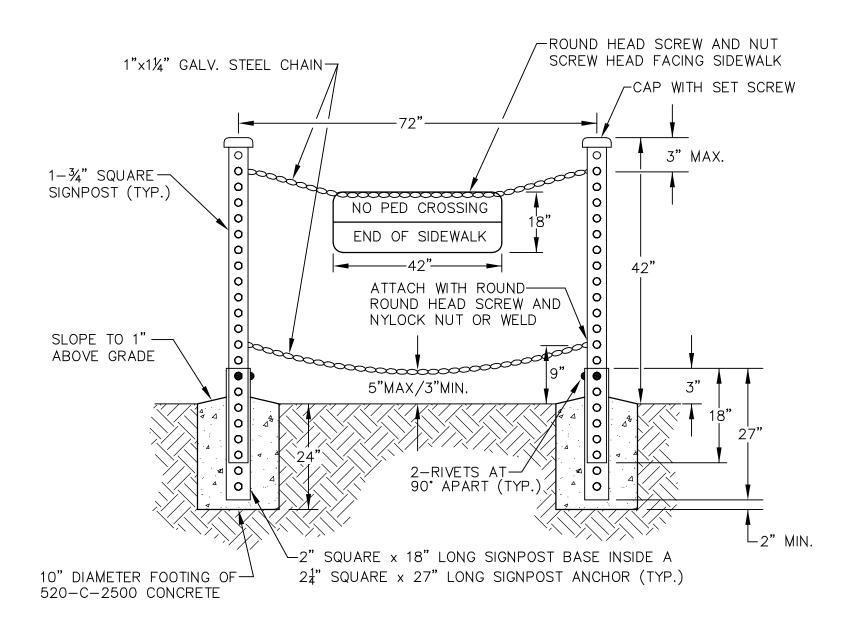
SECTION A-A

-) | 1. USE MINIMUM ½ INCH STAINLESS STEEL BOLTS
 DIA./HEIGHT AND ½ INCH STAINLESS STEEL WASHERS.
 - 2. ALL STEEL TO BE GALVANIZED ASTM A 36 STEEL.
 - 4. BARS SHALL BE SPACED AT 6 INCHES ON
 - 5. BARS SHALL BE 3"x¾".
 - 6. STRUCTURE SHALL BE BOLTED TO ALLOW FOR REMOVAL.
 - 7. WELD 3"x¾" BAR AS CROSS SUPPORT ON BOTTOM OF RACK WHEN UNBRACED LENGTH IS GREATER THAN 6 FT.

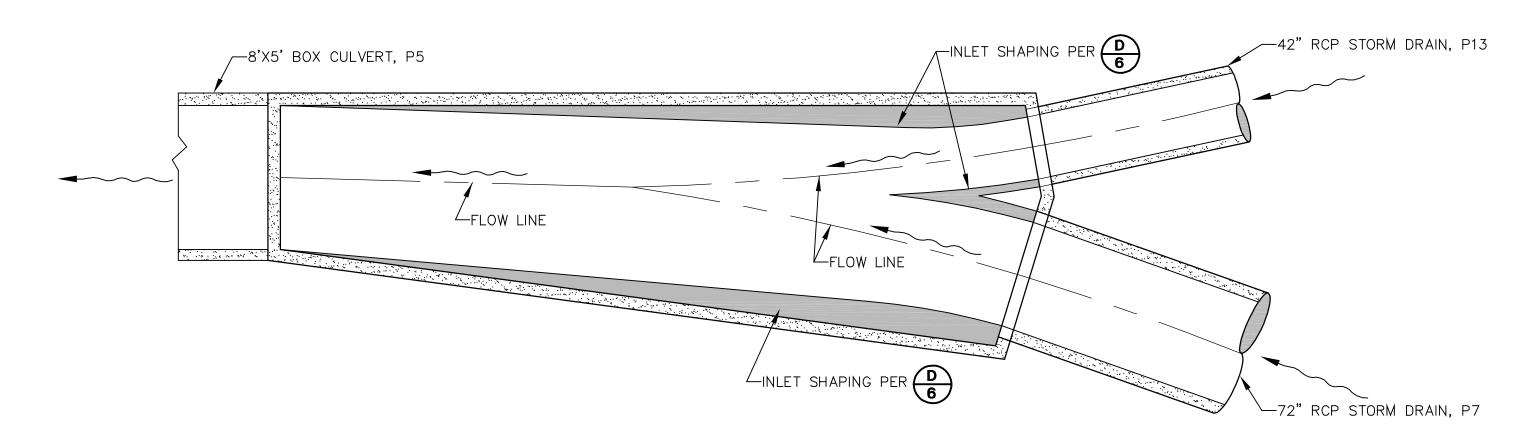


PLAN VIEW

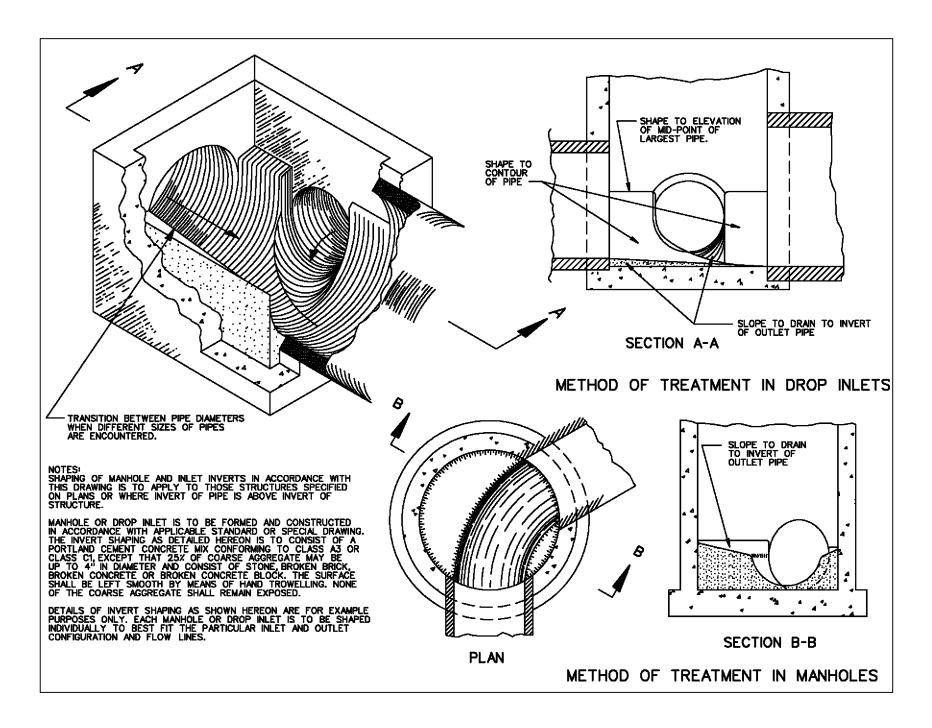






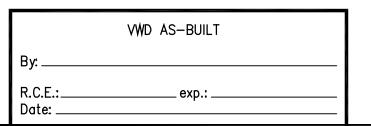


JUNCTION STRUCTURE P-6 INLET SHAPING



STORM DRAINAGE STRUCTURES INLET SHAPING NO SCALE

BENCH MARK



APPROVED FOR CONSTRUCTION

By: Michael D. Edwards, City Engineer R.C.E.: 32977 exp.: 06/30/2010

No. 39016 Exp. 03-31-09

engineering co. Consulting Engineers Land Planners 6110 INNOVATION WAY PH(760)692-1950 CARLSBAD, CALIFORNIA 92009 FAX(760)692-1951 © 2008 LANG ENGINEERING COMPANY

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES RECOMMENDED FOR APPROVAL
By:Fire Marshal Date:	By:	By:Date: Name: <u>Richard G. Lang, P.E.</u> R.C.E.; <u>39016</u> exp: <u>03/31/09</u>	No. Description App'd By Date By: Sassan Haghgoo, Deputy City Engineer R.C.E.; 42201 exp.: 03/31/2010 Date:

CITY OF SAN MARCOS ENGINEERING DIVISION Description: Caltrans Monument "78—12.9 1988 CDH". 2 1/4" brass disc (PT #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

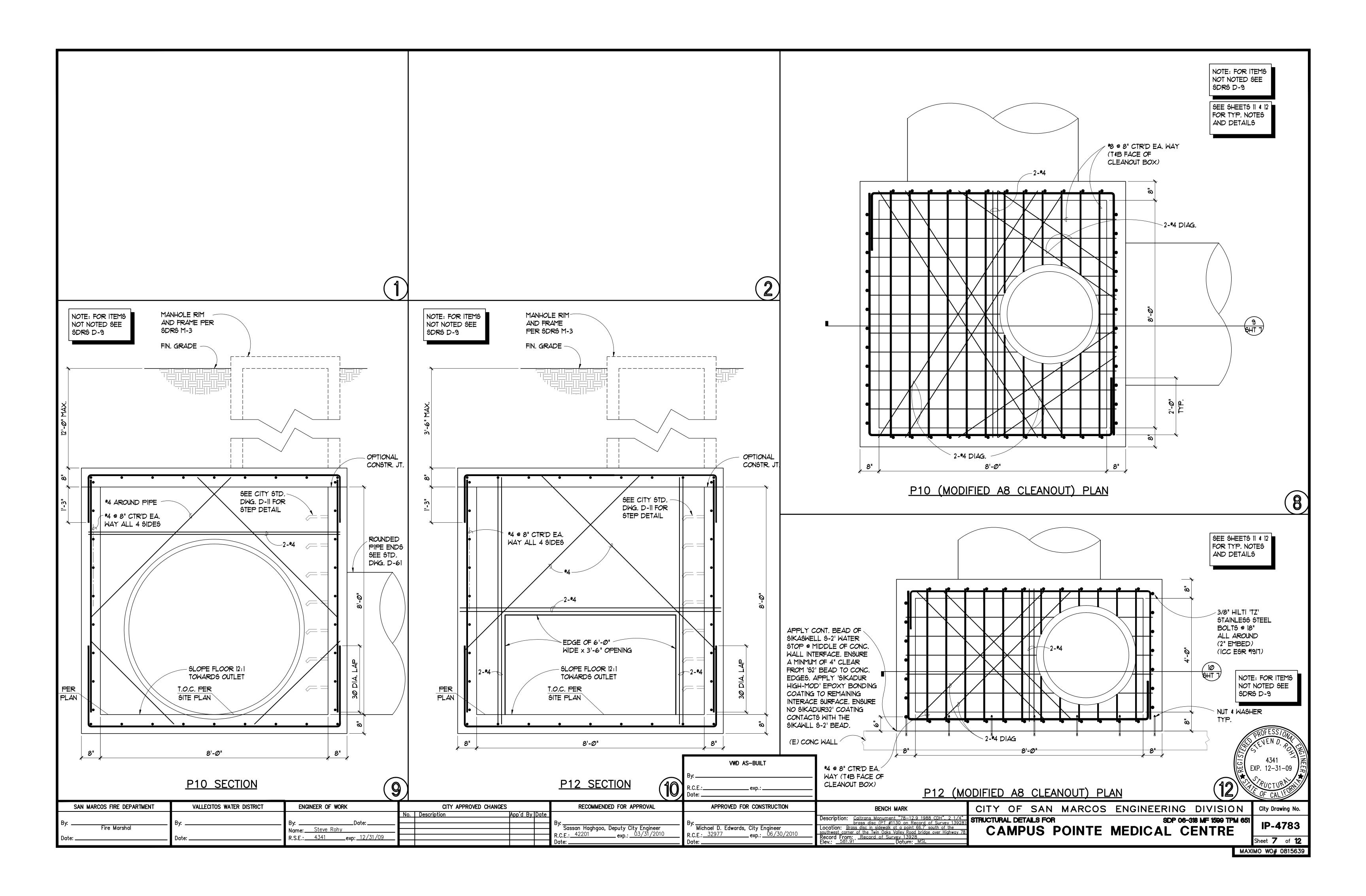
Elev.: 581.91' Datum; MSL SDP-06-318 MF 1599 TPM 65

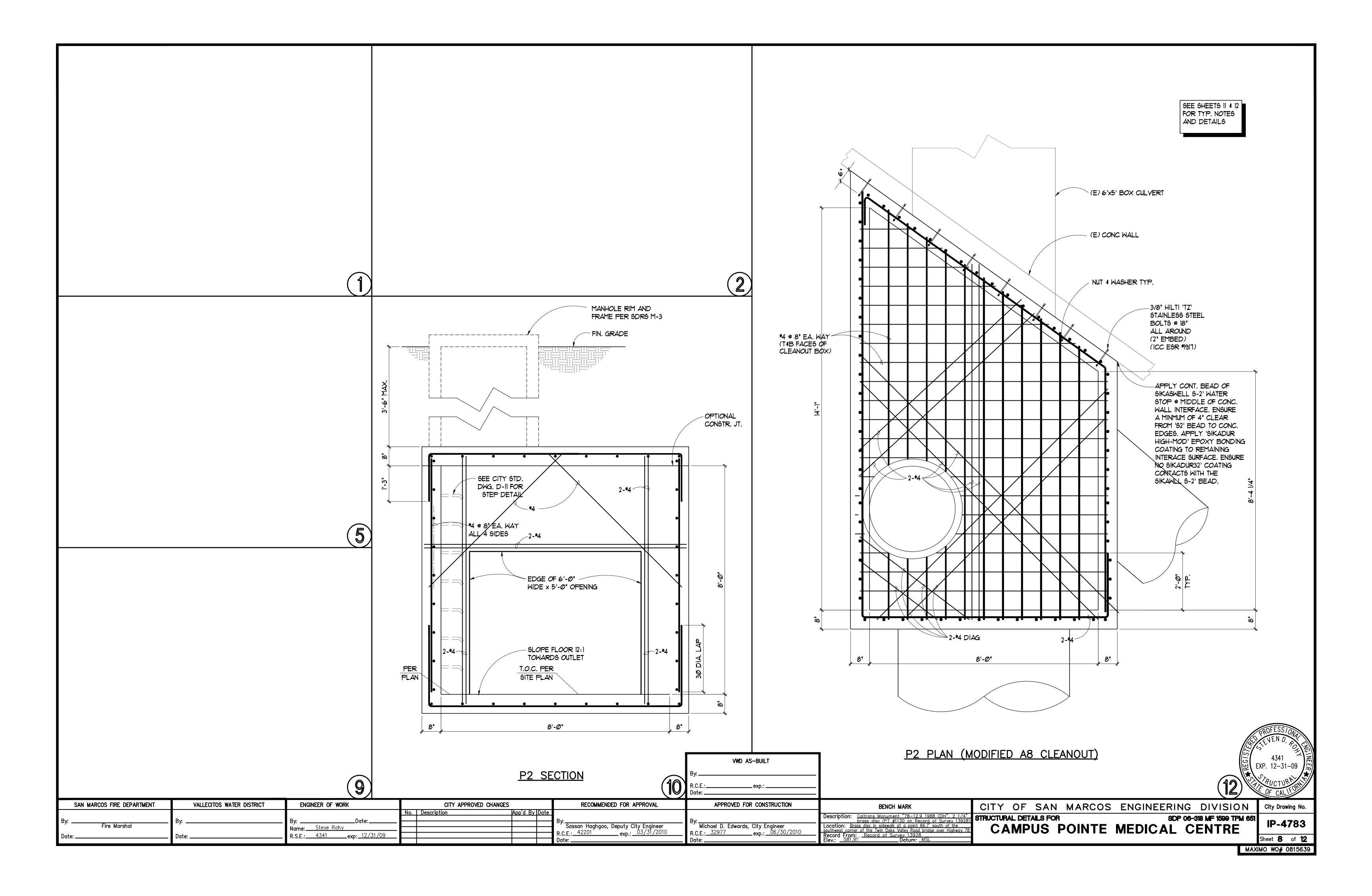
CAMPUS POINTE MEDICAL CENTRE

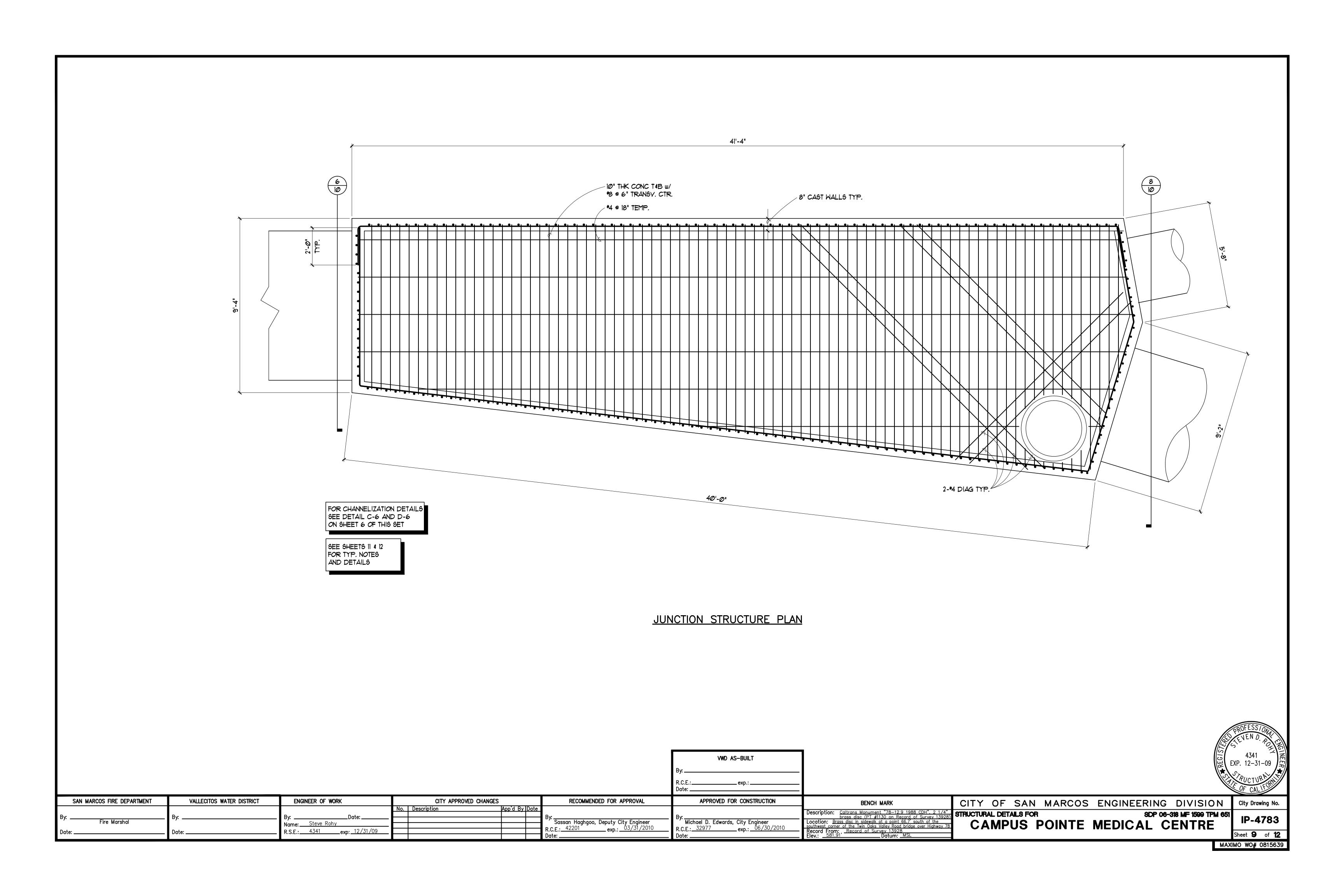
Sheet **6** of **12** MAXIMO WO# 0815639

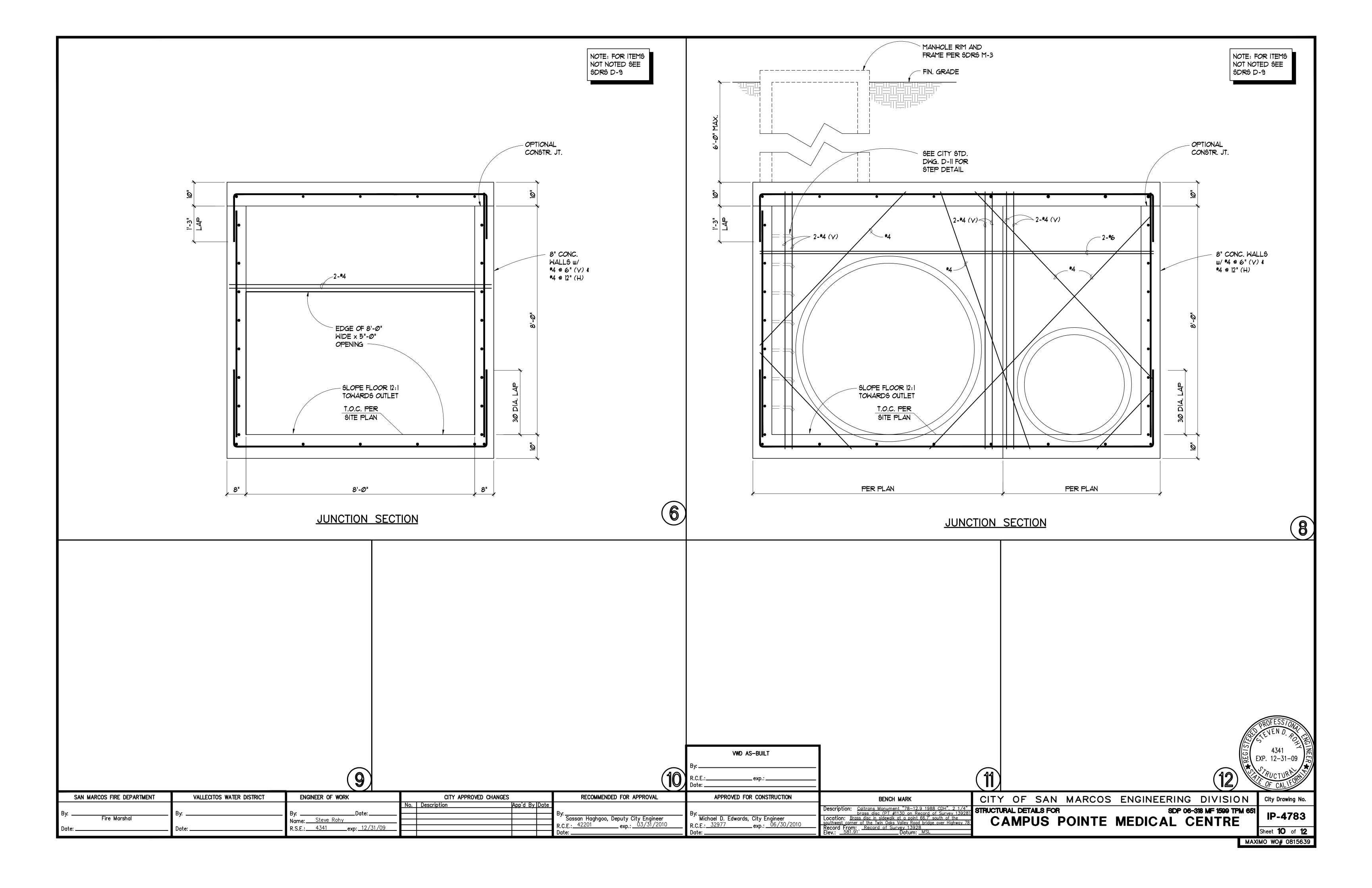
City Drawing No.

IP-4783









SPECIAL INSPECTIONS & TESTING (IBC CHAPTER 17)

- 1. SPECIAL INSPECTIONS AND TESTING SHALL MEET THE REQUIREMENTS OF IBC SECTION
- 1704, 1707 AND 1708. SPECIAL INSPECTORS SHALL:
- A. BE EMPLOYED BY THE OWNER AND ACT AS THE OWNER'S AGENT PER IBC SECTION
- 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. SLIBMIT A CERTIFICATE OF COMPLIANCE FOR OFF-SITE FABRICATION TO PUBLIC WORKS.

PRIOR TO ERECTION OF PREFABRICATED COM		TO PUBLIC WOR			
SCHEDULE OF REQUIRED SPECIAL INSPECTIONS (2006 IBC)					
VERIFICATION AND INSPECTION TASK	TYPE OF TASK	FREQUENCY			
1704.7 SOILS		- INIQUENT			
 VERIFY MATERIALS BELOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. 	FIELD INSPECTION	PERIODIC			
 VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. 	FIELD INSPECTION	PERIODIC			
 PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS. 	FIELD INSPECTION	PERIODIC			
 PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THE SITE HAS BEEN PROPERLY PREPARED AND COMPLIES WITH THE APPROVED SOILS REPORT. 	FIELD INSPECTION	PERIODIC			
 VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL 	FIELD INSPECTION	PERIODIC			
1704.4 CONCRETE CONSTRUCTION		I			
INSPECTION OF FORMWORK (IF APPLIES) FOR SHAPE, LOCATION AND DIMENSION OF THE CONCRETE MEMBER BEING FORMED.	FIELD INSPECTION	PERIODIC			
 INSPECTION OF REINFORCING STEEL AND PLACEMENT. 	FIELD INSPECTION	PERIODIC			
O INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE	FIELD INSPECTION	CONTINUOUS			

SUBMITTAL REVIEW VERIFY USE OF APPROVED MIX DESIGN FIELD TESTING CONTINUOUS SAMPLE FRESH CONCRETE. PERFORM SLUMP, AIR CONTENT, AND TEMPERATURE TESTS. FABRICATE SPECIMENS FOR STRENGTH TESTS. CONTINUOUS FIELD INSPECTION INSPECT CONCRETE (AND SHOTCRETE) PLACEMENT FOR PROPER APPLICATION TECHNIQUES. FIELD INSPECTION PERIODIC INSPECT FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. FIELD TESTING AND PERIODIC O VERIFY IN-SITU CONCRETE STRENGTH, PRIOR LABORATORY REPORT TO REMOVAL OF SHORING AND FORMWORK REVIEW FROM BEAMS AND STRUCTURAL SLABS. IN-PLANT/FIELD CONTINUOUS O PRESTRESSED CONCRETE: INSPECT THE INSPECTION APPLICATION OF PRE-STRESSING FORCES AND GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC FORCE RESISTING SYSTEM PERIODIC FIELD INSPECTION O PRE-CAST CONCRETE: INSPECT ERECTION OF PRECAST CONCRETE MEMBERS. PERIODIC FIELD TESTING AND O POST-TENSIONED CONCRETE: VERIFY IN-SITU LABORATORY REPORT CONCRETE STRENGTH, PRIOR TO STRESSING REVIEW

FOR INSPECTION OF REINFORCING STEEL WELDING SEE 1704.3 STEEL CONSTRUCTION

O SPECIAL CONCRETE INSPECTIONS ARE NOT REQUIRED FOR SPREAD FOOTINGS AND

CONTINUOUS FOOTINGS FOR LIGHT FRAME CONSTRUCTION of 3 stories or less WHERE THE

O SPECIAL CONCRETE INSPECTIONS ARE NOT REQUIRED FOR NON STRUCTURAL SLABS ON

FOUNDATION

- THE SOILS REPORT RECOMMENDATIONS SHALL BE COMPLIED WITH BY THE CONTRACTOR.
- SOILS INFORMATION: SEE SOILS REPORT BY: ROBERT PRATER ASSOCIATES
 - DATED: MARCH 1999
 - **FOUNDATION MATERIAL** SOIL DESIGN PARAMETERS
 - ALLOWABLE BEARING PRESSURE .3500 PSF 35 PCF CANTILEVER ACTIVE (LEVEL) .40 PCF CANTILEVER ACTIVE (3:1 SLOPE). .50 PCF CANTILEVER ACTIVE (2:1 SLOPE)
 - 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. ALL FOUNDATION WORK SHALL BE FOUNDED ON FIRM UNDISTURBED NATURAL SOILS OR
- APPROVED COMPACTED SOILS. ALL SITE SOIL WORK SHALL BE DONE UNDER THE DIRECT OBSERVATION OF THE SOILS
- 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. THE FINISH EXCAVATION FOR FOUNDATIONS SHALL BE NEAT & TRUE TO LINE. 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 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. 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. 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

REINFORCED CONCRETE (IBC CHAPTER 19)

CEMENT SHALL CONFORM TO ASTM C150, TYPE II.

PLACE A MINIMUM OF 7 DAYS AFTER CONCRETE PLACEMENT.

- AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33. READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.
- 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 **FOOTINGS** WALLS & COLUMNS. .3000 PSI
- CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR CONCRETE DESIGN STRENGTHS EXCEEDING 2500 PSI.
- 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. 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).
- ALL REINFORING 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 AMPLITUDE OF 1/4 INCH AND ABRASIVELY CLEAN. 15. CONTRACTOR SHALL SUBMIT MIX DESIGNS FOR REVIEW BEFORE FABRICATION AND
- INSTALLATION.

GENERAL

- 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
- 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.
- 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.
- WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
- THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN THE AREA TO BE EXCAVATED, BEFORE BEGINNING EXCAVATION.
- 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. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE 2006
- 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. RETAIN A [STATE] REGISTERED CIVIL ENGINEER TO DESIGN ALL TEMPORARY BRACING,
- SHORING, AND SUPPORT REQUIRED DURING CONSTRUCTION. 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.
 - 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

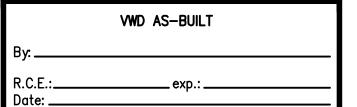
STRUCTURAL OBSERVATION (IBC CHAPTER 17)

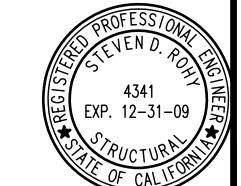
INTERNATIONAL BUILDING CODE (IBC).

- 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
- FOOTINGS B.) PARTIAL FRAMING
- 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

- BAR REINFORCEMENT SHALL BE ASTM A615. GRADE 60 DEFORMED BARS.
- MINIMUM LAP SPLICES OF REINFORCING BARS SHALL BE AS SPECIFIED IN THE DRAWINGS. VERTICAL BARS IN CONCRETE WALLS SHALL BE ACCURATELY POSITIONED AT THE CENTER
- OF THE WALL UNLESS OTHERWISE NOTED ON PLANS. 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 REINFORCING DETAILING, BENDING, AND PLACING SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE". LATEST
- REINFORCING STEEL SHALL BE PROVIDED WITH THE FOLLOWING MINIMUM
- CONCRETE COVER FOR CAST IN PLACE CONCRETE:
- A. CONCRETE DEPOSITED AGAINST EARTH: B. CONCRETE SURFACE (FORMED) EXPOSED
- TO EARTH OR WEATHER: #6 THROUGH #18 BARS:
- #5 BAR AND SMALLER: C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER: SLABS, WALLS AND JOISTS
- #14 AND #18 BARS: #11 BAR AND SMALLER:
- ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, HOLDOWN ANCHORS AND INSERTS SHALL BE WELL SECURED IN POSITION WITH WIRE POSITIONERS PRIOR TO FOUNDATION INSPECTION AND BEFORE PLACING CONCRETE OR GROUT.
- DOWELS BETWEEN FOOTINGS AND WALLS SHALL BE THE SAME GRADE, SIZE, AND SPACING AS VERTICAL WALL REINFORCING UNLESS OTHERWISE NOTED ON PLANS.
- 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.





SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL
By:	Bv	By:	No. Description App'd By Date	Rv
Fire Marshal	-,	Name: Steve Rohy		Sassan Haghgoo, Deputy City Engineer R.C.F.: 42201 exp.: 03/31/2010
Date:	Date:	R.S.E.: 4341 exp: 12/31/09		Date:

OF TENDONS

INSPECTION NOTES

GRADE.

DESIGN f'c< 2500psi

APPROVED FOR CONSTRUCTION BENCH MARK Description: Caltrans Monument "78-12.9 1988 CDH", 2 1/4 brass disc (PT #1130 on Record of Survey 1392 Location: Brass disc in sidewalk at a point 66.7 south of the southwest corner of the Twin Oaks Valley Road bridge over Highway Michael D. Edwards, City Engineer C.E.: 32977 exp.: 06/30/2010 C.E.: 32977 Record From: Record of Survey 13928

Record Datum: MS

CITY OF SAN MARCOS ENGINEERING DIVISION TYPICAL STRUCTURAL FOR SDP 06-318 MF 1599 TPM 651 CAMPUS POINTE MEDICAL CENTRE

City Drawing No IP-4783 Sheet **11** of **12**

MAXIMO WO# 0815639

