

## General Construction Specifications

1. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS AND/OR GEOTECHNICAL REPORT PREPARED BY BAGG ENGINEERS AND DATED OCTOBER 10, 2018 THE COUNTY IS SUPPLEMENTED BY SUPPLEMENTAL REPORTS FROM BAGG ENGINEERS DATED 11/1/2018 AND 11/1/2019 AND SPECIFICATIONS, 2) THE COUNTY OF SANTA CLARA STANDARD DETAILS, 3) THE COUNTY OF SANTA CLARA STANDARD SPECS, 4) STATE OF CALIFORNIA STANDARD DETAILS, 5) STATE OF CALIFORNIA STANDARD SPECIFICATIONS. IN THE EVENT OF CONFLICT THE FORMER SHALL TAKE PRECEDENCE OVER THE LATER. THE PERFORMANCE AND COMPLETION OF ALL WORK MUST BE TO THE SATISFACTION OF THE COUNTY.
2. DEVELOPER IS RESPONSIBLE FOR INSTALLATION OF THE IMPROVEMENTS SHOWN ON THESE PLANS AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THEIR CARE FOR THEIR LIFETIME.
3. DEVELOPER SHALL BE RESPONSIBLE FOR CORRECTION OF ANY ERRORS OR OMISSIONS IN THESE PLANS. THE COUNTY SHALL BE AUTHORIZED TO REQUIRE DISCONTINUANCE OF ANY WORK AND SUCH CORRECTION AND MODIFICATION OF PLANS MAY BE NECESSARY TO COMPLY WITH COUNTY STANDARDS OR CONDITIONS OF DEVELOPMENT APPROVAL.
4. DEVELOPER SHALL OBTAIN ENCROACHMENT PERMITS AS REQUIRED FROM THE SANTA CLARA VALLEY WATER DISTRICT AND CALIFORNIA DEPARTMENT OF TRANSPORTATION AND HIGHWAYS. THE PERMITS SHALL BE KEPT AT THE JOB SITE FOR REVIEW BY THE COUNTY'S INSPECTOR.
5. DEVELOPER SHALL REMOVE OR TRIM ALL TREES TO PROVIDE AN UNOBSTRUCTED FIFTEEN (15) FOOT VERTICAL CLEARANCE FOR ROADWAY AREA. TREES WITH TRUNK DIAMETERS GREATER THAN 12 INCHES MEASURED 4.5 FEET ABOVE THE GROUND THAT ARE SHOWN TO BE REMOVED UNLESS AN AMENDED PLAN IS APPROVED OR A SEPARATE TREE REMOVAL PERMIT IS OBTAINED FROM THE PLANNING AND PUBLIC WORKS OFFICE. THE COUNTY HAS THE AUTHORITY TO ENSURE THAT REMOVAL OF ADDITIONAL TREES HAS BEEN PERMITTED.
7. DEVELOPER SHALL PROVIDE ADEQUATE DUST CONTROL AS REQUIRED BY THE COUNTY INSPECTOR.
8. ALL WORKS SHALL COMPLY WITH SECTION 4442 OF THE PUBLIC RESOURCES CODE AND SECTION 13005 OF THE HEALTH AND SAFETY CODE RELATING TO THE USE OF SPARK ARRESTERS.
9. UPON DISCOVERING OR UNEARTHING ANY BURIAL SITE AS EVIDENCED BY HUMANLY MADE REMAINS OR ARTIFACTS, THE PERSON MAKING SUCH DISCOVERY SHALL IMMEDIATELY NOTIFY THE COUNTY CORONER AT (408) 454-2520 AND LAND DEVELOPMENT ENGINEERING OFFICE AT (408) 299-5730. NO FURTHER DISTURBANCE OF THE SITE MAY BE MADE EXCEPT AS AUTHORIZED BY THE USE OF THE LAND IN ACCORDANCE WITH THE PROVISIONS OF THIS ORDINANCE (COUNTY ORDINANCE CODE SECTION BE-18).
10. THESE PLANS ARE FOR THE WORK DESCRIBED IN THE SCOPE OF WORK ONLY. A SEPARATE PERMIT WILL BE REQUIRED FOR THE SEPTIC LINE CONSTRUCTION (SEE SEPTIC LINES BE SHOWN ON PLAN).
11. ANY AMENDMENT FROM THE APPROVED PLANS SHALL BE RE-APPROVED IN WRITING BY THE COUNTY ENGINEER PRIOR TO CONSTRUCTION.

1. THE DEVELOPER'S ENGINEER IS RESPONSIBLE FOR THE INITIAL PLACEMENT AND REPLACEMENT OF CONSTRUCTION GRADE STAKES. THE STAKES ARE TO BE ADEQUATELY IDENTIFIED, LOCATED, STABILIZED, ETC. FOR THE CONVENIENCE OF THE CONTRACTORS. LATERAL STAKES SHALL BE SET OUTSIDE THE DITCH AND GUTTERS SHALL NOT EXCEED 2 1/2 FEET FROM BACK OF CURB.
2. ANY PROPERTY LINE STAKES OR ROAD MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY DEVELOPER'S ENGINEER AND LICENSED LAND SURVEYOR.
3. LINE STAKING MUST BE PERFORMED BY THE PROJECT ENGINEER OR LAND SURVEYOR TO ESTABLISH OR RE-ESTABLISH THE PROJECT BOUNDARY AND SHALL BE INSPECTED BY THE COUNTY INSPECTOR PRIOR TO THE BEGINNING OF THE WORK.
4. PROPER CONSTRUCTION STAKES SHALL BE SET IN THE FIELD BY THE PROJECT ENGINEER OR LAND SURVEYOR AND VERIFIED BY THE COUNTY INSPECTOR PRIOR TO THE COMMENCEMENT OF GRADING.

1. CONTRACTOR SHALL NOTIFY PERMIT INSPECTION UNIT, SANTA CLARA COUNTY PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE.

2. CONTRACTOR SHALL PROVIDE A MINIMUM 48 HOURS NOTICE FOR INSPECTION.

3. GENERAL INSPECTION, 48 HOURS FOR ASPHALT CONCRETE, 72 HOURS FOR CONCRETE.

4. INSPECTION BY SANTA CLARA COUNTY SHALL BE LIMITED TO INSPECTION OF MATERIALS AND PROCESSES OF CONSTRUCTION TO OBSERVE THEIR COMPLIANCE WITH PLANS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPERINTENDENT OF CONSTRUCTION, SITE CONDITIONS, EQUIPMENT OR PERSONNEL. CONTRACTOR SHALL NOTIFY THE COUNTY LAND DEVELOPMENT INSPECTOR AT PHONE (408) 299-8868 AT LEAST 24 HOURS PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE.

5. DEVELOPER AND/OR HIS AUTHORIZED REPRESENTATIVE MUST SUBMIT WRITTEN REQUEST FOR FINAL INSPECTION OF THE PROJECT. REQUEST SHALL BE DIRECTED TO THE INSPECTION OFFICE NOTED ON THE PERMIT FORM.

6. THE CONTRACTOR SHALL PROVIDE TO THE COUNTY CONSTRUCTION INSPECTOR WITH PAD ELEVATION AND LOCATION CERTIFICATES, PREPARED BY THE PROJECT ENGINEER OR LAND SURVEYOR, PRIOR TO COMMENCEMENT OF THE BUILDING FOUNDATION.

1. EXISTING TREES AUTHORIZED FOR REMOVAL, ROOTS, AND FOREIGN MATERIAL IN AREAS TO BE IMPROVED WILL BE REMOVED TO AN AUTHORIZED DISPOSAL SITE AS FOLLOWS:
  - A) TO A MINIMUM DEPTH OF TWO FEET BELOW THE FINISHED GRADE OF PROPOSED ROADWAYS (EITHER PRIVATE OR TO BE DEDICATED TO PUBLIC USE)
  - B) FROM AREAS AFFECTED BY THE PROPOSED GRADING EXCEPT WHERE NOTED ON THE PLANS.
2. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO MOVE OR RELOCATE UTILITY POLES AND OTHER OBSTRUCTIONS IN THE WAY OF CONSTRUCTION.

1. CONTRACTOR SHALL NOTIFY USA (UNDERGROUND SERVICE ALERT) AT 1-800-277-2600 A MINIMUM OF 24 HOURS BEFORE BEGINNING UNDERGROUND WORK FOR VERIFICATION OF THE LOCATION OF UNDERGROUND UTILITIES.
2. ACCURATE VERIFICATION AS TO SIZE, LOCATION, AND DEPTH OF EXISTING UNDERGROUND CONDUITS OR FACILITIES SHALL BE THE INDIVIDUAL CONTRACTORS RESPONSIBILITY. PLAN LOCATIONS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.
3. ALL UNDERGROUND INSTALLATIONS SHALL BE IN PLACE AND THE TRENCH BACKFILLED AND COMPACTED BEFORE PLACING AGGREGATE BASE MATERIAL OR SURFACE STRUCTURES. THE TRENCH BACKFILL SHALL BE 100% UTILITY COMPANIES CONCERNED INDICATED BY LETTER THAT IT WILL BORE. UTILITY SPECIFICALLY AUTHORIZED BY THE COUNTY, GAS AND WATER MAINS SHALL BE INSTALLED OUTSIDE THE PAVED AREAS.
4. TRENCH BACKFILL EXISTING PAVEMENT AREAS SHALL BE SAND MATERIAL IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE SPECIFICATIONS. THE STRUCTURAL SECTION FOR TRENCH REPLACEMENT SHALL CONSIST OF NOT LESS THAN 12 INCHES OF APPROVED AGGREGATE BASE COMPACTED TO 95% AND 4 INCHES OF HOT ASPHALT CONCRETE PLACED IN TWO LIFTS. TRENCH RESTORATION FOR HIGH TYPE PAVEMENTS SHALL BE MADE IN KIND OR AS SURVEYED BY THE COUNTY.
5. TRENCH BACKFILL IN NEW CONSTRUCTION AREAS SHALL BE SAND MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 90%. THE REQUIREMENT FOR SELECT MATERIAL MAY BE WAIVED BY COUNTY IF THE MATERIAL IS SUITABLE FOR THE TRENCH BACKFILL BUT THE COMPACTION REQUIREMENTS WILL NOT BE THEREBY WAIVED.
6. BACKFILL AND TRENCH RESTORATION REQUIREMENTS SHALL APPLY AS MINIMUM STANDARDS TO ALL UNDERGROUND FACILITIES INSTALLED BY OTHER CONTRACTORS.

1. REINFORCED CONCRETE AND CONCRETE MASONRY UNIT RETAINING WALLS SHALL HAVE FOUNDATION AND REINFORCEMENT INSPECTED BY THE COUNTY ENGINEERING INSPECTOR AND ENGINEER OF RECORD PRIOR TO POURING THE FOUNDATION AND FORMING THE WALL.
2. SEGMENTAL BLOCK RETAINING WALLS SHALL HAVE FOUNDATION AND REINFORCEMENT INSPECTED BY THE COUNTY ENGINEERING INSPECTOR.

1. WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY.
2. COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR EQUIPMENT. TRUCKS OR EQUIPMENT SHALL BE COVERED WITH A WATER BOARD.
3. PAVE, APPLY WATER THREE TIMES DAILY OR APPLY (NON-TOXIC) SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES.
4. SWEEP (WET) ALL DRIVEWAYS, ALL PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES. THE USE OF DRY POWDER SWEEPING IS PROHIBITED.
5. SWEEP STREETS DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS. THE USE OF DRY POWDER SWEEPING IS PROHIBITED.
6. ALL CONSTRUCTION VEHICLES, EQUIPMENT AND DELIVERY TRUCKS SHALL HAVE MAXIMUM IDLE TIME OF 15 MINUTES. EXCEEDING THIS TIME VIOLATES CALIFORNIA AIRBORNE TOXIC CONTROL MEASURE TITLE 13, SECTION 2485 OF CALIFORNIA CODE OF REGULATIONS (CCR). ENGINES SHALL BE SHUT OFF IF CONSTRUCTION REQUIRES LONGER IDLE TIME UNLESS NECESSARY FOR OPERATION OR EMERGENCY.
7. ALL VEHICLE SPEEDS ON UNPAVED ROADS SHALL BE LIMITED TO 15 MILES PER HOUR.
8. ALL CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED AND PROPERLY TUNED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ALL EQUIPMENT SHALL BE CHECKED BY A CERTIFIED MECHANIC AND DETERMINED TO BE RUNNING IN PROPER CONDITION PRIOR TO OPERATION.
9. THAT IS TO SAY, THAT IS TO SAY, THAT IS TO SAY, A MINIMUM 2 INCHES LETTER HEIGHT VISIBLE NEAR THE ENTRANCE OF CONSTRUCTION SITE THAT IDENTIFIES THE FOLLOWING REQUIREMENTS. OBTAIN ENCROACHMENT PERMIT FOR SIGN PLACEMENT.

1. THE LANDOWNER / CONTRACTOR MUST PROTECT AND ENSURE THE PERPETUATION OF SURVEY MONUMENTS AFFECTED BY CONSTRUCTION ACTIVITIES.
2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE, STAKE, AND FLAG OR OTHERWISE IDENTIFY WITH PAINT OR OTHER MARKINGS ALL PERMANENT SURVEY MONUMENTS OF RECORD AND ANY UNRECORDED MONUMENTS THAT ARE DISCOVERED THAT ARE WITHIN 50 FEET OF THE CONSTRUCTION ACTIVITY.
3. THE LANDOWNER, CONTRACTOR AND/OR ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES THAT WILL OR MAY DISTURB AN EXISTING MONUMENT, CORNER STAKE, OR ANY OTHER PERMANENT SURVEYED MONUMENT, SHALL CAUSE TO HAVE A LICENSED LAND SURVEYOR OR CIVIL ENGINEER, AUTHORIZED TO PRACTICE SURVEYING, ENSURE THAT A CORNER RECORD AND/OR RECORD OF SURVEY ARE FILED WITH THE COUNTY SURVEYOR'S OFFICE PRIOR TO DISTURBING SAID MONUMENTS AND RESET PERMANENT MONUMENT(S) IN THE SURFACE OF THE NEW CONSTRUCTION OR SET A WITNESS MONUMENT(S) TO PERPETUATE THE LOCATION IF ANY PERMANENT MONUMENT COULD BE DESTROYED, DAMAGED, COVERED, DISTURBED, OR OTHERWISE OBLITERATED. THE LICENSED LAND SURVEYOR OR CIVIL ENGINEER SHALL FILE A CORNER RECORD OR RECORD OF SURVEY WITH COUNTY SURVEYOR PRIOR TO FINAL ACCEPTANCE OF THE PROJECT BY THE LAND DEVELOPMENT ENGINEERING INSPECTOR.

**OTECNAL ENGINEER**

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SE PLANS HAVE BEEN REVIEWED BY BAGG ENGINEERS AND APPEAR TO BE IN FULL CONFORMITY WITH THE RECOMMENDATIONS IN THE "REVISED REPORT; TECHNICAL ENGINEERING INVESTIGATION; PROPOSED CUPAL RESIDENCE; 3343 MARINE ROAD, PORTOLA VALLEY, CA; APN: 142-15-008" PREPARED BY BAGG ENGINEERS, PROJECT NUMBER CUPRAL-18-01, DATED OCTOBER 10, 2018, THE AN REVIEW; GEOTECHNICAL ENGINEERING CONSULTATION; STITCH PIER WALL" LETTER DATED SEPTEMBER 26, 2019, AND ANY ADDITIONAL SUPPLEMENTAL MEASUREMENTS, CALCULATIONS, OR ANY PORTION OF THE DESIGN.

THESE PLANS HAVE BEEN REVIEWED BY BAGG ENGINEERS AND APPEAR TO BE IN GENERAL CONFORMITY WITH THE RECOMMENDATIONS IN THE "REVISED REPORT; GEOTECHNICAL ENGINEERING INVESTIGATION: PROPOSED CUPAL RESIDENCE, 3343 ALPINE ROAD, PORTOLA VALLEY, CA; APN: 142-15-008" PREPARED BY BAGG ENGINEERS, PROJECT NUMBER CUPAL-18-01, DATED OCTOBER 10, 2018, THE "PLAN REVIEW; GEOTECHNICAL ENGINEERING CONSULTATION: STITCH PIER WALL" LETTER DATED SEPTEMBER 26, 2018 AND ANY ADDITIONAL SUPPLEMENTAL REPORTS. WE MAKE NO REPRESENTATION AS TO ACCURACY OF DIMENSIONS, MEASUREMENTS, CALCULATIONS, OR ANY PORTION OF THE DESIGN.

1. DEVELOPER IS RESPONSIBLE FOR ALL NECESSARY DRAINAGE FACILITIES WHETHER SHOWN ON THE PLANS OR NOT AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THE ADEQUACY AND CONTINUED MAINTENANCE OF THE DRAINAGE FACILITIES. PLANS WILL PROVIDE AN HAZARD TO LIFE, HEALTH, OR DAMAGE TO ADJOINING PROPERTY, CONSISTENT WITH NPDES PERMIT CAGS612008 / ORDER NO. R2-2009-0047 AND NPDES PERMIT 500000000-000000000-0013.
2. DROP INLETS SHALL BE CIRCULAR MANHOLE TYPE 5 UNLESS OTHERWISE NOTED ON THE PLANS. THE DEVELOPER'S ENGINEER SHALL BE RESPONSIBLE FOR THE PROPER LOCATION OF DROP INLETS, WHERE STREET PROFILE GRADE EXCEEDS 10% AND SLOPES SHALL BE AT 500' HORIZONTAL TO 1' VERTICAL. DROPS SHALL BE AS CURBED ON THE PLANS.
3. WHERE CULVERTS ARE INSTALLED THE DEVELOPER SHALL BE RESPONSIBLE FOR THE GRADING, THE OUTLET DITCH TO DRAIN TO AN EXISTING SWALE OR TO AN OPEN AREA FOR SHEDDING OF WATER.
4. UPON INSTALLATION OF DRAINAGE CONNECTIONS, PROPERTY OWNERS SHALL PROVIDE FOR THE UNINTERRUPTED FLOW OF WATER IN ROADSIDE DITCHES, CREEKS, OR RIVERS. THE INSTALLATION OF DRAINAGE CONNECTIONS AND STORMWATER MANAGEMENT FEATURES PRIOR TO BACKFILL.

THIS IS A TRUE COPY OF THE AS-BUILT PLANS. THERE (\_\_\_ WERE) (\_\_\_ WERE NOT) MINOR FIELD CHANGES - MARKED WITH THE SYMBOL (^). THERE (\_\_\_WERE) (\_\_\_ WERE NOT) PLAN REVISIONS INDICATING SIGNIFICANT CHANGES REVIEWED BY THE COUNTY ENGINEER AND MARKED WITH THE SYMBOL Δ.

NOTE: THIS STATEMENT IS TO BE SIGNED BY THE PERSON AUTHORIZED BY THE COUNTY ENGINEER TO PERFORM THE INSPECTION WORK. A REPRODUCIBLE COPY OF THE AS-BUILT PLANS MUST BE FURNISHED TO THE COUNTY ENGINEER AFTER CONSTRUCTION.

1. A CONSTRUCTION OBSERVATION LETTER FROM THE RESPONSIBLE GEOTECHNICAL ENGINEER AND ENGINEERING GEOLOGIST DETAILING CONSTRUCTION OBSERVATIONS AND CERTIFYING THAT THE WORK WAS DONE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL AND GEOLOGIC REPORTS SHALL BE SUBMITTED PRIOR TO THE GRADING COMPLETION AND RELEASE OF THE BOND.

NO WORK SHALL BE DONE IN THE COUNTY'S RIGHT-OF-WAY WITHUOT AN ENCROACHMENT PERMIT, INCLUDING THE STAGING OF CONSTRUCTION MATERIAL AND THE PLACEMENT OF PORTABLE TOILETS.

I HEREBY STATE THAT THESE PLANS ARE IN COMPLIANCE WITH ADOPTED COUNTY STANDARDS, THE APPROVED TENTATIVE MAP (OR PLAN) AND CONDITIONS OF APPROVAL PERTAINING THERETO DATED FILE(S) NO. \_\_\_\_\_

DATE 9/4/2020 Craig Overbo 60301  
SIGNATURE R.C.E. NO.



REGISTERED PROFESSIONAL ENGINEER  
CRAIG G. OVERTON

6/30/2022

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EXPIRATION DATE



ISSUANCE OF A PERMIT AUTHORIZING CONSTRUCTION DOES NOT RELEASE THE DEVELOPER, PERMITTEE, OR ENGINEER FROM RESPONSIBILITY FOR THE CORRECTION OF ERRORS OR OMISSIONS CONTAINED IN THE PLANS. IF, DURING THE COURSE OF CONSTRUCTION, THE PUBLIC INTEREST REQUIRES A MODIFICATION OF (OR DEPARTURE FROM) THE SPECIFICATIONS OF THE PLANS, THE COUNTY SHALL HAVE THE AUTHORITY TO REQUIRE THE SUSPENSION OF WORK, AND THE NECESSARY MODIFICATION OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH THE SAME IS TO BE MADE.

DATE \_\_\_\_\_

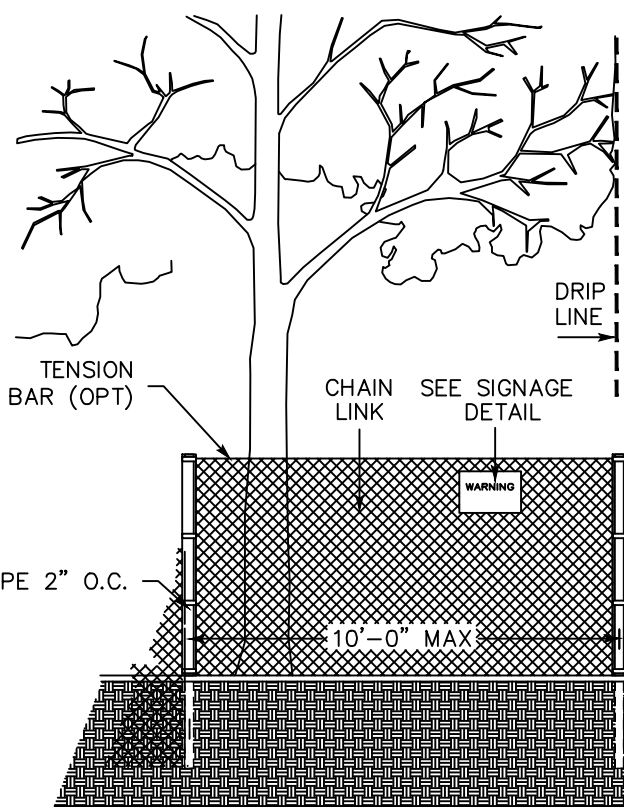
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\_\_\_\_\_

R.C.E. NO. \_\_\_\_\_ EXPIRATION DATE \_\_\_\_\_



1. THE DEVELOPER IS RESPONSIBLE FOR THE INSTALLATION OF THE WORK PROPOSED ON THE EROSION CONTROL PLAN. THE ENGINEER OF RECORD IS RESPONSIBLE FOR THE DESIGN OF THE EROSION CONTROL PLANS AND ANY MODIFICATIONS OF THE EROSION CONTROL PLANS TO PREVENT ILLICIT DISCHARGES FROM THE SITE DURING CONSTRUCTION.
2. CONSTRUCTION OF NEW RESIDENCE
3. GRAVEL PARKING AREA
4. STORMWATER FACILITIES AND DETENTION
5. UNDERGROUND UTILITIES TO ALPINE ROAD



1. PRIOR TO THE COMMENCEMENT OF ANY GRADING, TREE PROTECTIVE FENCING SHALL BE IN PLACE IN ACCORDANCE WITH THE TREE PRESERVATION PLAN. THE FENCING SHALL BE A MINIMUM OF 4 FEET HIGH AND BE CONSTRUCTED OF A CONSTRUCTION ACTIVITY TO ENSURE THAT THE TREE PROTECTION MEASURES ARE IMPLEMENTED AND ADHERED TO DURING CONSTRUCTION. THIS CONDITION SHALL BE INCORPORATED INTO THE GRADING PLANS.
2. FENCING SHALL BE MINIMUM 2" X 4" OR EQUIVALENT OF STURDY MATERIAL (CHAIN-LINK OR EQUIVALENT STRENGTH/ DURABILITY).
3. FENCE SHALL BE SUPPORTED BY VERTICAL POSTS DRIVEN 2 FEET (MIN) INTO THE GROUND AND SPACED NOT MORE THAN 10 FEET APART.
4. SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. DURING THE CONSTRUCTION PERIOD, INSPECTED PERIODICALLY FOR DAMAGE AND PROPER FUNCTION, REPAIRED AS NECESSARY TO PROVIDE A PHYSICAL BARRIER FROM CONSTRUCTION ACTIVITIES, AND REMAIN IN PLACE UNTIL THE FINAL INSPECTION.
5. A SIGN THAT INCLUDES THE WORDS, "WARNING: THIS FENCE SHALL NOT BE REMOVED WITHOUT THE EXPRESSED PERMISSION OF THE SANTA CLARA COUNTY PLANNING DEPARTMENT" SHALL BE SECURELY ATTACHED TO THE FENCING IN A VISUALLY PROMINENT LOCATION.

C0.1-C0.2	GENERAL NOTES
C1.1-C1.3	DETAILS
C2.1	RECORD OF SURVEY
C2.2	OVERALL SITE PLAN
C2.3	FIRE TRUCK TURNAROUND
C3.1-C3.2	GRADING AND UTILITY PLAN
C3.3	SECTIONS
C4.1-C4.2	EROSION CONTROL PLAN
C4.3-C4.4	EROSION CONTROL DETAILS

ENGINEER'S NAME: CRAIG OVERBO  
BOHLEY CONSULTING

ADDRESS: 84 W. SANTA CLARA ST., SUITE 700  
SAN JOSE, CA 95113

PHONE NO. (408) 265-1600

# C0.1

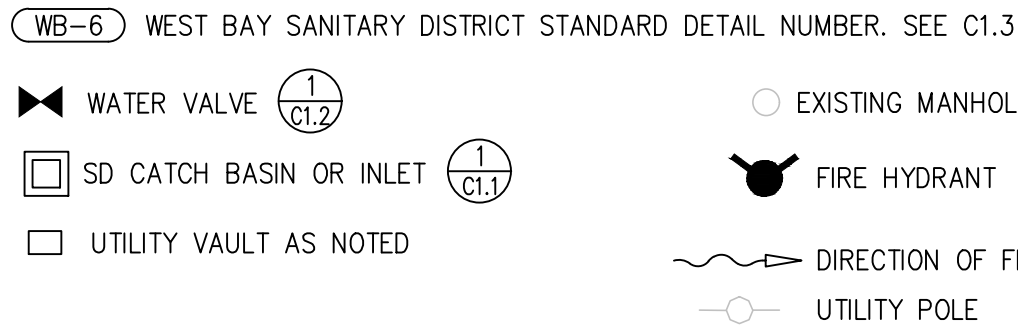
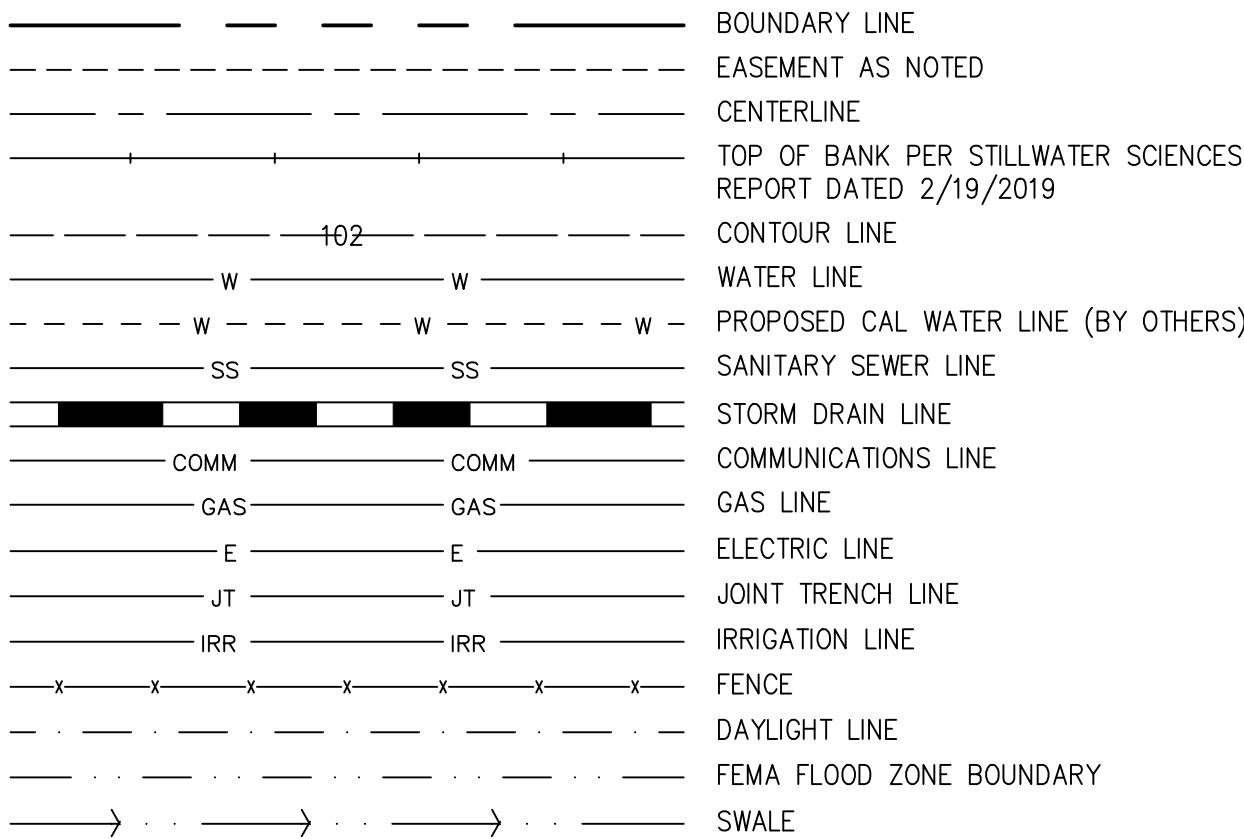
Revision 1	4/21/25	APN	Sheet
Revision 2	Date	142-15-008	1
Revision 3	Date	Co. File	of 15



ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AB	AGGREGATE BASE	M-M	MONUMENT TO MONUMENT
AC	ASPHALT CONCRETE	(N)	NORTH; NEW
AD	AREA DRAIN	"NO., #"	NUMBER
APPROX	APPROXIMATE	NTS	NOT TO SCALE
ARV	AIR RELEASE VALVE	O.C.E.W.	ON CENTER EACH WAY
ASB	AGGREGATE SUB-BASE	P	PAVEMENT
BC	BEGINNING OF CURVE	P28.65	PAVEMENT ELEVATION
BCR	BEGIN CURB RETURN	PVMT	PAVEMENT
BF	BLIND FLANGE		POINT OF COMPOUND CURVE or
BFP	BACKFLOW PREVENTER		PORTLAND CEMENT CONCRETE
BL	BASELINE	PERF	PERFORATED PIPE
BLDG	BUILDING	PG&E	PACIFIC GAS AND ELECTRIC CO.
BM	BENCHMARK	PL, P/L	PROPERTY LINE
BO	BLOWOFF	PRC	POINT OF REVERSE CURVE
BOV	BLOWOFF VALVE	P.S.E.	PUBLIC SERVICES EASEMENT
BVC	BEGIN VERTICAL CURVE	PT	POINT
BW	BACK OF WALK	PUE	PUBLIC UTILITY EASEMENT
CB	CATCH BASIN	PVC	POLYVINYL CHLORIDE
C&G	CURB & GUTTER	PVI	POINT OF VERTICAL INTERSECTION
CI	CURB INLET	R29.65	RAMP ELEVATION
CMP	CENTERLINE	R	RADIUS
CO	CORRUGATED METAL PIPE	ROP	REINFORCED CONCRETE PIPE
CONC	CONCRETE	RE	RIM ELEVATION
COTG	CLEANOUT TO GRADE	RET	CURB RETURN
CR	CURB RETURN	RET. WALL	RETAINING WALL
DI	DROP INLET; DUCTILE IRON	RT	RIGHT
DIA	DIAMETER	RW	RECLAIMED WATER
DIP	DUCTILE IRON PIPE	R/W	RIGHT OF WAY
DS	DOWNSPOUT	S	SLOPE
DWG	DRAWING	(S)	SOUTH
E	ELECTRIC	SD	STORM DRAIN
(E)	EXISTING, EAST	SDCB	STORM DRAIN CATCH BASIN
EC	END OF CURVE	SDCO	STORM DRAIN CLEANOUT
ECR	END OF CURB RETURN	SDMH	STORM DRAIN MANHOLE
EG	EXISTING GRADE	SDWK	SIDEWALK
EG30.25	EXISTING GRADE ELEVATION	SG	SUBGRADE
EL, ELEV	ELEVATION	SG30.25	SUBGRADE ELEVATION
ELEC	ELECTRIC	SHT	SHEET
EP	EDGE OF PAVEMENT	S.L.P.	SEE LANDSCAPE PLANS
EVA	EMERGENCY VEHICLE ACCESS	SS	SANITARY SEWER
EX/EXIST.	EXISTING	SSCO	SANITARY SEWER CLEANOUT
(F)	FUTURE	SSD	SEE STRUCTURAL DRAWINGS
FC, F/C	FACE OF CURB	SSMH	SANITARY SEWER MANHOLE
FA	FIRE ALARM	ST	SYNTHETIC TURF; STREET
FF	FINISHED FLOOR	ST22.35	TOP OF SYNTHETIC TURF
FF 30.85	FINISHED FLOOR ELEVATION		ELEVATION
FG	FINISHED GRADE	STA	STATION
FG30.35	FINISHED GRADE ELEVATION	STD	STANDARD
FH	FIRE HYDRANT	(A)	TOTAL
FL	FLOW LINE	TB	TOP OF BULKHEAD, TOP OF
FL35.50	FLOWLINE ELEVATION		BERM/DIKE
FT	FEET	TB29.04	TOP OF BULKHEAD ELEVATION
G	GROUND; GAS	TC	TOP OF CURB
G27.35	GROUND ELEVATION	TC28.95	TOP OF CURB ELEVATION
GB	GRADE BREAK	TD30.23	TOP OF DIKE ELEVATION
GR	GRATE	TEMP	TEMPORARY
GR31.25	GRATE ELEVATION	TG	TOP OF GRADE
GV	GATE VALVE, GAS VALVE	TP	TOP OF PAVEMENT
HB	HOSE BIB	TP32.45	TOP OF PAVEMENT ELEVATION
HDPE	HIGH-DENSITY POLYETHYLENE	TRW	TOP OF RETAINING WALL
HGL	HYDRAULIC GRADE LINE	TW	TOP OF WALL
HOR.	HORIZONTAL	TW36.37	TOP OF WALL ELEVATION
HP	HIGH POINT	TYP.	TYPICAL
H&T	HUB & TACK	UD, U/D	UNDERDRAIN
HV	HIGH VOLTAGE	U.O.N.	UNLESS OTHERWISE NOTED
INV	INVERT	VERT.	VERTICAL
IE	INVERT ELEVATION	VCP	VITRIFIED CLAY PIPE
IRR	IRRIGATION	VIF	VERIFY IN FIELD
JT	JOINT TRENCH	W	WATER
LAT	LATERAL	(W)	WEST
L	LENGTH	W/	WITH
LF	LINEAR FEET	WM	WATER METER
LG	LIP OF GUTTER	WSP	WELDED STEEL PIPE
LG30.75	LIP OF GUTTER ELEVATION	WV	WATER VALVE
LOW	LIMIT OF WORK	1/2 PT	HALF POINT OF CURB RETURN AT
LP	LOW POINT		F/C
LT	LEFT		
MAX	MAXIMUM		
MH	MANHOLE		
MID	MIDDLE		
MIN	MINIMUM		

LEGEND



I. GENERAL NOTES

- ALL REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED IN WRITING BY THE DESIGN ENGINEER AND THE COUNTY PRIOR TO CONSTRUCTION OF AFFECTED ITEMS. ALL REVISIONS SHALL BE ACCURATELY SHOWN ON REVISED PLANS AND SIGNED BY THE COUNTY.
- THE CONTRACTOR SHALL RESTORE ALL WALLS, FENCES, SERVICES, UTILITIES, IMPROVEMENTS OR FEATURES OF WHATEVER NATURE WHICH ARE DAMAGED, DUE TO THE CONTRACTOR'S WORK, TO THEIR PREVIOUS CONDITION.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE INSTALLATION OF PG&E, AT&T, AND CABLE TV FACILITIES.
- NOTIFY UNDERGROUND SERVICE ALERT (NOW 811) AT LEAST THREE (3) WORKING DAYS PRIOR TO ANY EXCAVATION. THE USA AUTHORIZATION NUMBER SHALL BE KEPT AT THE JOB SITE.
- ALL NEW UTILITY DISTRIBUTION SERVICES SHALL BE PLACED UNDERGROUND.
- IF CONSTRUCTION OPERATIONS IMPACT ANY PUBLIC STREET INCLUDING SIDEWALKS, THE CONTRACTOR SHALL PREPARE A TRAFFIC AND SAFETY CONTROL PLAN AND OBTAIN APPROVAL FROM THE CITY TRAFFIC ENGINEER AT LEAST 10 DAYS BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE FLAGMEN, CONES, OR BARRICADES, AS NECESSARY, TO CONTROL TRAFFIC AND PREVENT HAZARDOUS CONDITIONS PER THE WORK AREA TRAFFIC CONTROL HANDBOOK.
- EXISTING PEDESTRIAN WALKWAYS, BIKE PATHS, AND HANDICAP ACCESS PATHWAYS SHALL BE MAINTAINED DURING CONSTRUCTION TO THE SATISFACTION OF THE COUNTY.
- TRENCHES SHALL NOT BE LEFT OPEN OVERNIGHT IN PUBLIC AREAS. CONTRACTOR SHALL BACKFILL TRENCHES, OR PLACE STEEL PLATING AND/OR HOT-MIX ASPHALT AS REQUIRED TO PROTECT OPEN TRENCHES AT THE END OF EVERY WORK DAY.
- EXCAVATIONS SHALL BE ADEQUATELY SHORED IN CONFORMANCE WITH OSHA, CITY AND COUNTY REQUIREMENTS, AND THE GEOTECHNICAL REPORT SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE RESULTING FROM SHORING, BRACING, AND SHEATHING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HE SHALL COMPLETE NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH, AND/OR STRUCTURE IS FIVE (5) FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL PROVIDE SHEATHING, SHORING AND BRACING IN CONFORMANCE WITH THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL COMPLY WITH OSHA REQUIREMENTS AT ALL TIMES.
- PRIOR TO PLACING CURB, SIDEWALK, ASPHALT CONCRETE, SUBBASE OR BASE MATERIAL, ALL UNDERGROUND FACILITIES WITHIN THE RIGHT-OF-WAY SHALL BE INSTALLED, BACKFILL COMPLETED, AND THE PUBLIC WORKS DEPARTMENT'S CONSTRUCTION DIVISION NOTIFIED BY EACH OF THE UTILITY COMPANIES HAVING FACILITIES WITHIN THE WORK AREA THAT THE UTILITY INSTALLATION HAS SATISFACTORILY PASSED ACCEPTANCE TESTS.
- THE CONTRACTOR SHALL POST 24 HR EMERGENCY TELEPHONE NUMBERS FOR POLICE, FIRE, AMBULANCE, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF THE JOB SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO EXISTING STREETS, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING (3:1 SLOPE MAXIMUM), ETC. AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
- SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
- ORDER OF WORK FOR STREET & PARKING LOT IMPROVEMENTS:
  - A. ROUGH GRADING
  - B. STORM DRAIN & DRAINAGE STRUCTURES
  - C. OTHER UTILITY INSTALLATION
  - D. CURB & SIDEWALK
  - E. PAVEMENT CONSTRUCTION
  - F. REMOVE CONFLICTING STRIPING, PAVEMENT MARKER AND
  - G. COMPLETE FINAL STRIPING, PAVEMENT MARKERS AND SIGN INSTALLATION
- THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
- THE CONTRACTOR IS REQUIRED BY STATE LAW TO ACTIVELY RESEARCH THE WORK AREA PRIOR TO CONSTRUCTION, AND TO REFERENCE MONUMENTS AND REPLACE THOSE DAMAGED OR REMOVED DURING CONSTRUCTION.
- GATHER ALL CONSTRUCTION DEBRIS ON A DAILY BASIS AND PLACE IT IN A COVERED DUMPSTER OR OTHER CONTAINER WHICH IS EMPTIED OR REMOVED ON A WEEKLY BASIS. A SECONDARY CONTAINMENT BERM SHALL BE CONSTRUCTED AROUND THE DUMPSTER. WHEN APPROPRIATE, INSTALL TARPS ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORM WATER POLLUTION.
- REMOVE ALL DEBRIS FROM THE SIDEWALK, STREET, PAVEMENT, AND STORM DRAIN SYSTEM ADJOINING THE PROJECT SITE DAILY OR AS REQUIRED BY THE COUNTY INSPECTOR. DURING WET WEATHER, AVOID DRIVING VEHICLES OFF PAVED AREAS.
- CREATE A CONTAINED AND COVERED AREA ON THE SITE FOR THE STORAGE OF BAGS OF CEMENT, PAINTS, FLAMMABLE ITEMS, OILS, FERTILIZERS, PESTICIDES OR ANY OTHER MATERIAL USED ON THE PROJECT SITE THAT HAS THE POTENTIAL FOR BEING DISCHARGED TO THE STORM DRAIN SYSTEM.
- NEVER CLEAN MACHINERY, TOOLS, BRUSHES, ETC. OR RINSE CONTAINERS INTO A STREET, GUTTER, STORM DRAIN OR STREAM.
- CONCRETE/GUNITED SUPPLY TRUCKS OR CONCRETE/PLASTERS OR SIMILAR FINISHING OPERATIONS SHALL NOT DISCHARGE WASH WATER INTO STREET GUTTERS OR DRAINS OR ON-SITE STORM DRAINAGE SYSTEMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING ANY RODENT, MOSQUITO, OR OTHER PEST PROBLEM DUE TO CONSTRUCTION ACTIVITIES.
- DURING CONSTRUCTION, NOISE CONTROL AND CONSTRUCTION TRAFFIC MITIGATION MEASURES WITHIN RESIDENTIAL NEIGHBORHOODS OR ON PUBLIC STREETS SHALL BE TAKEN TO REDUCE NOISE & USE OF PUBLIC STREETS BY CONSTRUCTION TRAFFIC AS DIRECTED BY THE CITY.
- FLAG PERSONS SHALL BE REQUIRED FOR ANY AND ALL CLOSURES OF TRAFFIC LANES, PRIOR TO ANY LANE OR ROAD CLOSURE, 24-HOUR WRITTEN NOTICE AND APPROVAL FROM THE POLICE DEPARTMENT MUST BE OBTAINED. CONTACT PD TRAFFIC UNIT OR WATCH COMMANDER FOR APPROVALS. ANY LANE OR ROAD CLOSURE MUST BE CONDUCTED DURING NON-COMMUTE HOURS (9:00 AM TO 3:00 PM)
- ALL ASBESTOS CEMENT PIPING ENCOUNTERED SHALL BE BROUGHT TO THE ATTENTION OF THE

NOTE:

- CONTRACTOR SHALL CALL UNDERGROUND SERVICES ALERT AT 811 PRIOR TO ANY EXCAVATION.
- CONTRACTOR SHALL POTHOLE EXISTING UTILITIES TO CONFIRM LOCATION AND ELEVATION FOR ALL UTILITIES TO BE PROTECTED IN PLACE OR INTENDED FOR BEING CONNECTED TO.

CONSTRUCTION MANAGER FOR DIRECTION AS TO PROPER DISPOSAL.

- THE CONTRACTOR SHALL PROVIDE TO THE OWNER'S REPRESENTATIVE VIDEOS AND/OR PHOTOGRAPHS OF THE EXISTING CONDITIONS, PARTICULARLY EDGE CONDITIONS, OF THE PROJECT SITE PRIOR TO ANY WORK BEING PERFORMED IN ORDER TO DOCUMENT ANY POTENTIAL CLAIMS THAT MAY ARISE DURING OR AT THE END OF CONSTRUCTION. UNDOCUMENTED CONDITIONS REQUIRING REPAIR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CORRECT AT NO ADDITIONAL COST TO THE CONTRACT.
- NO DEBRIS BOXES OR BUILDING MATERIALS SHALL BE STORED ON THE STREET.

II. LAYOUT NOTES

- ALL CURB RETURN RADII AND CURB DATA ARE TO TOP OF CURB UNLESS OTHERWISE NOTED.
- ALL IMPROVEMENTS ARE TO BE STAKED BY A REGISTERED LAND SURVEYOR. COORDINATES ARE TO BE DETERMINED BY THE LAND SURVEYOR USING A DIGITAL COPY OF THE PLANS WHICH SHALL BE PROVIDED TO HIM/HER.

III. EXISTING CONDITIONS

- SITE BOUNDARY AND TOPOGRAPHIC SURVEY PROVIDED BY LEA & BRAZE ENGINEERING, INC., DATED OCTOBER 3, 2017. SUPPLEMENTAL TOPO (EDGE OF PAVEMENT, LANE STRIPING, USA UTILITY MARKINGS) ALONG ALPINE ROAD BY BOHLEY CONSULTING IN NOVEMBER 2017 AND JULY 2018.
- INFORMATION REGARDING EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES SHOWN ON THESE PLANS WAS TAKEN FROM THE TOPOGRAPHIC SURVEY AND IS NOT MEANT TO BE A FULL CATALOG OF EXISTING CONDITIONS. CONTRACTOR SHALL CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES (WHETHER SHOWN ON THESE PLANS OR NOT) PRIOR TO THE COMMENCEMENT OF WORK. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS IN THE FIELD AND INFORMATION SHOWN ON THESE PLANS.
- ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF ANY CONSTRUCTION.

IV. GRADING

- NO WORK SHALL BE PERFORMED ON SATURDAYS, SUNDAYS, OR HOLIDAYS, OR OUTSIDE THE HOURS OF 7:30 A.M. TO 6:00 P.M., WITHOUT THE SPECIFIC AUTHORIZATION OF THE CITY ENGINEER. ALL GASOLINE POWERED CONSTRUCTION EQUIPMENT SHALL BE EQUIPPED WITH AN OPERATING MUFFLER OR BAFFLING SYSTEM AS ORIGINALLY PROVIDED BY THE MANUFACTURER, AND NO MODIFICATION TO THESE SYSTEMS IS PERMITTED.
- THE APPLICANT SHALL POST HOURS OF OPERATION AND PHONE NUMBERS FOR NOISE COMPLAINTS. SAID NOTICE SHALL BE VISIBLE FROM ALPINE ROAD.
- THE GEOTECHNICAL ENGINEER SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF GRADING OPERATIONS.
- THE GEOTECHNICAL ENGINEER SHALL BE PRESENT AT THE SITE DURING GRADING OPERATIONS AND SHALL PERFORM ALL TESTING DEEMED NECESSARY. THE GEOTECHNICAL ENGINEER SHALL OBSERVE ALL GRADING OPERATIONS AND IDENTIFY THOSE WITH DEFICIENT CONDITIONS WITH RECOMMENDED CORRECTIVE MEASURES TO THE CONTRACTOR AND THE OWNER'S REPRESENTATIVE.
- ALL GRADING SHALL BE INSPECTED AND TESTED BY A QUALIFIED GEOTECHNICAL ENGINEER OR UNDER THEIR DIRECTION. THE GEOTECHNICAL ENGINEER SHALL INSPECT AND TEST THE EXCAVATION, PLACEMENT OF FILLS, BACKFILLING AND COMPACTION OF TRENCHES. THE GEOTECHNICAL ENGINEER SHALL SUBMIT SOILS REPORTS AS REQUIRED AND WILL DETERMINE THE SUITABILITY OF ANY FILL MATERIAL. UPON COMPLETION OF GRADING OPERATIONS THE GEOTECHNICAL ENGINEER SHALL STATE IN A REPORT TO THE DISTRICT THAT THE INSPECTIONS AND TESTS WERE MADE BY HIM/HER OR UNDER HIS/HER SUPERVISION AND THAT IN HIS/HER OPINION ALL EMBANKMENTS AND EXCAVATIONS WERE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED GRADING PLANS AND APPROVED REVISIONS THERETO AND ALL EMBANKMENTS AND EXCAVATIONS ARE ACCEPTABLE FOR THEIR INTENDED USE.
- ALL FILL SLOPES SHALL BE OVER BUILT LATERALLY AND EXCAVATED BACK TO DESIGN INCLINATION, PER GEOTECHNICAL RECOMMENDATIONS.
- SUBGRADE SOIL IN PAVEMENT AREAS, SLABS ON GRADE, AND FOUNDATION FOOTING AREAS SHALL BE SCARIFIED, MOISTURE CONDITIONED, AND COMPACTED PER THE SOILS REPORT.
- NO LIME TREATMENT OF SOIL SHALL OCCUR WITHIN LANDSCAPED AREAS.
- PERFORM WATER TESTS TO ENSURE POSITIVE DRAINAGE IN FLATTER AREAS.

V. UTILITIES

- A MINIMUM OF TWELVE (12) INCHES VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN CROSSING UTILITY PIPES UNLESS OTHERWISE NOTED OR SHOWN ON THE PLANS. WHEN LESS THAN 12", PLACE A STYROFOAM BLOCK BETWEEN THE UTILITIES.
- ALL ELECTRIC, GAS, TELEPHONE, CABLE, AND JOINT TRENCH WORK, INCLUDING PADS AND SUBSTRUCTURES, SHALL CONFORM TO AND BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANY. CONTRACTOR SHALL NOTIFY THE AFFECTED UTILITY COMPANY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING SUCH WORK.
- CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE DURING COMPACTION OF ROADWAY OR CONCRETE SUBGRADE AND PRIOR TO PLACEMENT OF THE FINAL PAVEMENT SECTION.
- ALL UTILITY BOXES IN PAVED AREAS SHALL HAVE H-20 LIDS UNLESS OTHERWISE NOTED. CATCH BASINS IN TRAFFIC AREAS SHALL HAVE H-20 FRAMES AND GRATES. CATCH BASINS IN PEDESTRIAN AREAS MAY BE PEDESTRIAN RATED AND SHALL BE ADA COMPLIANT.
- CONTRACTOR IS CAUTIONED THAT PVC PIPE DERIVES ITS STRENGTH FROM THE COMPACTED BEDDING MATERIAL BELOW AND BESIDE THE PIPE HAUNCHES. CARE SHOULD BE EXERCISED IN THE PLACEMENT AND COMPACTION OF THIS MATERIAL AND THE INSERTION AND REMOVAL OF SHEET PILING ADJACENT TO IT. CONTRACTOR SHALL USE CAUTION WHEN OPERATING EQUIPMENT ON SUBGRADE NEAR PVC PIPE INSTALLATIONS.
- STORM MANHOLES OR INLETS OVER 5 FT IN DEPTH SHALL BE PROVIDED W/ POLYPROPYLENE STEPS. THE STEPS SHALL BE INTEGRALLY CAST INTO THE WALLS OF THE MANHOLE OR INLET WHETHER PRECAST OR FIELD CAST. THE STEPS SHALL BE INSTALLED IN ACCORDANCE WITH CALTRANS SPECIFICATIONS.
- ASBESTOS CEMENT PIPE (ACP) SHALL NOT BE USED IN THE CONSTRUCTION OF ANY STORM DRAINAGE, SANITARY SEWER, OR WATER FACILITIES.

- A CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (CAL OSHA) PERMIT SHALL BE OBTAINED FOR TRENCHES FIVE FEET OR GREATER IN DEPTH. A COPY OF THIS PERMIT SHALL BE SUPPLIED TO THE CITY REPRESENTATIVE. AN ADDITIONAL COPY SHALL BE KEPT AT THE JOB SITE AT ALL TIMES.
- EXISTING PIPE LINES MAY HAVE CATHODIC PROTECTION. IF CONNECTING APPURTENANCES, IT MUST BE ENSURED THAT ALL PIPELINE APPURTENANCES ASSOCIATED WITH CATHODICALLY PROTECTED PIPELINES ARE ELECTRICALLY COMMON WITH PIPELINE.
- WATER LINES ON SITE THROUGH 4" SHALL HAVE MINIMUM 2' COVER.
- ALL SANITARY SEWER WORK SHALL BE PER THE DETAILS AND SPECIFICATIONS OF WEST BAY SANITARY DISTRICT.
- THRUST BLOCKS TO BE PROVIDED AT ALL WATER LINE AND SANITARY SEWER FORCE MAIN BENDS.
- WHEN SANITARY SEWER SERVICE CROSSES UNDER A WATER LINE WITH LESS THAN 12" CLEAR SEPARATION, THE SANITARY SEWER SERVICE SHALL BE A CONTINUOUS SECTION OF PVC CLASS 200 (DR14 PER AWWA C900) PVC PIPE, CENTERED ON THE PIPE BEING CROSSED.
- ALL CATCH BASINS SHALL BE LABELED, "NO DUMPING - FLOWS TO BAY" OR SIMILAR, USING APPROVED METHODS SUCH AS THERMOPLASTIC MATERIAL OR A PLAQUE.
- ADJUST ALL PROPOSED AND EXISTING UTILITY VAULTS, MANHOLES, ETC. TO FINISHED GRADE WITHIN THE WORK AREA.
- CONSTRUCT GRAVITY UTILITIES (SANITARY SEWER AND STORM DRAINAGE) BEFORE INSTALLING NON-GRAVITY UTILITIES (WATER, ELECTRIC, ETC.).

VI. RECORD DRAWINGS

- CONTRACTOR SHALL KEEP ACCURATE RECORD DRAWINGS WHICH SHOW THE FINAL LOCATION, ELEVATION, AND DESCRIPTION OF ALL WORK. CONTRACTOR SHALL ALSO NOTE THE LOCATION AND ELEVATION OF ANY EXISTING IMPROVEMENTS ENCOUNTERED. RECORDS SHALL BE "REDLINED" ON A SET OF PRINTED CONSTRUCTION PLANS OR BY PDF MARKUPS.

VII. STATEMENT OF RESPONSIBILITY

- CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONALS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONALS.

VIII. UNAUTHORIZED CHANGES AND USES

- THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

IX. BENCHMARK AND BASIS OF BEARINGS

- THE BEARING N70°14'00"E BETWEEN FOUND MONUMENTS LOCATED ON WESTRIDGE DRIVE AS SHOWN ON THAT CERTAIN RECORD OF SURVEY FILED IN BOOK 835 OF MAPS AT PAGE 36, SANTA CLARA COUNTY RECORDS.
- BENCHMARK: A NAIL IN THE EASTERLY SHOULDER OF ALPINE ROAD, APPROXIMATELY THIRTY FEET NORTH OF THE ENTRANCE TO THE SITE. ELEVATION 283.67 (NGVD29).

X. EROSION CONTROL

- EROSION CONTROL FACILITIES SHALL BE INSTALLED COMPLETE AND MAINTAINED THROUGHOUT THE PERIOD OF CONSTRUCTION ACTIVITY. THE NAME OF THE PERSON RESPONSIBLE FOR THE DAILY MAINTENANCE OF THESE FACILITIES SHALL BE ON RECORD WITH THE CONSTRUCTION MANAGER ALONG WITH A PHONE NUMBER WHERE HE/SHE CAN BE REACHED 24 HOURS A DAY. THESE FACILITIES SHALL CONTROL AND CONTAIN EROSION CAUSED SILT DEPOSITS AND PROVIDE FOR THE SAFE DISCHARGE OF SILT-FREE STORM WATER INTO EXISTING STORM DRAIN FACILITIES. DESIGN OF THESE FACILITIES MUST BE APPROVED AND UPDATED EACH YEAR PRIOR TO SEPTEMBER 30.

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CUPAL RESIDENCE

3343 ALPINE ROAD  
PORTOLA VALLEY, CA

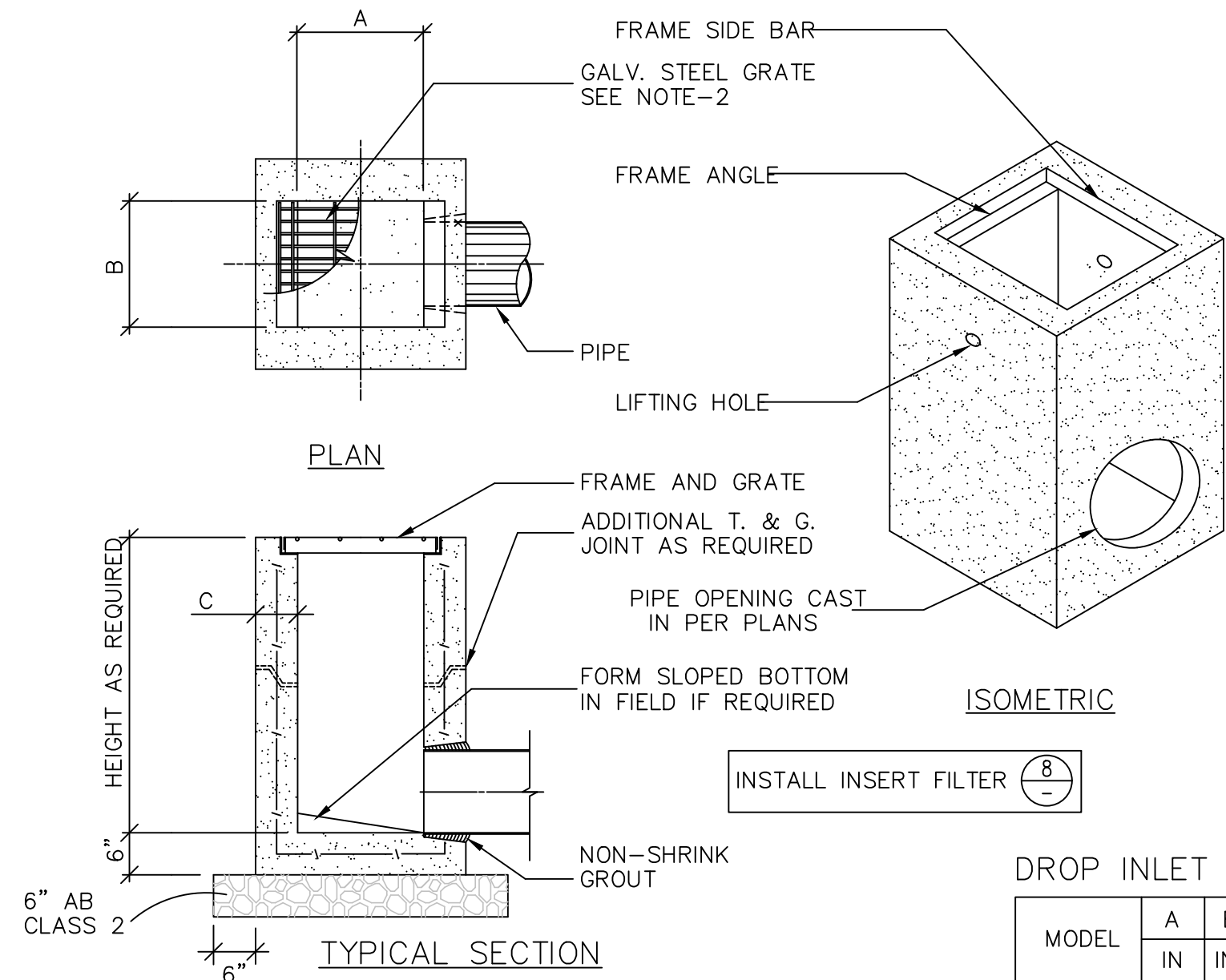
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Drawing	C--TITLE.DWG
Job No	201718
Date	Description
9/4/20	SUBMITTAL



GENERAL NOTES

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C0.2



- NOTES:
1. FRAME AND GRATE IN DRIVEWAY SHALL BE H20 LOADING AND BICYCLE PROOF. FRAMES AND GRATES IN LANDSCAPING SHALL BE PEDESTRIAN LOADING. OPTIONAL GRATE LOCKING DEVICE AVAILABLE ON REQUEST. SEE DRAWING "LOCK" ON PAGE 1-7. CLOSED-MESH GRATES OR CAST IRON FRAME AND GRATES ARE AVAILABLE ON REQUEST.
  2. FOR SURFACE AND DISCHARGE OPTIONS AVAILABLE SEE DRAWING NO. "DI-SO" PAGE 1-4, 1-6 AND "DI-DO" PAGE 1-5.
  3. FRAMES AND GRATES DETAILS SEE PAGES 1-8, 1-9, AND 1-10. CASTING 1-13, DROP-IN 1-14.
  4. WALL THICKNESS ON SOME D.I.'S CAN BE CHANGED UPON REQUEST. CALL TO VERIFY REQUIRED THICKNESS.
  5. 18" WIDE D.I.'S REPLACE THE OLD 16" WIDE BOX BK & 1K.
  6. FOR PIPE / HOLE SCHEDULE SEE DWG. DI-HS PAGE 1-16.
  7. FOR DROP INLET SURFACE OPTIONS SEE DWG. DI-SO PAGE 1-6.
  8. SUBMIT CUT SHEETS PER SPECIFICATIONS.

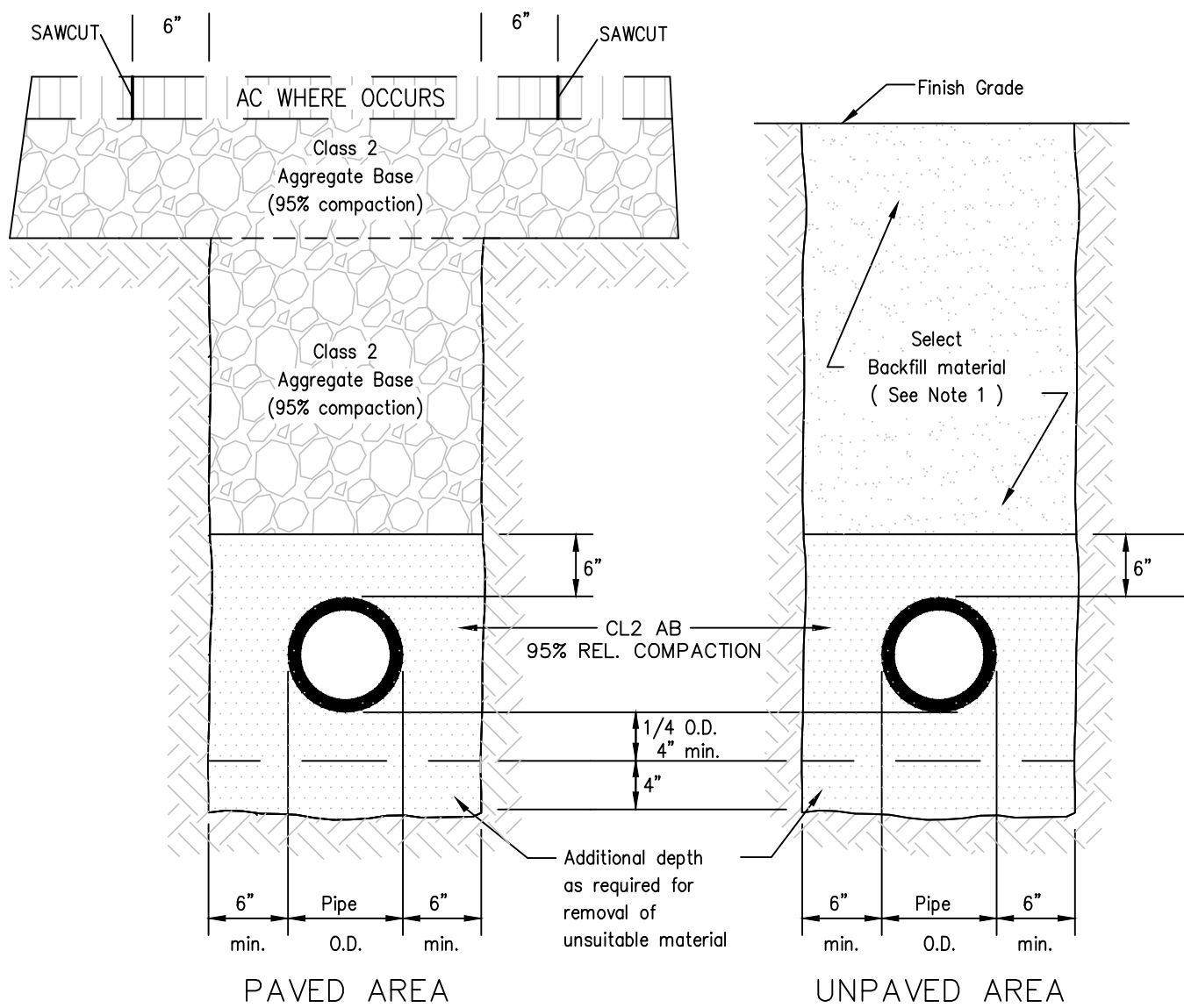
DROP INLET TABLE

MODEL	A IN	B IN	C IN
CB1212	12	12	4
CB2424	24	24	5
CB3636	36	36	6

1

## OLDCASTLE PRECAST CONCRETE DROP INLETS (SANTA ROSA CATCH BASINS)

N.T.S.

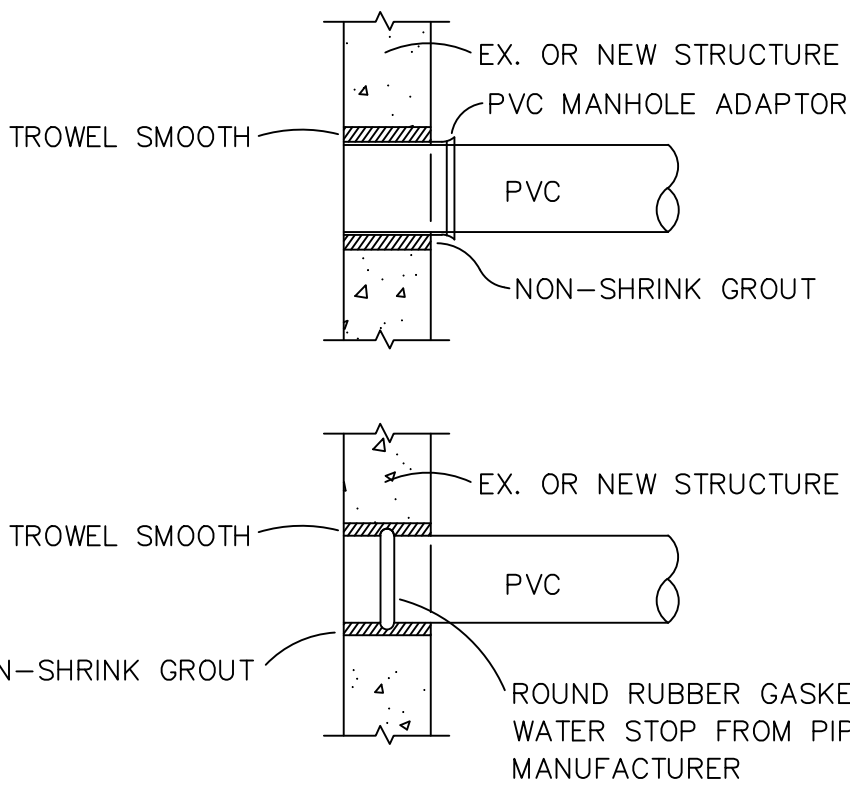


- NOTES:
1. Select backfill material - material from excavation, free from stones or lumps exceeding 4" in greatest dimension, vegetable matter, or unsatisfactory material. On-site soil with an organic content less than 3% by weight may be reused as general fill. (See Geotechnical report). Compaction per Geotechnical report.
  2. Match ex. AC and AB thickness in kind.
  3. See Geotechnical report and structural drawings for requirements where utility lines parallel footings.

7

## UTILITY TRENCH DETAIL

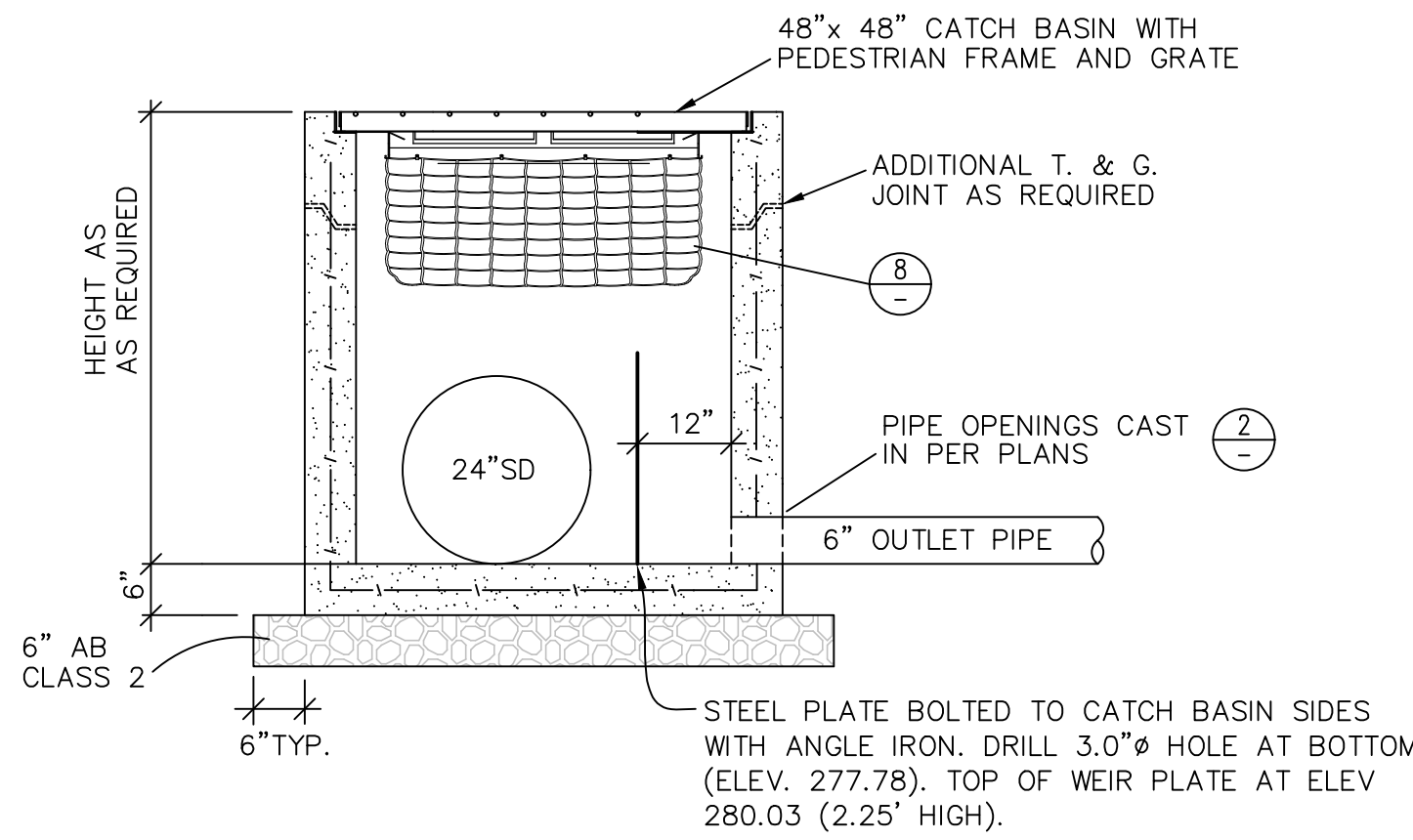
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2

## PLASTIC PIPE CONNECTION TO DRAINAGE STRUCTURES

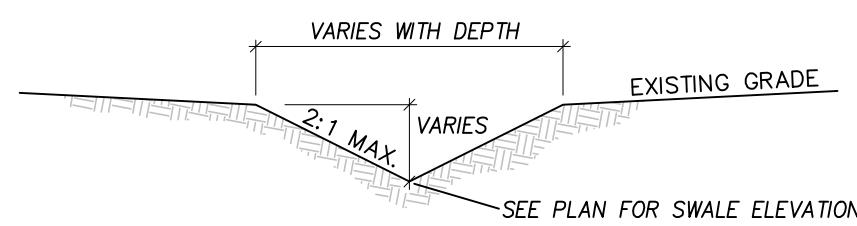
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5

## METERED RELEASE OUTLET STRUCTURE

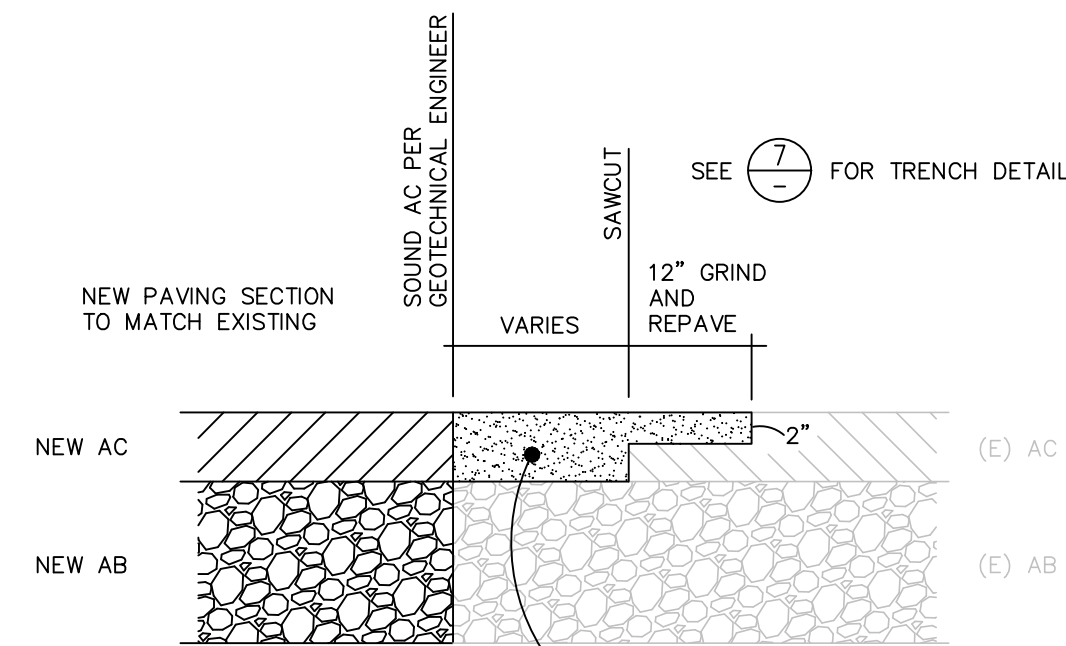
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3

## SWALE

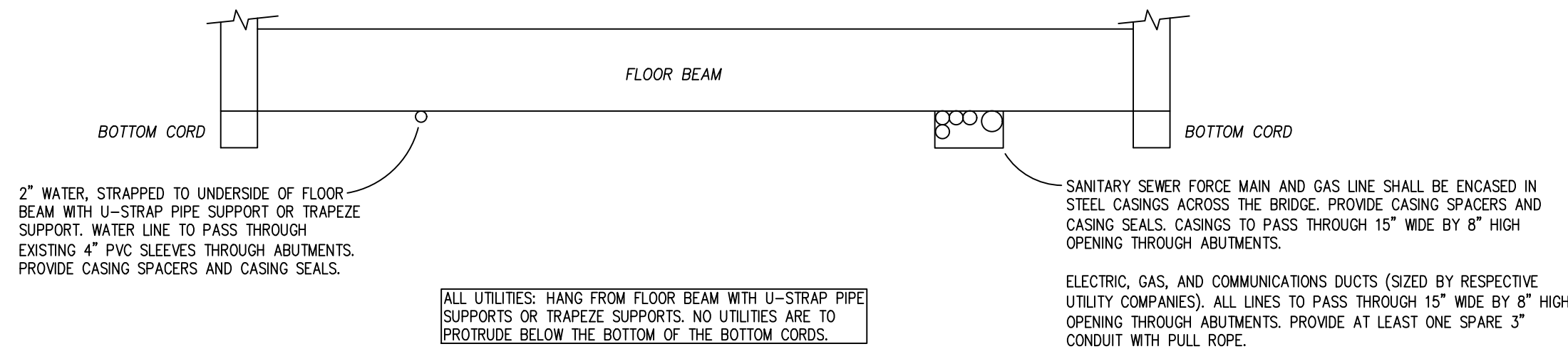
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4

## SAWCUT AND CONFORM

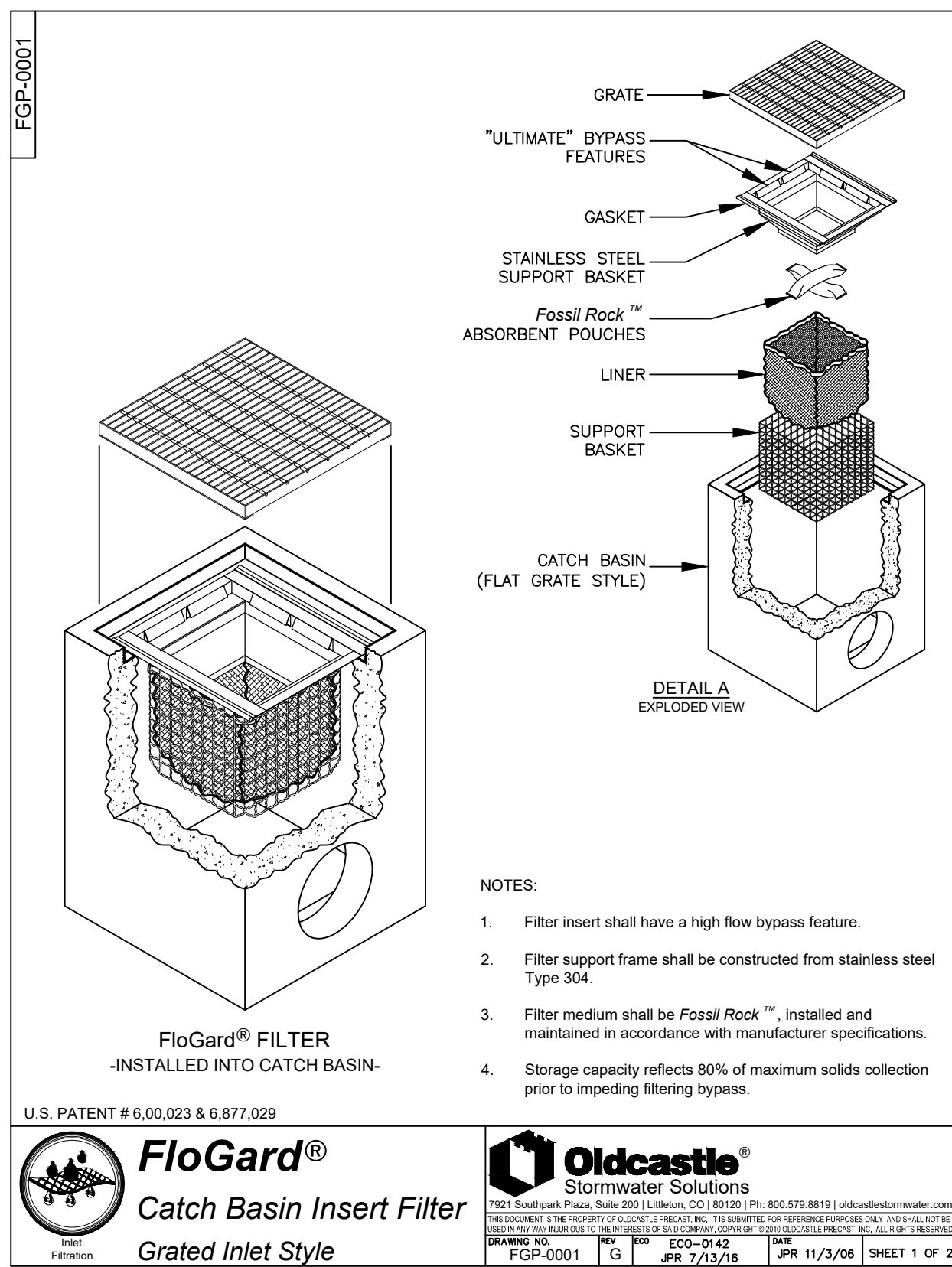
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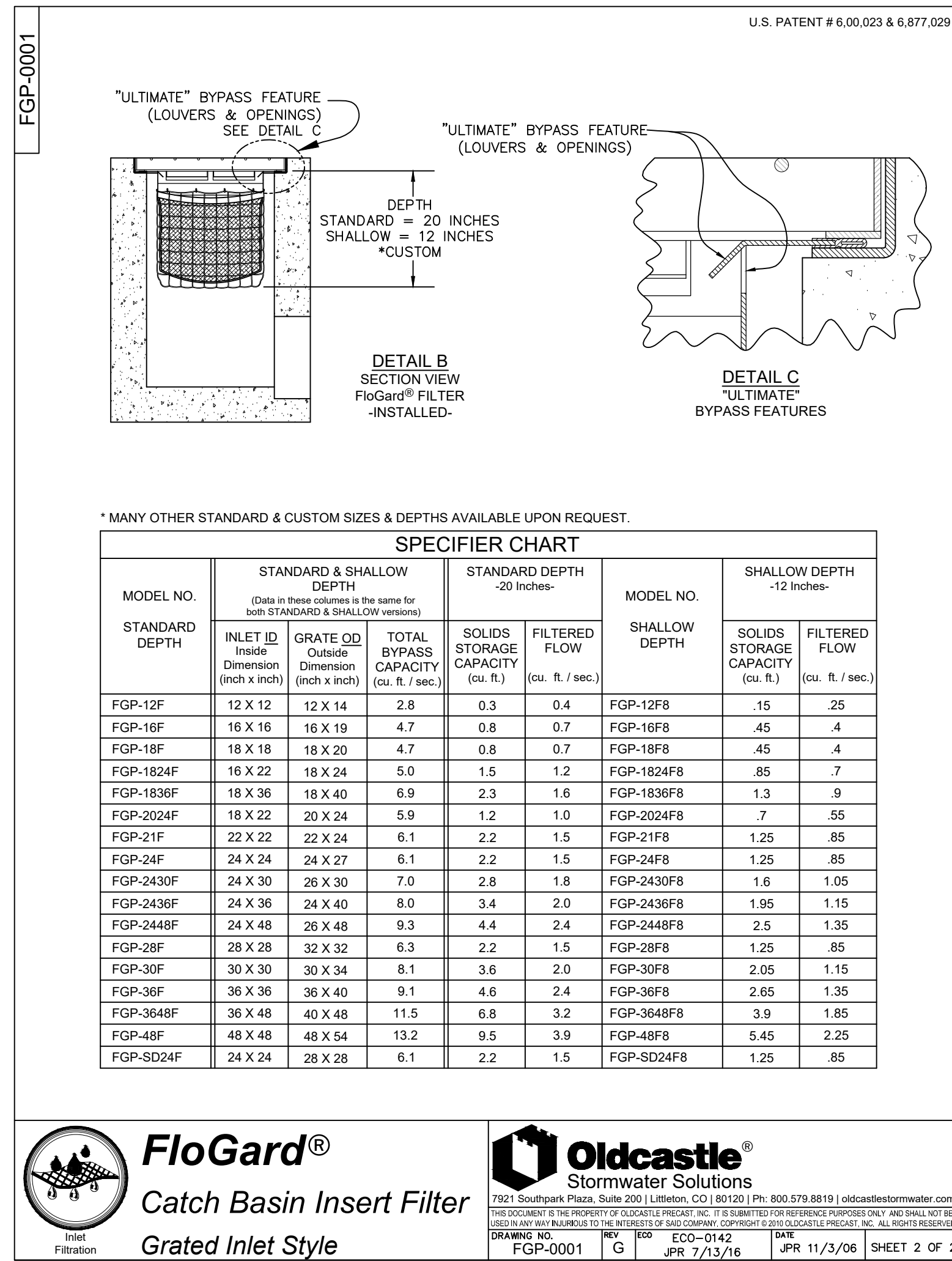
## UTILITIES UNDER BRIDGE

N.T.S.



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8

## CATCH BASIN INSERT FILTER

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## CUPAL RESIDENCE

3343 ALPINE ROAD  
PORTOLA VALLEY, CA

Scale

NONE

Drawing

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Job No

201718

Date

9/4/20

DESCRIPTION

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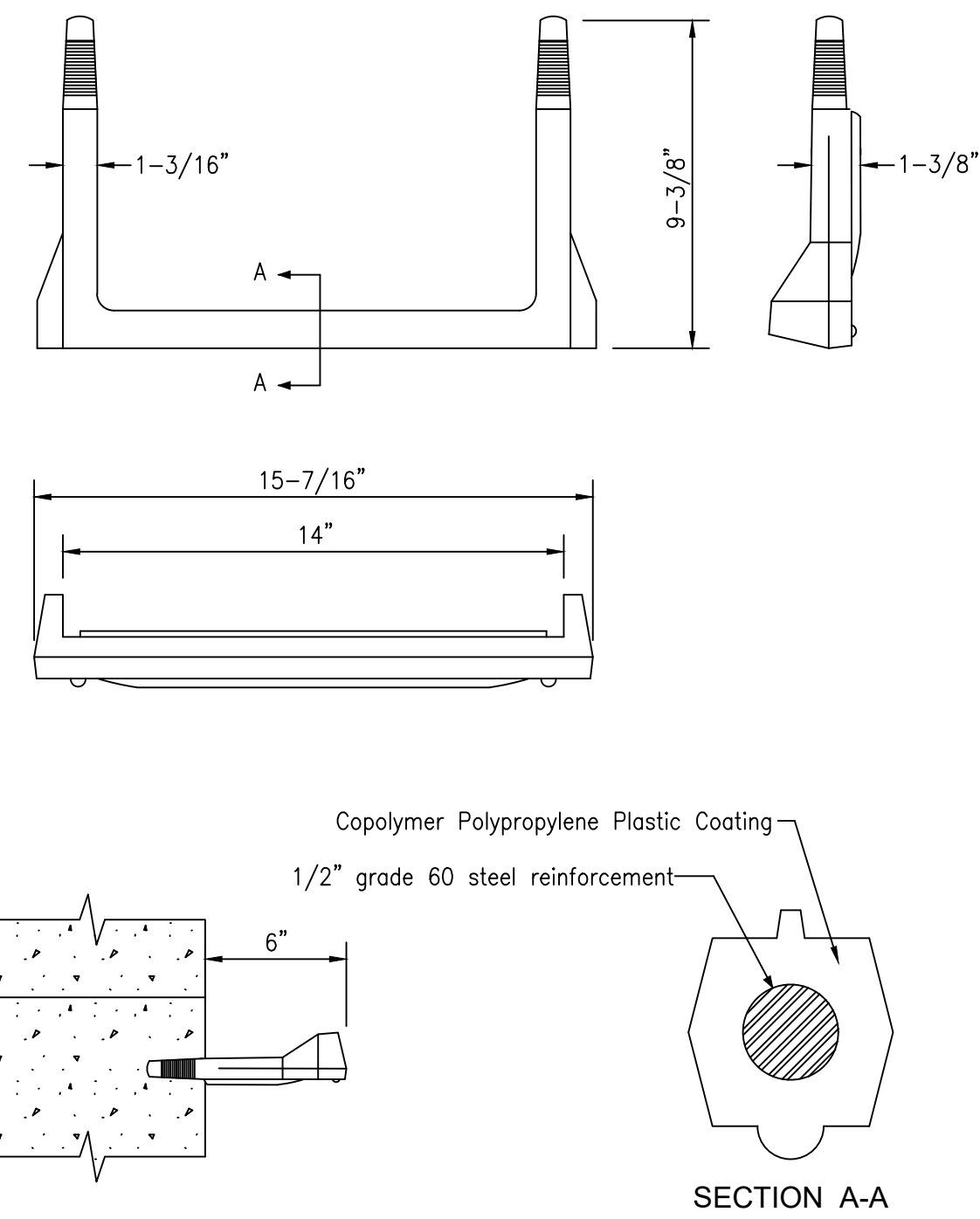
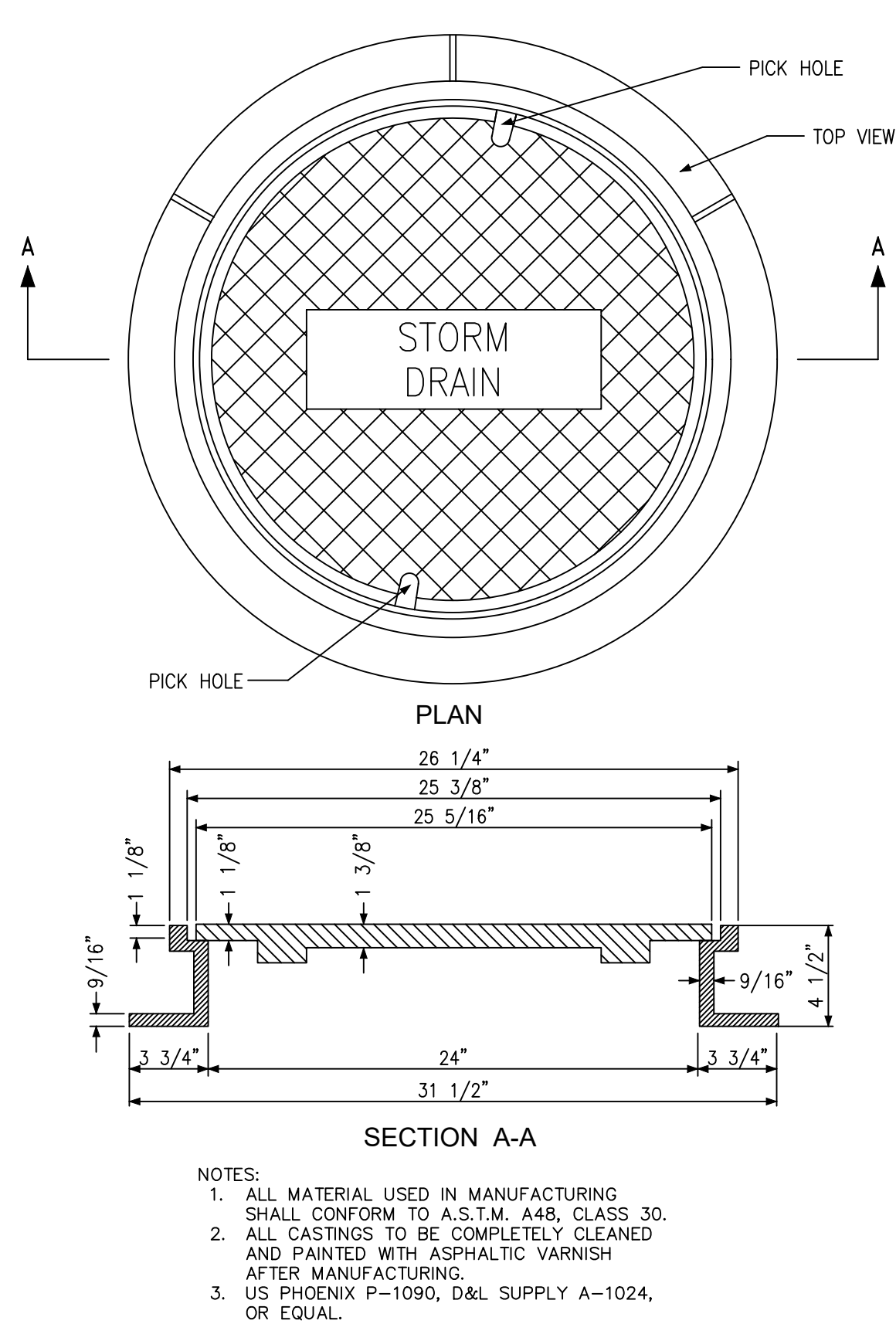
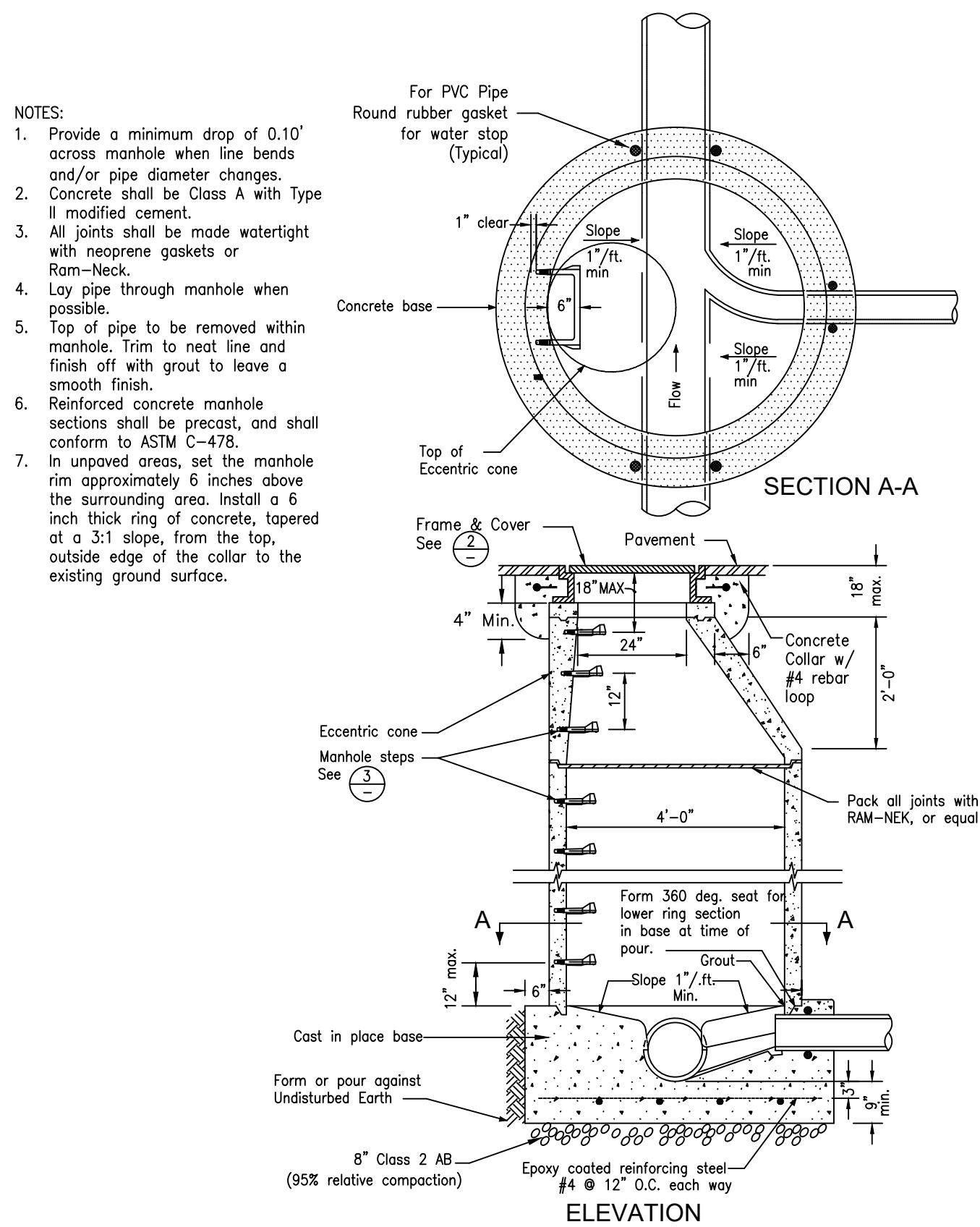
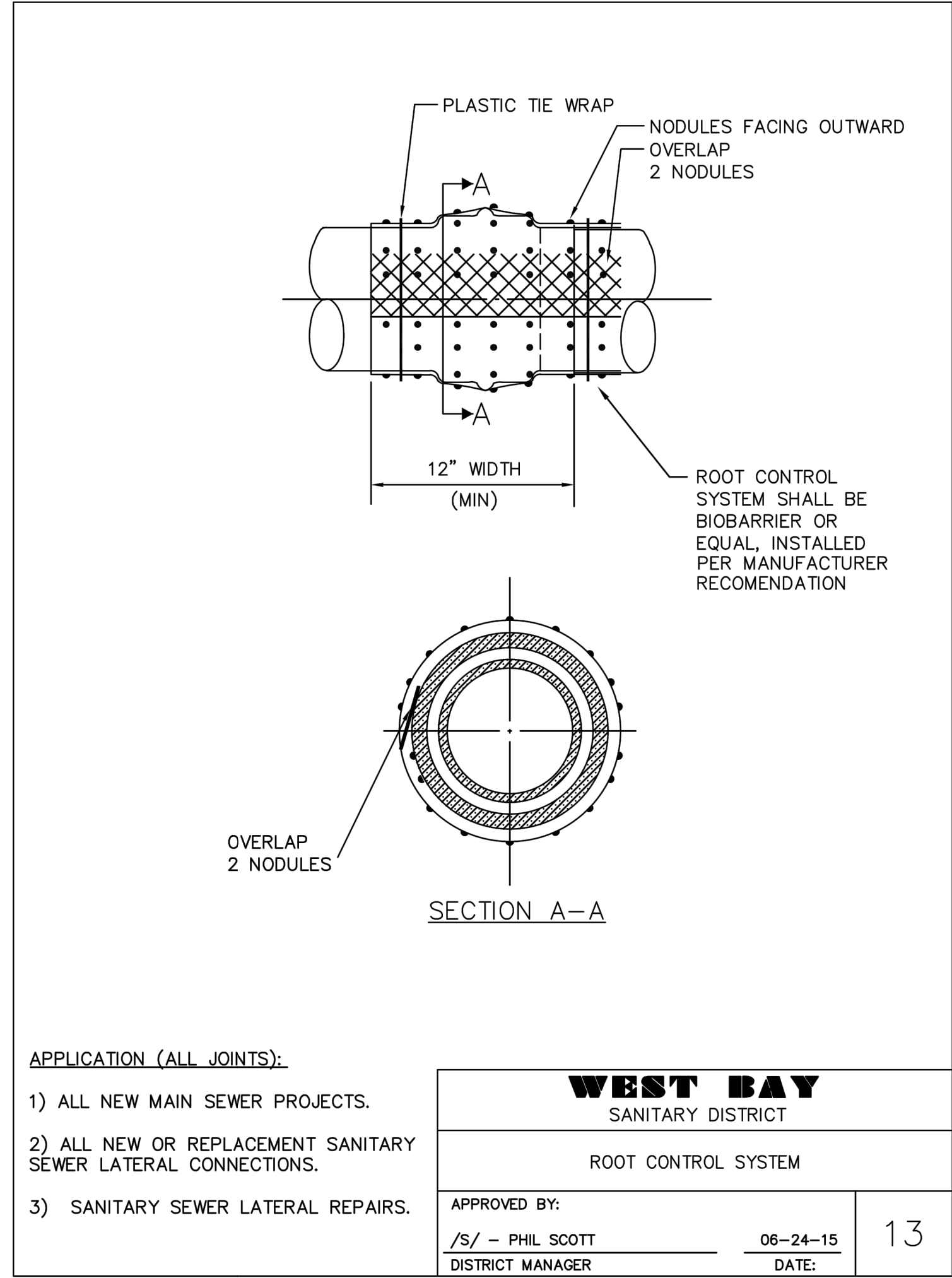
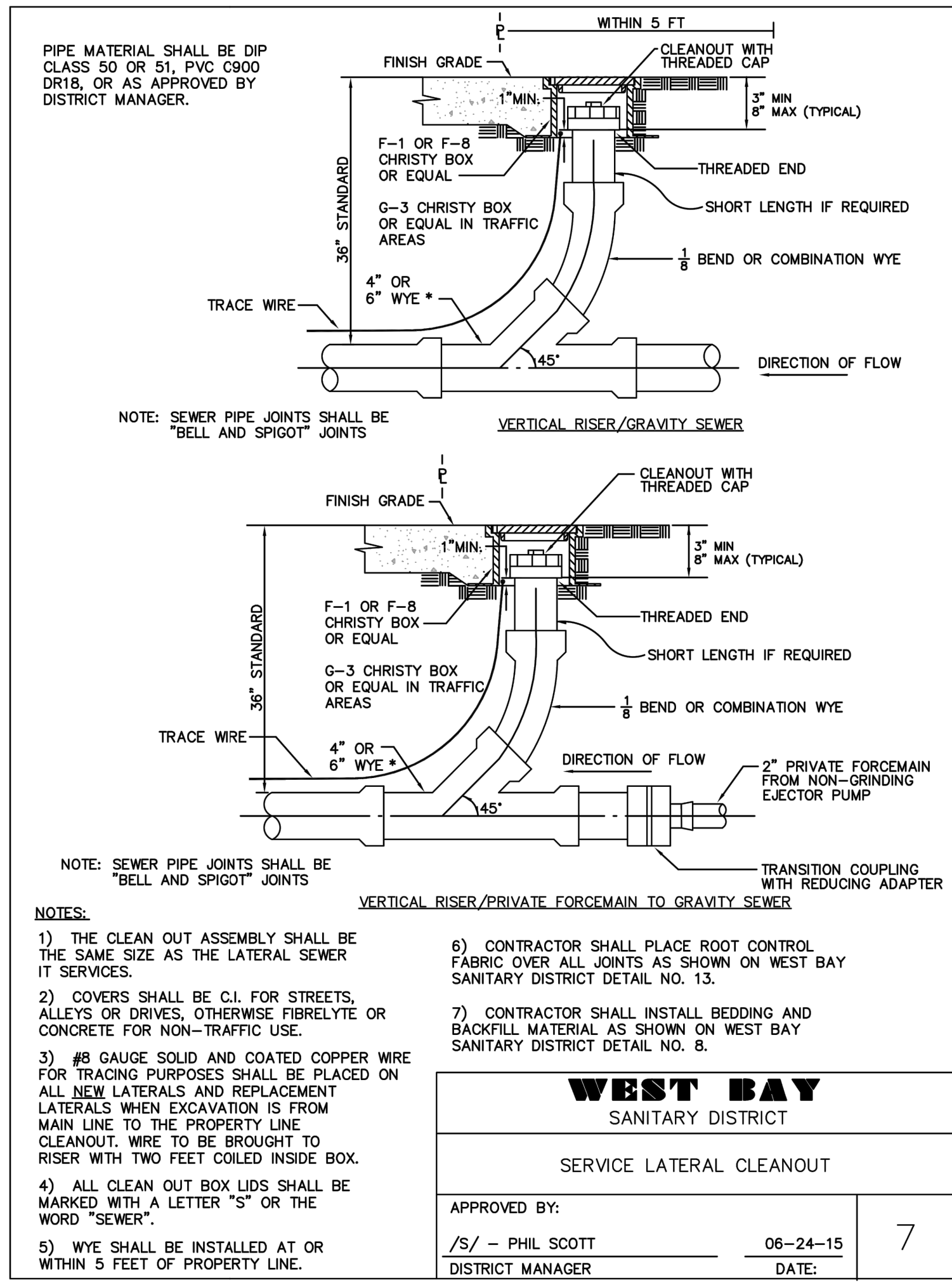
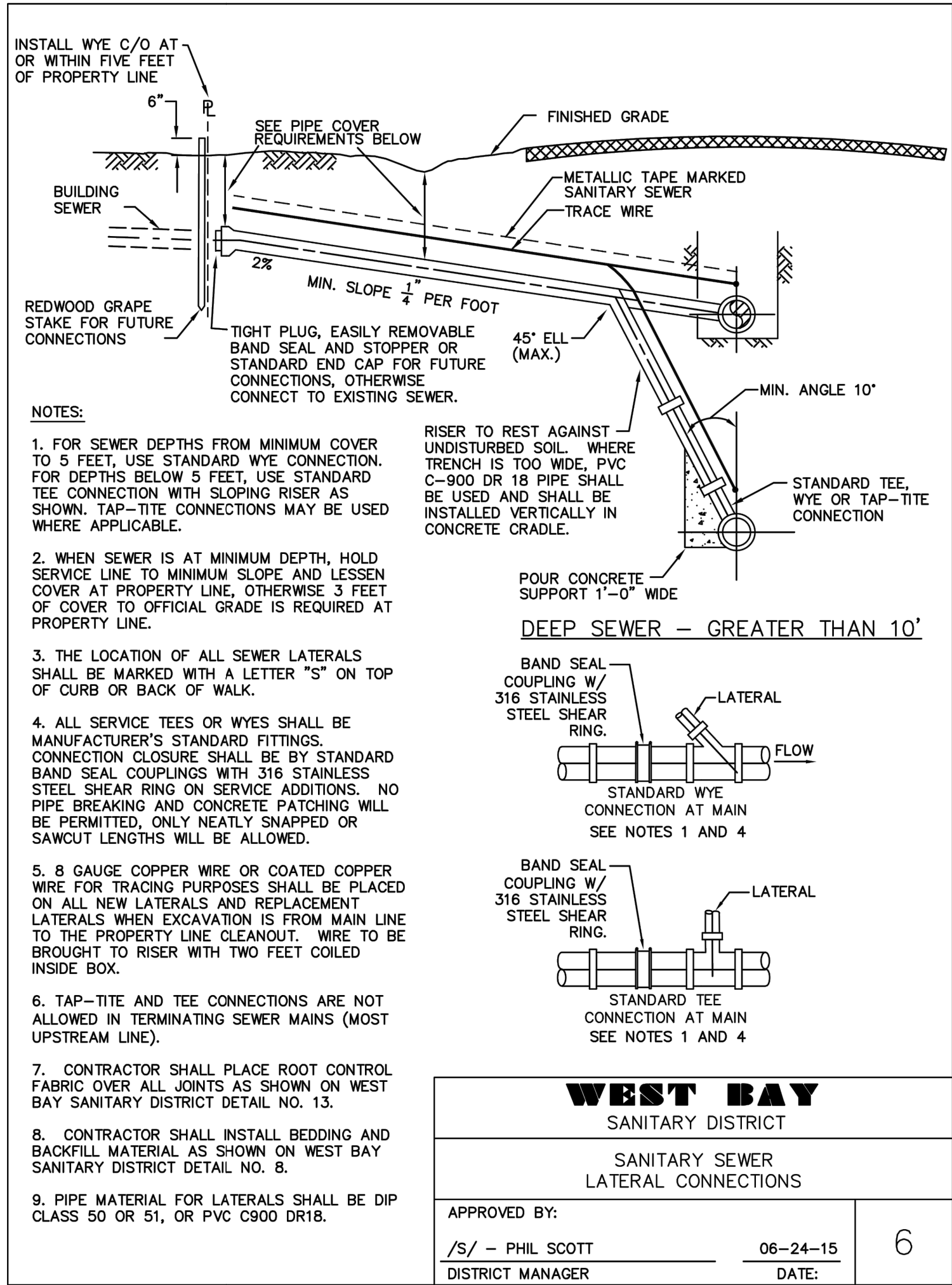
## DETAILS

C1.1









1

MANHOLE

N.T.S.

2

MANHOLE FRAME AND COVER

N.T.S.

3

MANHOLE STEP FOR PRECAST MANHOLE

N.T.S.

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3343 ALPINE ROAD  
PORTOLA VALLEY, CA

Scale

NONE

Drawing

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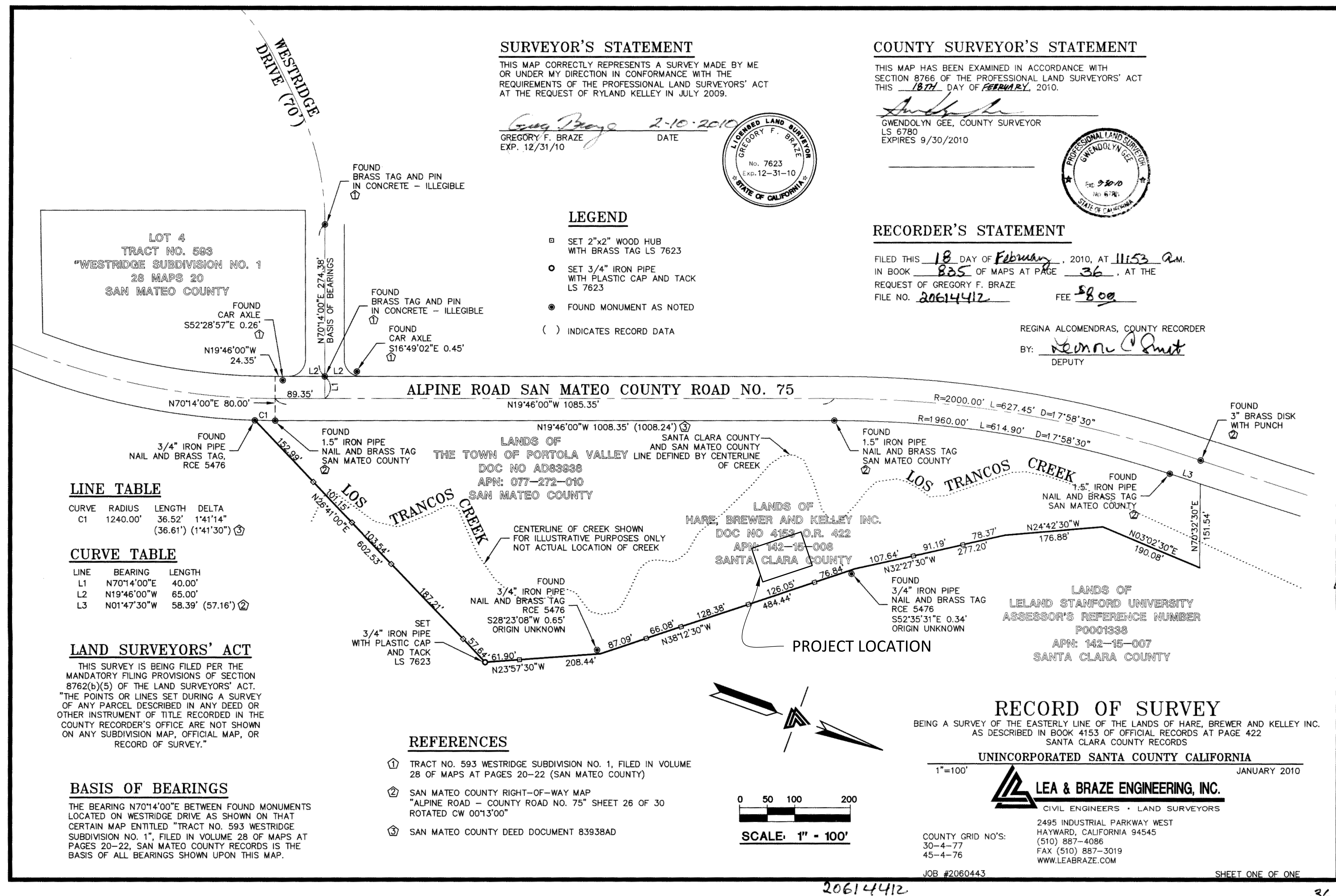
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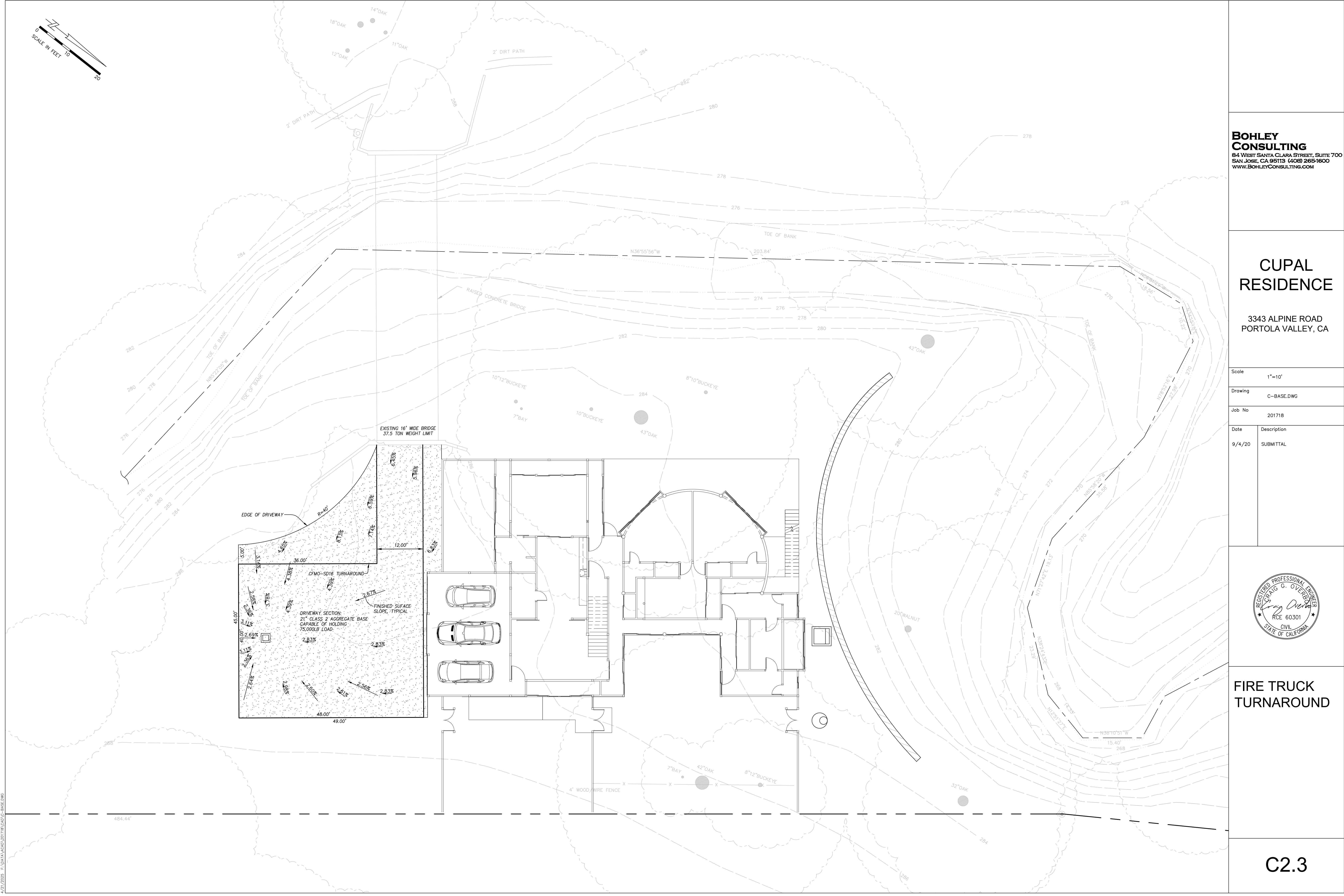
**DETAILS**

**C1.3**









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CUPAL  
RESIDENCE

3343 ALPINE ROAD  
PORTOLA VALLEY, CA

Scale	1"=10'
Drawing	C-BASE.DWG
Job No	201718
Date	9/4/20
Description	SUBMITTAL



FIRE TRUCK  
TURNAROUND



NOTES:

NO GRADING IS TAKING PLACE ON SITE EXCEPT THAT WHICH IS REQUIRED FOR THE CONSTRUCTION OF THE HOUSE AND THE DRIVEWAY. CARE HAS BEEN TAKEN TO MINIMIZE THE DISTURBANCE TO THE SITE.

NO KNOWN FAULT LINES EXTEND THROUGH THE PROJECT SITE. THE MONTE VISTA-SHANNON FAULT IS APPROXIMATELY 0.3 MILES SW OF THE SITE. THE SAN ANDREAS FAULT IS APPROXIMATELY 2.2 MILES SW OF THE SITE.

THE SITE IS WITHIN THE LIQUEFACTION ZONE PER THE COUNTY GEOLOGIC HAZARD ZONE MAPS, BUT THE SOILS REPORT INDICATES THAT PER SITE-SPECIFIC INVESTIGATION, THE POTENTIAL FOR LIQUEFACTION IS VERY LOW TO NEGLIGIBLE.

FLOOD HAZARD ZONES. PANELS 06085C0015H (EFFECTIVE DATE 5/18/2009) AND 06081C0314E (EFFECTIVE DATE 10/16/2012). LINEWORK SHOWN IS FEMA GIS DATA. ZONE A: SPECIAL FLOOD HAZARD AREA, WITHOUT BASE FLOOD ELEVATION. ZONE D: AREA OF UNDETERMINED FLOOD HAZARD. ZONE X: AREA OF MINIMAL FLOOD HAZARD.

IMPERVIOUS SURFACE (SQUARE FEET)		
	EXISTING	PROPOSED
DRIVEWAY	2165	2931
RESIDENCE	0	4713
NET		5479 INCREASE

EARTHWORK QUANTITIES

	CUT (CUBIC YARDS)	FILL (CUBIC YARDS)	NET (CUBIC YARDS)	MAX HEIGHT OF CUT AND FILL
DRIVEWAY CUT AND FILL SLOPES	11	2	9 CUT	CUT 1.5' FILL 1.0'
DRIVEWAY EXCAVATION FOR ROCK SECTION IMPORT OF ROCK SECTION	253	190	63 CUT	CUT 3.3' FILL 1.1'
RESIDENCE CRAWL SPACE = FF-3.0' MIN. NO FILL UNDER RESIDENCE	175	0	175 CUT	CUT 3.8' FILL 0.0'
LANDSCAPING	0	0	0	0
CREEK OUTFALL	4	0	0	CUT 0.5' FILL 0.0'
TOTAL GRADING QUANTITY	443	192	251 CUT	

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CUPAL  
RESIDENCE

3343 ALPINE ROAD  
PORTOLA VALLEY, CA

Scale  
1"=10'

Drawing  
C-BASE.DWG

Job No  
201718

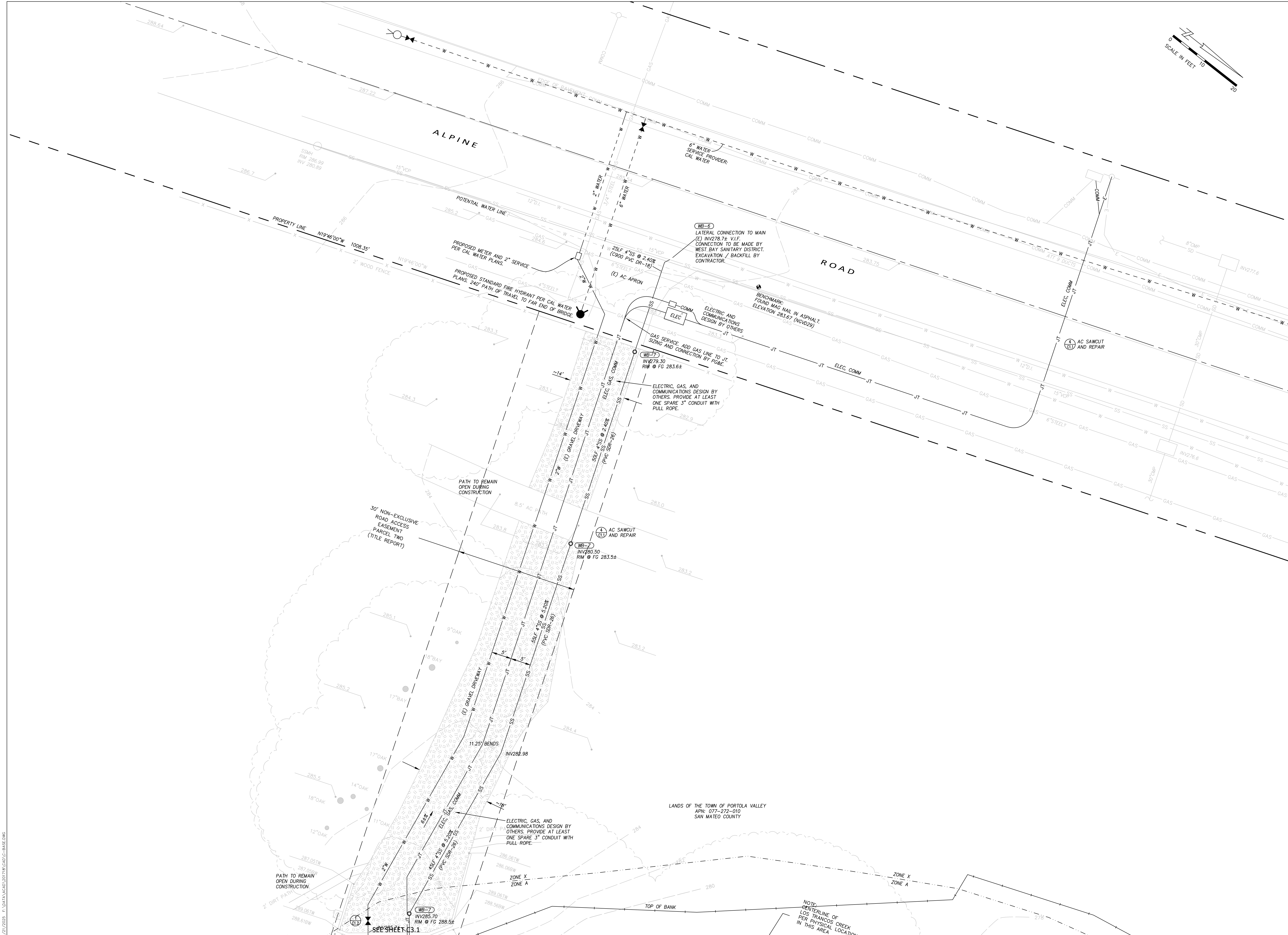
Date	Description
9/4/20	SUBMITTAL
4/21/25	CONST. ACCESS TO CREEK



GRADING AND  
UTILITY PLAN

C3.1





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## CUPAL RESIDENCE

3343 ALPINE ROAD  
PORTOLA VALLEY, CA

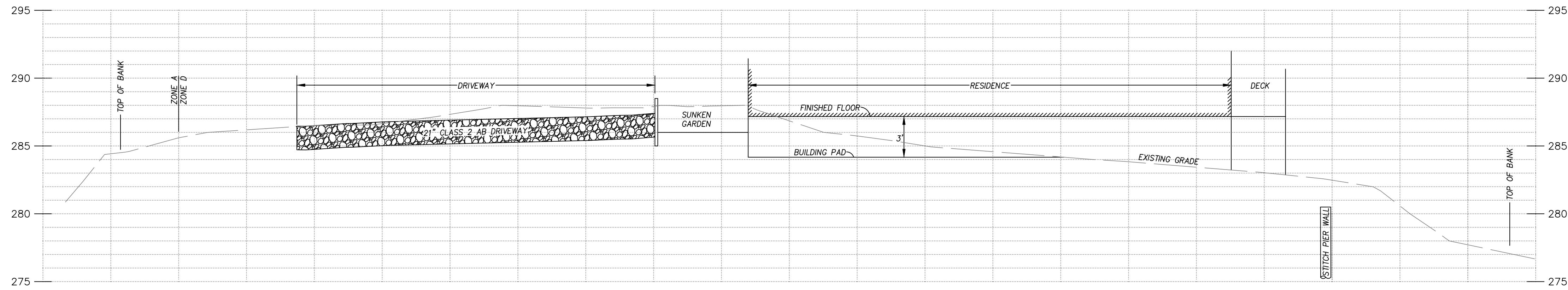
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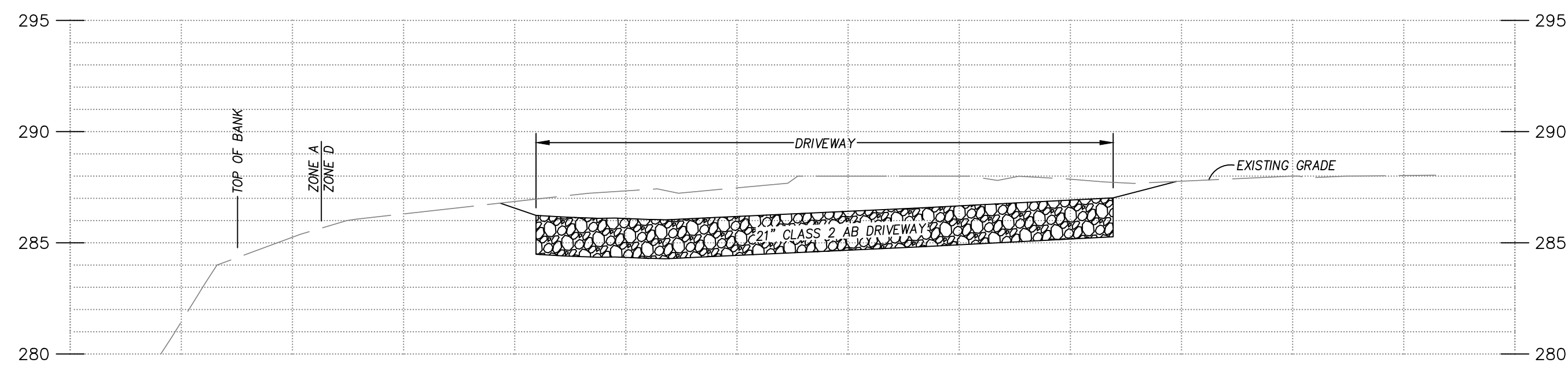
## GRADING AND UTILITY PLAN

C3.2

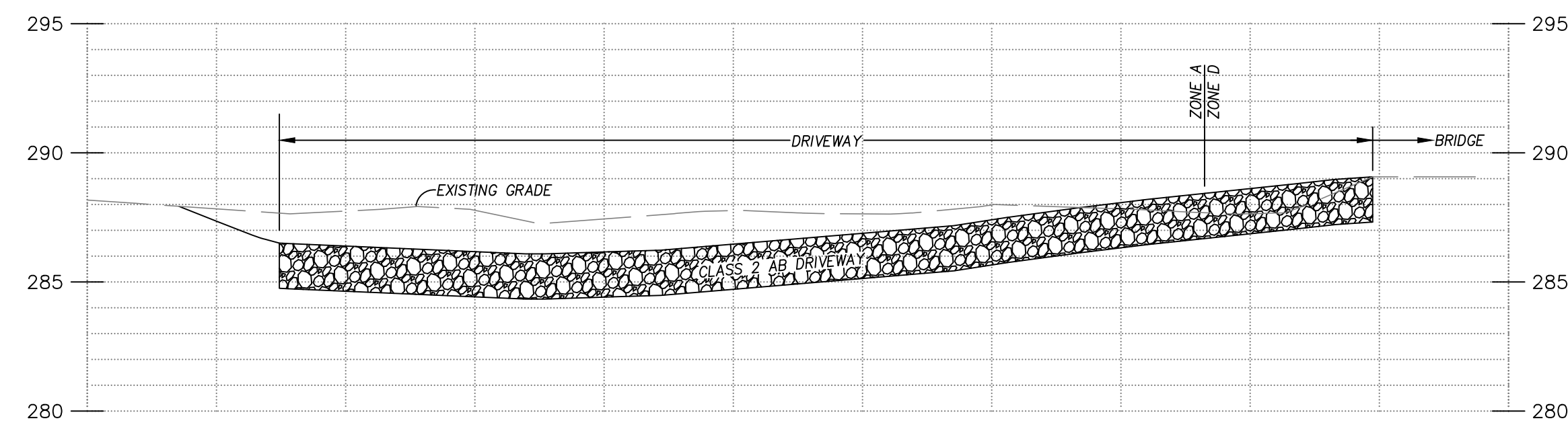




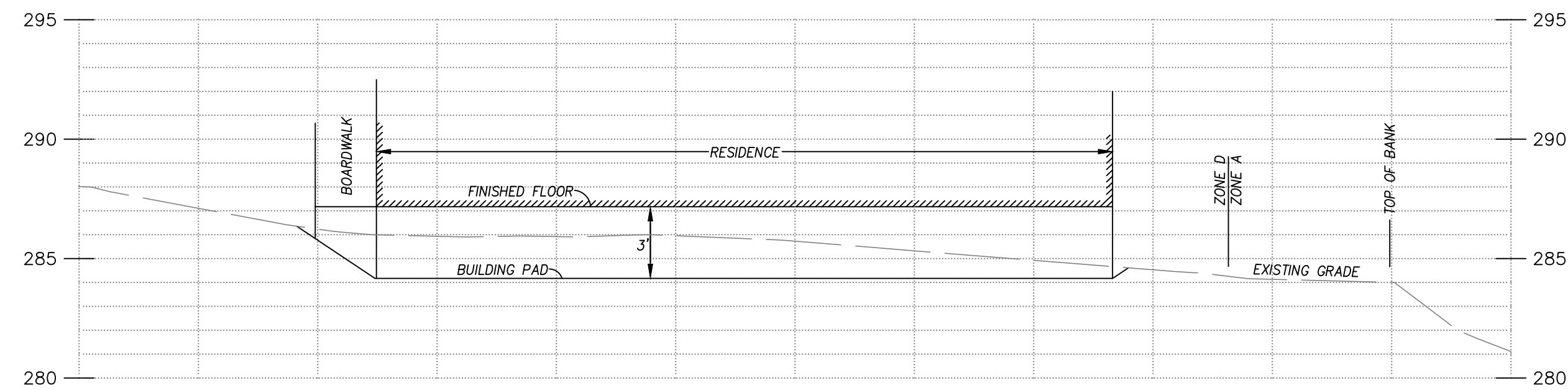
SECTION A-A  
HORIZ 1"=10'  
VERT 1"=5'



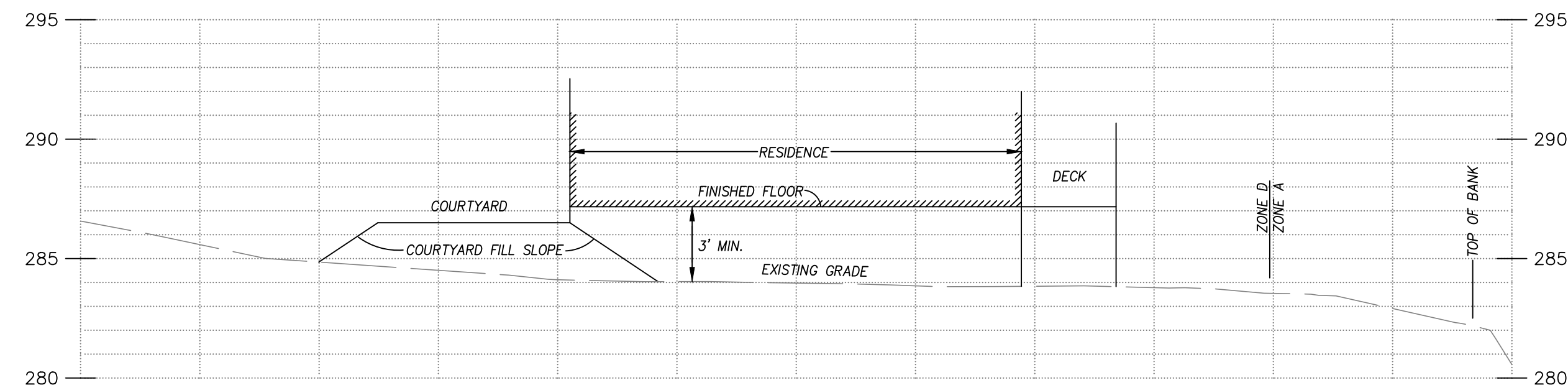
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HORIZ 1"=10'  
VERT 1"=5'



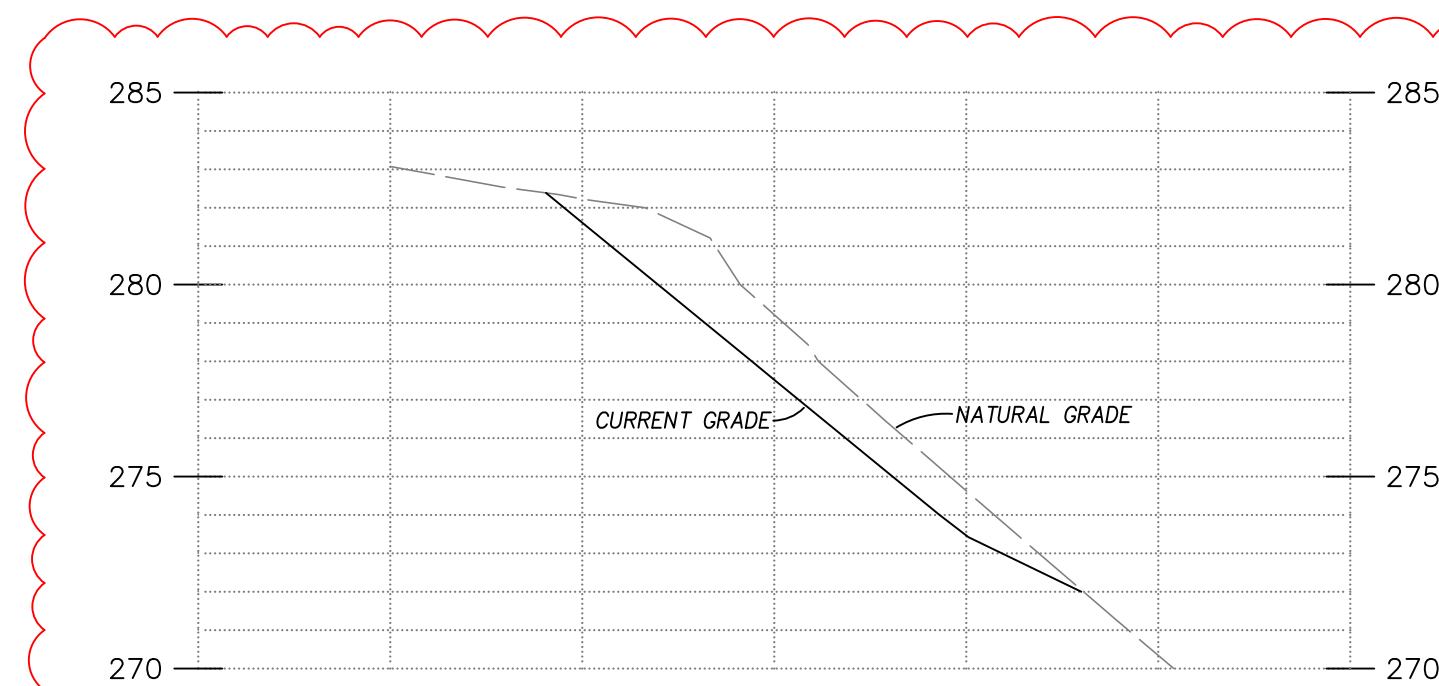
SECTION C-C  
HORIZ 1"=10'  
VERT 1"=5'



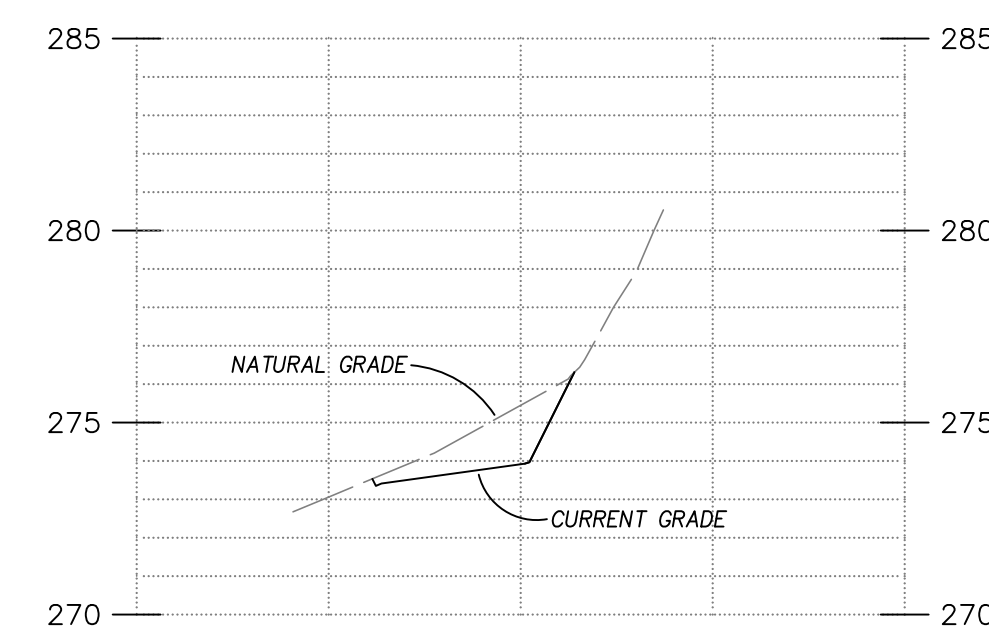
SECTION D-D  
HORIZ 1"=10'  
VERT 1"=5'



SECTION E-E  
HORIZ 1"=10'  
VERT 1"=5'



SECTION F-F  
HORIZ 1"=10'  
VERT 1"=5'



SECTION G-G  
HORIZ 1"=10'  
VERT 1"=5'

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## CUPAL RESIDENCE

3343 ALPINE ROAD  
PORTOLA VALLEY, CA

Scale AS SHOWN

Drawing C-BASE.DWG

Job No 201718

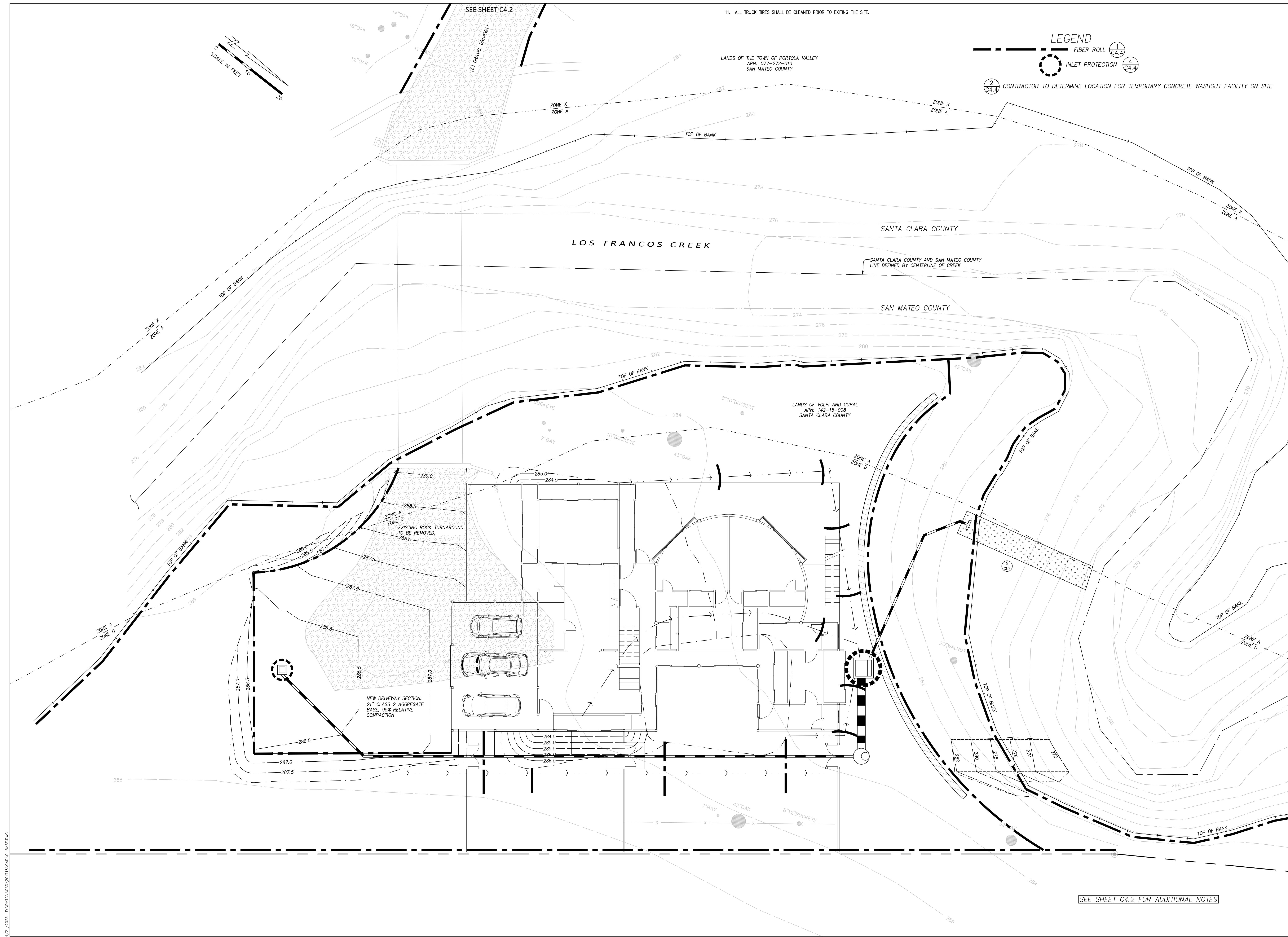
Date 9/4/20

Description SUBMITTAL  
CONST. ACCESS TO CREEK



## SECTIONS

C3.3



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**CUPAL RESIDENCE**

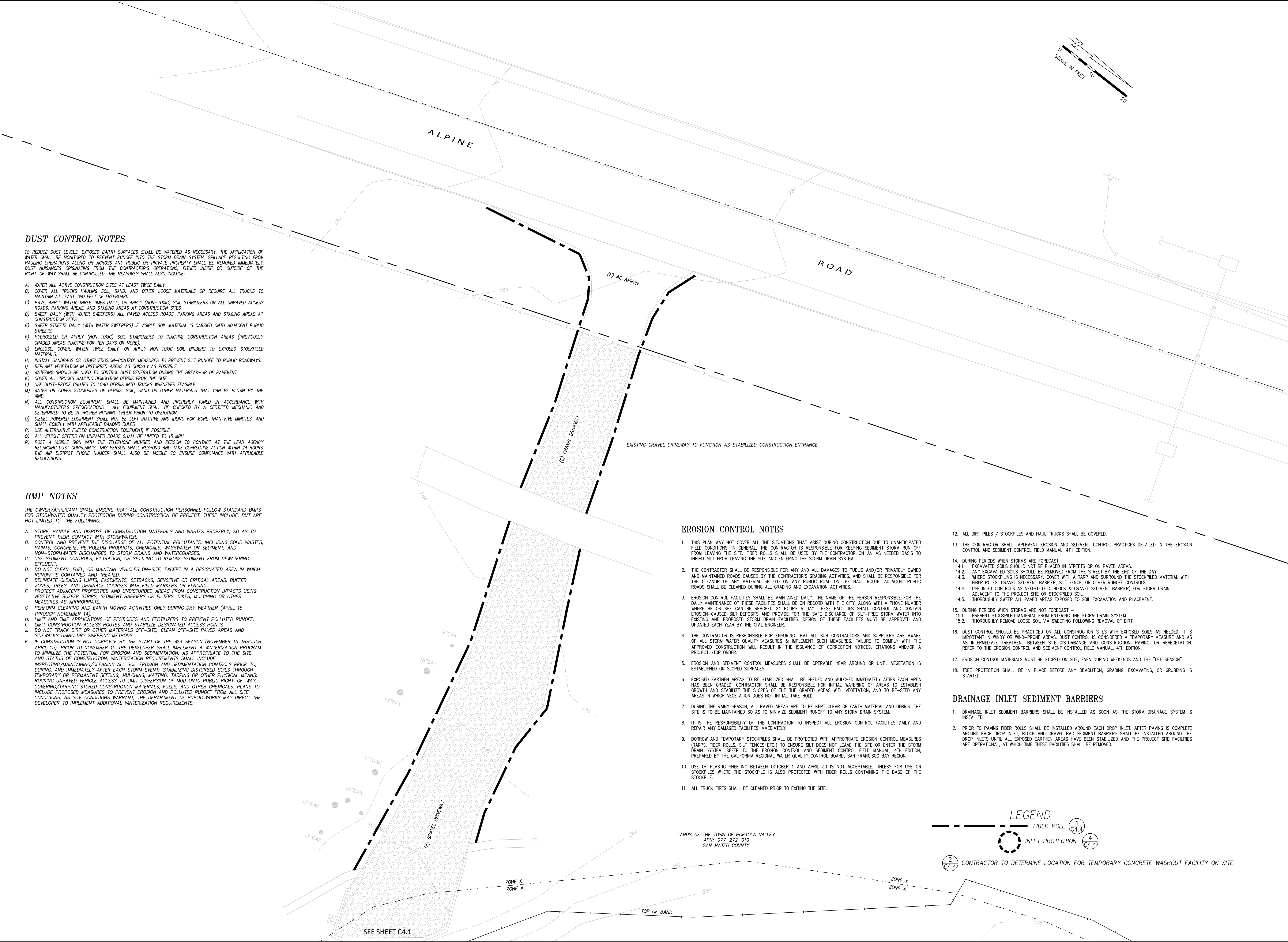
3343 ALPINE ROAD  
PORTOLA VALLEY, CA

Scale	1"=10'
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**EROSION CONTROL PLAN**





DUST CONTROL NOTES

- TO REDUCE DUST LEVELS, EXPOSED EARTH SURFACES SHALL BE WATERED AS NECESSARY. THE APPLICATION OF WATER SHALL BE MONITORED TO PREVENT RUNOFF INTO THE STORM DRAIN SYSTEM. SPILLAGE RESULTING FROM HAULING OPERATIONS ALONG OR ACROSS ANY PUBLIC OR PRIVATE PROPERTY SHALL BE REMOVED IMMEDIATELY. DUST NUISANCES ORIGINATING FROM THE CONTRACTOR'S OPERATIONS, EITHER INSIDE OR OUTSIDE OF THE RIGHT-OF-WAY SHALL BE CONTROLLED. THE MEASURES SHALL ALSO INCLUDE:
- A) WATER ALL ACTIVE CONSTRUCTION SITES AT LEAST TWICE DAILY.
  - B) COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.
  - C) PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY (NON-TOXIC) SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT CONSTRUCTION SITES.
  - D) SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES.
  - E) SWEEP STREETS DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS.
  - F) HYDROSEED OR APPLY (NON-TOXIC) SOIL STABILIZERS TO INACTIVE CONSTRUCTION AREAS (PREVIOUSLY GRADED AREAS INACTIVE FOR TEN DAYS OR MORE).
  - G) ENCLOSE, COVER, WATER TWICE DAILY, OR APPLY NON-TOXIC SOIL BINDERS TO EXPOSED STOCKPILED MATERIALS.
  - H) INSTALL SANDBAGS OR OTHER EROSION-CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
  - I) REPLANT VEGETATION IN DISTURBED AREAS AS QUICKLY AS POSSIBLE.
  - J) WATERING SHOULD BE USED TO CONTROL DUST GENERATION DURING THE BREAK-UP OF PAVEMENT.
  - K) COVER ALL TRUCKS HAULING DEMOLITION DEBRIS FROM THE SITE.
  - L) USE DUST-PROOF CHUTES TO LOAD DEBRIS INTO TRUCKS WHENEVER FEASIBLE.
  - M) WATER OR COVER STOCKPILES OF DEBRIS, SOIL, SAND OR OTHER MATERIALS THAT CAN BE BLOWN BY THE WIND.
  - N) ALL CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED AND PROPERLY TUNED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ALL EQUIPMENT SHALL BE CHECKED BY A CERTIFIED MECHANIC AND DETERMINED TO BE IN PROPER RUNNING ORDER PRIOR TO OPERATION.
  - O) DIESEL POWERED EQUIPMENT SHALL NOT BE LEFT INACTIVE AND IDLING FOR MORE THAN FIVE MINUTES, AND SHALL COMPLY WITH APPLICABLE BAAQMD RULES.
  - P) USE ALTERNATIVE FUELED CONSTRUCTION EQUIPMENT, IF POSSIBLE.
  - Q) ALL VEHICLE SPEEDS ON UNPAVED ROADS SHALL BE LIMITED TO 15 MPH.
  - R) POST A VISIBLE SIGN WITH THE TELEPHONE NUMBER AND PERSON TO CONTACT AT THE LEAD AGENCY REGARDING DUST COMPLAINTS. THIS PERSON SHALL RESPOND AND TAKE CORRECTIVE ACTION WITHIN 24 HOURS. THE AIR DISTRICT PHONE NUMBER SHALL ALSO BE VISIBLE TO ENSURE COMPLIANCE WITH APPLICABLE REGULATIONS.

BMP NOTES

- THE OWNER/APPLICANT SHALL ENSURE THAT ALL CONSTRUCTION PERSONNEL FOLLOW STANDARD BMPs FOR STORMWATER QUALITY PROTECTION DURING CONSTRUCTION OF PROJECT. THESE INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
- A. STORE, HANDLE AND DISPOSE OF CONSTRUCTION MATERIALS AND WASTES PROPERLY, SO AS TO PREVENT THEIR CONTACT WITH STORMWATER.
  - B. CONTROL AND PREVENT THE DISCHARGE OF ALL POTENTIAL POLLUTANTS, INCLUDING SOLID WASTES, PAINTS, CONCRETE, PETROLEUM PRODUCTS, CHEMICALS, WASHWATER OR SEDIMENT, AND NON-STORMWATER DISCHARGES TO STORM DRAINS AND WATERCOURSES.
  - C. USE SEDIMENT CONTROLS, FILTRATION, OR SETTLING TO REMOVE SEDIMENT FROM DEWATERING EFFLUENT.
  - D. DO NOT CLEAN, FUEL, OR MAINTAIN VEHICLES ON-SITE, EXCEPT IN A DESIGNATED AREA IN WHICH RUNOFF IS CONTAINED AND TREATED.
  - E. DELINEATE CLEARING LIMITS, EASEMENTS, SETBACKS, SENSITIVE OR CRITICAL AREAS, BUFFER ZONES, TREES, AND DRAINAGE COURSES WITH FIELD MARKERS OR FENCING.
  - F. PROTECT ADJACENT PROPERTIES AND UNDISTURBED AREAS FROM CONSTRUCTION IMPACTS USING VEGETATIVE BUFFER STRIPS, SEDIMENT BARRIERS OR FILTERS, DIKES, MULCHING OR OTHER MEASURES AS APPROPRIATE.
  - G. PERFORM CLEARING AND EARTH MOVING ACTIVITIES ONLY DURING DRY WEATHER (APRIL 15 THROUGH NOVEMBER 14).
  - H. LIMIT AND TIME APPLICATIONS OF PESTICIDES AND FERTILIZERS TO PREVENT POLLUTED RUNOFF.
  - I. LIMIT CONSTRUCTION ACCESS ROUTES AND STABILIZE DESIGNATED ACCESS POINTS.
  - J. DO NOT TRACK DIRT OR OTHER MATERIALS OFF-SITE; CLEAN OFF-SITE PAVED AREAS AND SIDEWALKS USING DRY SWEEPING METHODS.
  - K. IF CONSTRUCTION IS NOT COMPLETE BY THE START OF THE WET SEASON (NOVEMBER 15 THROUGH APRIL 15), PRIOR TO NOVEMBER 15 THE DEVELOPER SHALL IMPLEMENT A WINTERIZATION PROGRAM TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION. AS APPROPRIATE TO THE SITE AND STATUS OF CONSTRUCTION, WINTERIZATION REQUIREMENTS SHALL INCLUDE INSPECTING/MAINTAINING/CLEANING ALL SOIL EROSION AND SEDIMENTATION CONTROLS PRIOR TO, DURING, AND IMMEDIATELY AFTER EACH STORM EVENT; STABILIZING DISTURBED SOILS THROUGH TEMPORARY OR PERMANENT SEEDING, MULCHING, MATING, TARPING OR OTHER PHYSICAL MEANS; ROCKING UNPAVED VEHICLE ACCESS TO LIMIT DISPERSION OF MUD ONTO PUBLIC RIGHT-OF-WAY; COVERING/TARPING STORED CONSTRUCTION MATERIALS, FUELS, AND OTHER CHEMICALS. PLANS TO INCLUDE PROPOSED MEASURES TO PREVENT EROSION AND POLLUTED RUNOFF FROM ALL SITE CONDITIONS. AS SITE CONDITIONS WARRANT, THE DEPARTMENT OF PUBLIC WORKS MAY DIRECT THE DEVELOPER TO IMPLEMENT ADDITIONAL WINTERIZATION REQUIREMENTS.

EROSION CONTROL NOTES

- THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. IN GENERAL, THE CONTRACTOR IS RESPONSIBLE FOR KEEPING SEDIMENT STORM RUN OFF FROM LEAVING THE SITE. FIBER ROLLS SHALL BE USED BY THE CONTRACTOR ON AN AS NEEDED BASIS TO INHIBIT SILT FROM LEAVING THE SITE AND ENTERING THE STORM DRAIN SYSTEM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES TO PUBLIC AND/OR PRIVATELY OWNED AND MAINTAINED ROADS CAUSED BY THE CONTRACTOR'S GRADING ACTIVITIES, AND SHALL BE RESPONSIBLE FOR THE CLEANUP OF ANY MATERIAL SPILLED ON ANY PUBLIC ROAD ON THE HAUL ROUTE. ADJACENT PUBLIC ROADS SHALL BE CLEANED DURING ALL GRADING AND EXCAVATION ACTIVITIES.
- EROSION CONTROL FACILITIES SHALL BE MAINTAINED DAILY. THE NAME OF THE PERSON RESPONSIBLE FOR THE DAILY MAINTENANCE OF THESE FACILITIES SHALL BE ON RECORD WITH THE CITY, ALONG WITH A PHONE NUMBER WHERE HE OR SHE CAN BE REACHED 24 HOURS A DAY. THESE FACILITIES SHALL CONTROL AND CONTAIN EROSION-CAUSED SILT DEPOSITS AND PROVIDE FOR THE SAFE DISCHARGE OF SILT-FREE STORM WATER INTO EXISTING AND PROPOSED STORM DRAIN FACILITIES. DESIGN OF THESE FACILITIES MUST BE APPROVED AND UPDATED EACH YEAR BY THE CIVIL ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SUB-CONTRACTORS AND SUPPLIERS ARE AWARE OF ALL STORM WATER QUALITY MEASURES & IMPLEMENT SUCH MEASURES. FAILURE TO COMPLY WITH THE APPROVED CONSTRUCTION WILL RESULT IN THE ISSUANCE OF CORRECTION NOTICES, CITATIONS AND/OR A PROJECT STOP ORDER.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE OPERABLE YEAR AROUND OR UNTIL VEGETATION IS ESTABLISHED ON SLOPED SURFACES.
- EXPOSED EARTHEN AREAS TO BE STABILIZED SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER EACH AREA HAS BEEN GRADED. CONTRACTOR SHALL BE RESPONSIBLE FOR INITIAL WATERING OF AREAS TO ESTABLISH GROWTH AND STABILIZE THE SLOPES OF THE GRADED AREAS WITH VEGETATION, AND TO RE-SEED ANY AREAS IN WHICH VEGETATION DOES NOT INITIAL TAKE HOLD.
- DURING THE RAINY SEASON, ALL PAVED AREAS ARE TO BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE IS TO BE MAINTAINED SO AS TO MINIMIZE SEDIMENT RUNOFF TO ANY STORM DRAIN SYSTEM.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT ALL EROSION CONTROL FACILITIES DAILY AND REPAIR ANY DAMAGED FACILITIES IMMEDIATELY.
- BORROW AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES (TARPS, FIBER ROLLS, SILT FENCES ETC.) TO ENSURE SILT DOES NOT LEAVE THE SITE OR ENTER THE STORM DRAIN SYSTEM. REFER TO THE EROSION CONTROL AND SEDIMENT CONTROL FIELD MANUAL, 4TH EDITION, PREPARED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, SAN FRANCISCO BAY REGION.
- USE OF PLASTIC SHEETING BETWEEN OCTOBER 1 AND APRIL 30 IS NOT ACCEPTABLE, UNLESS FOR USE ON STOCKPILES WHERE THE STOCKPILE IS ALSO PROTECTED WITH FIBER ROLLS CONTAINING THE BASE OF THE STOCKPILE.
- ALL TRUCK TIRES SHALL BE CLEANED PRIOR TO EXITING THE SITE.

- ALL DIRT PILES / STOCKPILES AND HAUL TRUCKS SHALL BE COVERED.
- THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL PRACTICES DETAILED IN THE EROSION CONTROL AND SEDIMENT CONTROL FIELD MANUAL, 4TH EDITION.
- DURING PERIODS WHEN STORMS ARE FORECAST –
  - EXCAVATED SOILS SHOULD NOT BE PLACED IN STREETS OR ON PAVED AREAS.
  - ANY EXCAVATED SOILS SHOULD BE REMOVED FROM THE STREET BY THE END OF THE DAY.
  - WHERE STOCKPILING IS NECESSARY, COVER WITH A TARP AND SURROUND THE STOCKPILED MATERIAL WITH FIBER ROLLS, GRAVEL, SEDIMENT BARRIER, SILT FENCE, OR OTHER RUNOFF CONTROLS.
  - USE INLET CONTROLS AS NEEDED (E.G. BLOCK & GRAVEL, SEDIMENT BARRIER) FOR STORM DRAIN ADJACENT TO THE PROJECT SITE OR STOCKPILED SOIL.
  - THOROUGHLY SWEEP ALL PAVED AREAS EXPOSED TO SOIL EXCAVATION AND PLACEMENT.
- DURING PERIODS WHEN STORMS ARE NOT FORECAST –
  - PREVENT STOCKPILED MATERIAL FROM ENTERING THE STORM DRAIN SYSTEM.
  - THOROUGHLY REMOVE LOOSE SOIL VIA SWEEPING FOLLOWING REMOVAL OF DIRT.
- DUST CONTROL SHOULD BE PRACTICED ON ALL CONSTRUCTION SITES WITH EXPOSED SOILS AS NEEDED. IT IS IMPORTANT IN WINDY OR WIND-PRONE AREAS. DUST CONTROL IS CONSIDERED A TEMPORARY MEASURE AND AS AN INTERMEDIATE TREATMENT BETWEEN SITE DISTURBANCE AND CONSTRUCTION, PAVING, OR REVEGETATION. REFER TO THE EROSION CONTROL AND SEDIMENT CONTROL FIELD MANUAL, 4TH EDITION.
- EROSION CONTROL MATERIALS MUST BE STORED ON SITE, EVEN DURING WEEKENDS AND THE "OFF SEASON".
- TREE PROTECTION SHALL BE IN PLACE BEFORE ANY DEMOLITION, GRADING, EXCAVATING, OR GRUBBING IS STARTED.

DRAINAGE INLET SEDIMENT BARRIERS

- DRAINAGE INLET SEDIMENT BARRIERS SHALL BE INSTALLED AS SOON AS THE STORM DRAINAGE SYSTEM IS INSTALLED.
- PRIOR TO PAVING FIBER ROLLS SHALL BE INSTALLED AROUND EACH DROP INLET. AFTER PAVING IS COMPLETE AROUND EACH DROP INLET, BLOCK AND GRAVEL BAG SEDIMENT BARRIERS SHALL BE INSTALLED AROUND THE DROP INLETS UNTIL ALL EXPOSED EARTHEN AREAS HAVE BEEN STABILIZED AND THE PROJECT SITE FACILITIES ARE OPERATIONAL, AT WHICH TIME THESE FACILITIES SHALL BE REMOVED.

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CUPAL RESIDENCE

3343 ALPINE ROAD  
PORTOLA VALLEY, CA

Scale 1"=10'

Drawing C-BASE.DWG

Job No 201718

Date 9/4/20 Description SUBMITTAL



EROSION CONTROL PLAN

C4.2



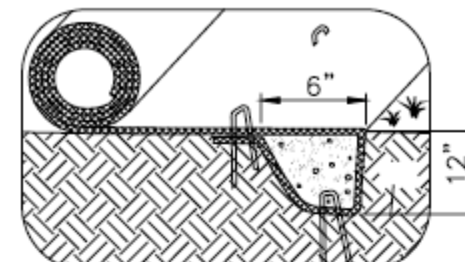
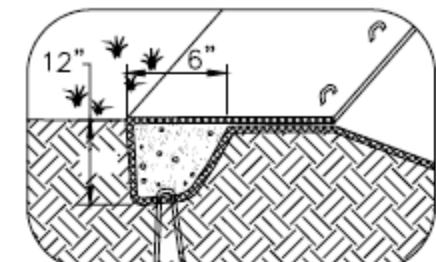
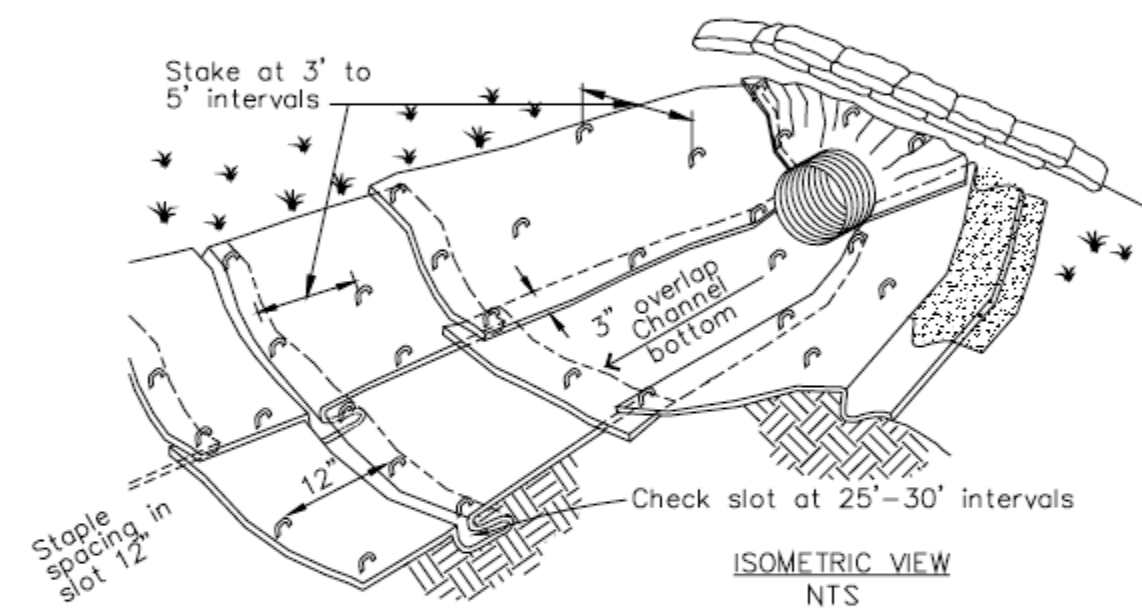
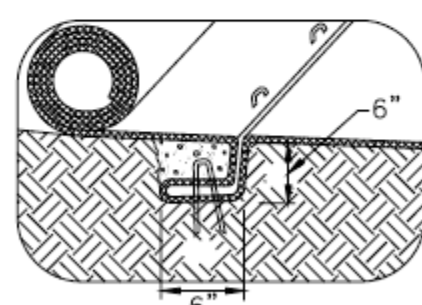
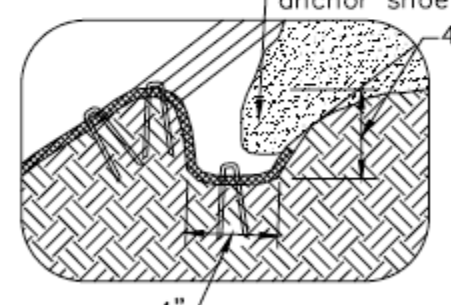




7

**Geotextiles and Mats**

CASQA Detail EC-7

INITIAL CHANNEL ANCHOR TRENCH  
NTSTERMINAL SLOPE AND CHANNEL  
ANCHOR TRENCH  
NTSISOMETRIC VIEW  
NTSINTERMITTENT CHECK SLOT  
NTSLONGITUDINAL ANCHOR TRENCH  
NTS

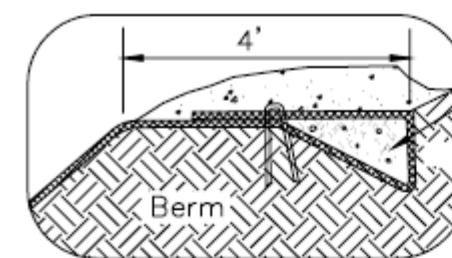
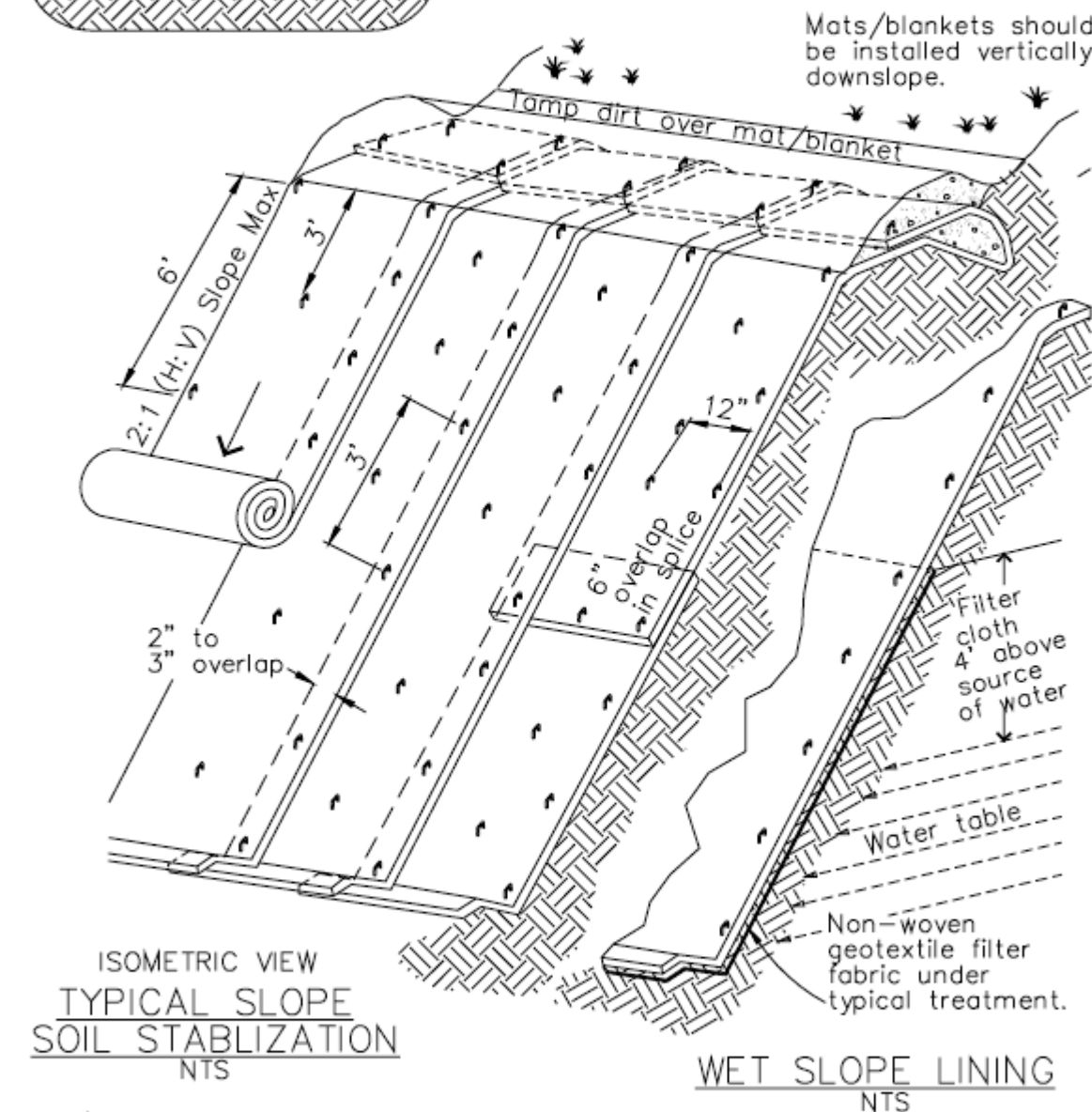
- NOTES:
1. Check slots to be constructed per manufacturers specifications.
  2. Staking or stapling layout per manufacturers specifications.
  3. Install per manufacturer's recommendations

TYPICAL INSTALLATION DETAIL

5

**Geotextiles and Mats**

CASQA Detail EC-7

6" X 6" anchor trench  
BermISOMETRIC VIEW  
TYPICAL SLOPE  
SOIL STABILIZATION  
NTSWET SLOPE LINING  
NTS

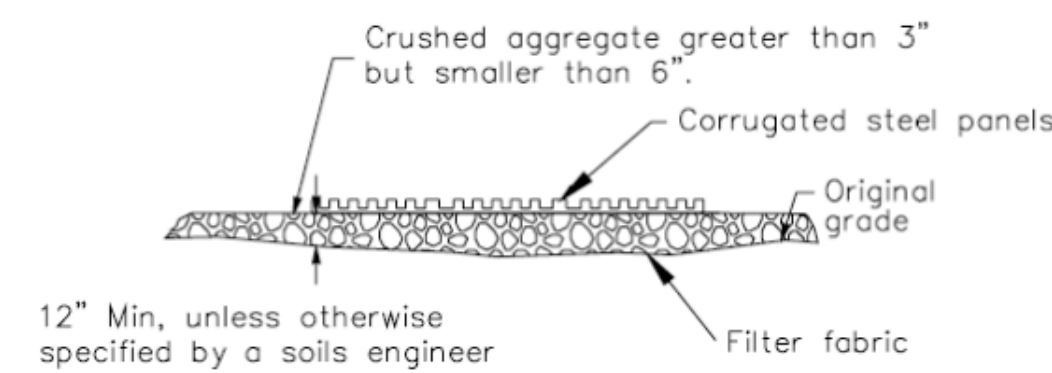
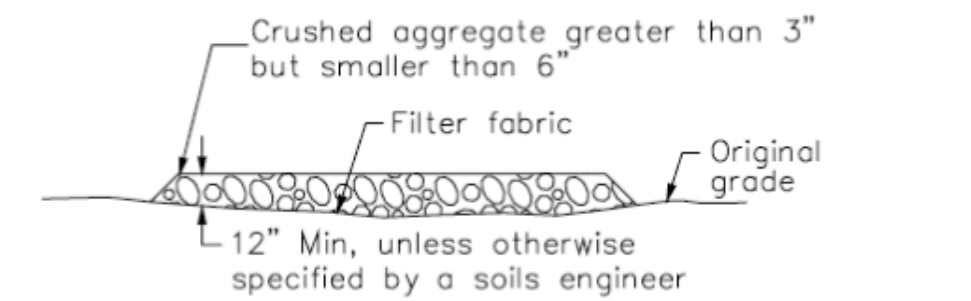
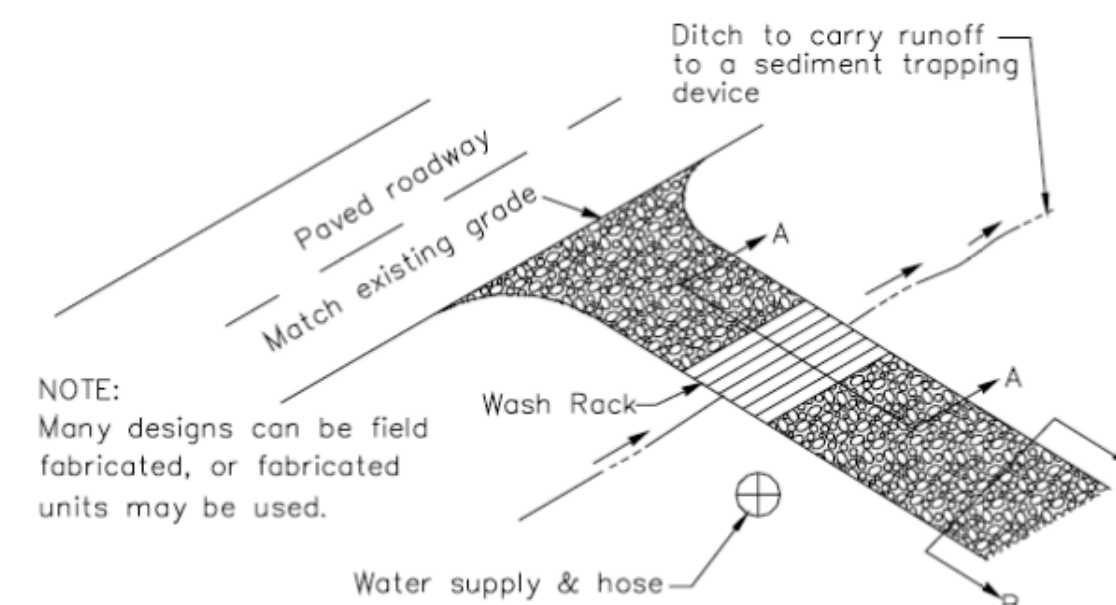
- NOTES:
1. Slope surface shall be free of rocks, clods, sticks and grass. Mats/blankets shall have good soil contact.
  2. Lay blankets loosely and stake or staple to maintain direct contact with the soil. Do not stretch.
  3. Install per manufacturer's recommendations

TYPICAL INSTALLATION DETAIL

3

**Entrance/Outlet Tire Wash**

CASQA Detail TC-3

SECTION A-A  
NOT TO SCALESECTION B-B  
NTS

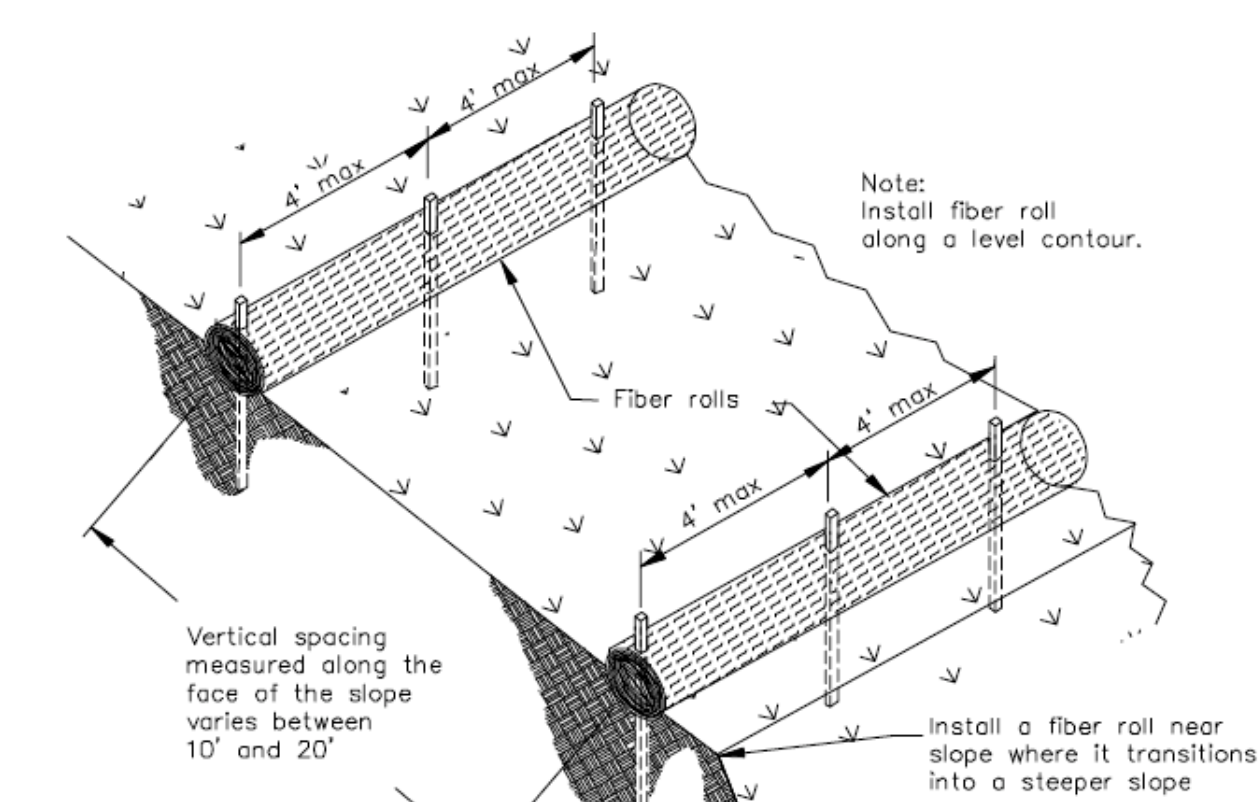
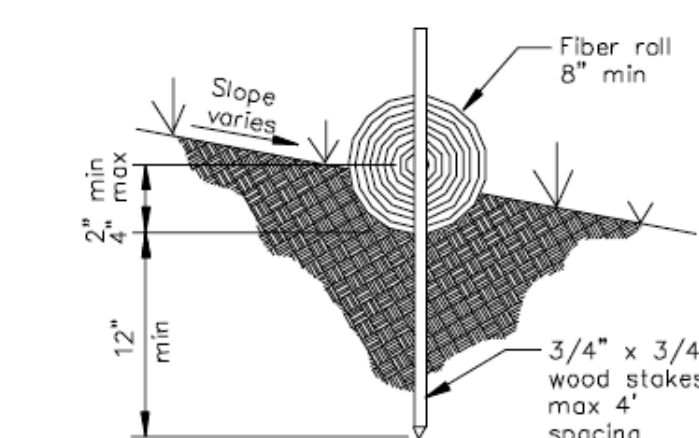
NOTE:  
Many designs can be field fabricated, or fabricated units may be used.

TYPICAL TIRE WASH  
NOT TO SCALE

1

**Fiber Rolls**

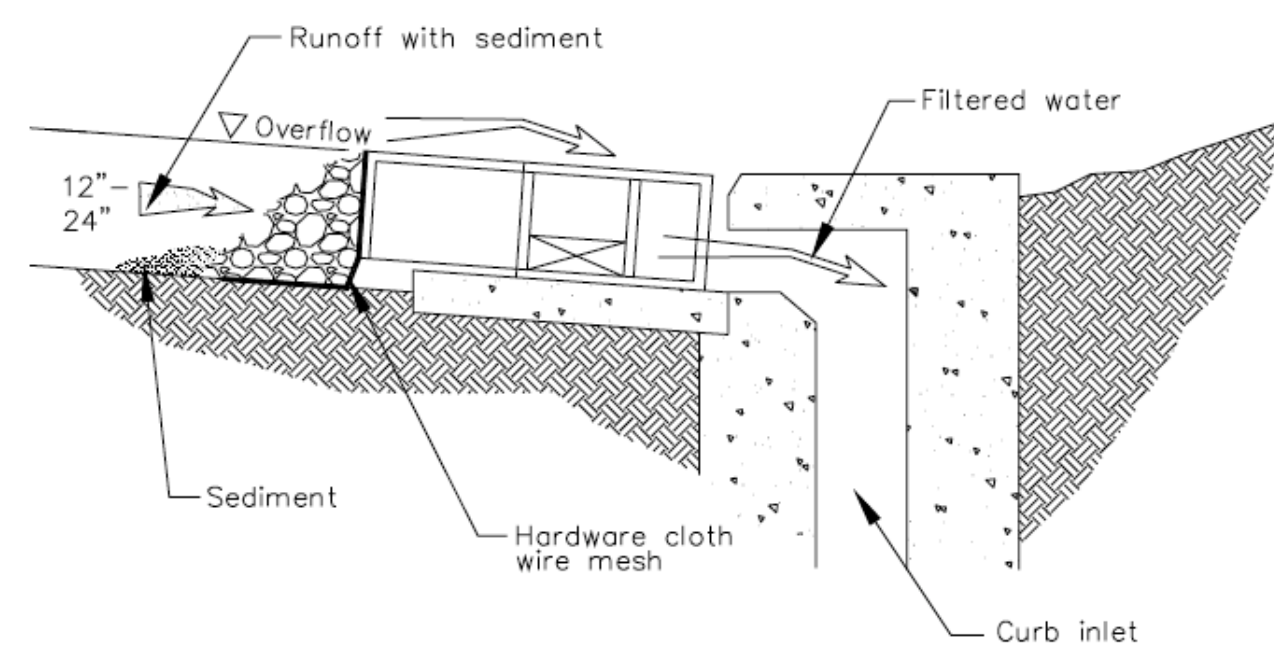
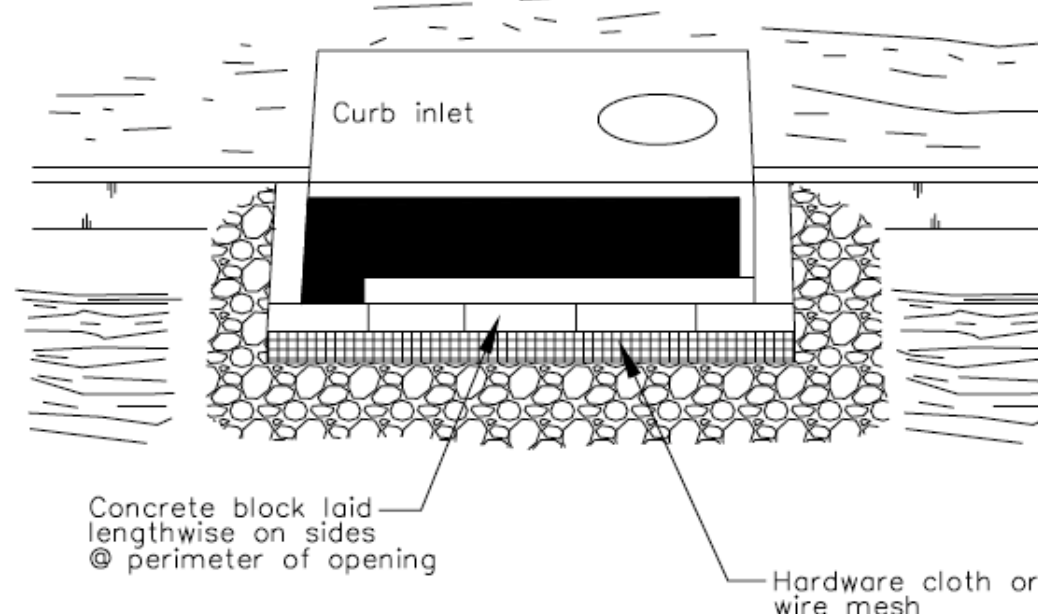
CASQA Detail SE-5

TYPICAL FIBER ROLL INSTALLATION  
N.T.S.ENTRENCHMENT DETAIL  
N.T.S.

8

**Storm Drain Inlet Protection**

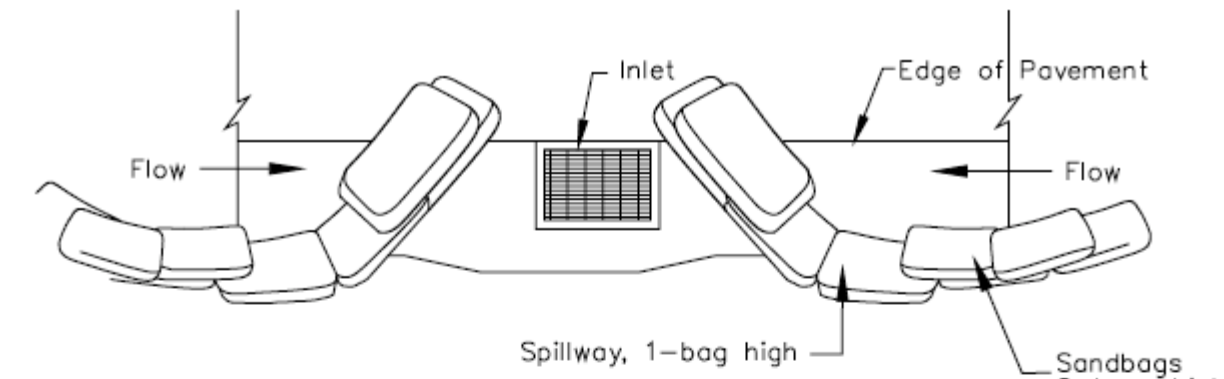
CASQA Detail SE-10

DI PROTECTION -- TYPE 4  
NOT TO SCALE

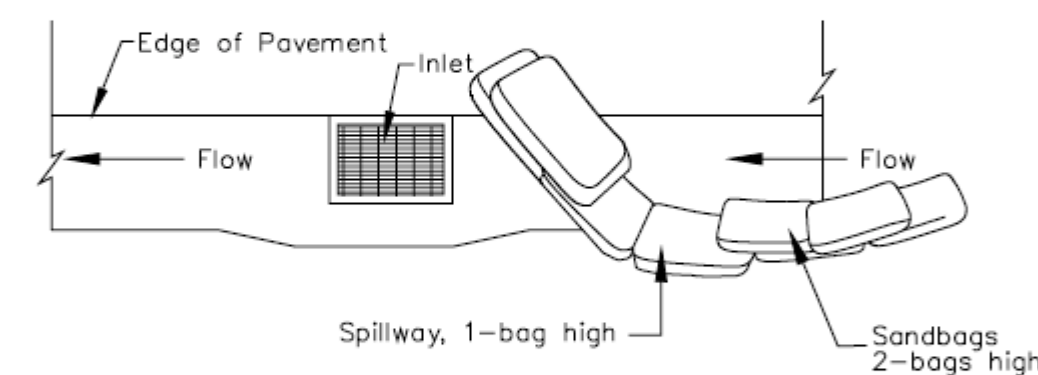
6

**Storm Drain Inlet Protection**

CASQA Detail SE-10



TYPICAL PROTECTION FOR INLET ON SUMP



TYPICAL PROTECTION FOR INLET ON GRADE

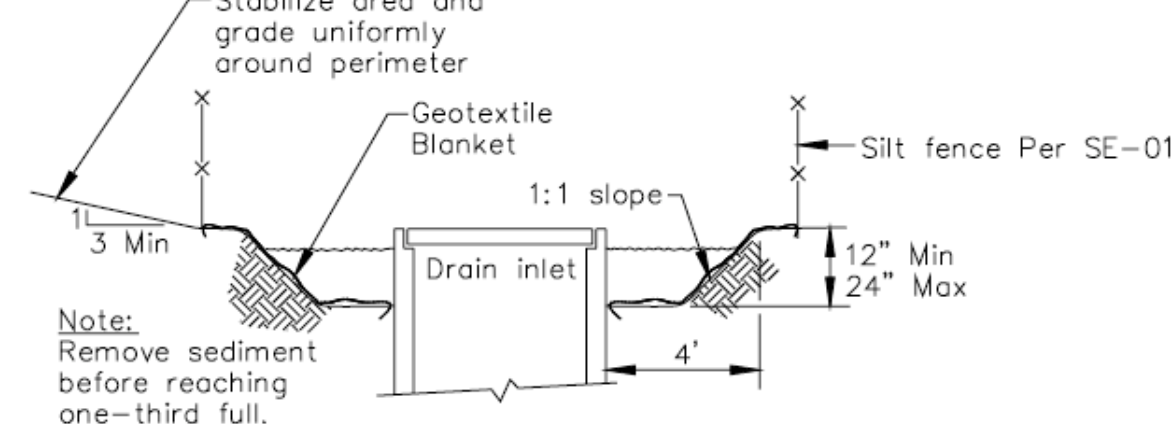
- NOTES:
1. Intended for short-term use.
  2. Use to inhibit non-storm water flow.
  3. Allow for proper maintenance and cleanup.
  4. Bags must be removed after adjacent operation is completed
  5. Not applicable in areas with high silts and clays without filter fabric.

DI PROTECTION TYPE 3  
NOT TO SCALE

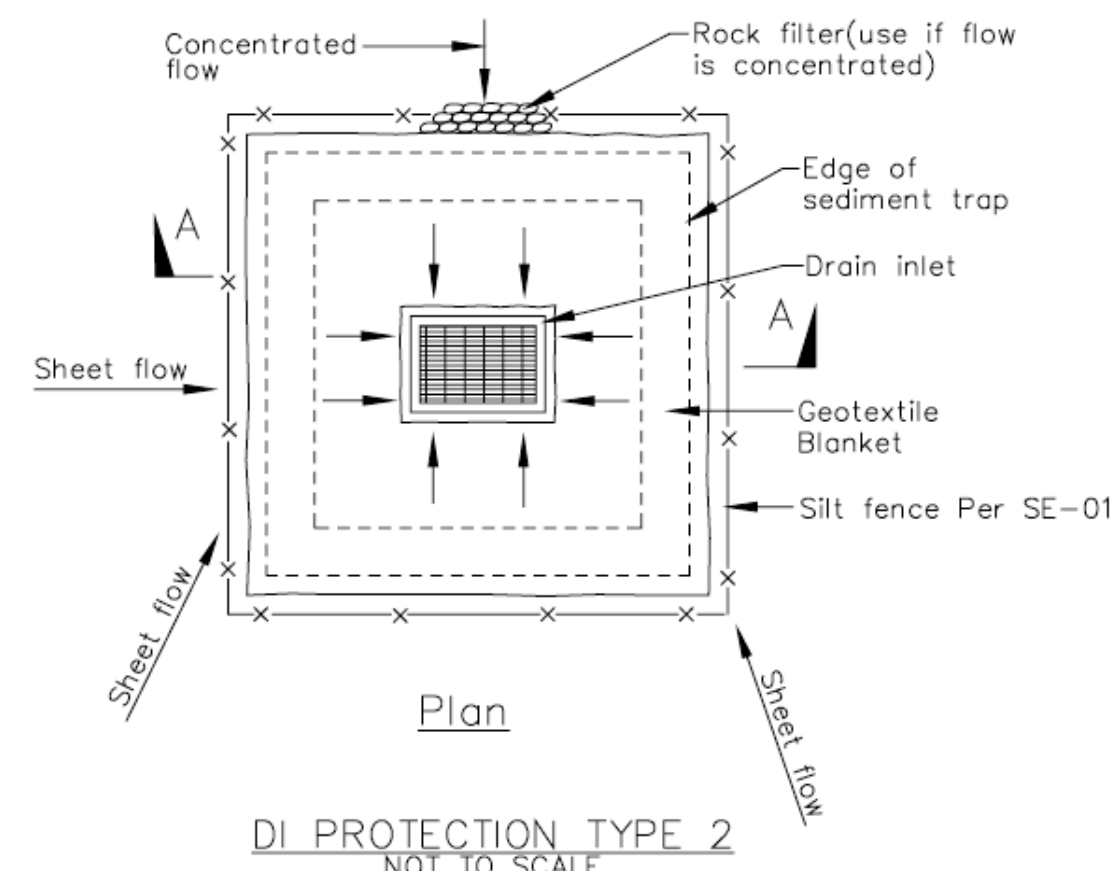
4

**Storm Drain Inlet Protection**

CASQA Detail SE-10



Section A-A

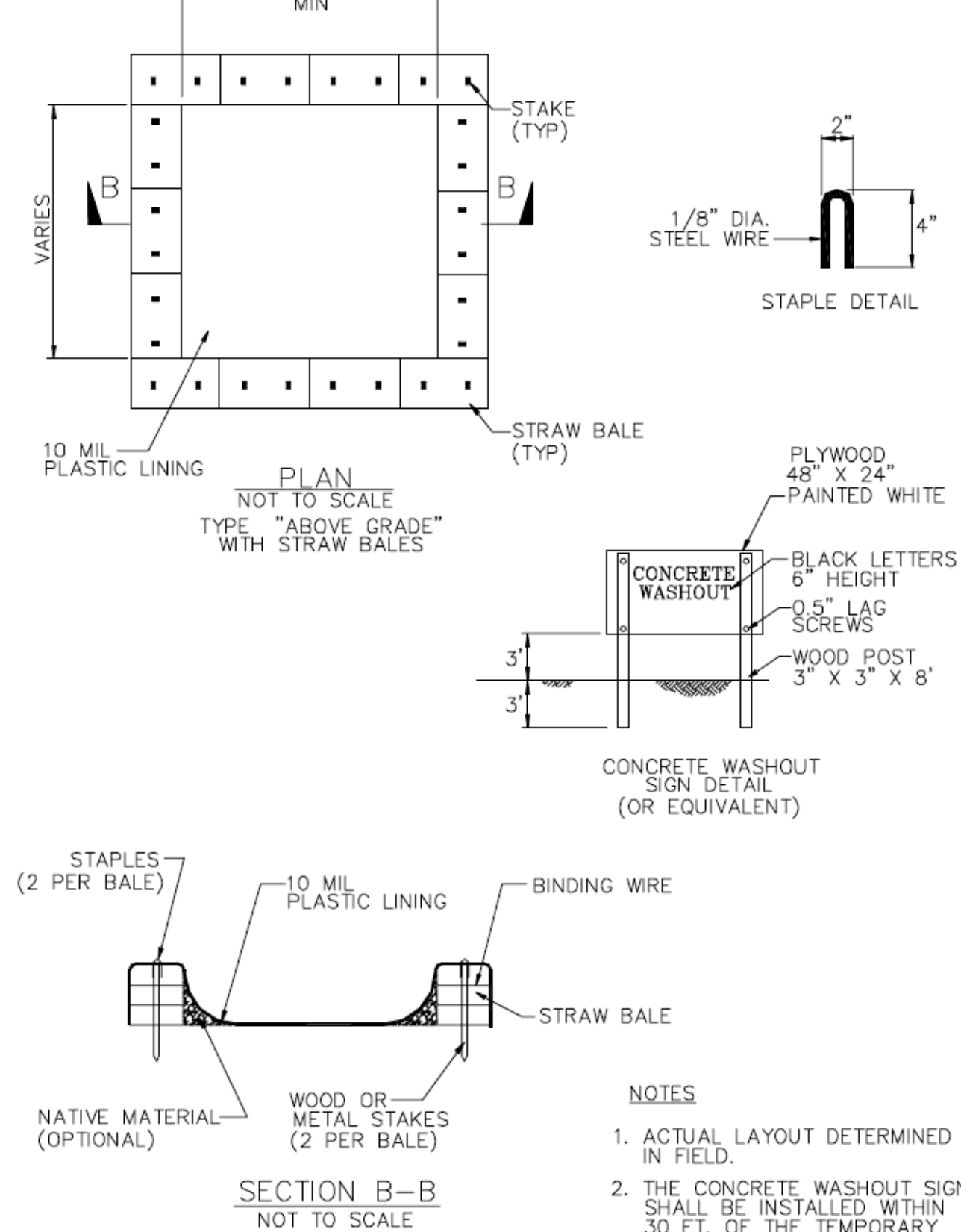
DI PROTECTION TYPE 2  
NOT TO SCALE

- Notes
1. For use in cleared and grubbed and in graded areas.
  2. Shape basin so that longest inflow area faces longest length of trap.
  3. For concentrated flows, shape basin in 2:1 ratio with length oriented towards direction of flow.

2

**Concrete Waste Management**

CASQA Detail WM-8



- NOTES
1. ACTUAL LAYOUT DETERMINED IN FIELD.
  2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

Source for Graphics: California Stormwater BMP Handbook, California Stormwater Quality Association, January 2003.  
Available from [www.cabmphandbooks.com](http://www.cabmphandbooks.com).

**CUPAL RESIDENCE**

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