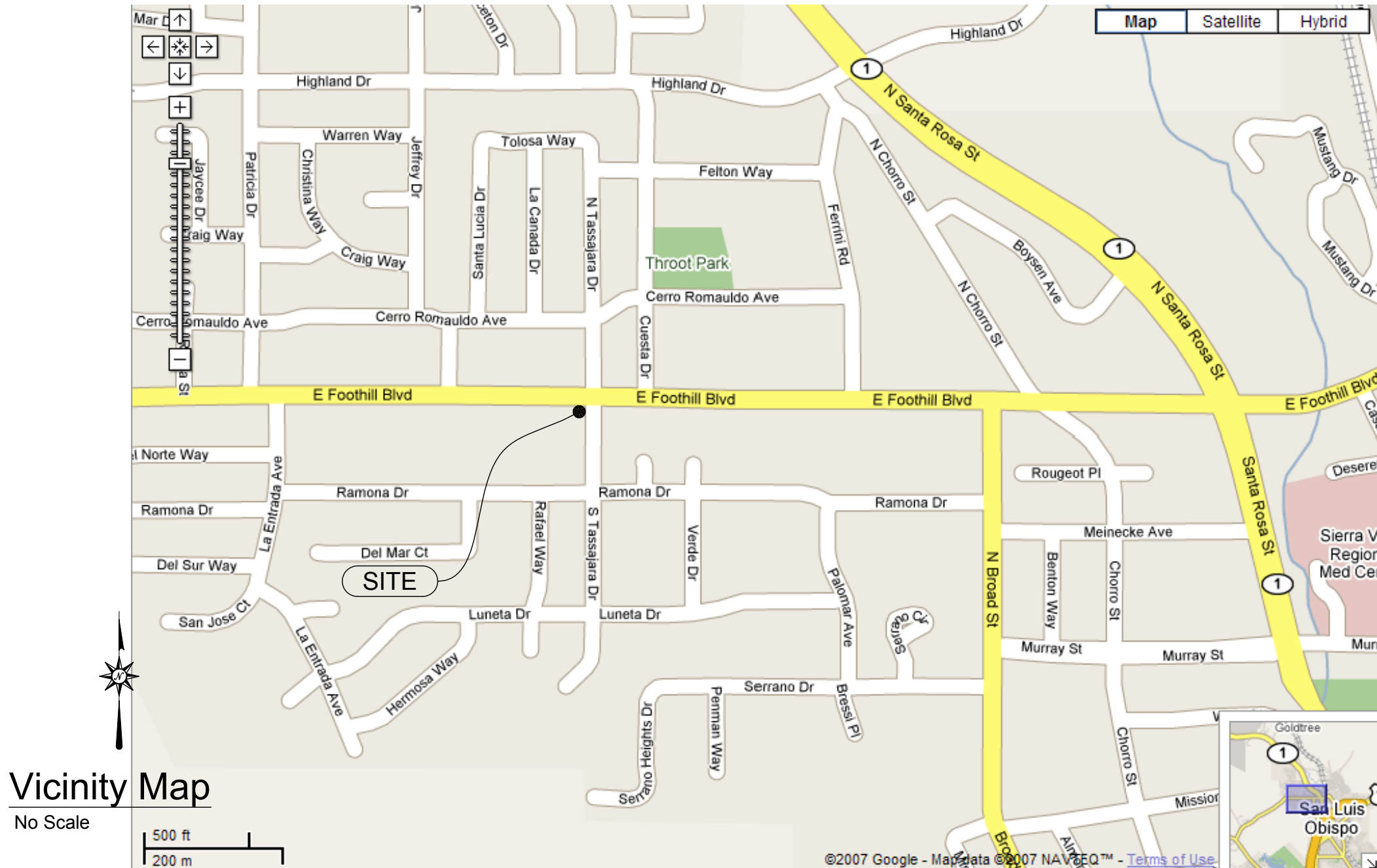


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### General Notes

- All work shall conform with the:  
2001 CBC (1997 UBC and California amendments)  
2004 CEC (1999 NEC and California amendments)  
2001 CMC (2000 IAPMO UMC and California amendments)  
2001 CPC (1997 IAPMO UPC and California amendments).
- These notes shall apply to all drawings unless otherwise noted or shown. Features of construction shown are typical and they shall apply generally throughout similar conditions. All omissions or conflicts between various elements of the working drawings and/or general notes shall be brought to the attention of the engineer/general contractor before proceeding with any work so involved.
- All work and construction methods and materials shall comply with all provisions of the building codes and other rules, regulations and ordinances governing the place of the building. Building code requirements in all cases take precedence over the drawings. It shall be the responsibility of anyone supplying labor and/or materials to bring to the attention of the architect/general contractor any discrepancies or conflicts between the requirements of the code and the drawings.
- Do not scale the drawings. Dimensions shown shall take precedence over drawing scale or proportion. Large scale drawings shall take precedence over smaller scale drawings.
- The contract drawings and specifications represent the finished structure. Unless otherwise shown, they do not indicate method of construction. Contractor shall supervise and direct work and shall be solely responsible for all construction means, methods, techniques, sequences and procedures. Observation visits to the site by field representatives of the architect/general contractor and his engineers shall not include inspections of the protective measures or the construction procedures required for same, which are the sole responsibility of the contractor. Any support services performed by the architect/general contractor and his engineers during construction shall be distinguished from continuous and detailed inspection services which are furnished by others. These support services are performed solely for the purpose of assisting in quality control and in achieving conformance with contract drawings and specifications, and therefore they do not guarantee contractor's performance and shall not be construed as supervision of construction.
- Contractor hereby guarantees to the owner and the architect/general contractor that all materials, fixtures, and equipment furnished to the project are new unless otherwise specified. Contractor also warrants that all work will be of good quality and free from any faults and defects for a period of one year after the date of substantial completion, unless a greater warranty or guarantee is required by the project specifications.
- Anyone supplying labor and/or materials to the project shall carefully examine all subsurfaces to receive work. Any conditions detrimental to work shall be reported in writing to the contractor prior to beginning work. Commencement of work shall imply acceptance of all subsurfaces.
- Refer to architectural, mechanical, and electrical drawings for depressed slabs curb, finishes, textures, clips, grounds, etc., not shown on structural drawings.
- Any materials stored at the site shall be completely supported free of the ground, covered and otherwise protected to avoid damage from the elements.
- More detailed information shall take precedence over lesser detailed information. Specifications shall take precedence over drawings.
- Grading plans, drainage improvements, road and access requirements and environmental health considerations shall comply with all applicable codes and local ordinances.
- Changes to the approved drawings and specifications shall be made by an addendum or change order approved by the owner and/or agent of the owner.
- The contractor and all sub-contractors will be held accountable to the above general notes for the construction of the project.
- The contractor shall be responsible to remove or disburse any excess material from project site.
- This set of plans to be on job site at all times during construction. All work shall be done in accordance with the approved plans. No changes or revisions to the approved plans or specifications shall be permitted unless submitted to and approved by the building official. The issuance of a permit shall not prevent the building official from requiring the correction of errors or omissions from the approved plans and specifications. [UBC 108]
- This permit shall expire by limitation if work authorized under this permit is not commenced within 180 days from the date of issuance or if the work is suspended for a period exceeding 180 days after the work has commenced [UBC 106]
- The issuance or granting of a permit or approval of plans, specifications and computations shall not be construed to be a permit for, or an approval of, any violation of any of the provisions of the codes or of any other ordinance of this jurisdiction. Permits presuming to give authority to violate or cancel the provisions of this code or other ordinances of this jurisdiction shall not be valid [UBC 106.4.3]
- For work conducted within city limits, the contractor shall provide a list of current city business license numbers for each contractor or sub-contractor participating on the project.
- Contractor shall verify all setbacks, easements, contours, and building pad prior to construction.

# GRADING PLAN FOR LOPEZ RESIDENTIAL & COMMERCIAL MIXED USE



### San Luis Obispo City Public Works Department Notes

- All work located within the public right-of-way or within the jurisdiction of the Utilities and Public Works Department shall comply with the most current edition of Engineering Standards and Standard Specification. The current adopted standards are dated January 2010.
- A separate encroachment permit is required for any work in the public right-of-way or within city easements for connections to public utilities. Work requiring an encroachment permit includes but is not limited to demolitions, utilities, water, sewer, and fire service laterals, curb, gutter, and sidewalk, driveway approaches, sidewalk underdrains, storm drain improvements, street tree planting or pruning, curb ramps, street paving, and pedestrian protection or construction staging in the right-of-way.
- Contact the Public Works inspection hotline at 781-7554 with at least a 48 hour notice for any required encroachment permit inspection of final inspection
- A traffic and pedestrian control plan shall be submitted to the Public Works Department for review and approval prior to encroachment permit issuance.
- A pre-construction meeting shall be coordinated by the owner/developer or contractor and shall include pertinent city staff. As a minimum, the assigned building inspector and public works inspector shall be included in this meeting to discuss the limit of public and private improvements and the corresponding inspection responsibilities.
- The public improvements shall be substantially complete to the satisfaction of the Public Works Director prior to final inspection approvals and/or occupancy of any building.
- "As-built" plans are required for all work within the public right-of-way or within city easements at the completion of the project per city standards and city standard specification. The record drawings shall be received and accepted prior to final inspection approvals and/or occupancy of any building.
- Any sections of damaged or displaced curb, gutter & sidewalk or driveway approach shall be repaired or replaced to the satisfaction of the Public Works Director.

#### Project Data

Owner: Mr. David Lopez  
Project Address: 399 Foothill Blvd.  
San Luis Obispo, CA 93405  
APN: 052-151-024  
Phone: 805.801.5311

#### Project Statistics

Lot Size: 10,221 sq. ft.  
Area of Disturbance: 10,221 sq. ft.  
Max Depth Fill: 6 in  
Max Depth Cut: 6 in  
Residence Area: 4812 sq. ft.  
Commercial Area: 1870 sq. ft.  
Building Height: 17.5± ft above curb

#### Sheet Index

C-1.1 title page  
C-1.2 horizontal control  
C-2.1 site plan  
C-3.1 demo plan  
C-3.2 grading plan  
C-3.3 X-Sections  
C-4.1 utility plan  
C-5.1 erosion control plan  
C-6.1 details  
C-6.2 details  
C-6.3.1 details  
C-6.3.2 details  
C-6.4 details  
C-6.5 details  
V-1.1 topography map

#### Traffic Signal Modification Plans

1 cover sheet  
2 Foothill & Tassajara traffic signal plan  
3 Foothill & Tassajara traffic signal plan - left turn lane alternative  
4 Foothill signing and striping plan

### General Grading Notes

- Any and all site work and grading shall be in accordance with UBC chapter 33 and UBC appendix chapter 33 and any applicable local ordinances. A geotechnical engineer shall review the grading and site development.
- Slope away from building a minimum of 2% for 5'-0" (typ).
- An encroachment permit is required for any work done within a right of way maintained by the presiding jurisdiction.
- Maximum cut and fill slope to be 3:1.
- The existing ground surface should be prepared for grading by removing all vegetation, trees, large roots, debris, non-complying fill, and all other organic material. Voids created by removal of such materials should not be backfilled until the underlying soil has been observed by a soils engineer.
- Fill and backfill should be placed at near optimum moisture in layers with loose thickness not greater than eight (8) inches and compacted to a minimum of 90% of the maximum dry density obtainable by test method ASTM-D 1557, and certified by a soils engineer.
- On-site sandy clay soils free of organic and deleterious material are not suitable for use as fill in the footing zone. Import (decomposed granite and Class II/III Base) should be free of organic and other deleterious material and should have very low expansion potential, with a plasticity index of 10 or less.
- Final site grade should be such that all water is diverted away from the structure(s) and is not allowed to pond. All surface water should be directed into approved discharge structures.
- Access road/driveways: any road grade in excess of 12% shall be paved with a non-skid material, max. Grade for fire access shall not exceed 20%.
- All non-permitted fill shall be removed by contractor.
- Electrical, telecommunications, and other utilities shall be installed underground in an approved method of construction. This regulation applies to utilities on sites that are 5 acres or less and serving new structures and/or new utility distributions.
- A soils engineer shall determine grading performed is in substantial conformance with the approved plans and is suitable to support the intended structure(s).
- The bottom of all excavations should be observed by the geotechnical engineer prior to processing or placing fill.
- Utility trench backfill should be governed by the provisions of this report relating to minimum compaction standards. In general, service lines inside the property lines may be backfilled with native soils compacted to a minimum of 90% of maximum density. Backfill of off site service lines will be subject to the specifications of the jurisdictional agency or the geotechnical report, whichever is greater.
- Lined drainage swales and down drains should be provided at the tops of cut and fill slopes to divert drainage away from slope faces.
- The building pad area and to a distance of five (5) feet beyond the perimeter be over-excavated to a depth of five (5) feet below the finished pad grade or two(2) feet below existing grade, whichever is deeper. The exposed surface should be scarified to a depth of twelve (12) inches, moisture conditioned and recompacted to a minimum of ninety (90) percent of maximum dry density. Due to the slope of the lot, keying and benching shall be required to accomplish the over excavation depths throughout the building area.
- Areas outside the building area to receive fill should be over excavated to a depth of one (1) foot, scarified, moisture conditioned and compacted to a minimum 90% of maximum density prior to placing fill.
- On-site soils may be used for fill once they are cleaned of all organic material, rock, debris, and irreducible material larger than eight (8) inches.
- Fill slopes should be keyed and benched into firm natural ground when the existing slope to receive fill is 5:1 or steeper, horizontal to vertical. The keys should be tilted into the slope a minimum of 2%, should be a minimum of one equipment width and should be a minimum of three (3) feet deep on the outside edge. All keys and benches should be observed and verified by the geotechnical engineer.
- Drainage shall be carried to the street or other improved drainage device via a non-erosive drainage device. Minimum longitudinal slopes for swales shall be 1-percent.
- No grading or drainage improvements which alter existing drainage courses or concentrate drainage to adjacent properties will be allowed without prior approval from the City Engineer.
- Contractor to advise westerly neighbor fronting Foothill Blvd. that their side yard should be maintained for positive drainage away from their structure and toward the street or creek away from their residence.

### Fire Safety

The approved project allowed to be constructed by this building permit shall conform to the fire safety plan requirements as deemed necessary by the fire department having jurisdiction for this permit. Prior to beginning construction the property owner shall read the fire safety plan issued by the fire department and become fully aware of all necessary fire protection requirement as many of these fire protection requirement may require the installation of fire sprinklers / special safety glazed driveway-roadway requirements or other special construction.

## M.E. Designs

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MR. DAVID LOPEZ  
399 FOOTHILL BLVD.  
SAN LUIS OBISPO, CA 93401

Architectural Design by:

**PARAGON**  
DESIGN ARCHITECTS

Thomas G. Brjkovich  
Architect

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San Luis Obispo, CA 93401  
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(805) 541-5705 fax

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TITLE PAGE

SHEET NUMBER:

C-1.1



PLAN PREPARED FOR:  
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**399 FOOTHILL BLVD.**  
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Architectural Design by:  
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SHEET TITLE:

**HORIZONTAL  
CONTROL**

SHEET NUMBER:

**C-1.2**

#### Basis of Coordinates

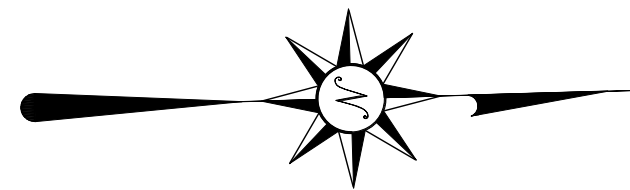
The basis of coordinates for this survey is the City of San Luis Obispo Horizontal Control Network point designated "8025", and the basis of bearings being between "8025" and "8035" and calculated as N 36°20'41" W from the 1999 Network and converted to U.S. survey feet.

#### Benchmark

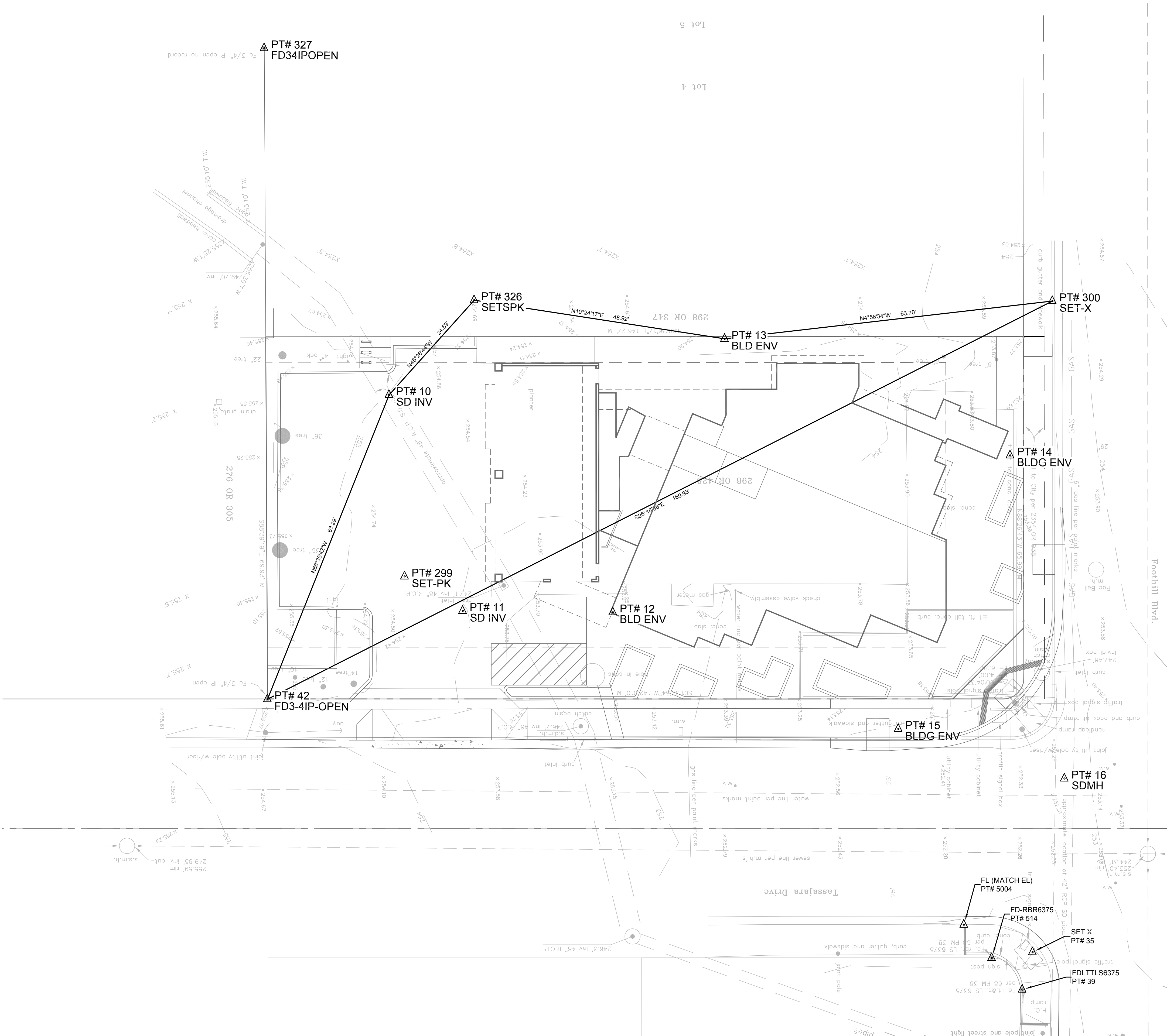
The basis of elevations is the City of San Luis Obispo benchmark designated "191" and having a converted published elevation of 250.44 feet (NAVD88).

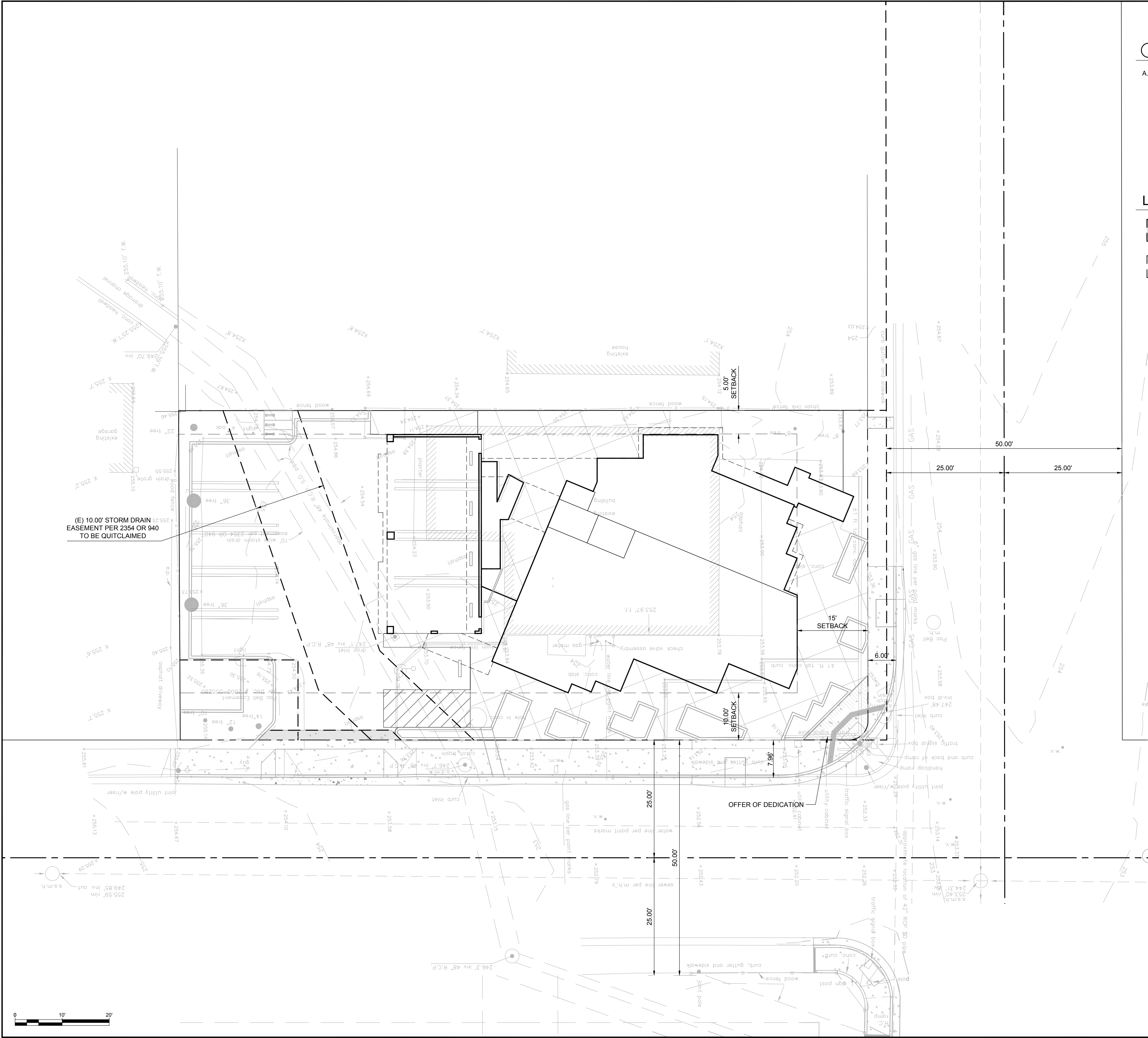
#### Horizontal Control

Point #	Northing	Easting	Elevation	Description
10	2303853.4336	5762512.0887	248.4700	SD INV
11	2303866.4515	5762554.1803	0.0000	SD INV
12	2303895.4178	5762555.2863	254.5000	BLD ENV
13	2303918.4945	5762503.0994	254.5000	BLD ENV
14	2303972.9423	5762527.1758	254.5000	BLDG ENV
15	2303949.8635	5762579.3675	254.5000	BLDG ENV
16	2303981.6528	5762589.8607		SDMH
35	2303974.5403	5762623.2165	252.0240	SET X
36	2304405.2159	5762576.6932	251.4734	SET PK
37	2303556.6563	5762587.3899	260.3895	FD-PIN
38	2304011.5280	5762600.3470	252.8428	FD-PIN
39	2303972.3625	5762630.3773	252.2306	FDLTTL6375
40	2303993.6718	5761895.5990	270.1412	FD L&T LS3982
41	2304030.3534	5761911.8982	269.0958	FD PIN
42	2303828.2934	5762570.1702	255.0246	FD3-4IP-OPEN
299	2303855.4334	5762547.2183	254.4048	SET-PK
300	2303981.9550	5762497.6111	253.7424	SET-X
302	2304336.1303	5762626.7960	250.4416	FD8M-191
303	2304384.0462	5762326.2574	251.5288	FD-IP
326	2303870.3801	5762494.2647	254.6891	SETSPK
327	2303831.2441	5762444.4657	256.3033	FD34IPOPEN
514	2303966.6328	5762624.1005	252.5140	FD-RBR6375
546	2303967.0038	5762734.6263	251.0814	FDLTTL6375
560	2304043.8784	5762715.7081	250.4098	FD1IP
600	2304107.3565	5762627.8513	251.4937	FDLTTL3877
793	2304376.2664	5762610.5471	250.6676	FDIP3877
5004	2303961.4450	5762617.5334	0.0000	FL (MATCH EL)



**HORIZONTAL CONTROL**  
**1" = 10'**



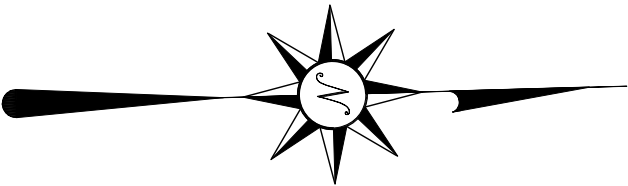


Reference Notes

A. 4' WIDE PEDESTRIAN EASEMENT PER SLO CITY DRIVEWAY STANDARD 2110

Legend

- Area of Pedestrian Access Easement
- Offer of Dedication



SITE PLAN  
1" = 10'

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SITE PLAN

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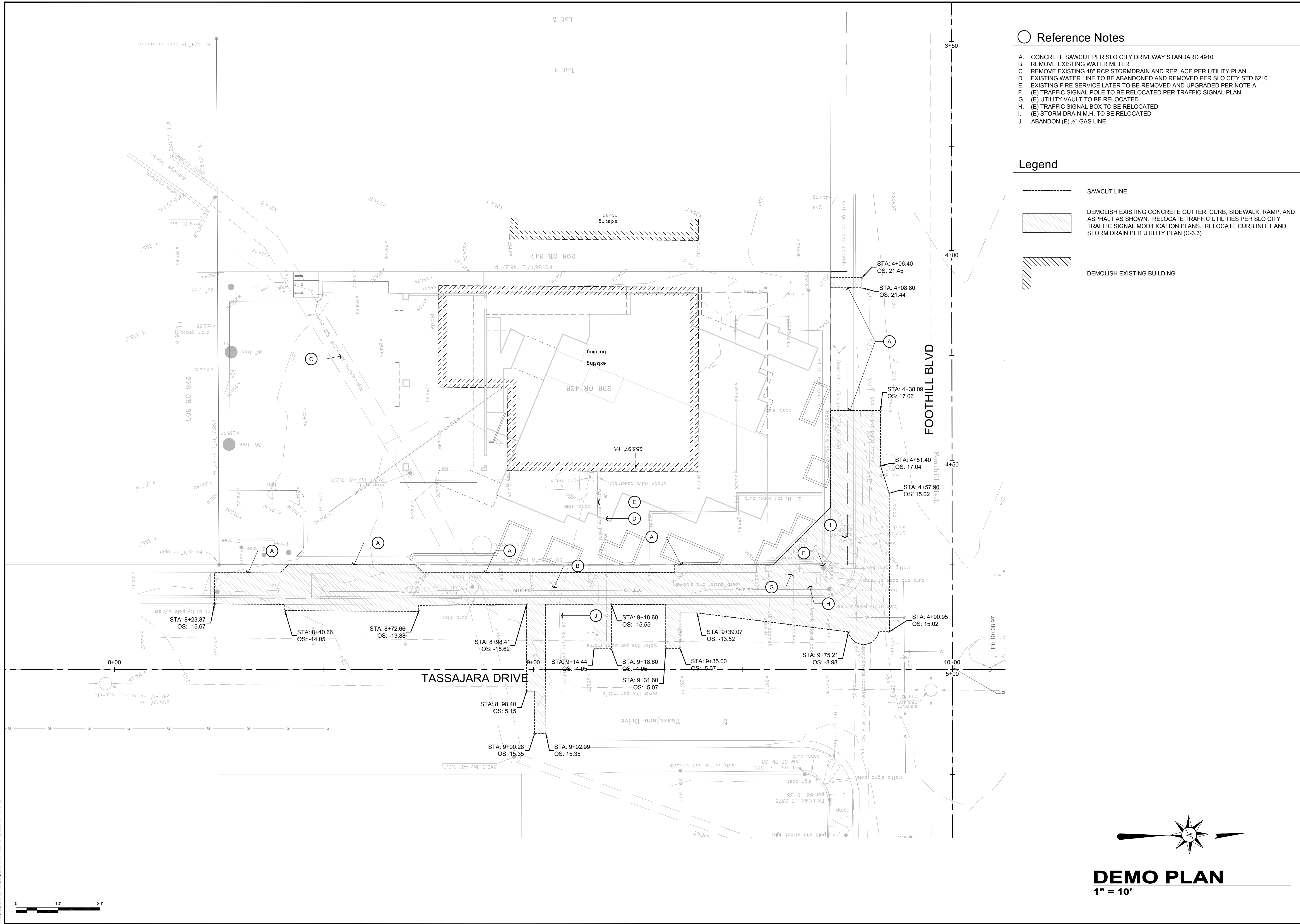
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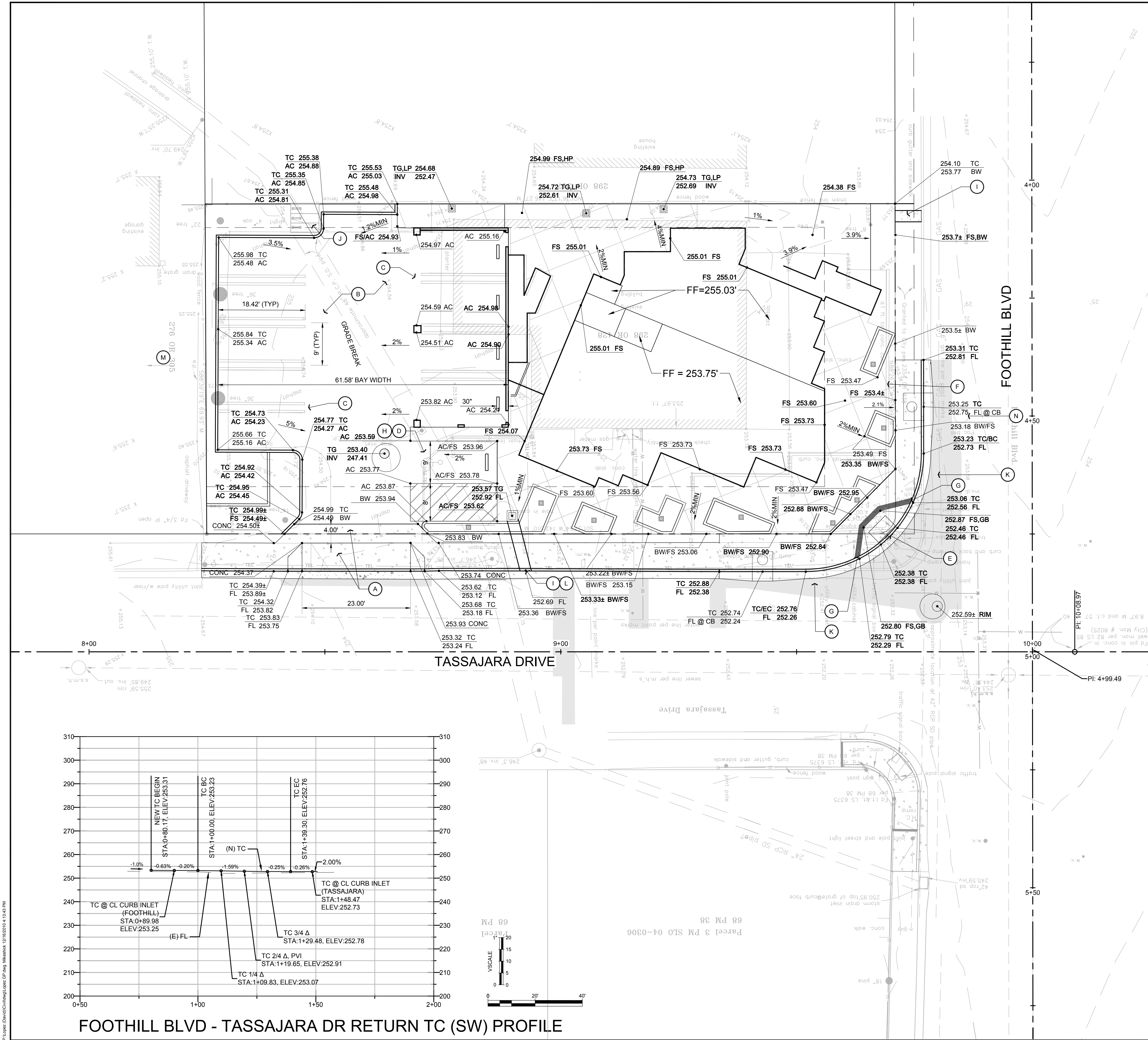
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## Reference Notes

- CONCRETE DRIVEWAY RAMP AND 4' WIDE PEDESTRIAN ACCESS PER SLO CITY STD 2110
- PARKING LOT PER SLO CITY STD 2220. PROVIDE 2.5" AC PAVEMENT OVER 8.5" CLASS II AGGREGATE BASE PER GSI SOILS RECOMMENDED MINIMUM ASPHALT CONCRETE PAVEMENT SECTIONS DESIGN THICKNESS  $TI = 4.5$ . (SEE C-6.1) THIS RECOMMENDATION EXCEEDS THE CRITERIA OF SLO CITY STD 2210.
- STRIPING PER SLO CITY STD 2250
- ADA VAN ACCESSIBLE SIGNAGE DETAILS PER G/C-6.4
- UPGRADE EXISTING CURB RAMP PER SLO CITY STD 4440 AND CALTRANS STANDARD A88A (CASE B) PER J/C-6.5
- GROOVING PER CALTRANS STANDARD A88A GROOVING DETAIL (TYP)
- ADA VAN ACCESSIBLE PARKING PER DETAIL H/C-6.4
- SIDEWALK UNDERDRAIN PER SLO CITY STD 3415. RECONSTRUCTION OF SIDEWALK PER SLO CITY STD 4110
- BIKE STORAGE
- NEW PAVEMENT SECTION PER SLO CITY STD 7110. UNLESS OTHERWISE SPECIFIED BY CITY ENGINEER, SECTION SHALL BE 5.5" AC, 10" BASE, 11" SUB-BASE (R-VALUE = 5, T.I. = 8.5, STREET CLASSIFICATION = RECONSTRUCTED COLLECTOR/ARTERIAL, UNPHASED CONSTRUCTION)
- INSURE THAT SIDEWALK UNDERDRAIN DOES NOT CONFLICT WITH (E) CURB INLET
- EXISTING OFFSITE DRAINAGE FLOWS AWAY FROM PROPOSED PROJECT
- VERIFY SIZE AND LOCATION OF AT&T MANHOLE PRIOR TO SAWCUTTING PAVEMENT. NOTIFY ENGINEER OF RECORD SHOULD A CONFLICT EXIST

## Notes

A LICENSED SURVEYOR OR ENGINEER SHALL VERIFY ALL FINAL GRADIENTS PRIOR TO FINAL INSPECTION APPROVALS.

## Legend

NEW ASPHALT PAVEMENT SECTION PER SLO CITY STD 7110, SEE CALLOUT K ABOVE

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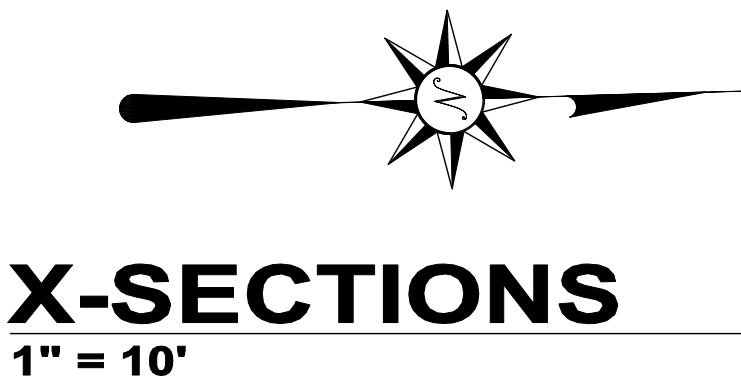
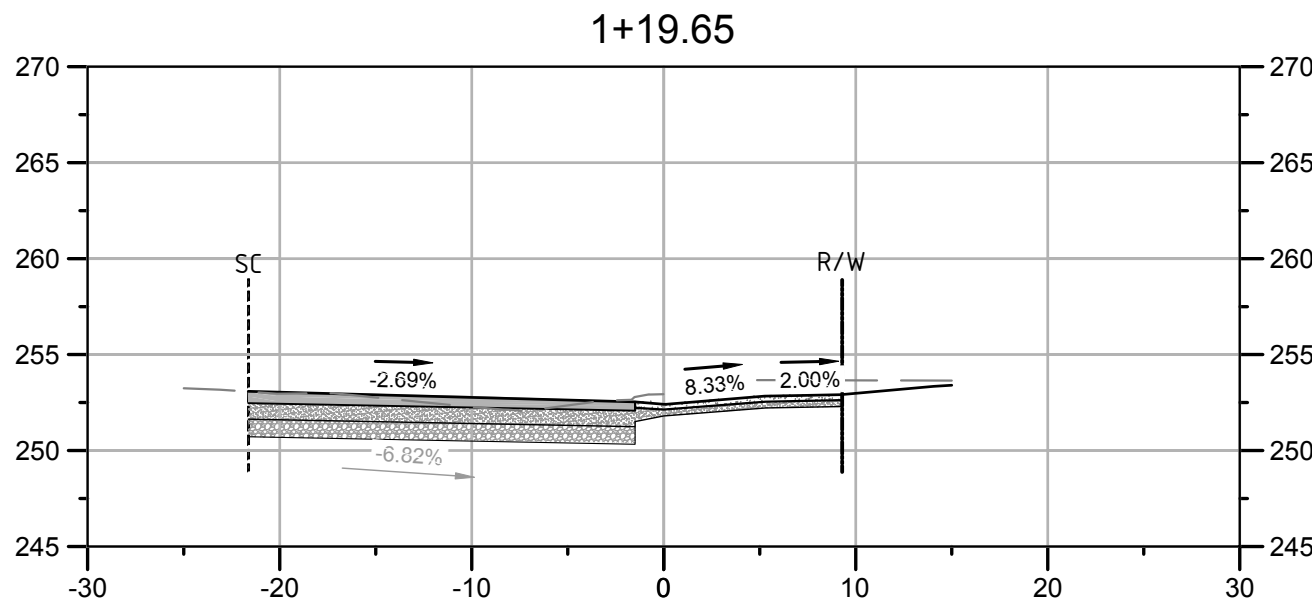
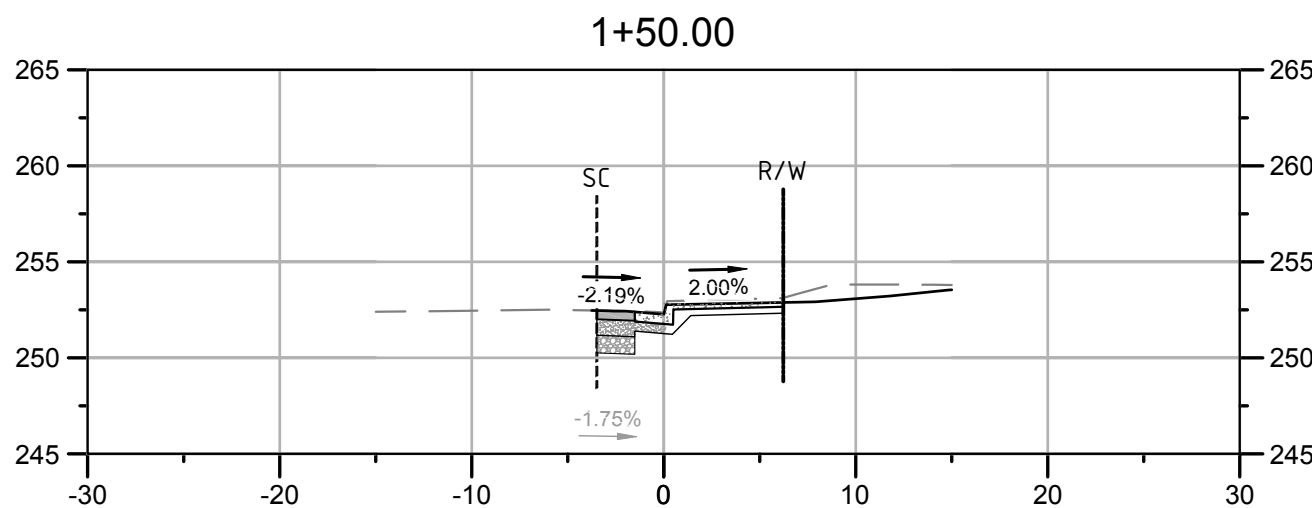
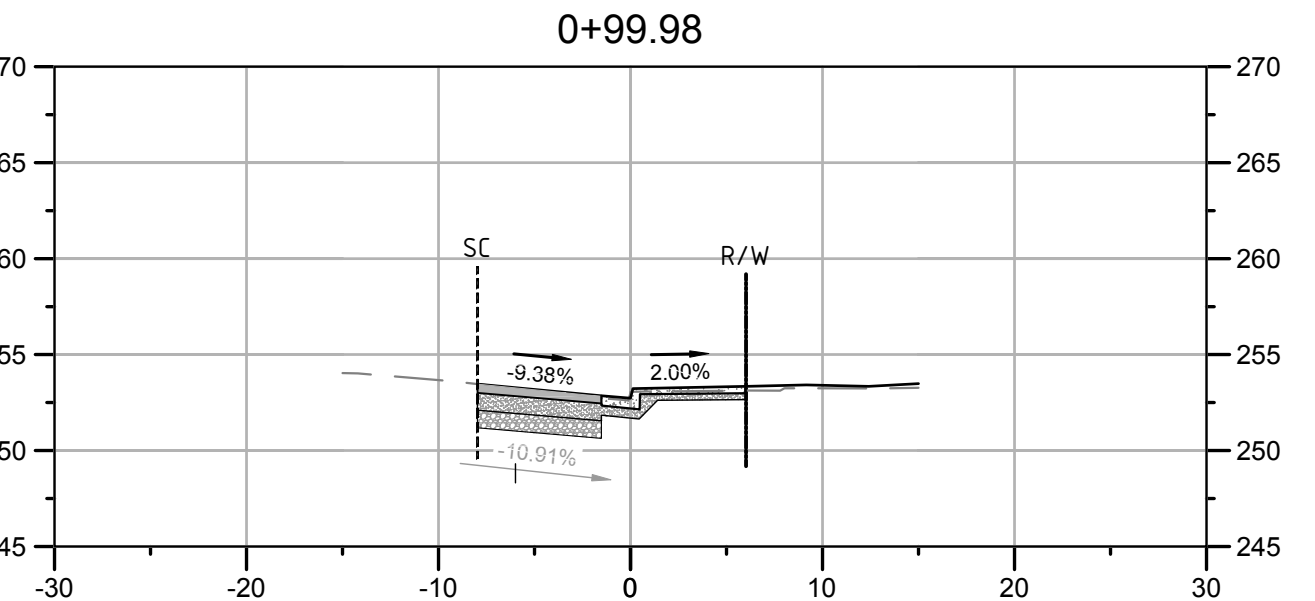
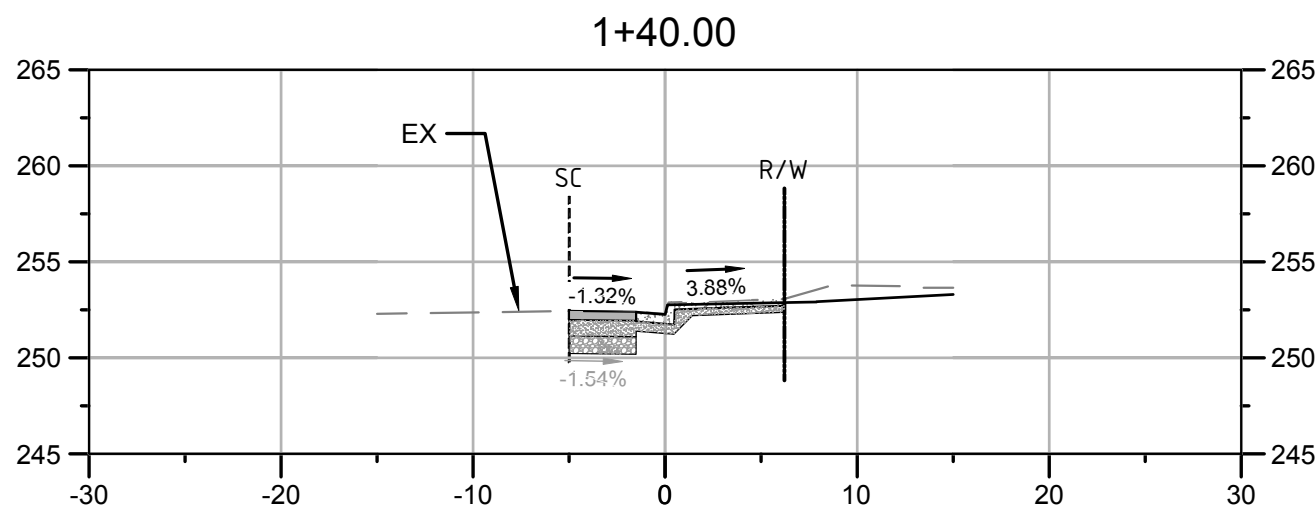
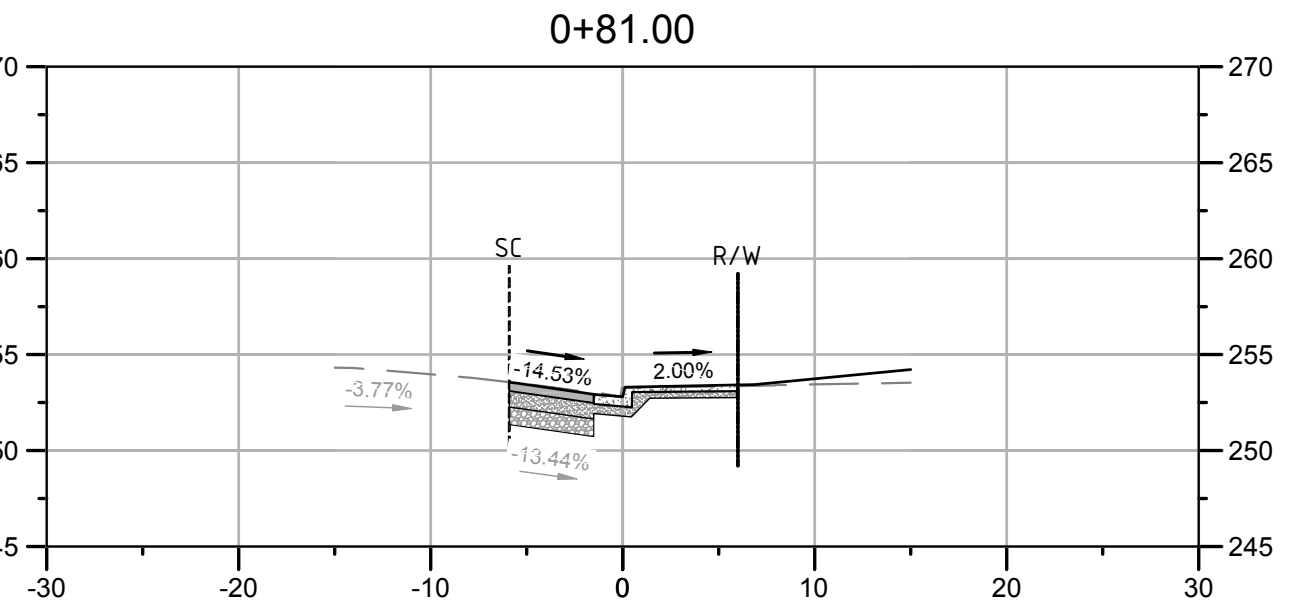
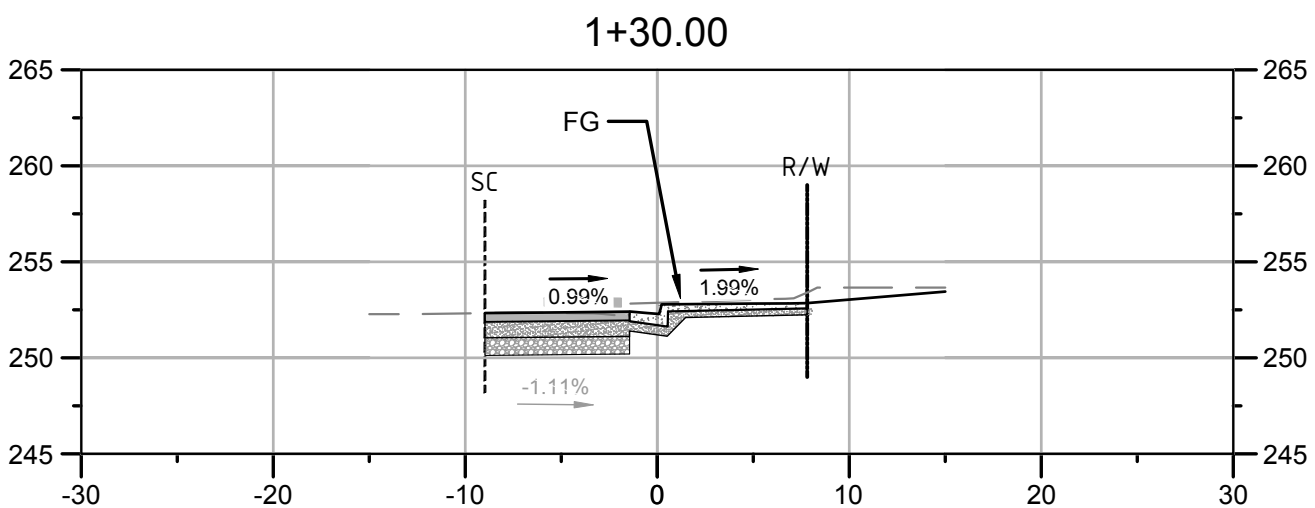
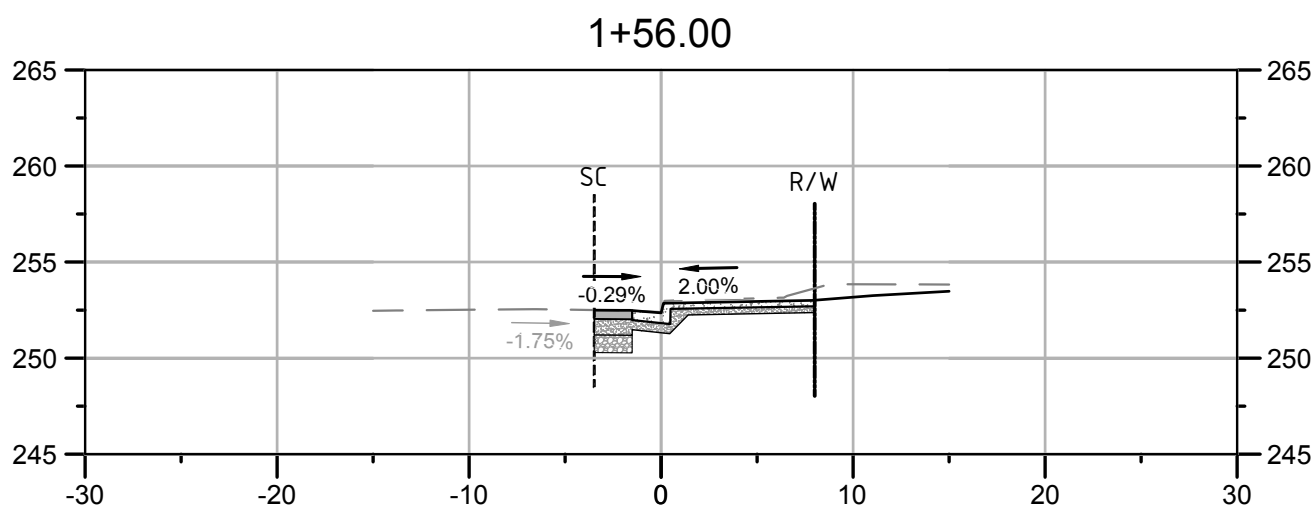
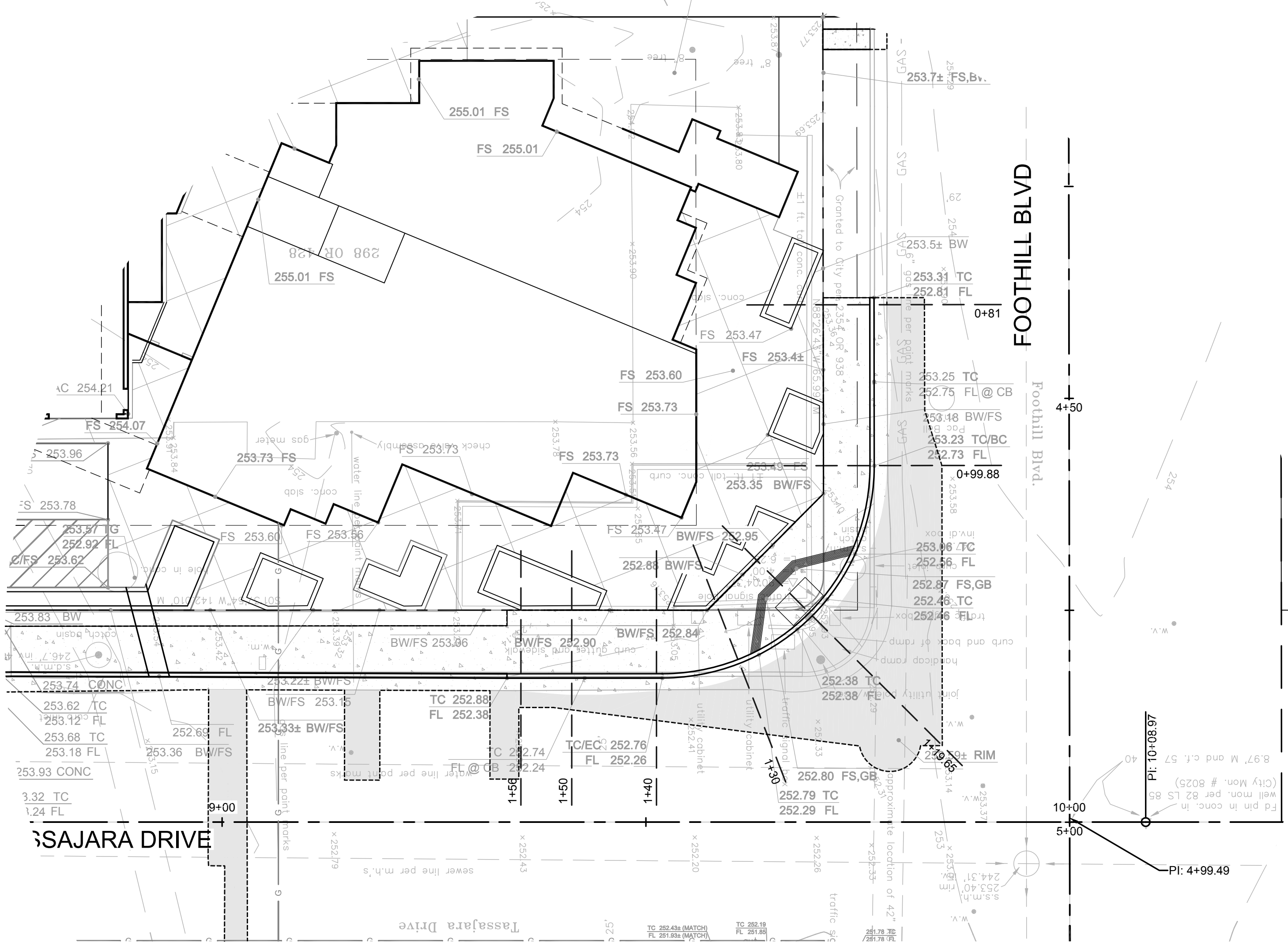
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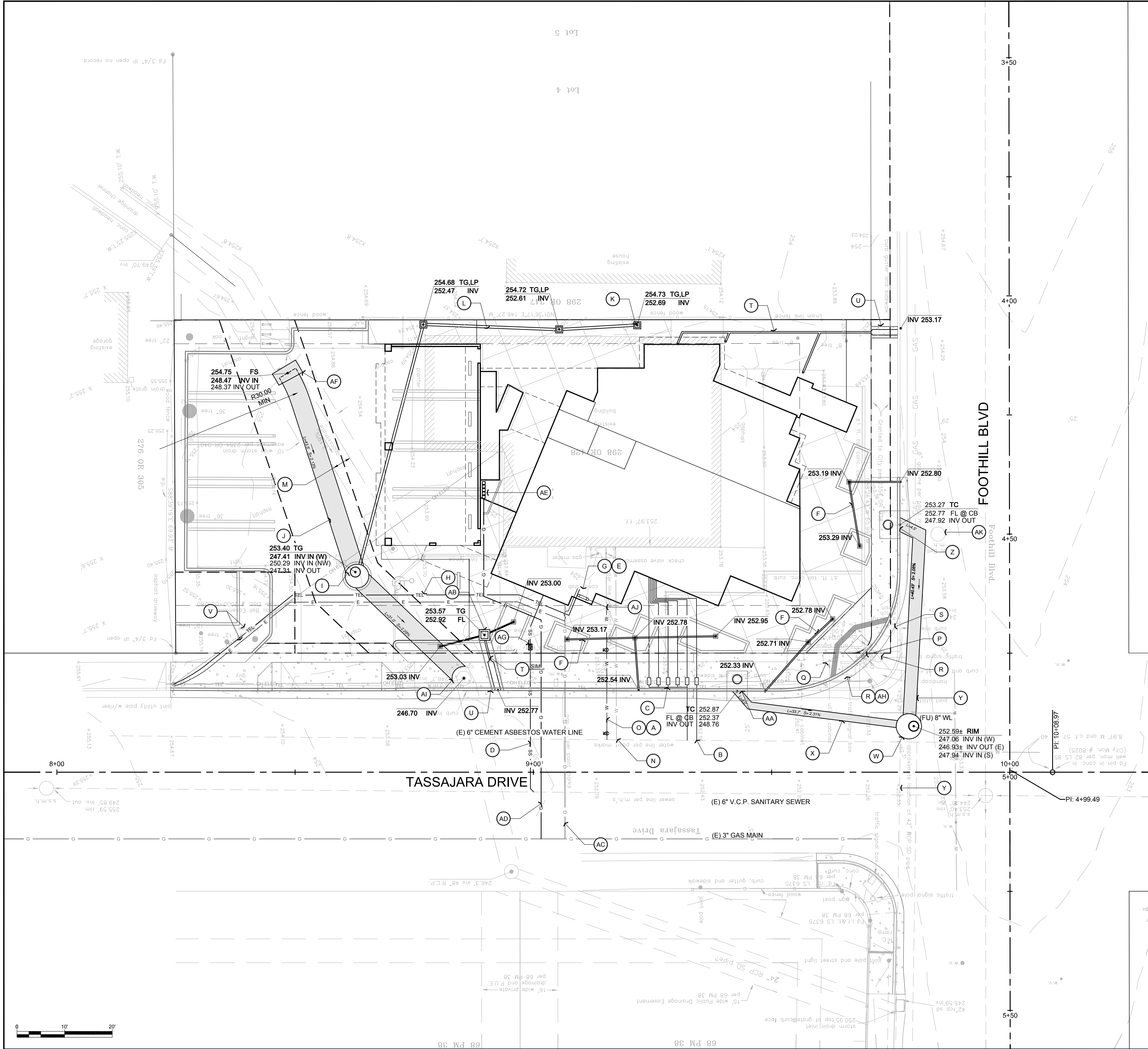
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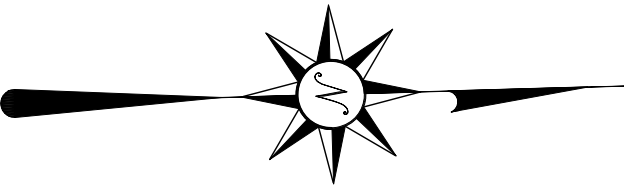


Reference Notes

- A. DEDICATED PVC CLASS 200 FIRE LINE PER SLO CITY STDS 6530, 6340, 6020, 6320, AND 6330. SIZE SHALL BE DETERMINED BY THE APPROVED HYDRAULIC CALCULATIONS FOR THE PROPOSED FIRE PROTECTION SYSTEM.
- B. (2) NEW 2" WATERLINES PER SLO CITY STDS 6110, 6210, 6260, AND 6340
- C. REPLACE EXISTING WATER METER WITH (5) 3/4" WATER METERS & (1) 1" WATER METER PER SLO CITY STDS 6210 AND 6260
- D. NEW 4" SDR 35 PVC SEWER LATERAL PER SLO CITY STDS 6110 AND 6810
- E. NEW 4" BACKFLOW PREVENTER PER SLO CITY STD 6550. LOCATE INSIDE BUILDING PER ARCHITECTURAL PLANS. FIRE DEPARTMENT CONNECTION TO BE LOCATED OUTSIDE OF CLOSET PER FIRE SPRINKLER PLAN AS A DEFERRED SUBMITTAL
- F. 3"Ø PVC PLANTER DRAIN. PROVIDE 3"Ø CAST IRON UNDER SIDEWALK PER SIDEWALK UNDERDRAIN SLO CITY STD 3415
- G. FIRE MAIN BUILDING CONNECTION PER SLO CITY STD 6590
- H. NEW TELEPHONE SERVICE PER AT&T
- I. 60" MANHOLE WITH 24" ECCENTRIC FLAT TOP PER DETAIL A/C-6.4. USE CATCH BASIN INLET FILTER MODEL FGP-RF24F PER DETAIL B/C-6.4
- J. NEW 48" RCP STORMDRAIN TO INTERSECT WITH EXISTING 48" RCP STORMDRAIN
- K. 12" SQ. CATCH BASIN
- L. 6" PVC CLASS 200 STORM DRAIN PIPE
- M. EXISTING 48" RCP STORMDRAIN
- N. EXISTING WATER LINE TO BE ABANDONED AND REMOVED PER SLO CITY STD 6210
- O. EXISTING FIRE SERVICE LATERAL TO BE REMOVED AND UPGRADED PER NOTE A
- P. (E) TRAFFIC SIGNAL POLE TO BE RELOCATED
- Q. (E) UTILITY VAULT TO BE RELOCATED
- R. (E) TRAFFIC SIGNAL BOX TO BE RELOCATED
- S. (E) STORM DRAIN M.H. TO BE REMOVED
- T. 4" PVC CLASS 150 ROOF DRAIN
- U. SIDEWALK UNDERDRAIN PER SLO CITY STD 3415 WITH 4"x14" RECTANGULAR CAST IRON PIPE.
- V. ALL SERVICES TO NEW STRUCTURE SHALL BE UNDERGROUND. INCLUDING EXISTING OVERHEAD ELECTRIC AND TELEPHONE
- W. 60" MANHOLE WITH 24" ECCENTRIC FLAT TOP PER DETAIL A/C-6.4
- X. NEW 18" RCP STORMDRAIN TO INTERSECT WITH NEW 36" RCP STORMDRAIN
- Y. NEW 42" RCP STORMDRAIN WITH IDENTICAL SLOPE AS EXISTING STORMDRAIN
- Z. CATCH BASIN PER SLO CITY STD 3350. CURB INLET OPENING = 4.5' WIDE
- AA. CATCH BASIN PER SLO CITY STD 3350. CURB INLET OPENING = 3' WIDE
- AB. 18" SQ. CATCH BASIN
- AC. ABANDON (E) 1/2" GAS LINE
- AD. (N) 1" GAS LINE
- AE. (5) (N) GAS METERS PER DETAIL L/C-6.5
- AF. CUSTOM CONCRETE COLLAR PER LA CITY PUBLIC WORKS STANDARD S-330-0/C-6.5
- AG. SANITARY SEWER BACKFLOW PREVENTION DEVICE
- AH. SIGNAL & UTILITY WORK ARE SHOWN ON CIP DRAWINGS #90854
- AI. CONNECT NEW 48" STORM DRAIN WITH EXISTING CURB INLET PER DETAIL LABELED "SITE 2, 11 TASSAJARA DRIVE", SHEET C-6.3.2
- AJ. THRUST BLOCK FOR FIRE LINE PER SLO COUNTY STANDARD W-1 AND W1A. USE 1500 PSF FOR HORIZONTAL BEARING STRENGTH
- AK. VERIFY SIZE AND LOCATION OF AT&T MANHOLE PRIOR TO SAWCUTTING PAVEMENT. NOTIFY ENGINEER OF RECORD SHOULD A CONFLICT EXIST

Notes

- A. THE EXISTING SEWER LINE WAS NOT LOCATED. EXISTING SEWER SHALL BE LOCATED DURING CONSTRUCTION AND SHALL BE ABANDONED AND REMOVED IN ENTIRETY, INCLUDING AT THE SEWER LINE MAIN PER SLO CITY STD 6050
- B. WORKING PLANS SHALL BE SUBMITTED FOR APPROVAL TO THE AUTHORITY HAVING JURISDICTION BEFORE ANY EQUIPMENT IS INSTALLED OR REMODELED. SYSTEMS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE 2007 EDITION OF NFPA 24, INCLUDING ALL AMENDMENTS MADE THERETO IN THE CITY MUNICIPAL CODE, AS WELL AS CITY FIRE DEPARTMENT AND ENGINEERING STANDARDS.
- C. SYSTEMS MAY ONLY BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER. PLANS DESIGNED BY AN ENGINEER MAY BE SUBMITTED AS PART OF THE CIVIL DRAWINGS INCLUDED IN A PROJECT PLAN SET IF ALL OF THE FOLLOWING INFORMATION IS INCLUDED IN SUCH PLAN: WORKING PLANS SHALL BE DRAWN TO AN INDICATED SCALE! ON SHEETS OF UNIFORM SIZE, AND SHALL INCLUDE THE FOLLOWING ITEMS THAT PERTAIN TO THE DESIGN OF THE SYSTEM:
1. SIZE AND LOCATION OF ALL EXISTING AND PROPOSED WATER SUPPLIES
  2. SIZE AND LOCATION OF FIRE LINE
  3. LENGTH OF FIRE LINE
  4. MATERIAL OF FIRE LINE
  5. POINT OF CONNECTION TO THE CITY MAIN
  6. SIZES, TYPES AND LOCATIONS OF VALVES, VALVE INDICATORS, REGULATORS, METERS, AND VALVE PITS
  7. DEPTH AT WHICH THE TOP OF THE PIPE IS LAID BELOW GRADE
  8. SIZE AND LOCATION OF FIRE HYDRANTS
  9. SIZE, LOCATION AND PIPING ARRANGEMENT OF FIRE DEPARTMENT CONNECTIONS
  10. SIZE AND LOCATION OF BACKFLOW PREVENTION DEVICE
  11. PLANS SHALL ALSO INCLUDE A STANDARD NOTE INDICATING DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2002 EDITION OF NFPA 24, AS WELL AS CITY OF SAN LUIS OBISPO FIRE AND ENGINEERING STANDARDS.
- D. IF THE ENGINEER CHOOSES NOT TO INCLUDE NFPA 24 REQUIREMENTS, THE UNDERGROUND SUB-CONTRACTOR SHALL SUBMIT PLANS IN ACCORDANCE WITH NFPA 24 AS LISTED ABOVE, AND THE FOLLOWING:
1. SYSTEMS MAY BE DESIGNED, FABRICATED, AND INSTALLED BY FULLY EXPERIENCED AND RESPONSIBLE PERSONS POSSESSING A VALID CONTRACTOR'S LICENSE FOR (A) GENERAL ENGINEERING, (C-16) FIRE PROTECTION, (C-34) PIPELINE, OR (C-36) PLUMBING. CONTRACTORS POSSESSING ANY OF THE ABOVE LICENSES MAY ONLY DESIGN A SYSTEM IF THEY THEMSELVES ARE THE INSTALLING CONTRACTOR. FOR ADDITIONAL INFORMATION SEE CALIFORNIA BUSINESS AND PROFESSIONS CODE SECTION 6737.3. PLANS SUBMITTED BY ANY OF THE ABOVE LISTED LICENSED CONTRACTORS MAY BE A DEFERRED SUBMITTAL. ALL DEFERRED SUBMITTALS SHALL BE LISTED ON TM1C APPROVED PROJECT PLAN SET.
- E. DEVIATION FROM APPROVED PLANS SHALL REQUIRE PERMISSION OF THE AUTHORITY HAVING JURISDICTION
- F. DEFERRED PLANS SHALL BE SUBMITTED TO THE CITY BUILDING DEPARTMENT FOR APPROPRIATE ROUTING, PAYMENT OF FEES, AND PERMIT ISSUANCE.



UTILITY PLAN  
1" = 10'

M.E. Designs

Civil & Structural Engineering  
Drafting & Design

610 10th Street, Suite D 805.610.9545 (office)  
Paso Robles, CA 93446 805.237.0480 (fax)  
www.medesigns.us



PLAN PREPARED FOR:

MR. DAVID LOPEZ  
399 FOOTHILL BLVD.  
SAN LUIS OBISPO, CA 93401

Architectural Design by:

**PARAGON**  
DESIGN ARCHITECTS  
Thomas G. Brjkovich  
Architect

1009 Marro Street, Suite 202  
San Luis Obispo, CA 93401  
(805) 541-8488 voice  
(805) 541-5705 fax

REVISION LOG

REV.	DESCRIPTION	DATE

These drawings are the exclusive property of M.E. Designs and shall be used solely for the purpose of this project on this site. Any use other than the project upon which it is intended for without the written consent of M.E. Designs and Michael Shick is prohibited.

PROJECT NO. ---  
FILE NAME LOPEZ GP.DWG  
DRAWN BY MTS  
DATE 12/16/2010 4:16 PM

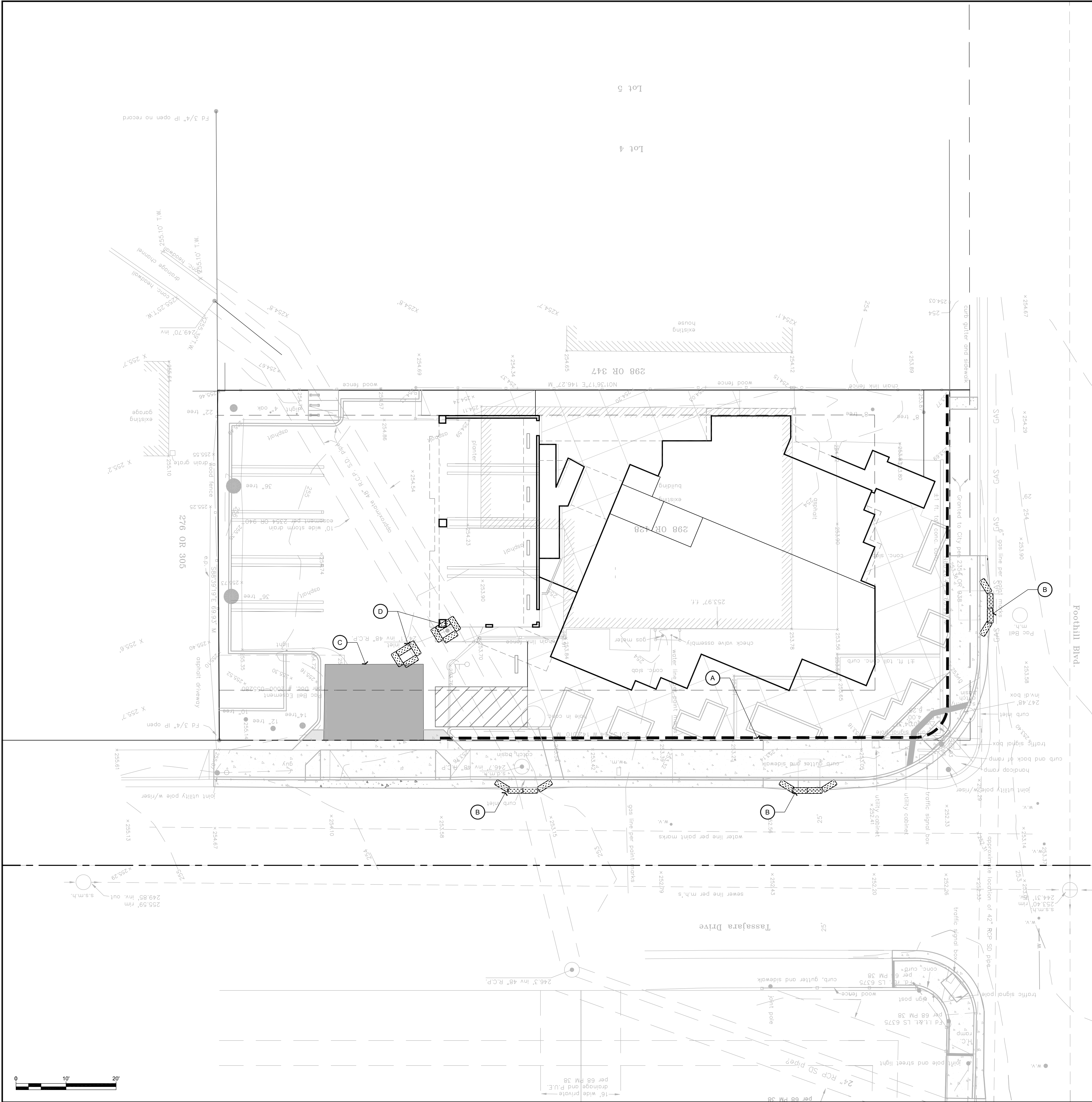
SHEET TITLE:

UTILITY PLAN

SHEET NUMBER:

C-4.1

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## Reference Notes

- STRAW FIBER ROLL (AS NEEDED) PER DETAIL F/C-6.4
- CURB INLET PROTECTION PER DETAIL C/C-6.4
- TEMPORARY GRAVEL ENTRANCE (AS NEEDED) PER DETAIL D/C-6.4
- CATCH BASIN (AREA DRAIN) INLET PROTECTION PER DETAIL E/C-6.4. MOVE TO NEW LOCATION AFTER RE-CONSTRUCTION OF STORM DRAIN

## Air Quality

During construction/ground disturbing activities, the following particulate (dust) control measures shall be implemented. The contractor or builder shall be designated to monitor the dust control program and order increased watering, as necessary, to prevent transport of dust off site. Their duties shall include holiday and weekend periods when work may not be in progress. Their contact information shall be presented to the APCD prior to commencement of construction.

- Reduce the amount of disturbed area where possible
- Use or water trucks or sprinkler systems in sufficient quantities to prevent airborne dust from leaving the site. Increased watering frequency would be required whenever wind speeds exceed 15 mph. Reclaimed (nonpotable) water should be used whenever possible;
- All dirt stock-pile areas should be sprayed daily as needed;
- All roadways, driveways, sidewalks, etc to be paved shall be completed as soon as possible; and
- Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.

During initial grading/scraping, burning shall not be allowed, or if no alternative is available, the applicant shall obtain a burn permit from the APCD and County Fire/California Department of Forestry, and comply with all conditions required by these agencies.

The following person shall be responsible for monitoring the dust & erosion control program for this project:

DAVID LOPEZ  
805.801.5311

## Erosion Control Notes

- The contractor shall be responsible for implementing & monitoring the approved erosion & sedimentation control plan.
- Erosion control measures shall be implemented and maintained to the satisfaction of the Building Official and Public Works Director during all demolitions, construction and ground disturbing activities
- The adjoining street shall be cleaned by sweeping to remove dirt, dust, mud and construction debris at the end of each day.
- Temporary erosion control measures shall be removed when permanent improvements, plantings and facilities are in place. Temporary measures shall be removed prior to final inspection approvals.

## Saw Cutting Slurry Disposal

Saw cutting slurry is not allowed to be dumped into the City's sewers, storm drains or any natural outlet per section 7-1.01G of the City's standard specifications. Slurry adds to the build up of sediments in the sewer pipes that can cause blockages and overflows. Anything dumped into the storm drains and natural outlets flows directly into the creek system without treatment and ends up polluting our creek and the ocean. If you are a general contractor, you should inform any subcontractor working on the job site of these conditions.

### SAW CUTTING OPERATIONS

- All storm drain inlets near the work area should be protected and/or covered to prevent any slurry from entering the inlets.
- Slurry must be vacuumed up in conjunction with the cutting and properly disposed of per the City's Standard Specifications. There should not be any residue left on site to become blowing dust after it has dried.
- If saw cutting slurry enters a storm drain/natural outlet, clean it up immediately.

### WAYS TO REDUCE SLURRY

- Use as little cooling water as possible.
- Turn off water when not cutting.
- Do not clean the cutting area by hosing it down.

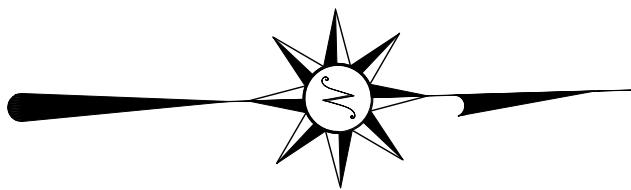
### HOW DO I PROPERLY DISPOSE OF SLURRY?

Proper disposal does not include the sewer, storm drain or any other natural outlet. The following are a couple of disposal methods that may be used:

- Trenching operations - pour the slurry into the sand or dirt used to backfill the trench.
- Large jobs - designate an area at the job site or in the construction yard where a holding pit can be made to dump the slurry until it dries.

### PENALTIES AND FINES!

Failure to comply with the above will result in work being stopped. Additionally, a fine of \$1000 per day per violation may be assessed per Section 13.08.390 of the City 1. Municipal Code.



**EROSION CONTROL**  
1" = 10'

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### REVISION LOG

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PROJECT NO. ---

FILE NAME LOPEZ GP.DWG

DRAWN BY MTS

DATE 12/16/2010 4:16 PM

SHEET TITLE:

**EROSION  
CONTROL PLAN**

SHEET NUMBER:

**C-5.1**



# GENERAL NOTES:

Ramps shall be constructed per Engineering Standard 4440 in conjunction with current California Department of Transportation Standard Plans RSP AB8A and RSP AB8B with the following exceptions (A copy of the standard current at the time of this printing is included in the Appendices):

- Dimension "T" for the thickness of the ramp shall be 4" for the main ramp area and 6" in the curb and gutter area in accordance with Engineering Standards 4030 and 4110.
- Detectable warning shall be prefabricated, cast-in-place or stamped into the surface of the curb ramp. The color of the detectable warning surface shall be yellow conforming to Federal Standard 595B, Color No. 33538.
- Prefabricated detectable warning surfaces shall be in conformance with the requirements established by the Department of General Services, Division of State Architect and be attached in conformance with the manufacturer's recommendations. The manufacturer shall provide a 5 year warranty for prefabricated detectable warning surfaces, guaranteeing replacement when there is defect in the dome shape, color, fastness, sound-on-cone acoustic quality, resilience or attachment. The warranty period shall begin upon acceptance of the contract, development or permit work.
- Cast-in-place and stamped detectable warning surfaces shall be painted in conformance with the provisions in Section 59-6, "Painting Concrete" of the Standard Specifications.
- The finished surfaces of the detectable warning surface shall be free from blemishes.
- Ramp shall include 4" of Class 3 aggregate base under the sidewalk area of the ramp, 6" of base under the curb and gutter area of the ramp.
- Grooving shall be tooled not cut.
- ½" X 18" dowels shall be provided at expansion joints at 24" O.C.
- Street surface within 4' of ramp bottom may not slope greater than 5% in any direction.
- See Eng. Std. 4110 for notes regarding pavement removal and repair.
- Ramp shall be reinforced (#3 @ 18" O.C. or #4 @ 24" O.C.) both ways full width and depth of ramp.
- Construct gutter with ramp and match to adjacent gutters.

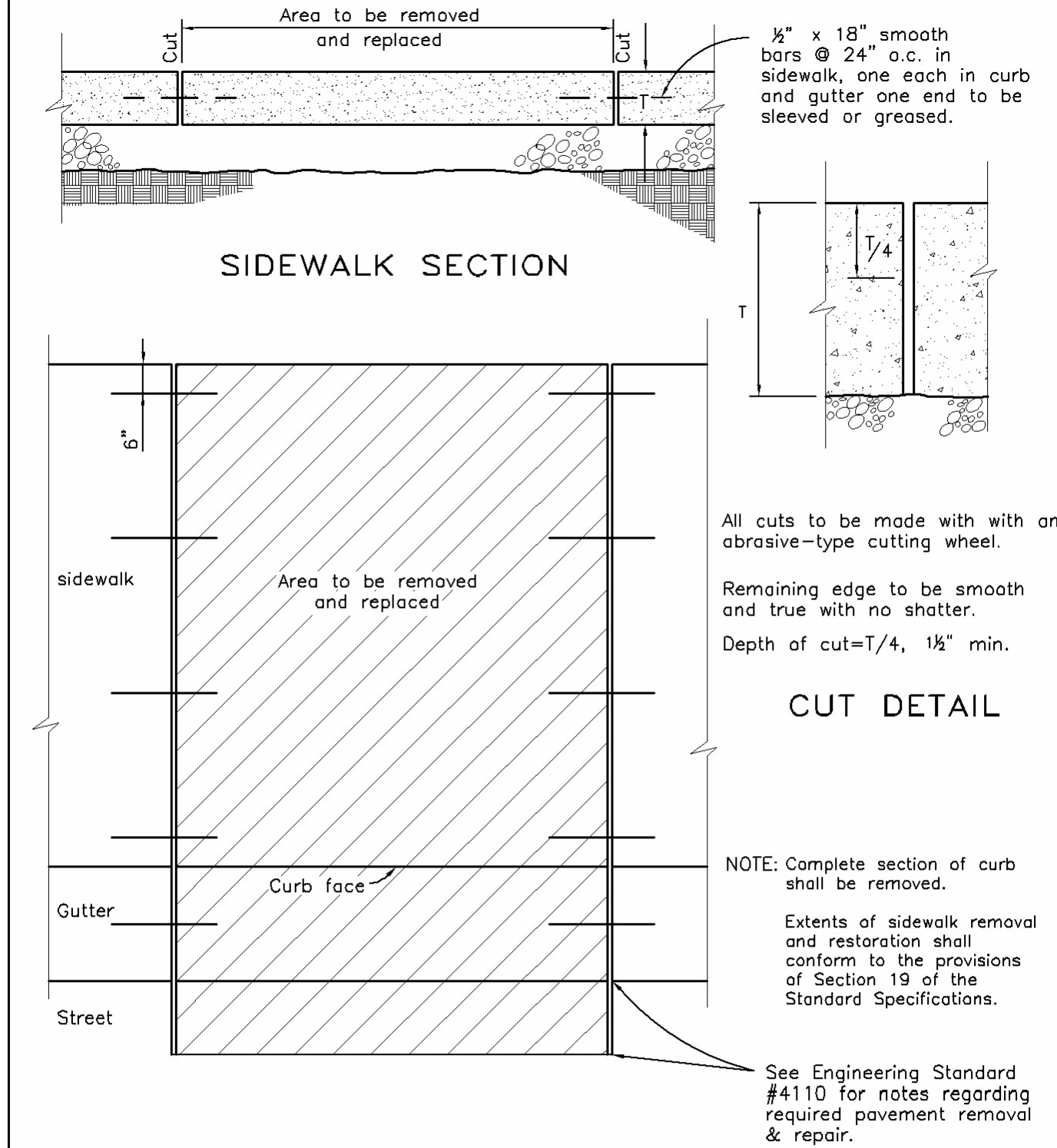
## ADDITIONAL NOTES FOR MISSION STYLE AREA:

- Additional notes for Mission Style Area shall apply in those areas designated as Mission Style Sidewalk Areas per City Council Resolution.
- Ramp and adjoining sidewalks shall be constructed in accordance with Engineering Standard 4220 for color, finish and tile placement.

REVISIONS	BY	APP	DATE		
Revised Note 12 & 14	MH	BL	10/09		
Revised Notes 11 & 14	DVB	BL	12/08		
Additional Notes 8-12	CC	BL	03/05		
STANDARD CURRENT AS OF:	January 2010				4440



## CURB RAMP CORNERS AND MIDBLOCK

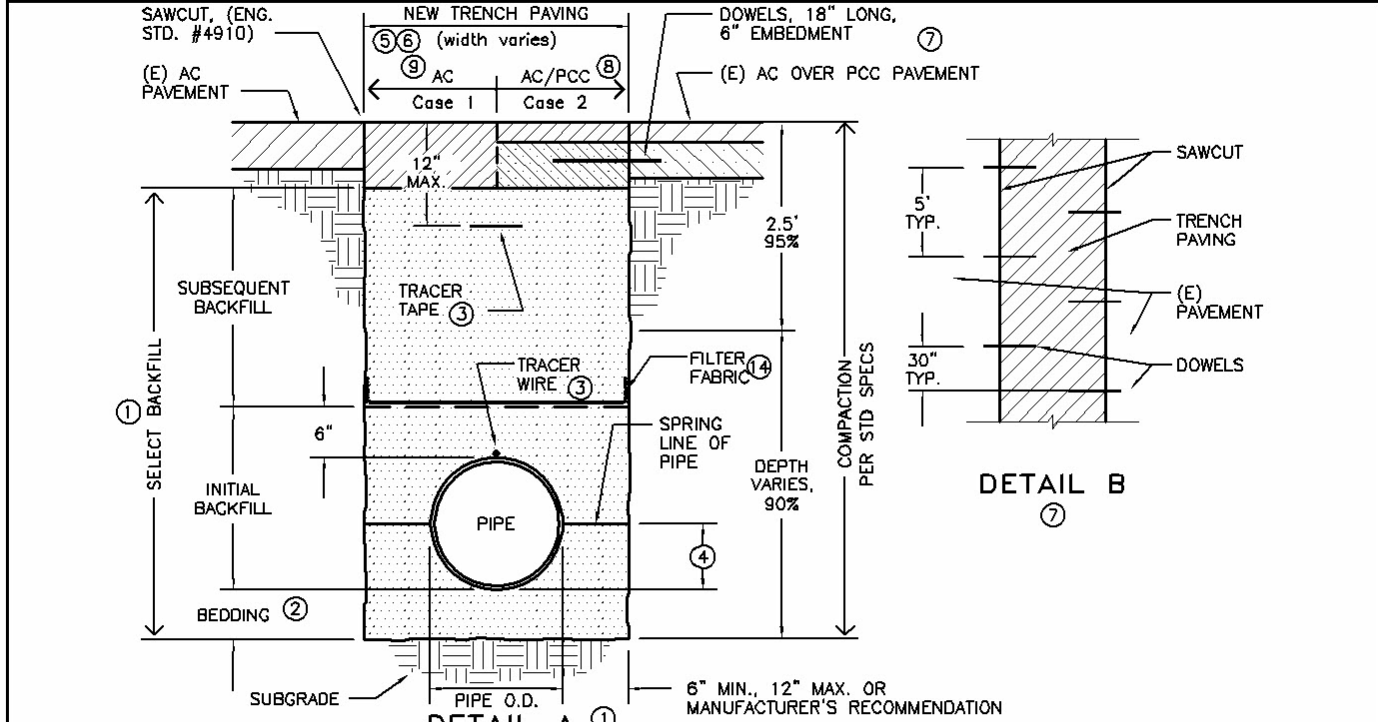


## PLAN OF CURB, GUTTER & SIDEWALK

REVISIONS	BY	APP	DATE		
New border	JDL	WAP	9-97		
Removal Extents Rev.	BL	JDW	10-03		
Revise re-bar specs	JDL	WAP	11-98		
STANDARD CURRENT AS OF:	January 2010				4910

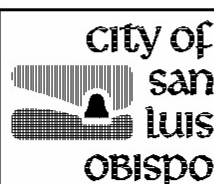


## CUTTING CONCRETE

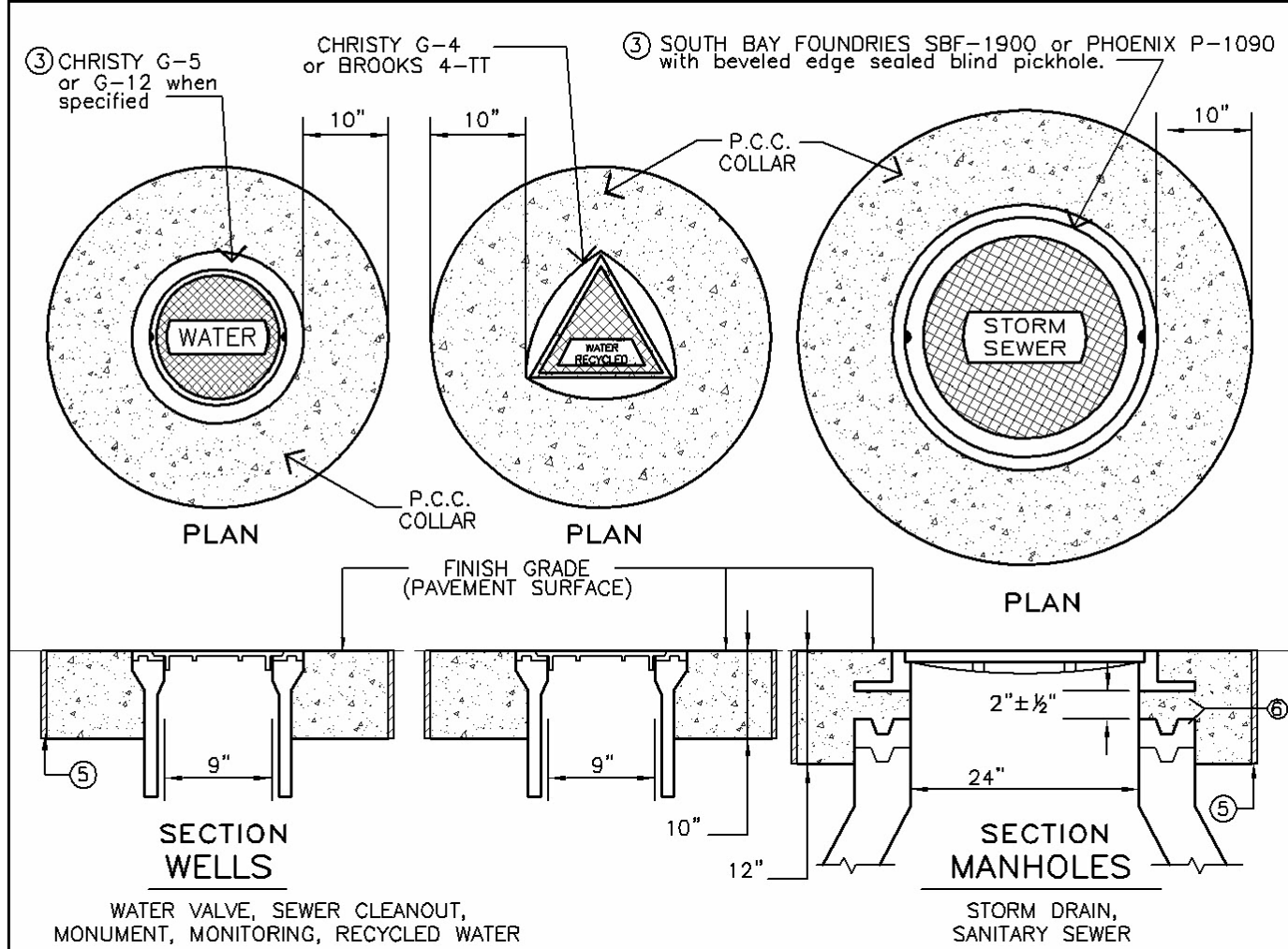


- NOTES:**
- See City Standard Specifications, Section 19, for backfill material and bedding requirements.
  - Bedding shall be 4" thick except as otherwise noted in the Standard Specifications.
  - Non-metallic sewerlines shall be installed with a magnetic tracer tape as shown above. All waterlines and sewer force mains shall be installed with 14-gauge insulated solid copper tracer wire, secured to the center of the top of the pipe with tape at 6' intervals. Adjacent to each manhole and lift station, a G-5 utility well shall be installed per Eng Std 6040 for access to force main tracer wire. Tracer wire is to be installed per Engineering Standard #6340. Wire shall be continuous and be tested for continuity. Wire to services, fire lines, etc. shall be joined to wire on main. All joints in wire to be soldered and wrapped with electrical tape.
  - When flexible pipe (PVC, HDPE, etc.) is used, pipe shall be backfilled to the spring line, compacted and backfill tested prior to completing initial backfill.
  - The streets of San Luis Obispo are generally paved with either AC, PCC, or a combination of the two. Unless clearly indicated on the plans, it is the contractor's responsibility to determine the nature of the paving material. (Case 1 - AC only, Case 2 - AC over PCC.)
  - Replacement pavement shall be "in kind". Concrete streets which contain a reinforcement fabric or grid shall be "tee cut" with the width of the AC cut extending one foot beyond each side of the trench. A new layer of pavement reinforcing fabric shall be installed above the new PCC and beneath the new AC. A new layer of pavement reinforcing fabric shall be installed above the new PCC and beneath the new AC. All concrete street sections require ½" smooth steel dowels per Detail B above.
  - New PCC shall not be brought above existing PCC, shall be Class 3, and shall be 8" thick.
  - When only AC is used, new AC shall be 6" thick on local streets, and 10" thick on collector or arterial streets.
  - Backfill testing is required and results are subject to approval by the City Engineer.
  - No longitudinal joints or seams are allowed in bike lanes. If a longitudinal joint may result due to the contractor's work, or this requirement, the contractor shall remove a minimum of 2" of asphalt from the pavement across the entire bike lane using a method approved by the City and resurface the bike lane to the satisfaction of the City.
  - During backfill operations, the trench shall be backfilled and compacted and tested to the spring line of any utilities crossing the trench before proceeding with further backfill.
  - Float rock may be substituted for initial backfill when ground water is present as approved by the Engineer.
  - Filter fabric shall be required when initial backfill is float rock. Filter fabric shall be placed between initial and subsequent backfill and wrapped up trench sides 6".
  - Concrete plug is to be required where groundwater is anticipated. Location and frequency shall be determined by the Engineer.

REVISIONS	BY	APP	DATE		
Revise Note 6	DVB	BL	11-08		
Revised note 3	MH	BL	10-09		
Revised Note 6	MH	BL	11-09		
STANDARD CURRENT AS OF:	January 2010				6020

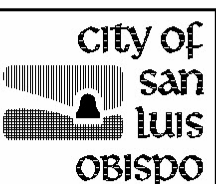


## TRENCH DETAIL #1 PAVED OR UNPAVED STREETS

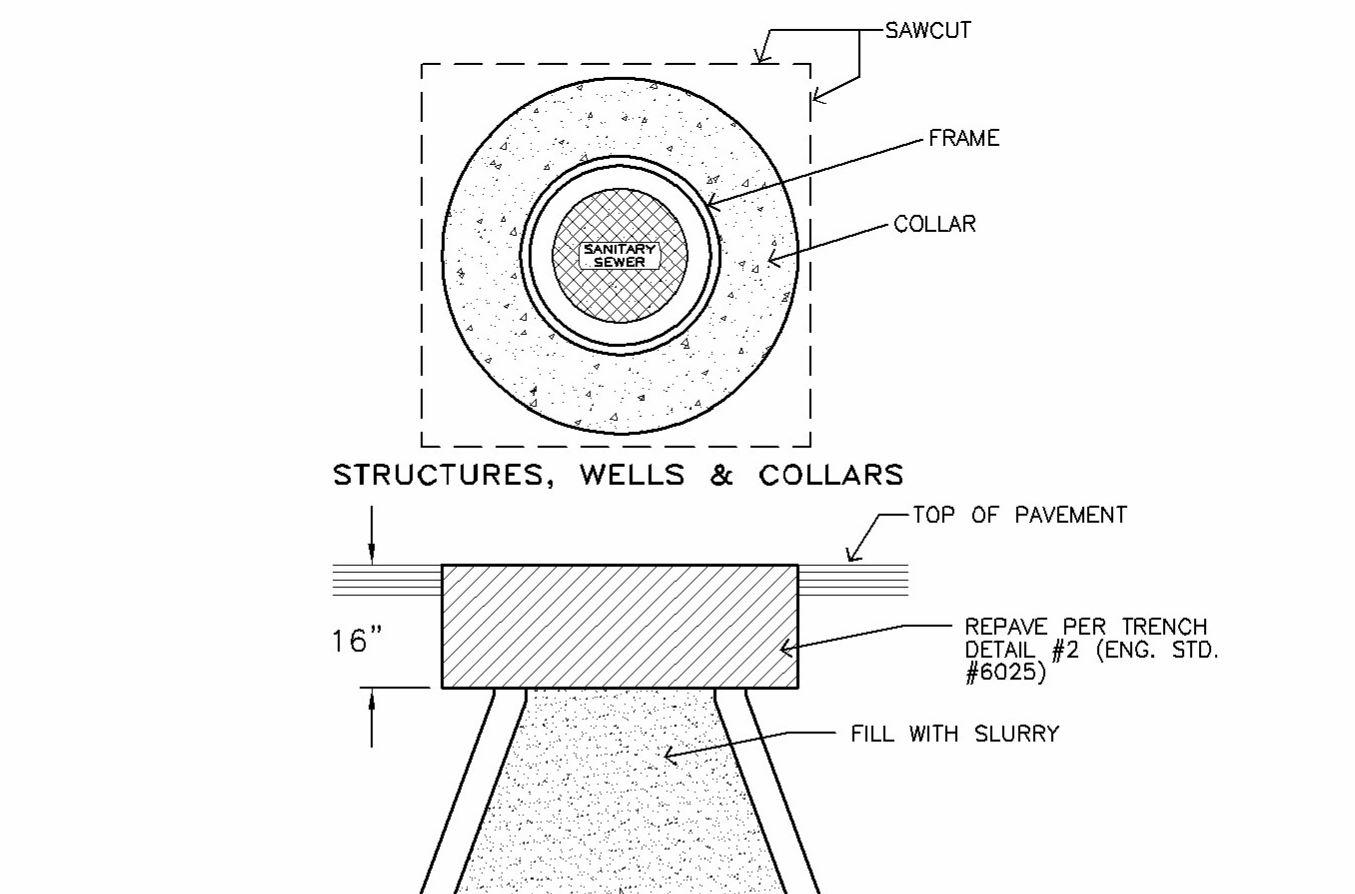


- NOTES:**
- Completely remove existing concrete collar prior to pouring new concrete collar. The diameter of the new collar shall be equal to the existing collar or the minimum diameter specified in the above detail, whichever is larger.
  - Concrete shall be Class 2 concrete, troweled to street grade, and allowed to cure for 48 hours prior to any traffic use. Class 1 concrete may be required to allow next-day traffic use.
  - All utility covers to be raised shall be replaced, if needed, to conform to covers specified above. Covers shall be imprinted with the appropriate utility name.
  - Depth and radius dimensions shown apply to similar covers that are not shown.
  - Collars constructed in P.C.C. streets shall be circular in shape and shall be separated from the adjacent P.C.C. street by either a cold joint or a tin form.
  - MANHOLES:
    - Rings shall be 3" or 6". Top of cone to top of frame shall not exceed 18". Grade rings and manhole frame shall be sealed at every joint with butyl rubber (CONSEAL CS-102 or equal). When proper grade cannot be achieved with standard grade rings, the manhole frame shall be suspended in position over the last grade ring, the inside of the frame and shaft shall be formed with tube or manhole system, and the concrete collar shall be poured to provide the joint between the manhole frame and the grade ring stack. Inside of rings shall be grouted with non-shrink grout to obtain a smooth surface free from gaps, holes and sharp edges. 2" clearance applies to the low side of the frame. Clearance may be greater on the high side as dictated by the street grades and as directed by the City Engineer. Use 6" concrete reducing rings in cases where existing manhole opening must be reduced to accommodate the new frame and cover.
    - When a roadway is overlaid with asphalt concrete, the contractor may use extension rings to adjust utility covers to the new surface elevation. When extension rings are used to adjust grade, a preformed thermoplastic ring shall be applied around the perimeter of the concrete. Extension ring shall be compatible with the existing cover. Thermoplastic ring width shall be a minimum of 6 inches.

REVISIONS	BY	APP	DATE		
New border	JDL	WAP	9-97		
Add note 7	DVB	BL	11-08		
Add recycled water well	SR	BL	3-06		
STANDARD CURRENT AS OF:	January 2010				6040



## UTILITY COVER GRADE ADJUSTMENT & P.C.C. COLLAR



## GENERAL NOTES: STRUCTURES

- All stormdrains, water lines and sewer lines that are taken out of service shall be abandoned by disconnecting the pipeline from the active system, plugging all openings, and removing all related surface features, such as: Blow-Offs, Air Release Valves, Valve Wells, Vaults, Boxes, Frames, Covers and Collars, Manholes & Cleanout Wells. All openings shall be capped with approved fittings, such as: Expandable plugs for sewerlines, Caps, Blind Flanges, Dresser Couplings with Plug, and Valves.
- All water services from abandoned mains shall be pinched-off, capped or plugged with approved fittings, or closed with the corp. stops. If the water services are being abandoned and the main is to remain live, services shall be shut off at the corp. stop and capped or plugged with a threaded brass fitting.
- Water valves that are determined by the Utilities Department to be redundant or otherwise unnecessary shall be removed.
- Valve well and cleanout risers shall be removed, backfilled with sand, and compacted to 95%. The tops of all manholes and other structures to be abandoned shall be removed by sawcutting using square cuts, in accordance with Engineering Standard #4910. The structure shall be removed to a depth of 16" below street grade, and filled with slurry containing 122 lbs. of cement per 1 ft<sup>3</sup> to the top of the remaining structure. Pavement replacement shall be per Trench Detail #2 (Engineering Standard #6025).
- All sewer laterals from the abandoned sewer main shall be capped, or plugged with approved fittings. If the sewer laterals are being abandoned and the main is to remain live, the laterals shall be excavated at the main by the Contractor and the actual abandonment will be performed by the City. A 48-hour notice shall be given to the City to schedule these abandonments.

REVISIONS	BY	APP	DATE		
New border	BL	WAP	9-97		
Add note "C"	JDL	WAP	7-01		
Revised note "C"	MH	BL	10-09		
STANDARD CURRENT AS OF:	January 2010				6050



## UTILITY PIPELINE ABANDONMENT

## CRITERIA FOR THE SEPARATION OF WATER MAINS AND SANITARY SEWERS

### A. PUBLIC HEALTH CONSIDERATIONS

Waterborne disease outbreaks attributed to the entry of sewage-contaminated groundwater into the distribution systems of public water supplies continue to be a problem in the United States. A community with its buried water mains in close proximity to sanitary sewers is vulnerable to waterborne disease outbreaks.

Sanitary sewers frequently leak and saturate the surrounding soil with sewage. This is caused primarily by structural failure of the sewer line, improperly constructed joints, and subsidence or upheaval of the soil encasing the conduit. A serious public health hazard exists when the water mains are depressurized and no pressure or negative pressures occur. The hazard is further compounded when, in the course of installing or repairing a water main, existing sewer lines are broken. Sewage spills into the excavation and, hence, enters into the water main itself. Additionally, if a water main fails in close proximity to a sewer line, the resultant failure may disturb the bedding of the sewer line and cause it to fail. In the event of an earthquake or man-made disaster, simultaneous failure of both conduits often occur.

The water supplier is responsible for the quality of the water delivered to consumers and must take all practical steps to minimize the hazard of sewage contamination to the public water supply. Protection of the quality of the water in the public water system is best achieved by the barrier provided by the physical separation of the water mains and sewer lines.

This document sets forth the construction criteria for the installation of water mains and sewer lines to prevent contamination of the public water supplies from nearby sanitary sewers.

### B. BASIC SEPARATION STANDARDS

The "California Waterworks Standards" sets forth the minimum separation requirements for water mains and sewer lines. These standards, contained in Section 64630, Title 22, California Administrative Code, specify:

- Parallel Construction: The horizontal distance between pressure water mains and sewer lines shall be at least 10 feet.
- Perpendicular Construction (Crossing): Pressure water mains shall be at least 12 inches above sanitary sewer lines where these lines must cross.
- Separation distances specified in (c) shall be measured from the nearest edges of the facilities.
- Common Trench: Water mains and sewer lines must not be installed in the same trench.

When water mains and sanitary sewers are not adequately separated, the potential for contamination of the water supply increases. Therefore, when adequate physical separation cannot be attained, an increase in the factor of safety should be provided by increasing the structural integrity of both the pipe materials and joints.

REVISIONS	BY	APP	DATE		
Revise notes: B c2, B.e Add F note	SR	BL	3-06		
Add notes: B 4.g and h	JDL	WAP	2-99		
Consolidate E110, E120 & E130	JDL	JDW	6-02		
STANDARD CURRENT AS OF:	January 2010				6110



## WATER - SEWER SEPARATION CRITERIA TEXT

Page 1 6110

### C. EXCEPTIONS TO BASIC SEPARATION STANDARDS

Local conditions, such as available space, limited slope, existing structures, etc., may create a situation where there is no alternative but to install water mains or sewer lines at a distance less than that required by the Basic Separation Standards. In such cases, alternative construction criteria as specified in Section E should be followed, subject to the special provisions in Section D.

Water mains and sewers of 24 inch diameter or greater may create special hazards because of the large volumes of flow. Therefore, installations of water mains and sewer lines 24 inch diameter or larger should be reviewed and approved by the health agency prior to construction.

### D. SPECIAL PROVISIONS

- The Basic Separation standards are applicable under normal conditions for sewage collection lines and water distribution mains. More stringent requirements may be necessary if conditions such as high groundwater exist.
- Sewer lines shall not be installed within 26 feet horizontally of a low head (6 psi or less pressure) water main.
- New water mains and sewers shall be pressure tested where the conduits are located 10 feet apart or less.
- In the installation of water mains or sewer lines, measures should be taken to prevent or minimize disturbances of the existing line. Disturbance of the supporting base of this line could eventually result in failure of this existing pipeline.
- Special consideration shall be given to the selection of pipe materials if corrosive conditions are likely to exist. These conditions may be due to soil type and/or the nature of the fluid conveyed in the conduit, such as a septic sewage which produces corrosive hydrogen sulfide.
- Sewer Force Mains
  - Sewer force mains shall not be installed within 10 feet (horizontally) of a water main.
  - When a sewer force main must cross a water line, the crossing should be as close as practical to the perpendicular. The sewer force main should be at least 12 inches below the water line.
  - When a new sewer force main crosses under an existing water main, all portions of the sewer force main within 10 feet (horizontally) of the water main shall be enclosed in a continuous sleeve.
  - When a new water main crosses over an existing sewer force main, the water main shall be constructed of pipe materials with a minimum rated working pressure of 200 psi or equivalent pressure rating.

REVISIONS	BY	APP	DATE		
Revise notes: B c2, B.e Add F note	SR	BL	3-06		
Add notes: B 4.g and h	JDL	WAP	2-99		
Consolidate E110, E120 & E130	JDL	JDW	6-02		
STANDARD CURRENT AS OF:	January 2010				6110



## WATER - SEWER SEPARATION CRITERIA TEXT

Page 2 6110

### E. ALTERNATIVE CRITERIA FOR CONSTRUCTION

The construction criteria for sewer lines or water mains where the Basic Separation Standards cannot be attained are shown in Figures 1 and 2, Engineering Standard #5140. There are two situations encountered:

Case 1 -- New sewer line -- new or existing water main.

Case 2 -- New water main -- existing sewer line.

For Case 1, the alternate construction criteria apply to the sewer line.

For Case 2, the alternate construction criteria may apply to either or both the water main and sewer line.

The construction criteria should apply to the house laterals that cross above a pressure water main but not to those house laterals that cross below a pressure water main.

### F. CONSIDERATION OF RECYCLED WATER

- Recycled water mains shall be treated as sewer mains when considering their separation from potable water.
- Recycled water mains shall be treated as potable water mains when considering their separation from sewers.

REVISIONS	BY	APP	DATE		
Revise notes: B c2, B.e Add F note	SR	BL	3-06		
Add notes: B 4.g and h	JDL	WAP	2-99		
Consolidate E110, E120 & E130	JDL	JDW	6-02		
STANDARD CURRENT AS OF:	January 2010				6110



## WATER - SEWER SEPARATION CRITERIA TEXT

Page 3 6110

## M.E. Designs Civil & Structural Engineering Drafting & Design

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www.medesigns.us



PLAN PREPARED FOR:

MR. DAVID LOPEZ  
399 FOOTHILL BLVD.  
SAN LUIS OBISPO, CA 93401

Architectural Design by:

**PARAGON**  
DESIGN ARCHITECTS  
Thomas G. Brejkovich  
Architect

1009 Marro Street, Suite 202  
San Luis Obispo, CA 93401  
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(805) 541-5705 fax

## REVISION LOG

REV.	DESCRIPTION	DATE

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PROJECT NO. ---  
FILE NAME LOPEZ GP.DWG  
DRAWN BY: MTS  
DATE 12/16/2010 4:16 PM

SHEET TITLE:

## DETAILS

SHEET NUMBER:

C-6.2

ZONE	SPECIAL CONSTRUCTION REQUIRED FOR SEWER
A	Sewer lines parallel to water mains shall not be permitted in this zone without approval from the responsible health agency and water supplier.
B	<p>A sewer line placed <u>parallel</u> to a water line shall be constructed of:</p> <ol style="list-style-type: none"> <li>1. Plastic sewer pipe with rubber ring joints (per ASTM D3034) or equivalent.</li> <li>2. Ductile iron pipe with compression joints.</li> </ol>
C	<p>A sewer line <u>crossing</u> a water main shall be constructed of:</p> <ol style="list-style-type: none"> <li>1. Ductile iron pipe with hot dip bituminous coating and mechanical joints.</li> <li>2. A continuous section of Class 200 (DR 14 per AWWA C900) plastic pipe, or equivalent, centered over the pipe being crossed.</li> <li>3. Any sewer pipe within a continuous sleeve.</li> </ol>
D	<p>A sewer line <u>crossing</u> a water main shall be constructed of:</p> <ol style="list-style-type: none"> <li>1. A continuous section of ductile iron pipe with hot dip bituminous coating.</li> <li>2. A continuous section of Class 200 (DR 14 per AWWA C900) plastic pipe or equivalent, centered over the pipe being crossed.</li> <li>3. Any sewer pipe within a continuous sleeve.</li> <li>4. Any sewer pipe separated by a 10 feet by 10 feet, 4 inches thick reinforced concrete slab.</li> </ol>

ZONE	SPECIAL CONSTRUCTION REQUIRED FOR WATER
A	No water mains parallel to sewers shall be constructed without approval from the health agency.
	<p>If the sewer <u>paralleling</u> the water main does not meet the Case 1, Zone B requirements, the water main shall be constructed of:</p> <ol style="list-style-type: none"> <li>1. Ductile iron pipe with hot dip bituminous coating.</li> <li>2. Class 200 pressure rated plastic water pipe (DR 14 per AWWA C900) or equivalent.</li> </ol>
C	<p>If the sewer <u>crossing</u> the water main does not meet the Case 1, Zone C requirements, the water main shall have no joints in Zone C and be constructed of:</p> <ol style="list-style-type: none"> <li>1. or 2. as in Zone B, above.</li> </ol>
D	<p>If the sewer <u>crossing</u> the water main does not meet the Case 1, Zone D requirements, the water main shall have no joints within 4 feet from either side of the sewer and shall be constructed of:</p> <ol style="list-style-type: none"> <li>1. or 2. as in Zone B, above.</li> </ol>



city of  
san  
luis  
OBISPO

## Page 4 6110

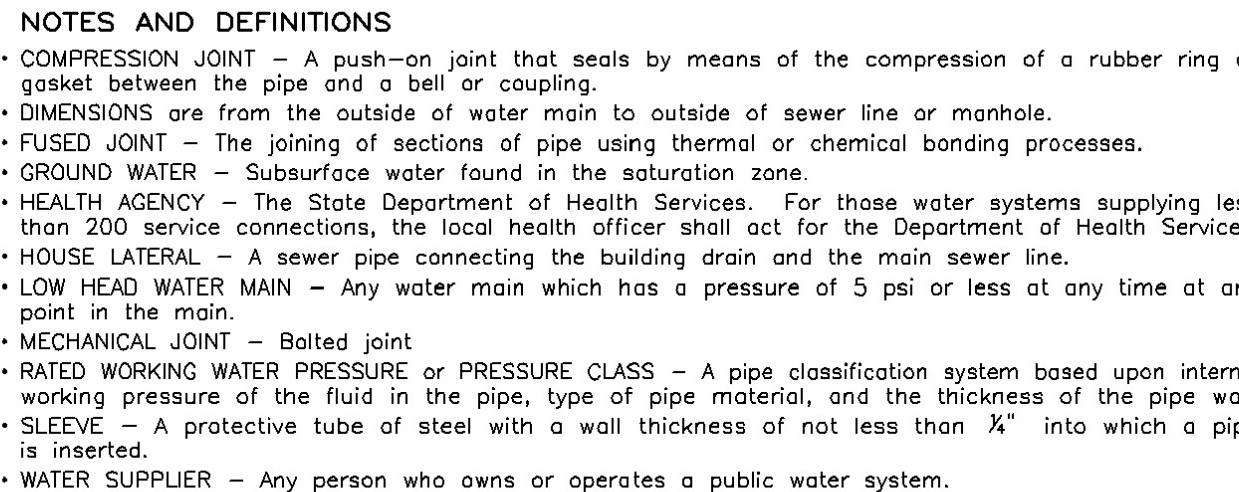


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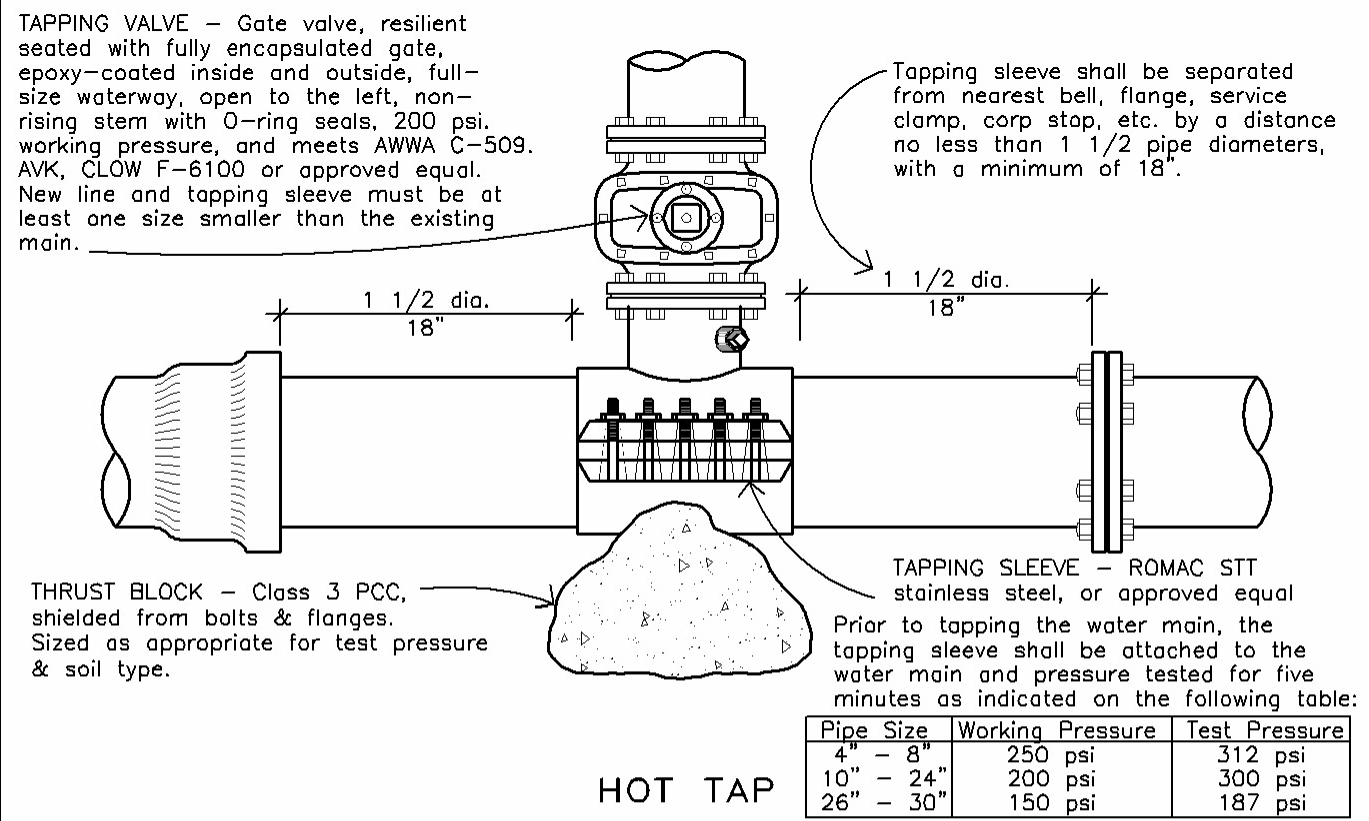


city of  
san  
luis  
OBISPO

## 6320



## 6140



## 6330



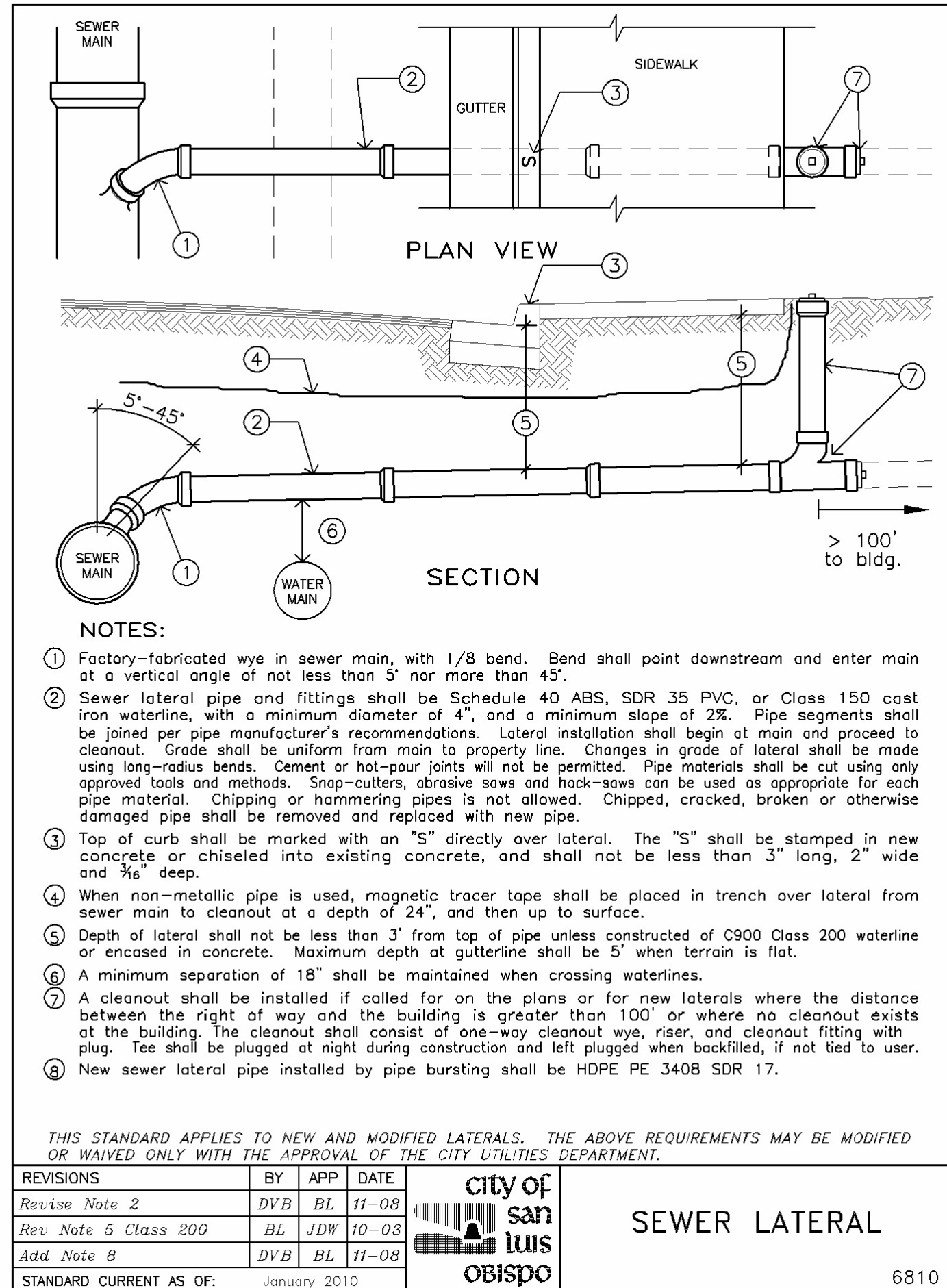
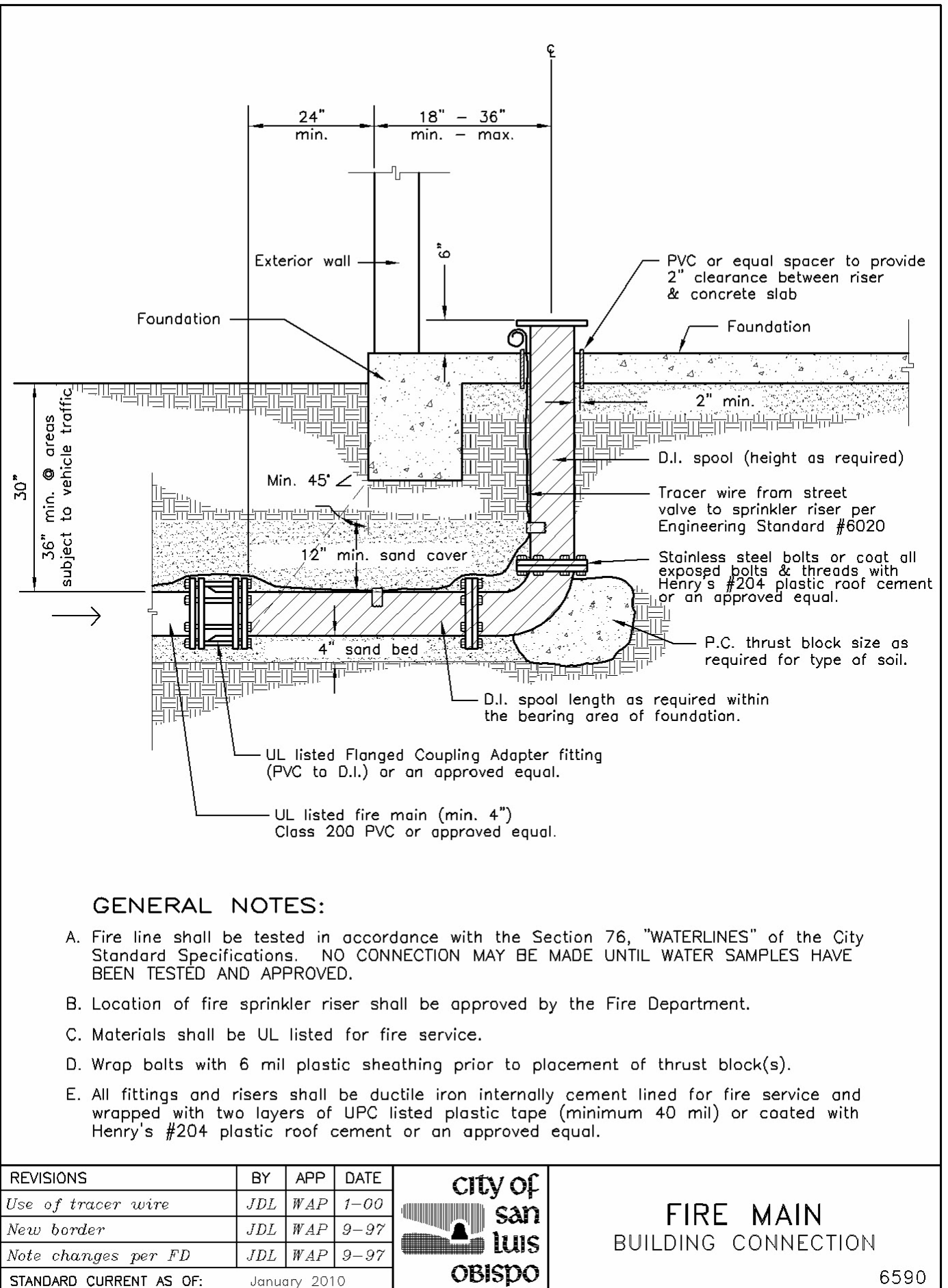
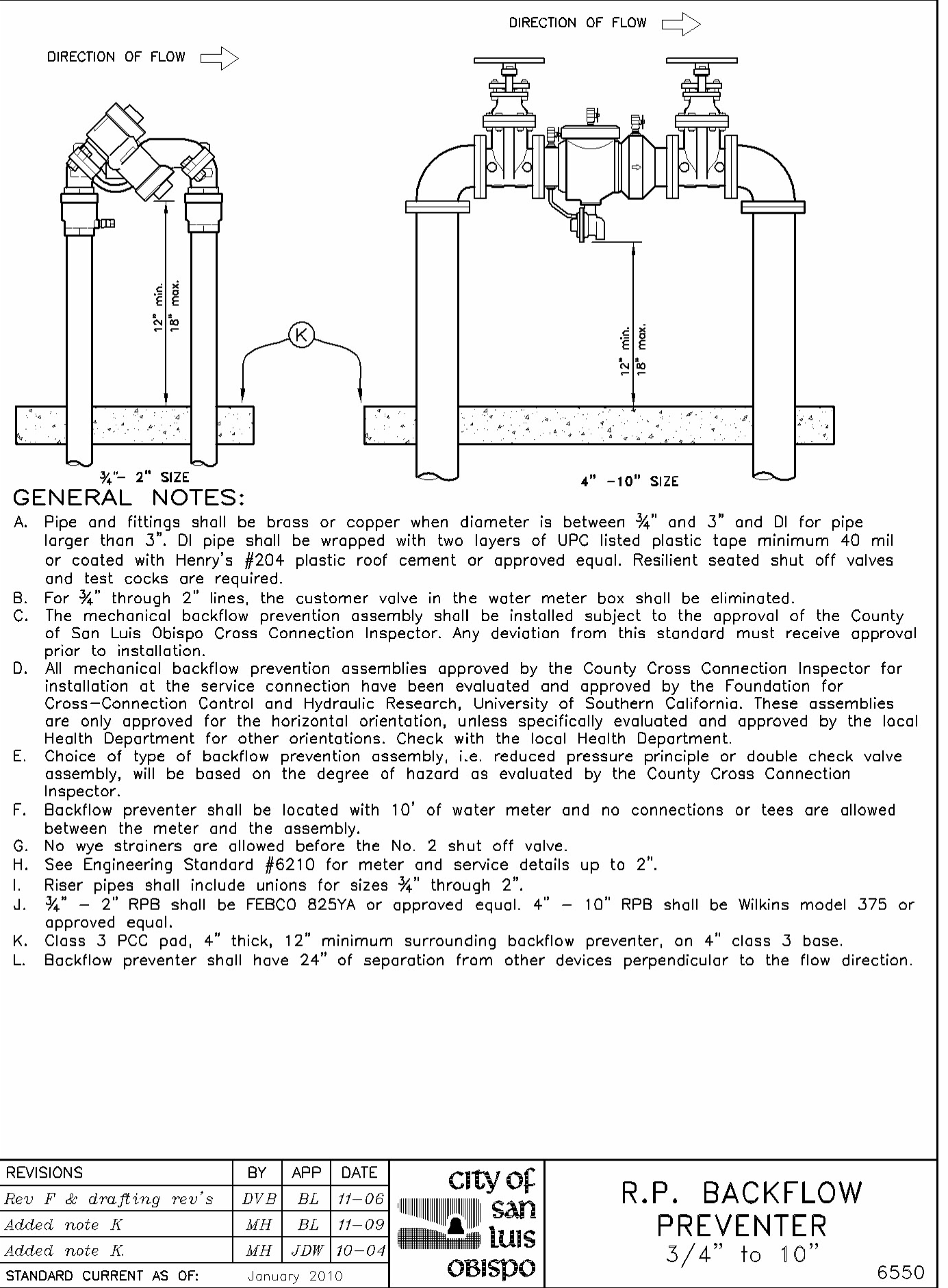
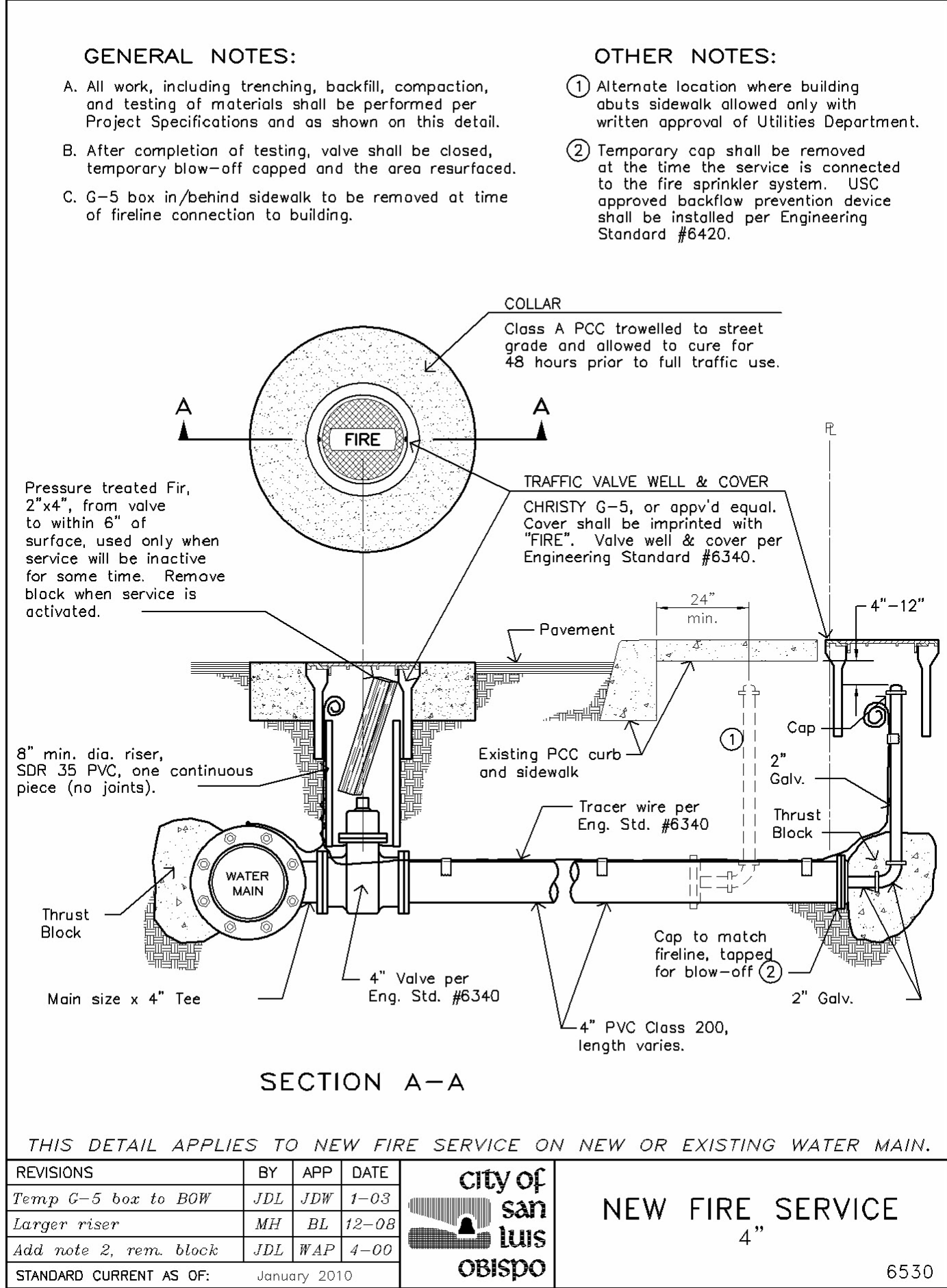
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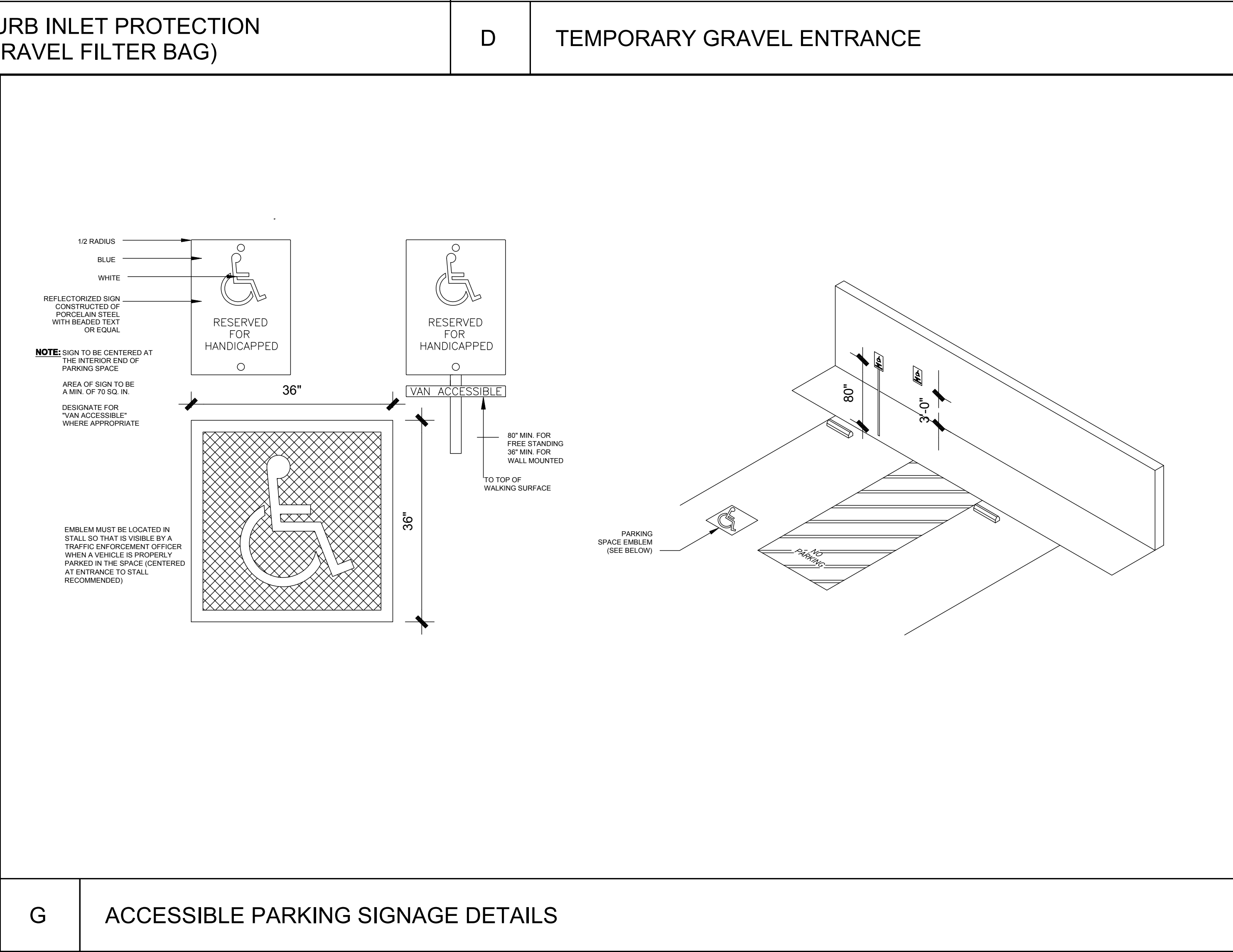
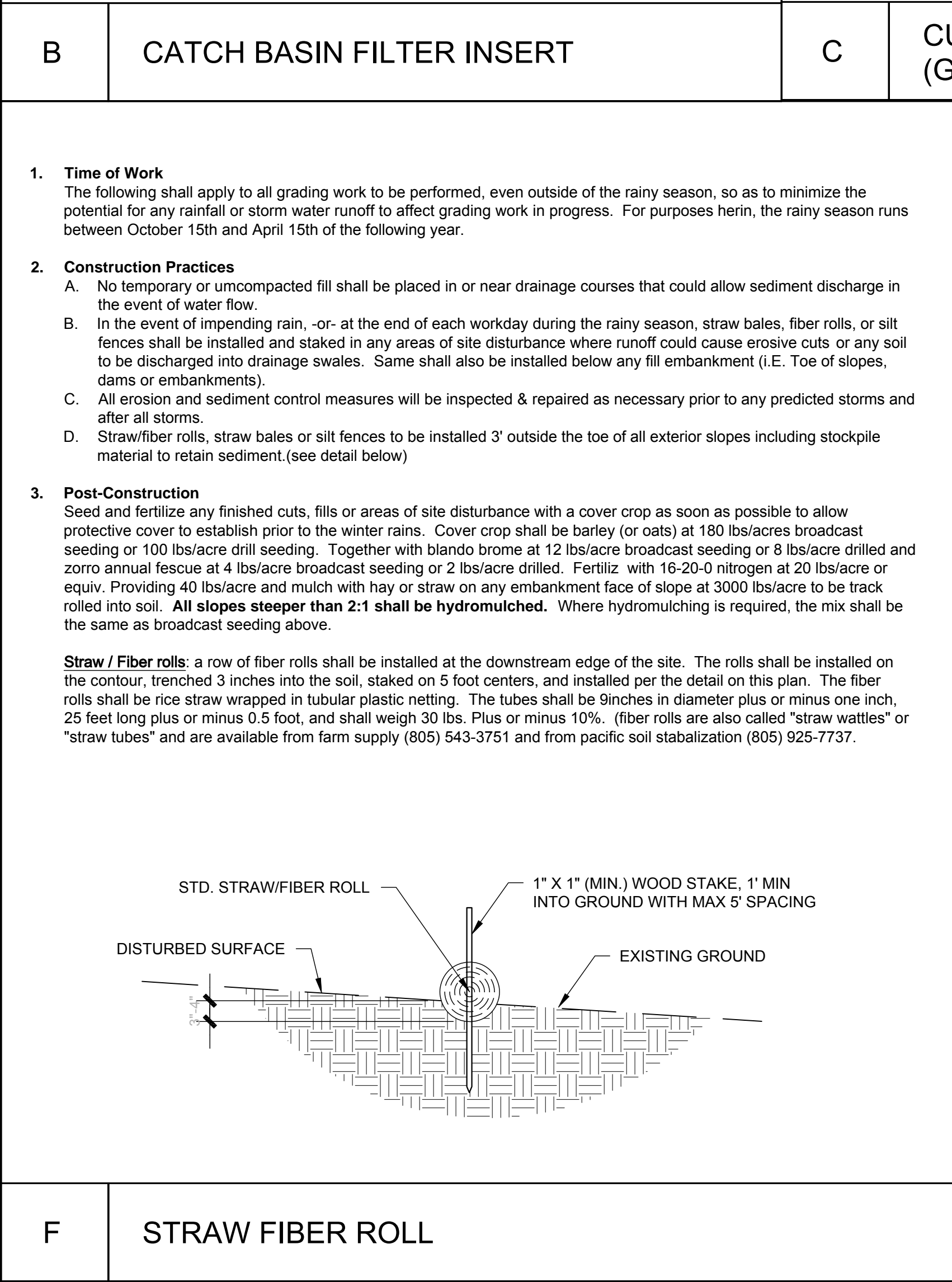
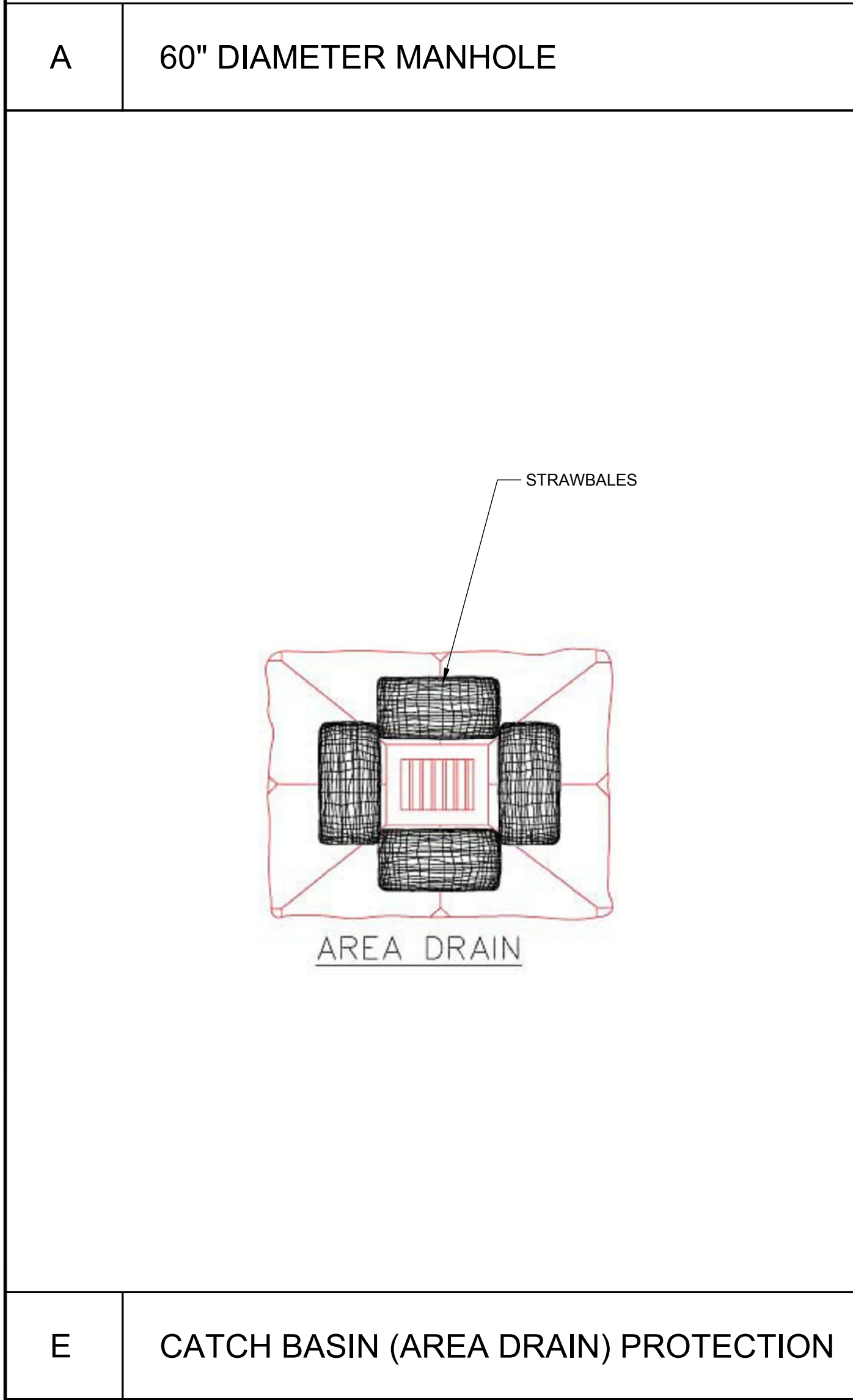
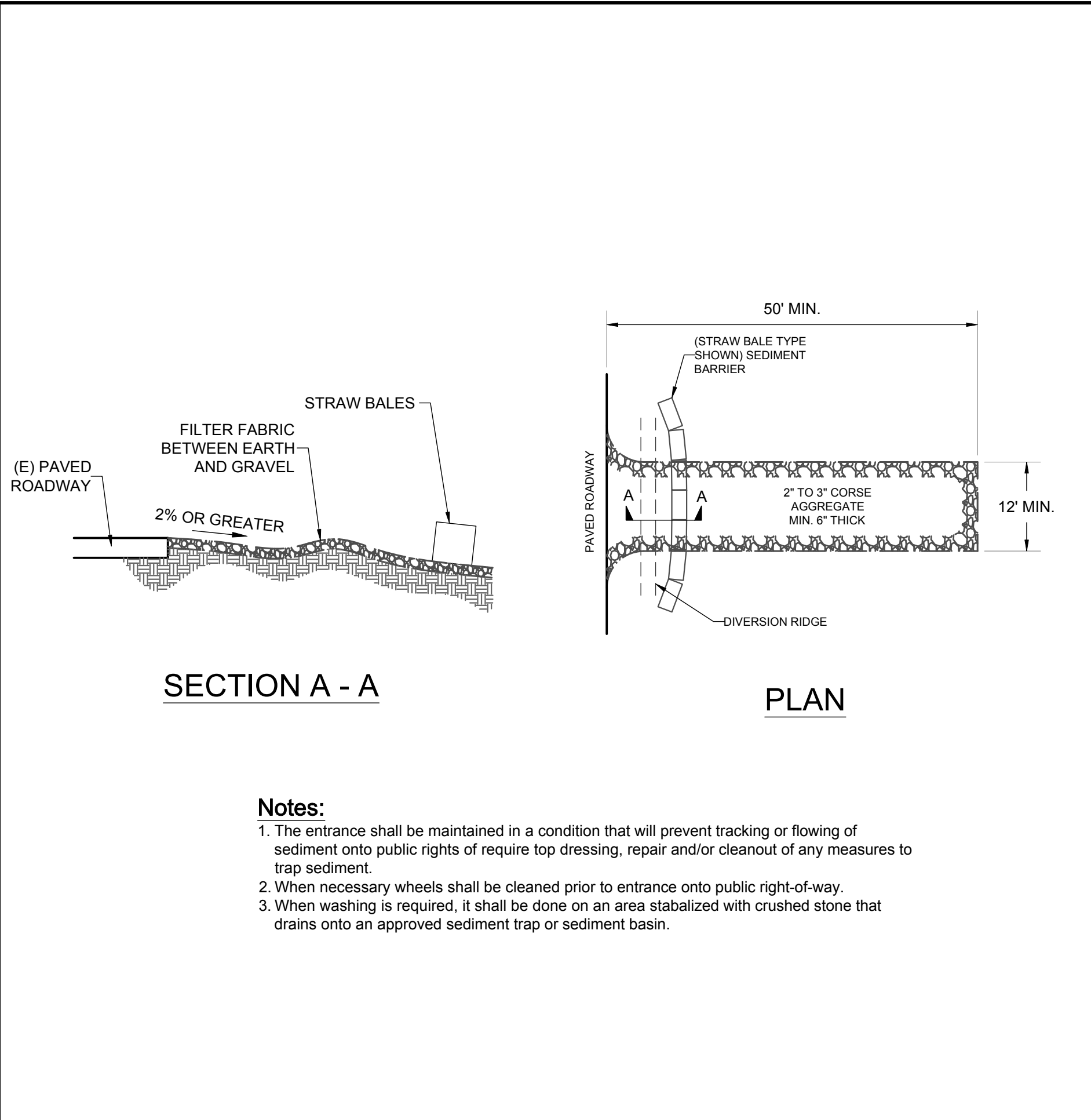
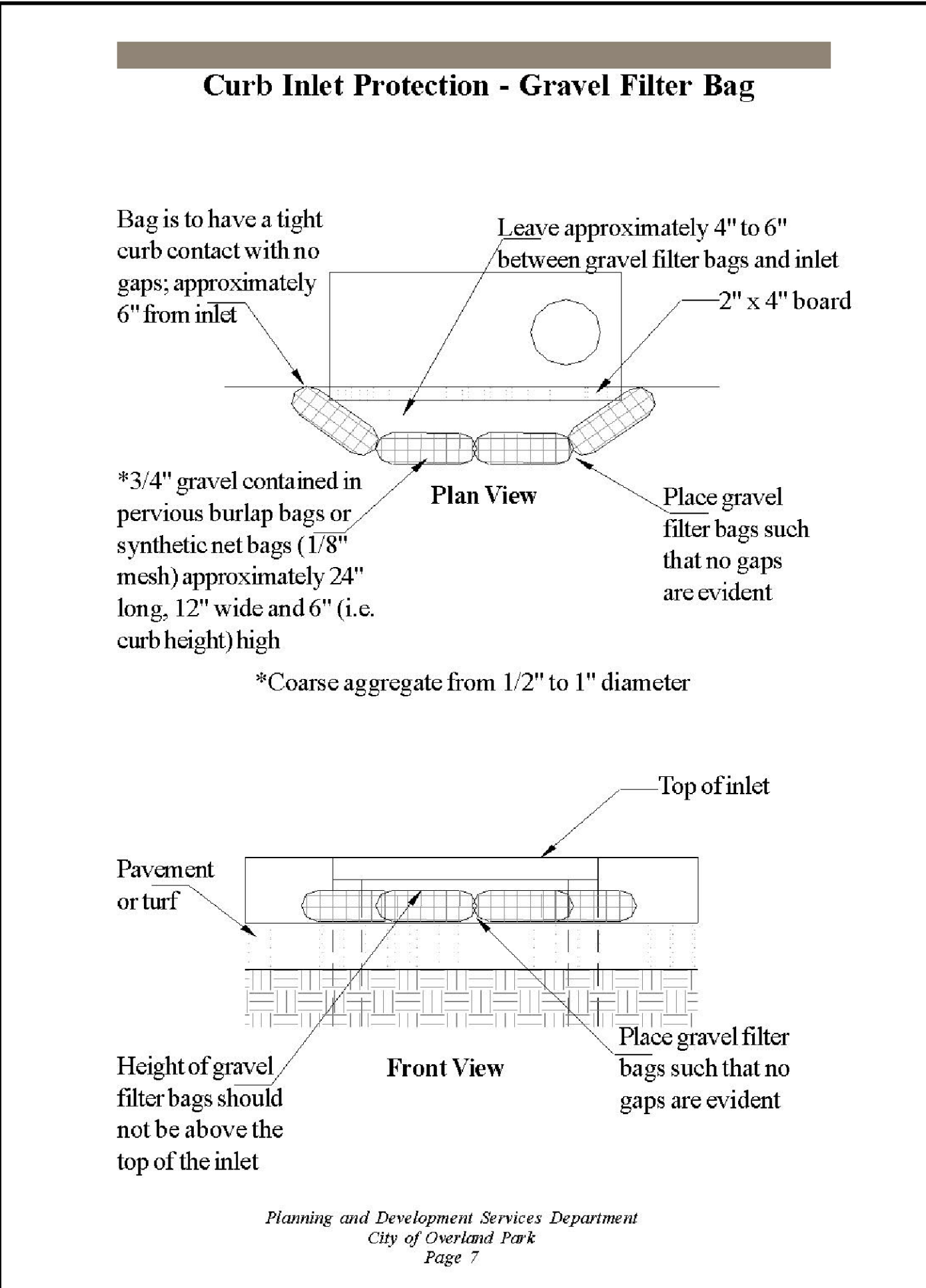
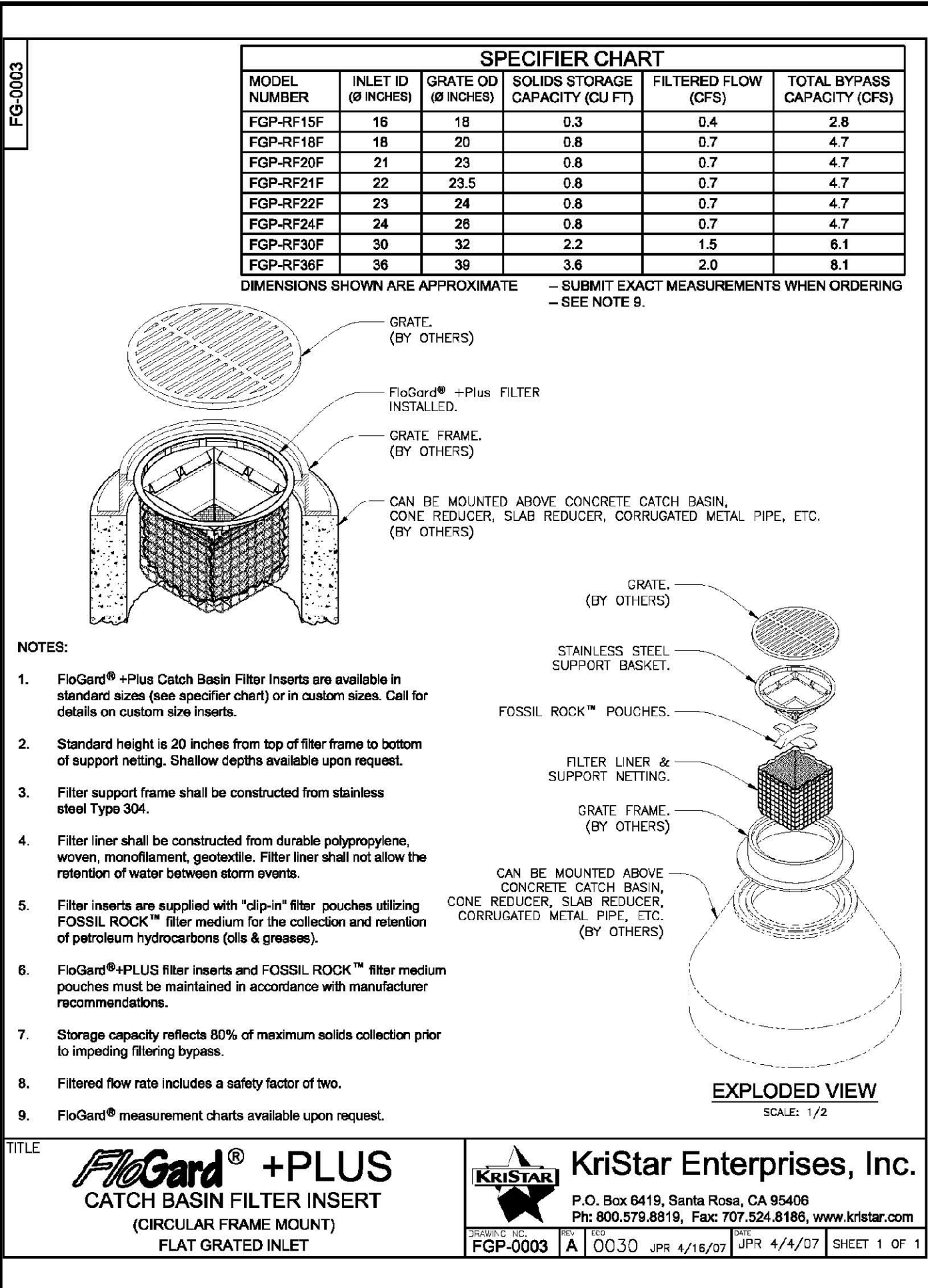
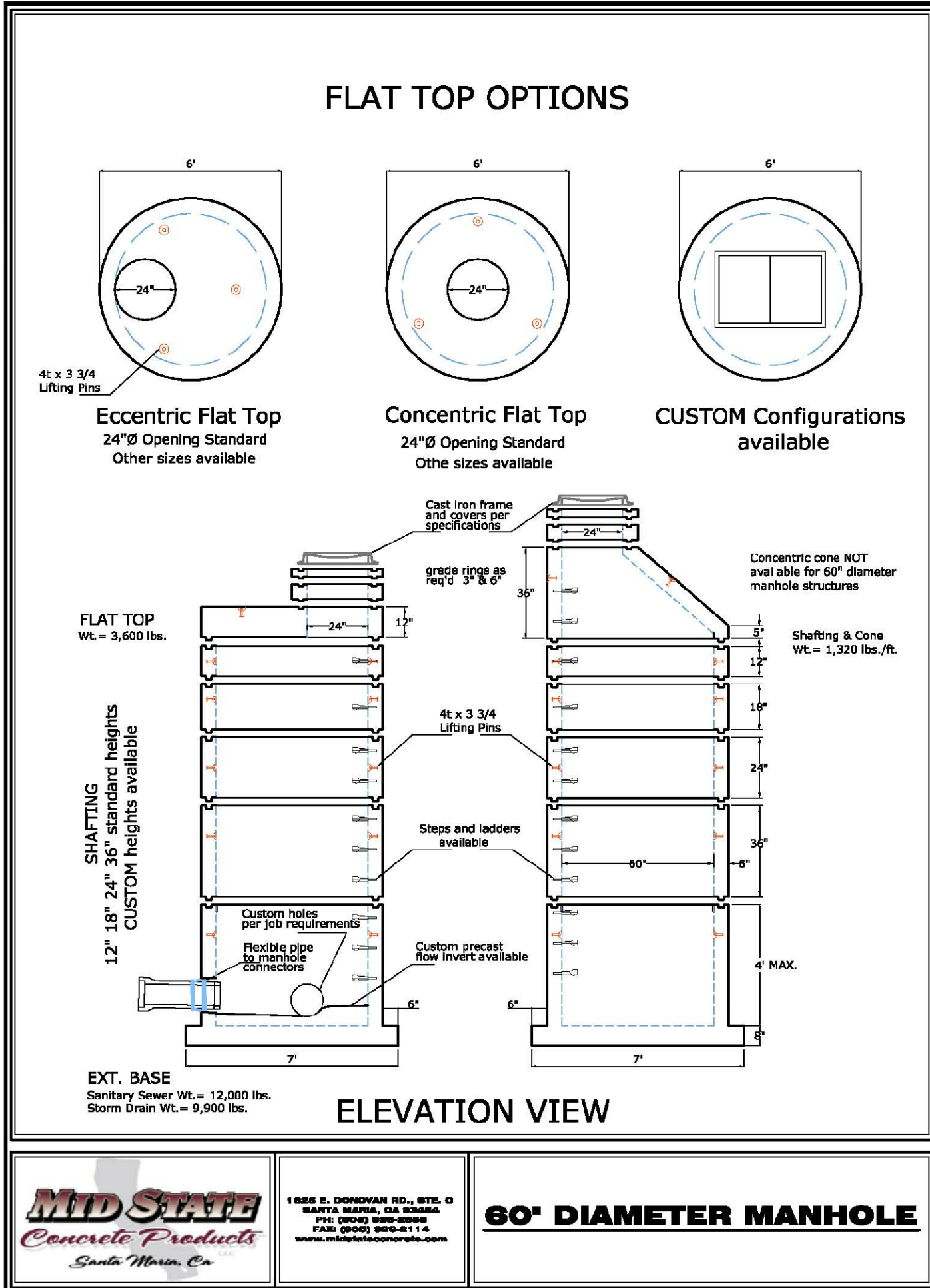


## 60



## 20





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Drafting & Design

610 10th Street, Suite D Pavo Robles, CA 93446 805.610.9545 (office) 805.237.0480 (fax) www.medesigns.us

REGISTERED PROFESSIONAL ENGINEER  
70724  
Exp. 06-30-11  
CIVIL  
STATE OF CALIFORNIA

PLAN PREPARED FOR:

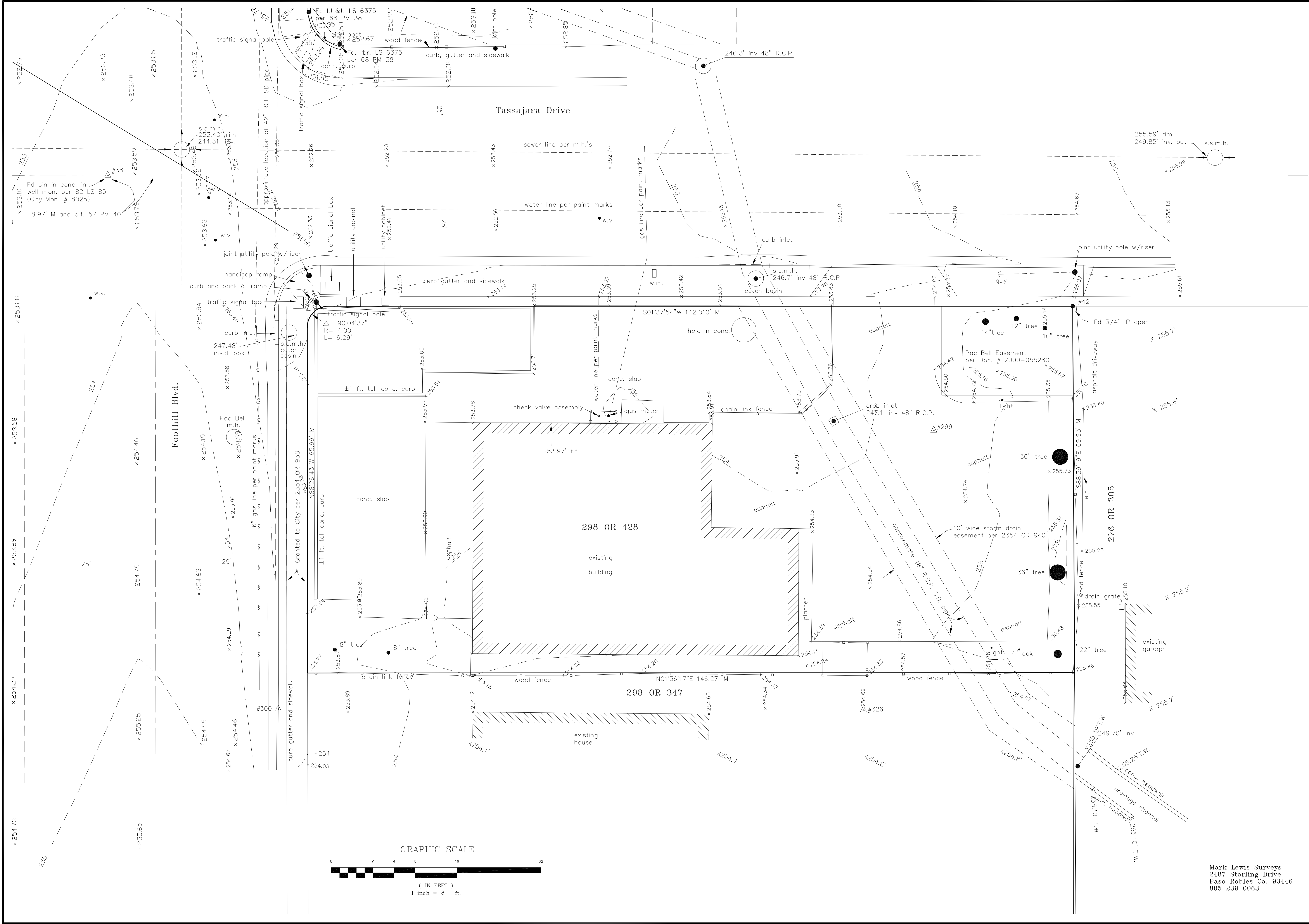
MR. DAVID LOPEZ  
399 FOOTHILL BLVD.  
SAN LUIS OBISPO, CA 93401

Architectural Design by:  
PARAGON  
DESIGN ARCHITECTS  
Thomas G. Brejkovich  
Architect

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Topographic Survey

Ptn. Lot 4, Tract 11 (5 MB 30)

City of San Luis Obispo, California

Mark Lewis Surveys  
2487 Starling Drive  
Paso Robles Ca. 93446  
805 239 0063

SHEET

1

OF 1 SHEET(S)

Mark Lewis L.S. 6631

Exp. 12-31-2007

DATE SIGNED

LICENSED LAND SURVEYOR

Mark A. Lewis

No. 6631

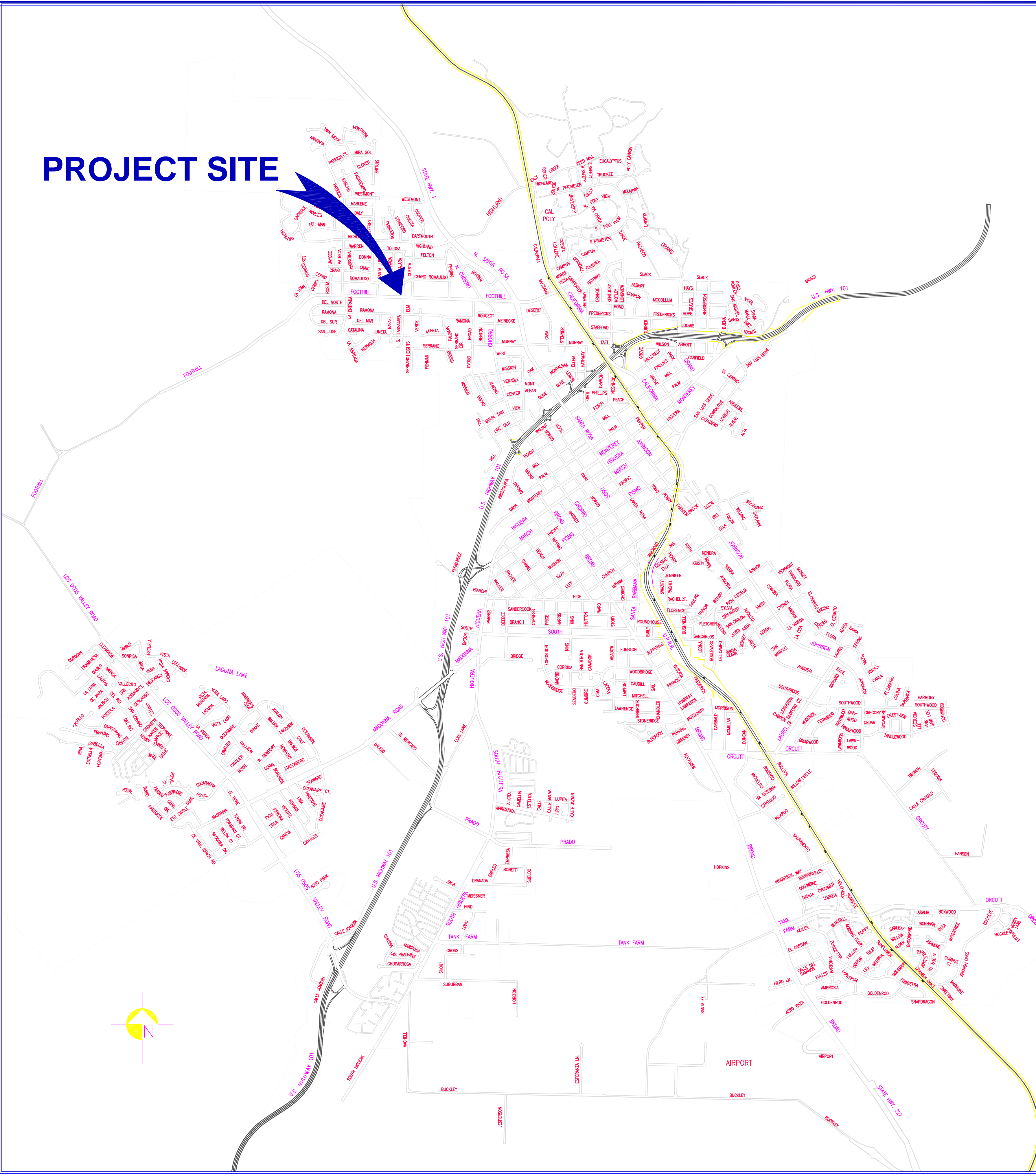
Exp. 12/31/11

STATE OF CALIFORNIA

general notes

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR PERMITEE TO CONTACT " UNERGROUND SERVICE ALERT U.S.A." TOLL FREE AT 811 (48) HOURS PRIOR TO START OF CONSTRUCTION, FOR LOCATION OF POWER, TELEPHONE, OIL AND NATURAL GAS UNDERGROUND FACILITIES. THE CONTRACTOR OR PERMITEE SHALL ALSO CONTACT THE APPROPRIATE AGENCY FOR THE LOCATION OF CABLE T.V., WATER, SEWER, DRAINAGE OR UNDERGROUND FACILITIES.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF UNDERGROUND AND ABOVE GROUND FACILITIES , PUBLIC OR PRIVATE, AND TO PROTECT THEM FROM DAMAGE.
3. CONTRACTOR SHALL VERIFY DEPTH AND LOCATION OF ALL UTILITIES CROSSINGS PRIOR TO INSTALLING CONDUIT SO THAT CONDUIT ALIGNMENT AND GRADE CAN BE ADJUSTED AS NEEDED.
4. ALL EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETEY RESTORED TO THE SATISFACTION OF THE CITY ENGINEER AT THE CONTRACTOR'S SOLE EXPENSE.
5. THE CONTRACTOR SHALL POSSESS A CLASS "A" OR "C-10" LICENSE AT THE TIME OF BID OPENING.
6. PROVIDE ALL NEW ELECTRICAL CONDUCTORS UNLESS OTHERWISE INDICATED.
7. BOLD FACE PLAN ELECTRICAL SYMBOLS ARE NEW CONSTRUCTION. HALF-TONE OR THIN-LINE SYMBOLS ARE EXISTING.
8. ALL EXCAVATION EDGES SHALL BE SAW CUT.
9. NO SPLICES SHALL BE ALLOWED IN SIGNAL INTERCONNECT CONDUCTORS.
10. STRIPING LAYOUT SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER PRIOR TO INSTALLATION.
11. ALL CONFLICTING STRIPING SHALL BE REMOVED.
12. ALL EXISTING PAVEMENT SURFACES WHICH ARE TO RECEIVE THERMOPLASTIC MATERIAL AS NOTED IN THIS PLAN OR DIRECTED BY THE ENGINEER SHALL BE PREPARED IN ACCORDANCE WITH STATE OF CALIFORNIA STANDARD SPECIFICATIONS AND STANDARD PLANS DATED MAY 2006.
13. TRAFFIC STRIPES AND PAVEMENT MARKINGS NOTED FOR REMOVAL SHALL BE REMOVED IN SUCH A MANNER THAT THE EXISTING TRAFFIC STRIPES ARE NO LONGER VISIBLE TO THE SATISFACTION OF THE ENGINEER.
14. PAVEMENT SHALL BE SEALED AFTER REMOVAL OF THE EXISTING STRIPING AND PRIOR TO THE INSTALLATION OF NEW STRIPING.

PROJECT SITE



index to plans

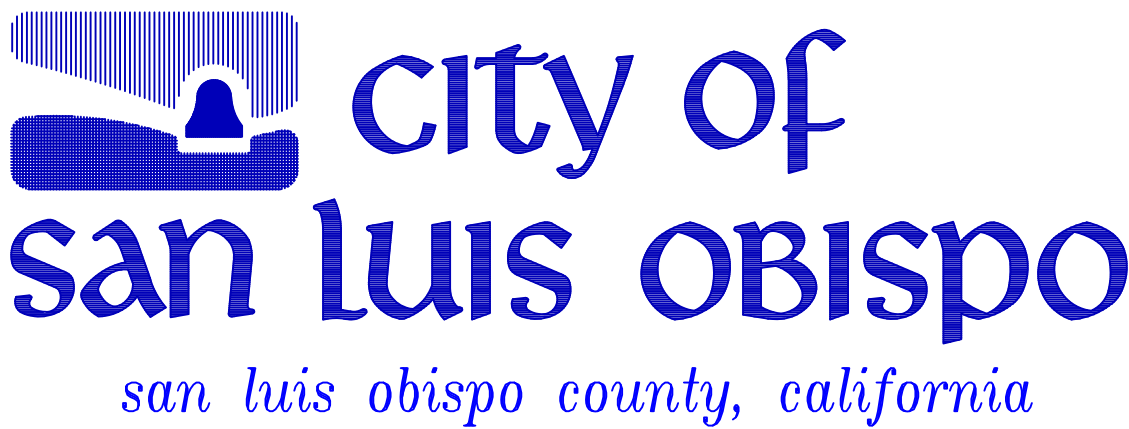
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1. COVER SHEET
2. FOOTHILL & TASSAJARA TRAFFIC SIGNAL PLAN
3. FOOTHILL & TASSAJARA TRAFFIC SIGNAL PLAN-  
BID ALTERNATE A-LEFT TURN
4. FOOTHILL BLVD-SIGNING AND STRIPING PLAN-  
BID ALTERNATE A

ATTACHMENTS:

1. ROADWAY CONSTRUCTION PLAN FOR 399 PRIVATE  
DEVELOPMENT
2. PG&E UTILITY POLE RELOCATION PLAN

Reference Documents:  
City Standard Specifications – January 2010 Edition  
City Engineering Standards – January 2010 Edition



TRAFFIC SIGNAL MODIFICATION  
FOOTHILL & TASSAJARA

CITY SPECIFICATION # 90854

APPROVED BY

Barbara Lynch  
City Engineer

R.C.E. C53418



DATE	7/30/10
FILE NO./LOCATION	
SHEET	1 of 4



	STANDARD			VEHICLE SIGNAL MAST		PED. SIGNAL MOUNTING	PPB		HPS LUM.	R. S. N. S.
	TYPE	SIGNAL MAST ARM	LUMINAIRE MAST ARM	MAST	POLE		Ø	ARROW		
A	1A (10')				TV-2-T	SP-1-T	4	→		
B	244-100	35'	15'	MAS	SV-1-T	SP-2-T	6	→	200W	TASSAJARA
C	1A (10') (E)				TV-3-T	SP-1-CS (E)	6	→		
D	244-100	35'	15'	MAS	SV-1-T	SP-1-T	8	→		TASSAJARA
E	17-2-100	20'	15'	MAS	SV-1-T	SP-1-T	2	→	200W	FOOTHILL
F	1A (10')				TV-1-T	SP-1-T	2	→		

ALL POLES AND SIGNALS ARE (N) UNLESS OTHERWISE INDICATED BY AN (E)

CONDUCTOR SCHEDULE													
AWG. SIZE OR CABLE TYPE	POLE OR CIRCUIT	(E)	(E)	(E)	(E)	(N)	(N)	(E)	(N)	(N)	(N)	(N)	(N)
3	POLE - (A)												
12	(B)												
	(C)												
	(D)												
	(E)												
TOTAL CABLES-3		1	2	2	2	2	2	2	2	2	2	2	2
CONDUCTOR/12 CONDUCTOR		1	2	2	2	2	2	2	2	2	2	2	2
#10	LUMINAIRE												
	SIGNAL COMMON												
TOTAL #10		1	2	2	2	2	2	2	2	2	2	2	2
#6	SIGNAL SERVICE												
	TOTAL #6												
(E)	ENCOM VIDEO CAT 5												
*	EVP												
COAXIAL-YAGI ANTENNA													
CONDUIT SIZE		1.5"	3"	3"	1.5"	1.5"	2x3"	1.5"	2"	3"	3"	3"	3"

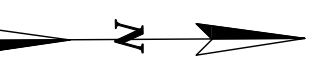
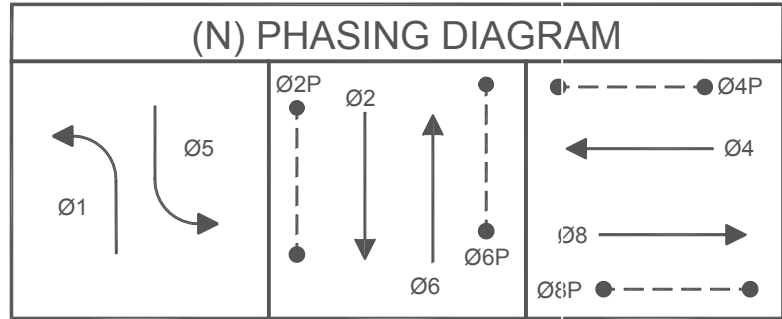
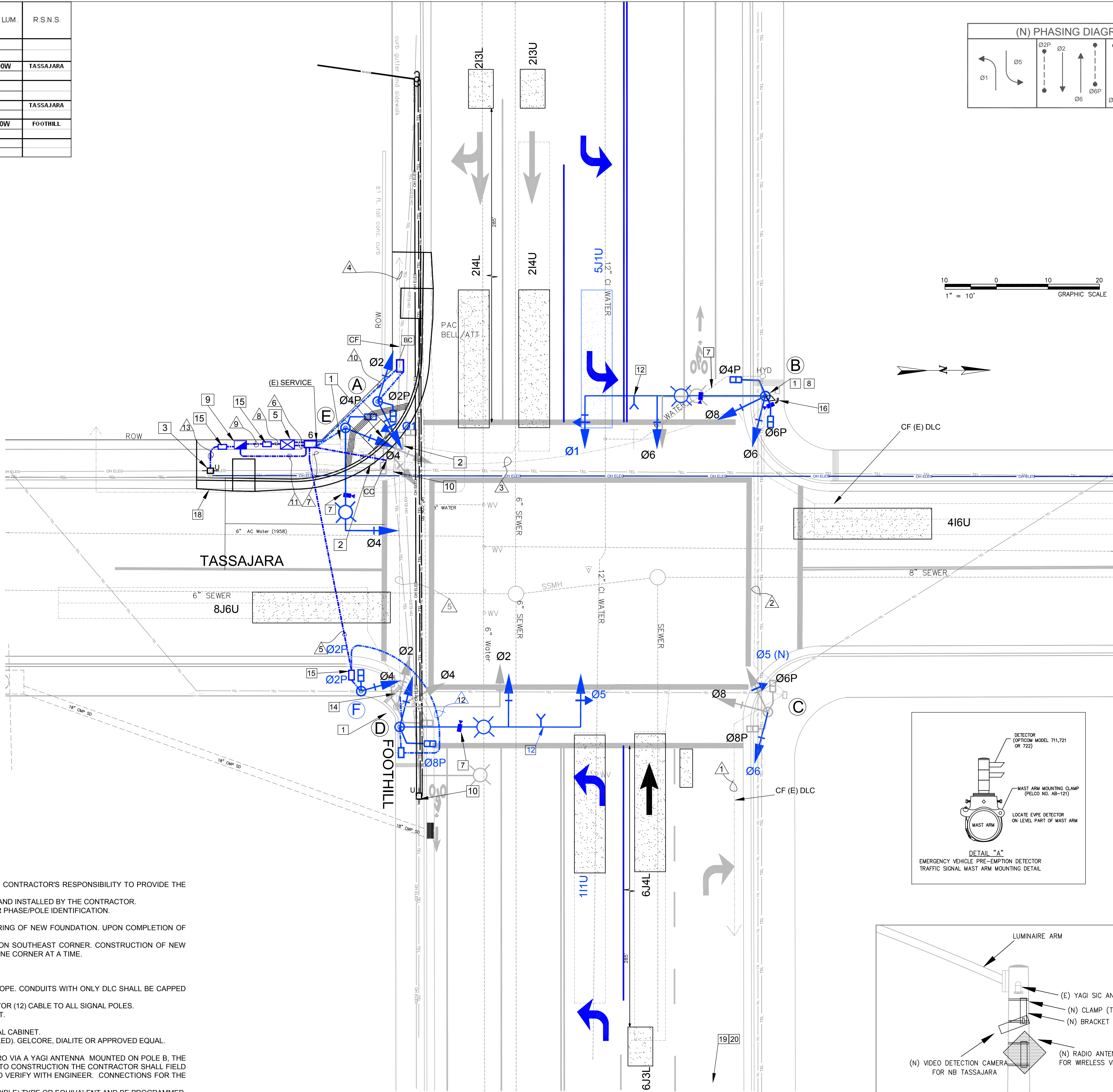
ALL CONDUITS AND CONDUCTORS ARE (N) UNLESS OTHERWISE INDICATED BY AN (E).

#### CONSTRUCTION NOTES:

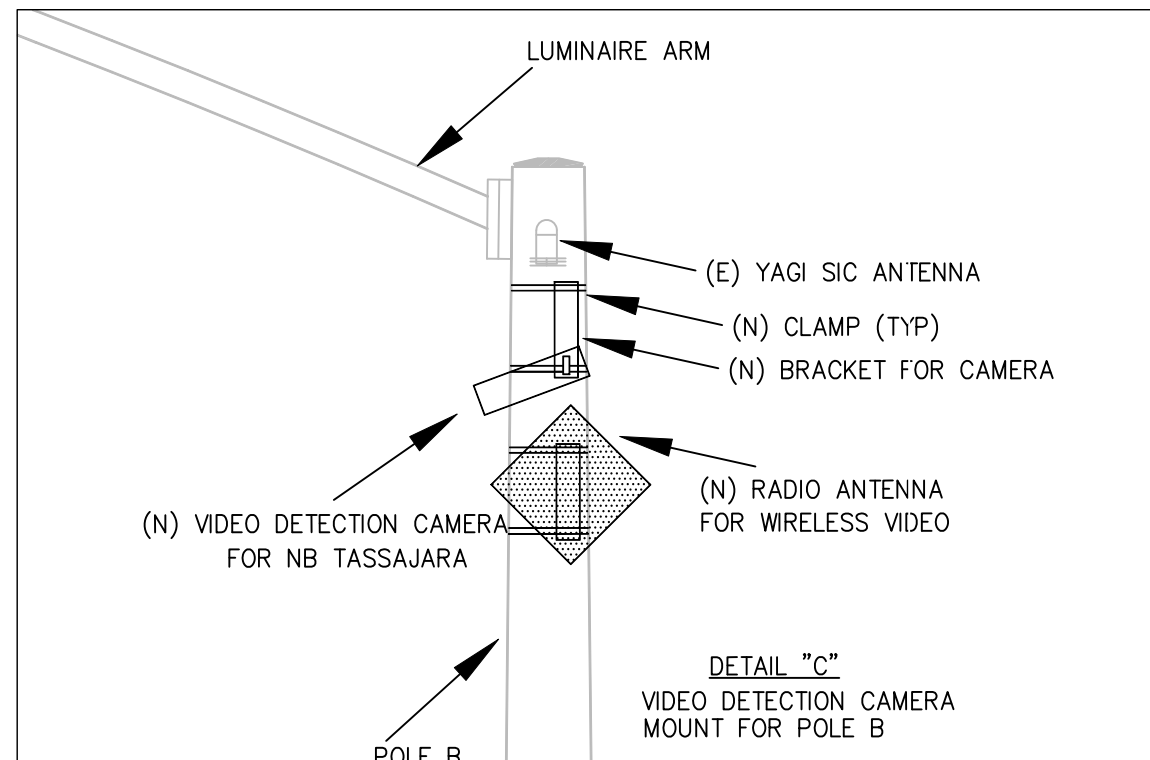
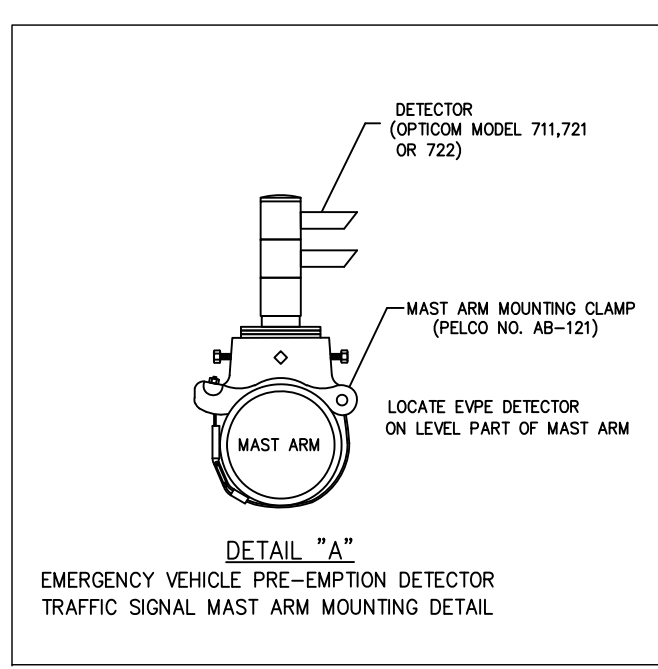
- COMPLETELY REMOVE (E) SIGNAL EQUIPMENT AND FOUNDATIONS. REMOVE AND SALVAGE (E) SIGNAL HEADS. COMPLETELY REMOVE (E) PULL BOXES, RECONSTRUCT RIGHT OF WAY PER ENG. STD. 4110.
  - (N) SERVICE POINT. CITY HAS SUBMITTED APPLICATION FOR SERVICE RELOCATION (PG&E RELOCATION PLAN ATTACHED TO THIS PLAN SET). PG&E WILL RELOCATE (E) UTILITY POLE AND INSTALL A RISER AT LOCATION SHOWN. CONTRACTOR SHALL INSTALL (N) CONDUIT FROM PG&E SERVICE POINT TO SERVICE PEDESTAL (SEE NOTE 15). CONTRACTOR SHALL COORDINATE AND SCHEDULE WORK WITH CITY AND PG&E.
  - INSTALL (N) TYPE 332 CABINET AND FOUNDATION AND ALL APPURTENANCES REQUIRED TO PROVIDE THE INTENDED OPERATIONS. TRANSFER (E) TYPE 170a CONTROLLER UNIT AND ALL (E) EQUIPMENT FROM (E) SIGNAL CABINET TO PROVIDE THE INTENDED OPERATION.
  - INSTALL COLOR ITERIS VIDEO DETECTION SYSTEM (RZ4C-SE) CAMERA OR APPROVED EQUAL ON LUMINAIRE ARM
  - INSTALL ITERIS VIDEO DETECTION SYSTEM CAMERA ON POLE B AS SHOWN IN DETAIL C.
  - INSTALL (N) SERVICE PEDESTAL UPS PER ENGINEERING STD. 7510
  - UTILITY POLE AND SERVICE TO BE RELOCATED BY PG&E AS SHOWN. (E) POLE TENANTS: PG&E, CHARTER, AT&T, AND UMAN FIBER OPTIC COMMUNICATIONS.
  - (BASE PLAN ONLY) INSTALL ITERIS VIDEO DETECTION SYSTEM CAMERA (RZ4C-SE) ON MAST ARM USING PELCO 6" ADJUSTABLE MOUNT OR APPROVED EQUAL.
  - INSTALL EMERGENCY VEHICLE PREEMPTION DETECTOR UNITS PER "DETAIL A"
  - COMPLETELY REMOVE (E) PULL BOX, RECONSTRUCT RIGHT OF WAY PER ENG. STD. 4110. INSTALL NEW CONDUIT FOR POLE D TO PULL BOX SHOWN IN NOTE #15. ABANDON, CAP AND SEAL (E) CONDUIT (E) CONDUIT FOR DLC.
  - INSTALL (N) #5 PULL BOX.
  - INSTALL (ASTRO MINI-BRAC CLAMP KIT (AB-0121)) MOUNTING HARDWARE AND CITY PROVIDED ANTENNA FOR WIRELESS VIDEO. CONNECT EXISTING CAT 5 CABLES THAT EXTEND FROM CABINET TO POLE B TO ANTENNA. ANTENNA ORIENTATION SHALL BE DETERMINED IN THE FIELD WITH THE CITY TRAFFIC ENGINEER.
  - UTILITY POLE TO BE RELOCATED BY PG&E. PG&E WILL REMOVE (E) POLE AND INSTALL (N) POLE AND WILL TEMPORARILY PATCH SIDEWALK WITH AC.
  - RIGHT OF WAY IMPROVEMENTS SHOWN IN BOLD (SIDEWALK, CURB, GUTTER AND DRAIN INLETS TO BE CONSTRUCTED AS PART OF DEVELOPMENT AT 399 FOOTHILL. DEVELOPMENT PLANS ATTACHED TO THIS PLAN SET. RIGHT OF WAY DAMAGED AS PART OF THE TRAFFIC SIGNAL CONSTRUCTION SHALL BE RECONSTRUCTED BY THE CONTRACTOR.
- FOOTHILL @ CHORRO INTERSECTION:**
- INSTALL ON MAST ARM AT SOUTHWEST CORNER: 1 ENCOM 5.8 GHZ OMNI-DIRECTIONAL ANTENNA OR EQUIVALENT TO PICK UP THE VIDEO SIGNALS FROM FOOTHILL/TASSAJARA AND FOOTHILL/CALIFORNIA. ANTENNA TO BE MOUNTED USING ASTRO MINI-BRAC CLAMP KIT (AB-0121) OR EQUIVALENT. ANTENNA ORIENTATION SHALL BE DETERMINED IN THE FIELD WITH ENGINEER.
  - INSTALL CAT-5 GARRETTOM ETHERNET EDGE SWITCH (ES42P-P4) OR APPROVED EQUAL IN SIGNAL CABINET AT THE INTERSECTION OF FOOTHILL/CHORRO. CONNECT ANTENNA(S) (SEE NOTE 18) TO CAT-5 EDGE SWITCH USING CAT-5 CABLE PROVIDED WITH ANTENNA. COORDINATE WORK WITH CITY SIGNAL TECHNICIAN, KEVIN NILES.

#### GENERAL NOTES:

- THE CONDUCTOR SCHEDULE IS PROVIDED AS AN INSTALLATION GUIDELINE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE APPROPRIATE NUMBER OF CONDUCTORS REQUIRED FOR THE INTENDED OPERATION.
- ALL MATERIALS AND EQUIPMENT NECESSARY FOR THE INTENDED OPERATION SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- ALL WIRING SHALL BE MARKED (TAGGED) WITHIN THE CONTROLLER CABINET AND ALL PULL BOXES FOR PHASE/POLE IDENTIFICATION.
- NEW PULL BOXES SHALL NOT BE INSTALLED IN SIDEWALK RAMP.
- SETUP CONTRACTOR FURNISHED TEMPORARY 1A POLES & EQUIPMENT DURING REMOVAL AND CURING OF NEW FOUNDATION. UPON COMPLETION OF CONTRACT, CONTRACTOR SHALL DELIVER TO CITY CORPORATION YARD AT 25 PRADO ROAD.
- (BID ALT. A ONLY) NEW POLES D AND F SHALL BE OPERATIONAL PRIOR TO REMOVAL OF (E) POLE ON SOUTHEAST CORNER. CONSTRUCTION OF NEW FOUNDATIONS AND EQUIPMENT AND THE USE OF TEMPORARY OF POLES SHALL BE RESTRICTED TO ONE CORNER AT A TIME.
- ALL SALVAGED MATERIAL SHALL BE DELIVERED TO CITY CORPORATION YARD AT 25 PRADO ROAD.
- CONTRACTOR SHALL PROVIDE 5 WORKING DAYS NOTICE TO THE ENGINEER PRIOR TO TURN ON.
- EXTEND CONDUITS TO NEW PULL BOX LOCATION AS NEEDED.
- DLC CONDUITS ARE TO BE ABANDONED IN PLACE, REMOVE DLC CONDUCTORS AND INSTALL PULL ROPE. CONDUITS WITH ONLY DLC SHALL BE CAPPED AND SEALED.
- REMOVE (E) CONDUCTORS FOR SIGNAL INDICATIONS AND ACTIVATION. INSTALL NEW MULTICONDUCTOR (12) CABLE TO ALL SIGNAL POLES.
- VIDEO DETECTION SYSTEM SHALL INCLUDE AN ITERIS 10" RACK MOUNT LCD MONITOR OR EQUIVALENT.
- COAXIAL CABLE FOR VIDEO DETECTION CAMERA SHALL NOT BE SPLICED.
- CAMERA POWER WIRES SHALL BE "SOI" 18/3 TO HAND HOLE ON POLE, DLC FROM HAND HOLE TO SIGNAL CABINET.
- ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL BE HARD-WIRED LIGHT EMITTING DIODE (LED), GELCORE, DIALITE OR APPROVED EQUAL.
- ALL (N) VEHICLE INDICATION SHALL BE 12".
- TRAFFIC SIGNAL COMMUNICATIONS ARE SENT WIRELESSLY TO THE INTERSECTION FOOTHILL/CHORRO VIA A YAGI ANTENNA MOUNTED ON POLE B. THE YAGI ANTENNA IS CONNECTED TO THE SIGNAL CONTROLLER BY AN LMR-400 COAXIAL CABLE. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING ANTENNA CABLE ROUTING FROM POLE B TO (E) TRAFFIC SIGNAL CABINET AND VERIFY WITH ENGINEER. CONNECTIONS FOR THE ANTENNA IN (E) CABINET SHALL BE DUPLICATED IN (N) CABINET.
- ALL (E) PEDESTRIAN PUSH BUTTONS SHALL BE REPLACED WITH (N) POLARA NAVIGATOR (TACTILE/AUDIBLE) TYPE OR EQUIVALENT AND BE PROGRAMMED WITH LOCATION SPECIFIC AUDIBLE MESSAGES.
- REMOVE ANY CONFLICTING STRIPING.
- BOLD FACE LINES FOR OVERHEAD ELECTRIC AND TELEPHONE/CABLE ARE SHOWN ON PLANS FOR REFERENCE AS "OH ELEC" OR "TEL" HAVE BEEN OR WILL BE INSTALLED BY PG&E.



10 0 10 20  
1" = 10' GRAPHIC SCALE



Approved:

city of  
san luis obispo

PROJECT TITLE:  
TRAFFIC SIGNAL MODIFICATION

SHEET TITLE:

FOOTHILL & TASSAJARA TRAFFIC SIGNAL PLAN  
BID ALTERNATE A - LEFT TURN

DESIGNED BY:

CO

DRAWN BY:

CO

CHECKED BY:

JH, KN, MH, MW, BL

APPROVED BY:

BL

DATE:

7/19/10

CITY SPECIFICATION NO.

90854

SHEET NO.

3 OF 4

