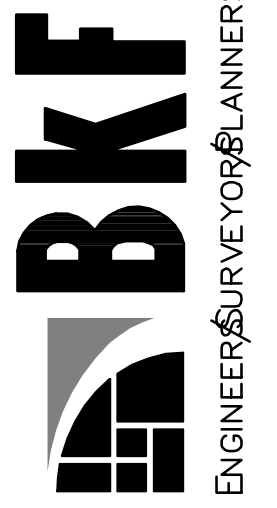


IMPROVEMENT PLANS FOR HIGHLAND ESTATES - LOT 10 COBBLEHILL PLACE COUNTY OF SAN MATEO, CALIFORNIA

255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
PHONE: (650) 482-6300
FAX: (650) 482-6399



CALIFORNIA

HIGHLAND ESTATES
LOT 10 IMPROVEMENT PLANS
TITLE SHEET
SAN MATEO COUNTY

CITY OF SAN MATEO

PROJECT DATA

SITE AREA: 17,994 SF
EXISTING LAND USE: UNDEVELOPED LAND
PROPOSED USE: RESIDENTIAL (LOT 10)
EXISTING ZONE: RMD - RESOURCE MANAGEMENT DISTRICT
PROPOSED ZONE: R-1
OWNER: 1 RESIDENTIAL LOT
 TICONDEROGA PARTNERS, A CALIFORNIA LIMITED LIABILITY CORPORATION
 C/O THE CHAMBERLAIN GROUP
 655 SKYWAY, SUITE 230
 SAN CARLOS, CA 94070
 ATTN: JACK CHAMBERLAIN
DEVELOPER: THE CHAMBERLAIN GROUP
 655 SKYWAY, SUITE 230
 SAN CARLOS, CA 94070
 (650) 595-5582
 ATTN: JACK CHAMBERLAIN
CIVIL ENGINEER: BKF ENGINEERS
 255 SHORELINE DRIVE, SUITE 200
 REDWOOD CITY, CA 94065
 (650) 482-6300
GEOTECHNICAL ENGINEER: CORNERSTONE EARTH GROUP
 1259 OAKMEAD PARKWAY
 SUNNYVALE, CA 94085
 (408) 245-4600
WATER SUPPLY: CAL WATER SERVICE
 341 N. DELAWARE STREET
 SAN MATEO, CA 94401-1808
 (650) 343-1808
SEWAGE DISPOSAL: CITY OF SAN MATEO & CRYSTAL SPRINGS COUNTY SANITATION DISTRICT
GAS & ELECTRIC: PG&E
TELEPHONE: AT&T
FIRE PROTECTION: CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION
CABLE: COMCAST
STORM DRAINAGE: COUNTY OF SAN MATEO
 CITY OF SAN MATEO
 AERO-GEODIC COROP.
 JOB NO. 950168
 DATE OF PHOTOGRAPHY 9/18/87
TOPOGRAPHIC BASE MAP: NOEL CHAMBERLAIN, NEXGEN BUILDERS INC.
 225 DEMETER STREET
 EAST PALO ALTO, CA 94303
EROSION CONTROL POINT OF CONTACT: PHONE #: (650) 322-5800
 CELL #: (650) 444-3089
 EMAIL: noel@nexgenbuilders.com

EARTHWORK

CUT 770 CY
 FILL 310 CY
 NET 460 CY CUT

EARTHWORK NOTES:

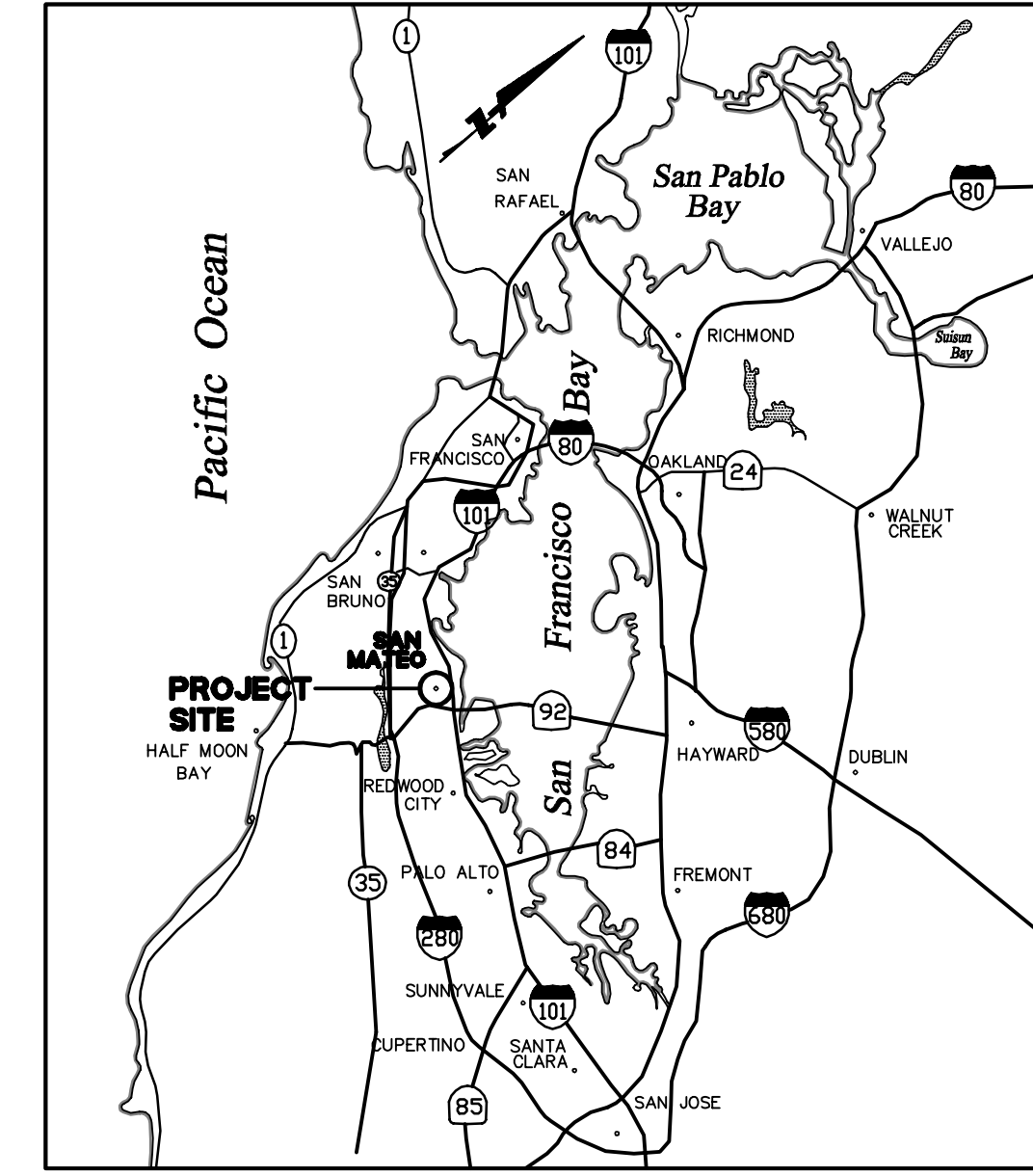
- THE EARTHWORK QUANTITIES SHOWN ABOVE ARE IN-PLACE QUANTITIES AND HAVE BEEN ESTIMATED BY THE ENGINEER WITH THE FOLLOWING ASSUMPTIONS:
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR SITE STRIPPINGS.
 - THE UNIT PAD SECTION IS ASSUMED TO BE A 12" THICK CONCRETE SECTION.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR FILL SHRINKAGE FACTORS.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR UTILITY TRENCHING AND SPOILS.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR SOIL STABILIZATION FACTORS AND LANDSCAPING PLANTING SOILS.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR RETAINING WALLS AND BUILDING FOOTINGS AND BACKFILL.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR OVER-EXCAVATION AND COMPACTION OF UNDOCUMENTED FILL IN THE DRIVEWAY AND GARAGE AREAS.
- ACTUAL QUANTITIES MAY VARY DUE TO FIELD CONDITIONS OR CONSTRUCTION TECHNIQUES. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES BASED UPON APPROVED PLANS AND INDEPENDENT CALCULATIONS.

LEGEND

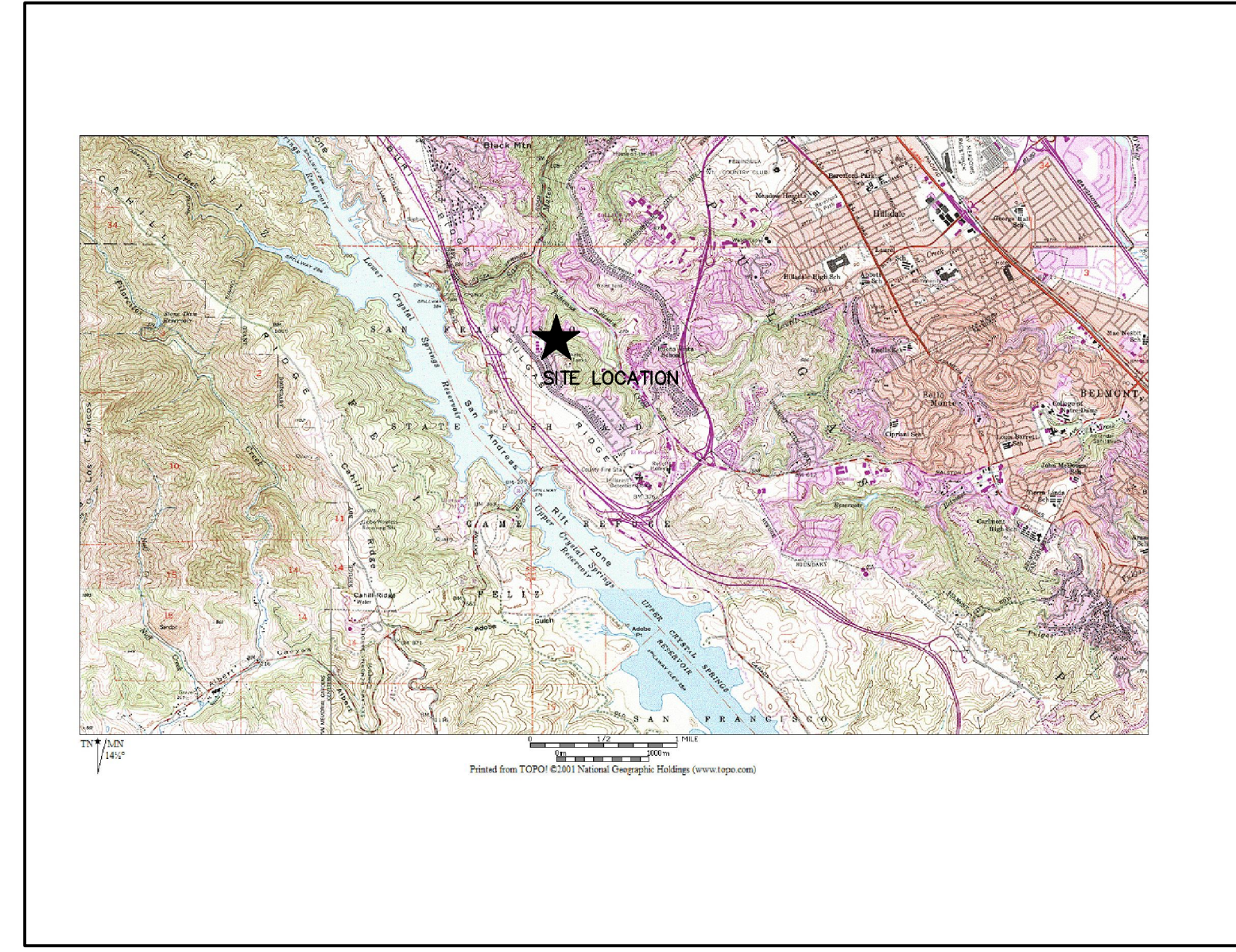
EXISTING	
---	EXISTING PROPERTY LINE BOUNDARY
SS	EXISTING SANITARY SEWER W/ MANHOLE
---	EXISTING STORM DRAIN DRAIN W/ MANHOLE
---	EXISTING WATERLINE
---	EXISTING CATCH BASIN
---	EXISTING GAS LINE
---	ALL UTILITIES ARE APPROXIMATELY LOCATED
PROPOSED	
---	PROPOSED PROPERTY LINE BOUNDARY
SS	SANITARY SEWER W/ MANHOLE
---	STORM DRAIN W/ MANHOLE & CATCH BASIN
---	WATER LINE W/ FIRE HYDRANT
---	GAS MAIN
---	UNDERGROUND ELECTRIC, TELEPHONE, & C.A.T.V.
S.D.E.	STORM DRAIN EASEMENT
S.S.E.	SANITARY SEWER EASEMENT
509.3 #4 OAK	EXISTING TREE & ELEVATION (TREE NO. REFERS TO TREE IDENTIFICATION TAG PER (TREE REPORT PREPARED BY HABITAT RESTORATION GROUP)
509.3 #3 OAK	INDICATES TREE TO BE REMOVED
L.W.	LEATHERWOOD BUSH
EUC.	EUCALYPTUS TREE
P.O.C.	POINT OF CONNECTION
FDZ	FIRE DEFENSE ZONE
[Symbol]	FLOW-THROUGH PLANTER - PROPOSED FOR TREATMENT OF ROOF AND DRIVEWAY STORM WATER RUNOFF.

ABBREVIATIONS

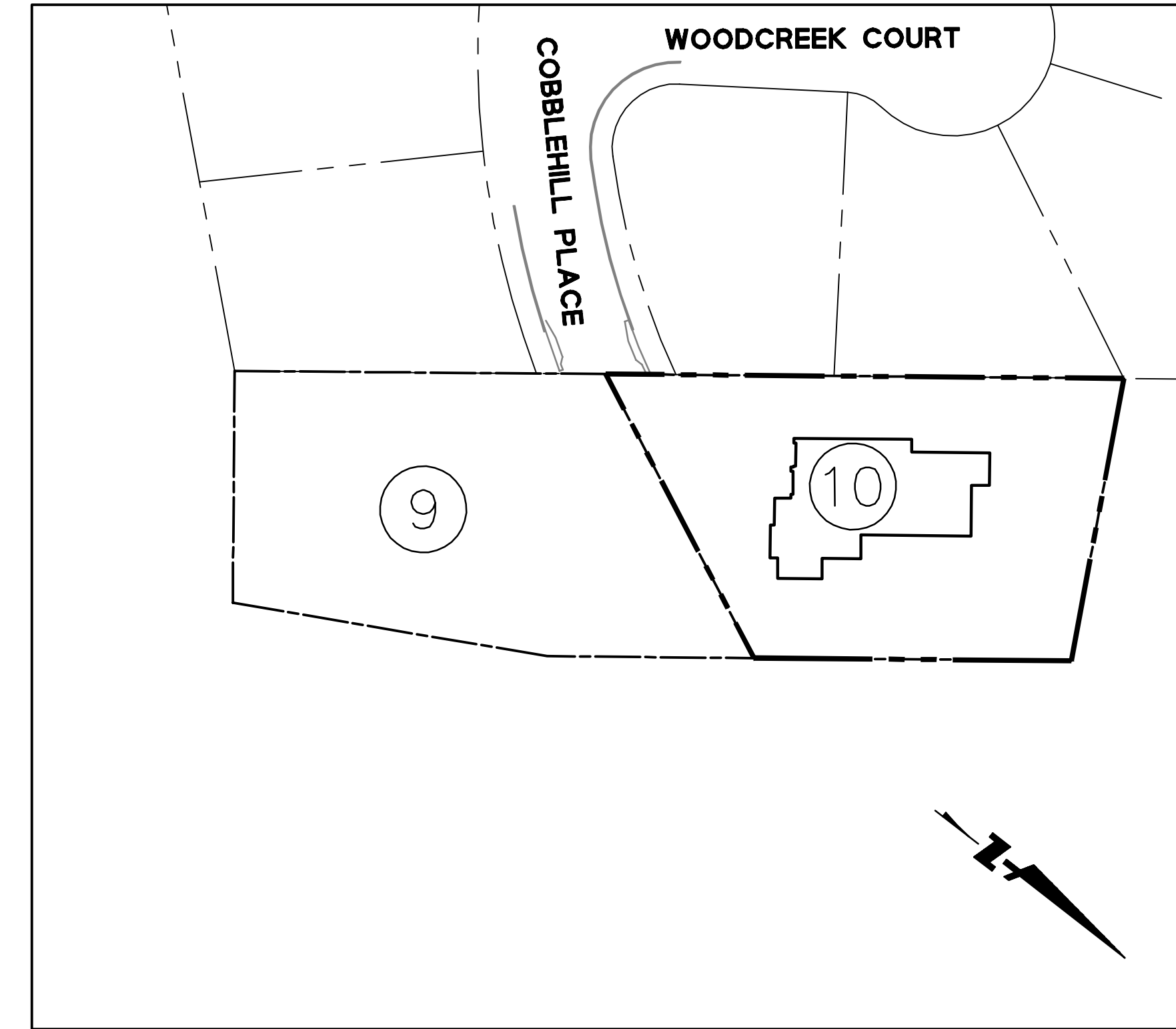
AC	ASPHALTIC CONCRETE	L	LENGTH
BEG	BEGINNING	LF	LINEAR FEET
BL	BAY LAUREL	LG	LIP OF GUTTER
BLDG COR	BUILDING CORNER	NIC	NOT IN CONTRACT
BOT	BOTTOM	O	OAK TREE
BOW	GRADE AT BOTTOM OF WALL	P	PEPPER TREE
BW	BACK OF WALK	PD	PLANNED DEVELOPMENT
CB	CATCH BASIN	PINE	PINE TREE
CL	CENTERLINE	PUE	PUBLIC UTILITY EASEMENT
CLF	CHAIN LINK FENCE	PVC	POLYVINYL CHLORIDE PIPE
CMP	CORRUGATED METAL PIPE	RCP	REINFORCED CONCRETE PIPE
CO	CLEANOUT	RDW	REDWOOD TREE
CONC	CONCRETE	RET	RETAINING WALL
CU	COPPER	ROW	RIGHT OF WAY
DG	DECOMPOSED GRANITE	RPB	REDUCED PRESSURE BACKFLOW
DI	DRAIN INLET	RWL	RAIN WATER LEADER
DW	DOMESTIC WATER	S	SLOPE
EG	EXISTING GRADE	SD	STORM DRAIN
EP	EDGE OF PAVEMENT	SDCB	STORM DRAIN CATCH BASIN
EUC	EUCALYPTUS TREE	SDCI	STORM DRAIN CLEANOUT
EX, (E)	EXISTING	SDJI	STORM DRAIN DROP INLET
FC, FOC	FACE OF CURB	SDMH	STORM DRAIN MANHOLE
FF	FINISH FLOOR	SS	SANITARY SEWER
FG	FINISH GRADE	SSCO	SANITARY SEWER CLEAN OUT
FL	FLOW LINE	SSMH	SANITARY SEWER MANHOLE
FNC	FENCE	T	TREE
FTP	FLOW THROUGH PLANTER	TC	TOP OF CURB
FW	FIRE WATER	TOE	TOE OF SLOPE
GB	GRADE BREAK	TOP	TOP OF SLOPE
GFF	GARAGE FINISH FLOOR	TOW	TOP OF WALL
GM	GAS METER	TYP	TYPICAL
GND	GROUND SHOT	UB	UTILITY BOX
GR	GRATE	VC	VERTICAL CURVE
GRAVEL	EDGE OF GRAVEL ROAD	VCP	VITRIFIED CLAY PIPE
GW	GUY WIRE	W	WATER
INV	INVERT	WM	WATER METER
JP	JOINT POLE	WV	WATER VALVE



VICINITY MAP
NTS



LOCATION MAP
NTS



SITE PLAN
SCALE: 1" = 50'

SHEET INDEX

SHEET NO	DESCRIPTION
C10.10	TITLE SHEET
C10.20	GENERAL NOTES
C10.30	SITE AND CLEARING, CONSTRUCTION AND GRADING PLANS
C10.40	UTILITY PLAN AND CROSS SECTION
C10.50	EROSION CONTROL PLANS
C10.60	EROSION CONTROL DETAILS AND NOTES
C10.70	CONSTRUCTION DETAILS
C10.80	LOGISTICS PLAN
C10.90	CASQA STANDARD DETAILS
C10.91	GEOTECHNICAL MITIGATION PLAN (LOTS 9 AND 10)
C10.92	GEOTECHNICAL MITIGATION KEYING AND BENCHING (LOTS 9 AND 10)
C10.93	GEOTECHNICAL MITIGATION CROSS SECTIONS (LOTS 9 AND 10)

ENGINEER'S STATEMENT

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED UNDER MY DIRECTION.

Jonathan Tang 10/8/2018
 DATE



ENGINEER OF WORK

I HEREBY DECLARE THAT I AM THE CIVIL ENGINEER OF WORK FOR THIS PROJECT AND THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THIS PROJECT AS DEFINED IN SECTION 6703 OF THE STATE OF CALIFORNIA, BUSINESS & PROFESSIONAL CODES, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

Jonathan Tang 10/8/2018
 DATE



RECORD DRAWINGS

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. BKF ENGINEERS HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED HEREIN AS A RESULT. BKF ENGINEERS DOES NOT ASSUME ANY RESPONSIBILITY FOR THE FIELD MODIFICATIONS TO THE PLANS.

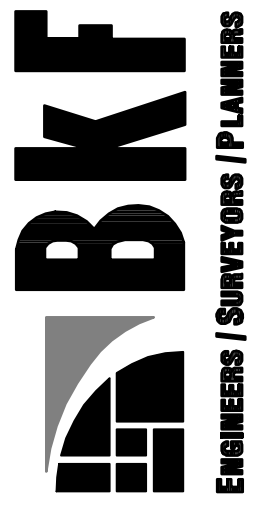
BY: *Jonathan Tang* DATE: 7/20/22

DRAWING NAME: K:\Projects\950168\dwg\CD\Lot10\C10.10-HEGDITS.dwg
PLOT DATE: 07-21-22 PLOTTED BY: hoi.t

No.	Date	Scale	NTS	Design	JT	Drawn	MD	Approved	RH/JT	Job No	950168-20
	10/8/2018										

Revisions

Sheet Number: **C10.10**
OF



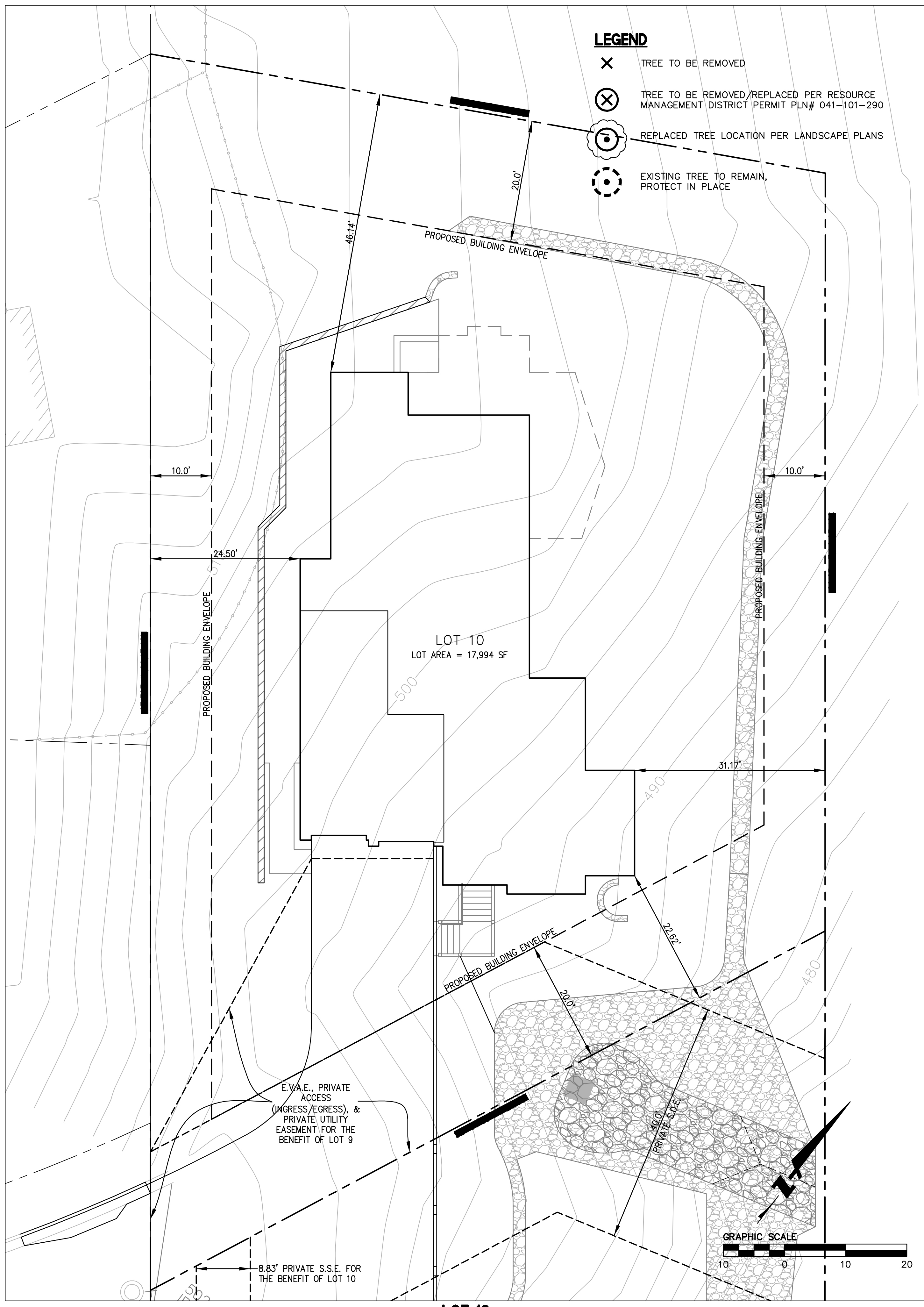
HIGHLAND ESTATES
LOT 10 IMPROVEMENT PLANS
SITE & CLEARING, CONSTRUCTION AND GRADING PLANS
CITY OF SAN MATEO SAN MATEO COUNTY CALIFORNIA

No.	Revisions

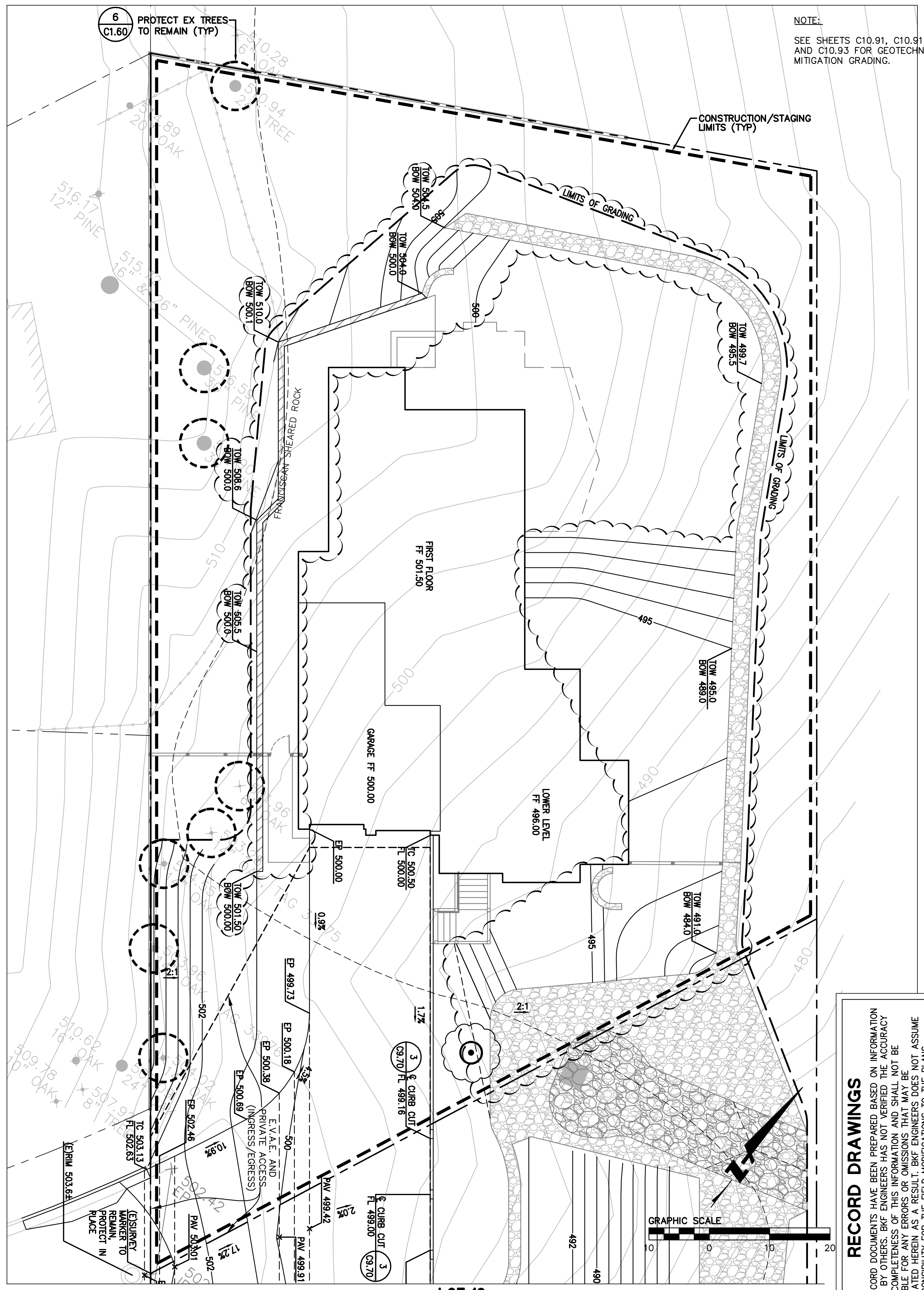
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Design JT
Drawn LF
Approved RH/JT
Job No 90168-20

C10.30
OF

DRAWING NAME: K:\E\9095\950168\dwg\CD\Lot_10\C10_30-HECDSP.dwg
PLOT DATE: 07-21-22
PLOTTED BY: hoi1



LOT 10
SITE PLAN
SCALE: 1"=10'



LOT 10
CLEARING, CONSTRUCTION, AND GRADING PLAN
SCALE: 1"=10'

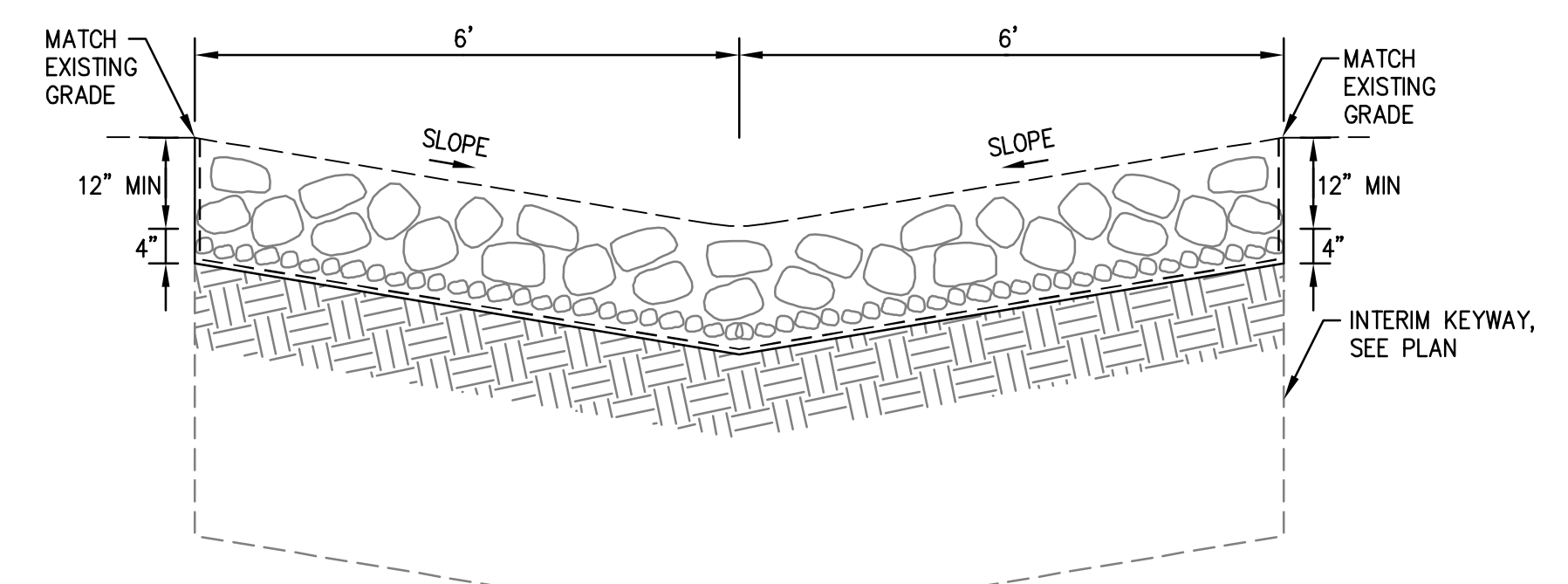
RECORD DRAWINGS

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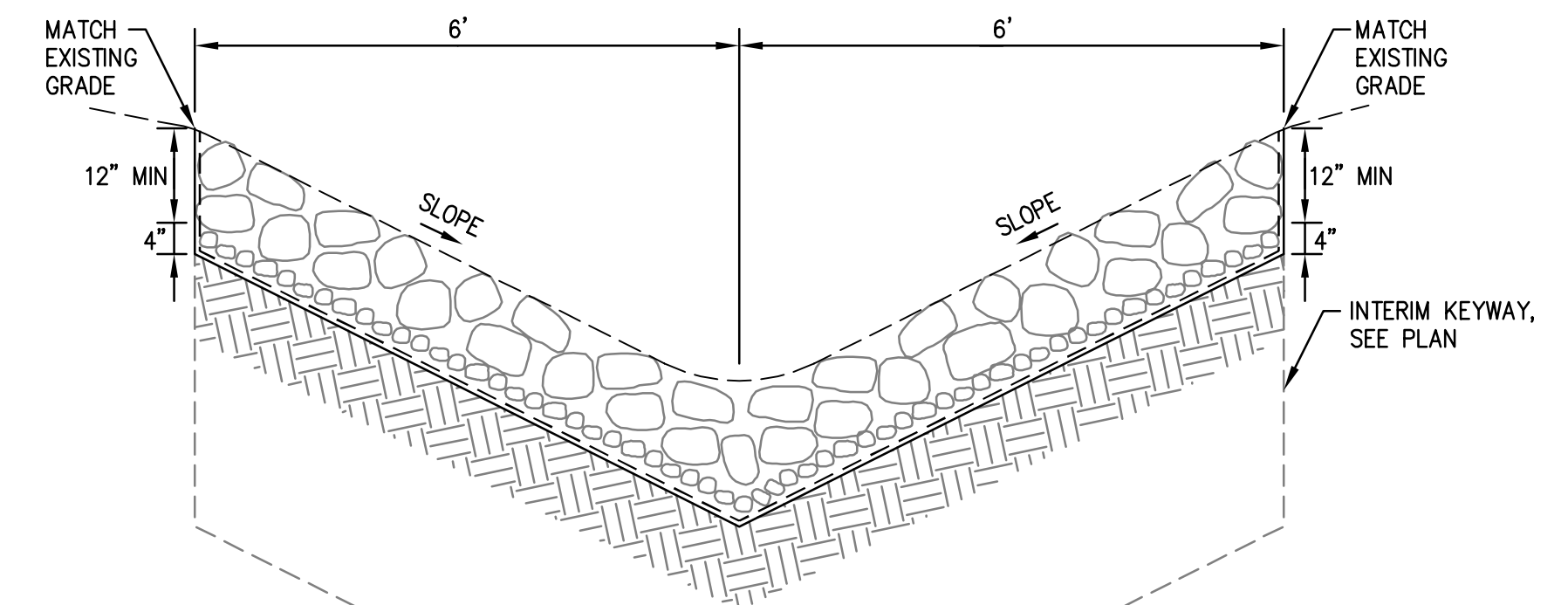
BY: *[Signature]* DATE: 7/20/22

CRYSTAL SPRINGS COUNTY SANITATION DISTRICT NOTES:

1. THE PROPERTY/EASEMENT LINE CLEANOUT MUST BE PLACED IN A LOCATION THAT PROVIDES EASY ACCESS FOR MAINTENANCE EQUIPMENT AND IS OUTSIDE OF ANY ENCLOSURES. A MINIMUM OF 6' IS REQUIRED BETWEEN THE PROPERTY LINE CLEANOUT AND STRUCTURE.
2. THE PLANS INDICATE THAT THE LOWEST FINISHED FLOOR ELEVATION OF THE PROPOSED MAIN RESIDENCE WILL BE LESS THAN ONE (1) FOOT HIGHER THAN THE RIM ELEVATION OF THE NEAREST UPSTREAM SANITARY SEWER MANHOLE. A BACKFLOW PREVENTION OR OVERFLOW DEVICE MUST BE INSTALLED IMMEDIATELY UPSTREAM OF THE REQUIRED CLEANOUT NEAR THE PROPERTY LINE TO PREVENT BACKFLOW OF SEWAGE INTO THE BUILDING/PROPERTY.
3. SANITARY SEWER CONNECTION AND TESTING MUST BE MADE IN THE PRESENCE OF A SEWER DISTRICT REPRESENTATIVE. THIS NOTE SHALL BE ADDED TO THE PLANS.
4. THE SEWER DISTRICT OFFICE SHALL BE CONTACTED (650-363-4100) TO SCHEDULE INSPECTIONS. INSPECTIONS MUST BE SCHEDULED A MINIMUM OF ONE WORKING DAY PRIOR TO THE INSPECTION. NO INSPECTIONS SHALL OCCUR ON FRIDAYS, WEEKENDS OR HOLIDAYS UNLESS SPECIAL ARRANGEMENTS ARE MADE WITH THE SEWER DISTRICT.
5. A VIDEO INSPECTION OF THE SEWER MAIN (MANHOLE TO MANHOLE) WHERE THE NEW LATERAL CONNECTS TO THE SEWER DISTRICT MAIN SHALL BE PERFORMED BY THE APPLICANT OR CONTRACTOR AND SUBMITTED TO THE SEWER DISTRICT FOR REVIEW AFTER LATERAL CONNECTION HAS BEEN MADE. THE VIDEO INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS DESCRIBED IN THE SPECIAL PROVISIONS FOR CLOSED CIRCUIT TELEVISION INSPECTION OF SANITARY SEWER MAINS (A COPY CAN BE OBTAINED FROM OUR WEBSITE AT [HTTP://PUBLICWORKS.SMOGOV.ORG/SEWER-SERVICES](http://PUBLICWORKS.SMOGOV.ORG/SEWER-SERVICES)). THE SEWER DISTRICT WILL REVIEW THE VIDEO INSPECTION TO DETERMINE WHETHER THE WORK PERFORMED IS ACCEPTABLE. ALL UNACCEPTABLE WORK SHALL BE CORRECTED TO THE SEWER DISTRICT'S SATISFACTION AT THE APPLICANT'S EXPENSE.
6. CARE MUST BE TAKEN TO PROTECT THE EXISTING SEWER DISTRICT FACILITIES WHEN A NEW SEWER LATERAL AND CONNECTION IS INSTALLED. ANY DAMAGES TO THE SEWER DISTRICT FACILITIES DURING THE INSTALLATION OF THE NEW LATERAL SHALL BE REPAIRED BY THE APPLICANT PER THE SEWER DISTRICT STANDARD DETAILS AND AT THE APPLICANT'S EXPENSE. THE SEWER DISTRICT MUST BE NOTIFIED OF ANY DAMAGES TO THE SANITARY SEWER FACILITIES AND ANY REPAIRS MUST BE INSPECTED BY A SEWER DISTRICT REPRESENTATIVE.
7. LATERAL CONNECTION TO THE EXISTING MANHOLE SHALL BE MADE BY CORE DRILLING A HOLE IN THE MANHOLE WALL APPROPRIATELY SIZED FOR THE SEWER LATERAL PIPE. THE ANNULAR SPACE BETWEEN THE WALL AND PIPE SHALL BE PLUGGED WITH MORTAR CEMENT. AFTER THE ANNULAR SPACE HAS BEEN PLUGGED, THE INTERIOR OF THE ENTIRE MANHOLE SHALL BE COATED WITH AN APPROVED WATERPROOFING MATERIAL APPLIED PER THE MANUFACTURER'S RECOMMENDATIONS.
8. THE CONTRACTOR MUST REMOVE AND DISPOSE OF ALL CONSTRUCTION DEBRIS IN THE MANHOLE AFTER THE LATERAL CONNECTION HAS BEEN MADE. CARE MUST BE TAKEN TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING THE SEWER SYSTEM DURING THE INSTALLATION OF THE NEW SEWER LATERAL CONNECTION. IF THE SEWER DISTRICT DISCOVERS THAT CONSTRUCTION DEBRIS HAS ENTERED THE SEWER SYSTEM, THE APPLICANT WILL BE RESPONSIBLE TO CLEAN AND TELEVIEW THE DOWNSTREAM PORTIONS OF THE SEWER MAINS AS DETERMINED BY THE SEWER DISTRICT TO THE SEWER DISTRICT'S SATISFACTION. SANITARY SEWER SERVICE SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL USE WHATEVER MEANS NECESSARY (E.G. PUMPS, ETC.) TO MAINTAIN THIS SERVICE DURING CONSTRUCTION.



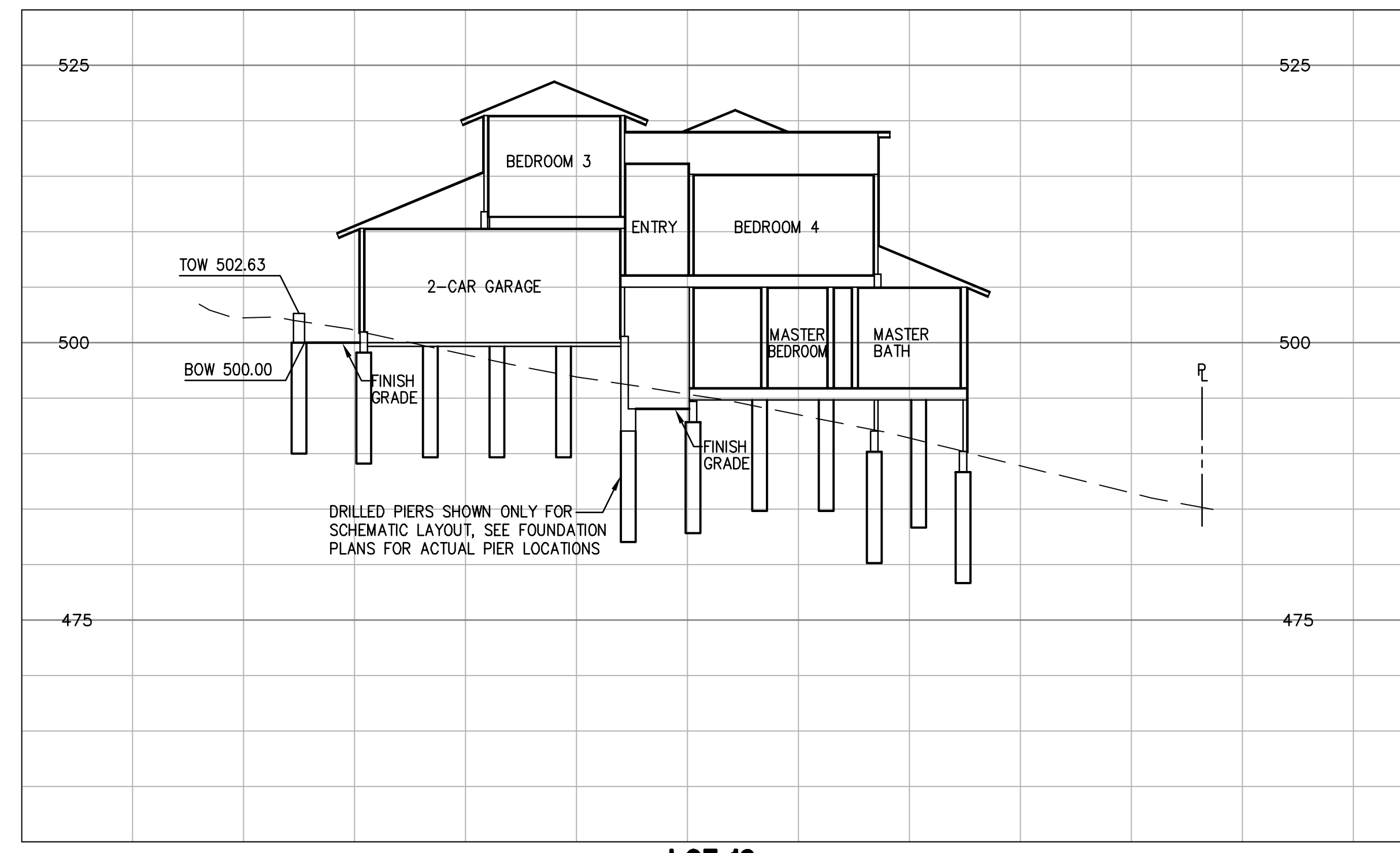
OUTLET STRUCTURE CROSS SECTION B-B
NTS



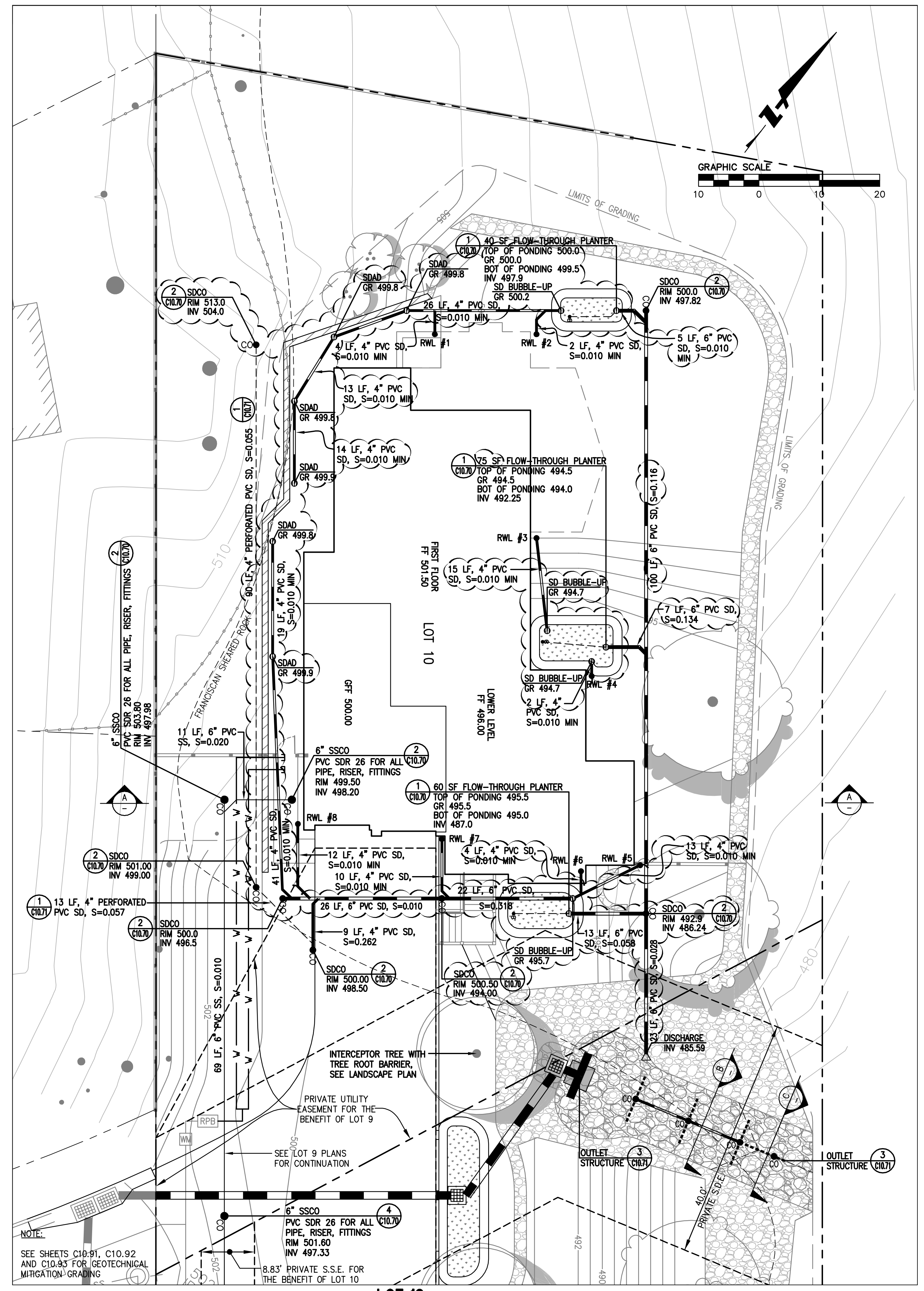
OUTLET STRUCTURE CROSS SECTION C-C
NTS

NOTES:

1. PER THE GEOTECHNICAL REPORT, UNDOCUMENTED FILL WAS MAPPED AT LOT 10 AND IF THIS FILL IS TO BE LEFT IN PLACE DURING HOUSE AND DRIVEWAY GRADING, IT SHOULD BE REMOVED AND REPLACED AS PROPERLY COMPACTED ENGINEERED FILL.
2. PER THE GEOTECHNICAL REPORT, ALL EXISTING FILLS SHOULD BE COMPLETELY REMOVED FROM WITHIN PROPOSED HOUSE FOOTPRINT AND DRIVEWAY AREAS AND TO A LATERAL DISTANCE OF AT LEAST 5 FEET BEYOND THE EDGE OF THE IMPROVEMENTS OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. ANY EXCESS MATERIAL SHALL BE DISPOSED OF OFF-SITE IN A LAWFUL MANNER.
3. PER THE GEOTECHNICAL REPORT, GEOTECHNICAL MITIGATION GRADING WILL BE PERFORMED ON LOT 10, SEE SHEETS C10.91 AND C10.92 FOR GRADING DETAILS OF THE MITIGATION.
4. PER THE GEOTECHNICAL REPORT, ALL BUILDING AND RETAINING WALLS SHOULD BE SUPPORTED ON DRILLED PIERS. THE FOUNDATION SHOWN ON THIS PLAN ARE SCHEMATIC. REFER TO THE PROJECT STRUCTURAL PLANS FOR DETAILS ON THE DRILLED PIERS.



LOT 10 CROSS SECTION A-A
SCALE: 1"=10'

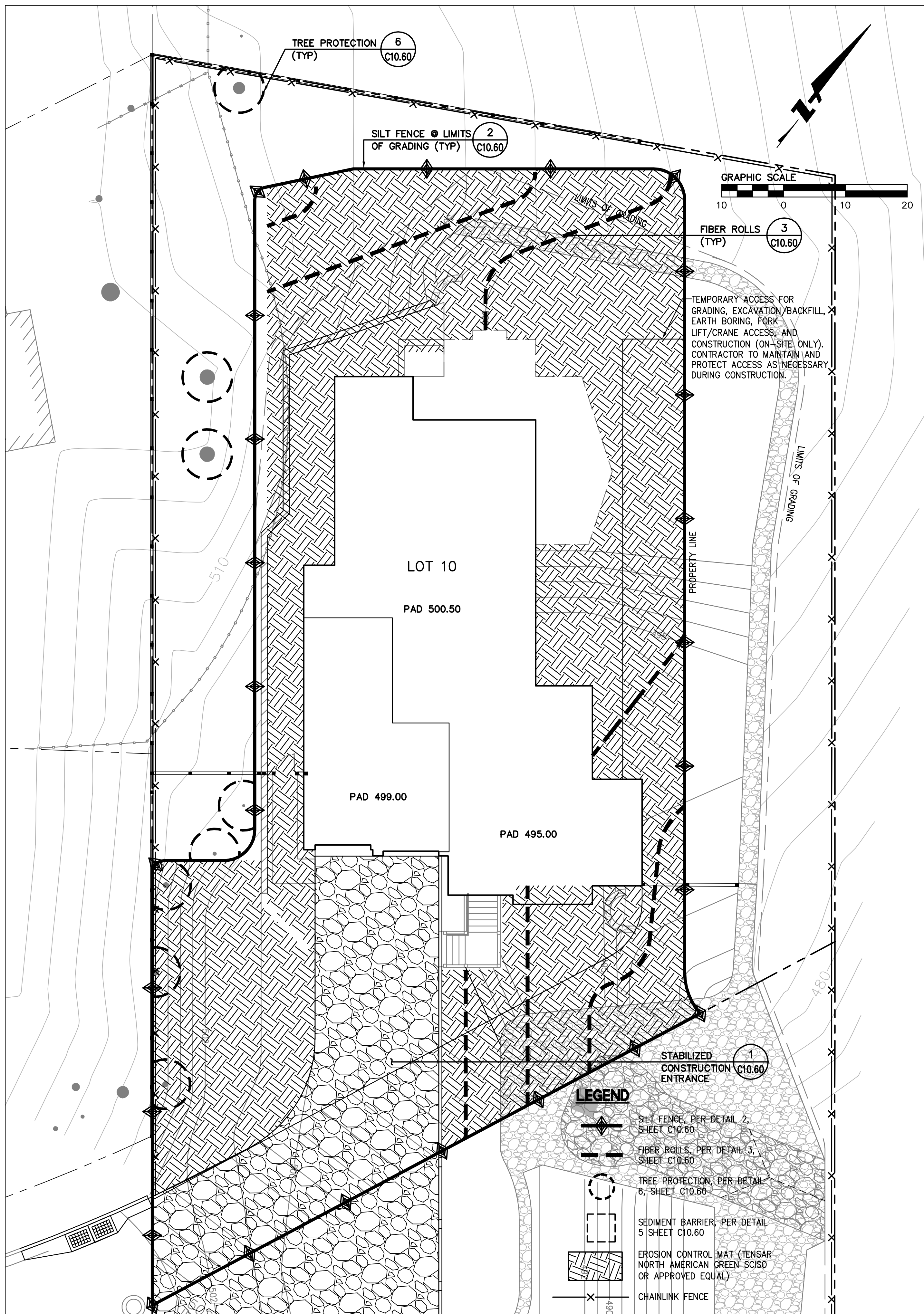


LOT 10 UTILITY PLAN
SCALE: 1"=10'

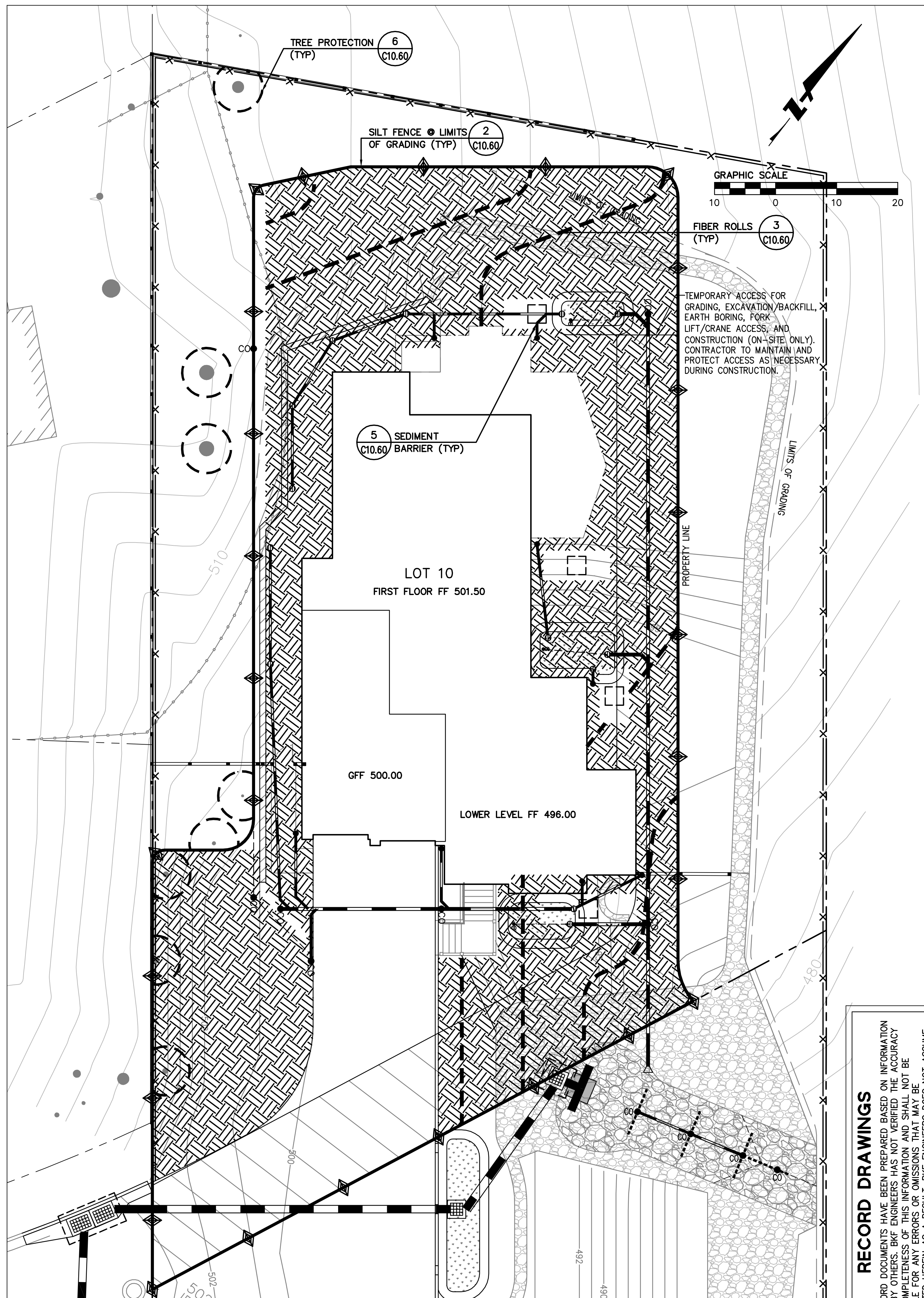
NOTE:
SEE SHEETS C10.91, C10.92
AND C10.93 FOR GEOTECHNICAL
MITIGATION GRADING

RECORD DRAWINGS
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BY: [Signature]
DATE: 7/20/22

DRAWING NAME: K:\E\95168\dwg\CD\Lot_10\C10.50-HECDSP.dwg
 PLOT DATE: 07-21-22 PLOTTED BY: hoi



LOT 10
GRADING AND RETAINING WALL EROSION CONTROL PLAN
 SCALE: 1"=10'



LOT 10
FOUNDATION AND CONSTRUCTION EROSION CONTROL PLAN
 SCALE: 1"=10'

RECORD DRAWINGS

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BY: *[Signature]* DATE: 7/20/22

No.	Revisions

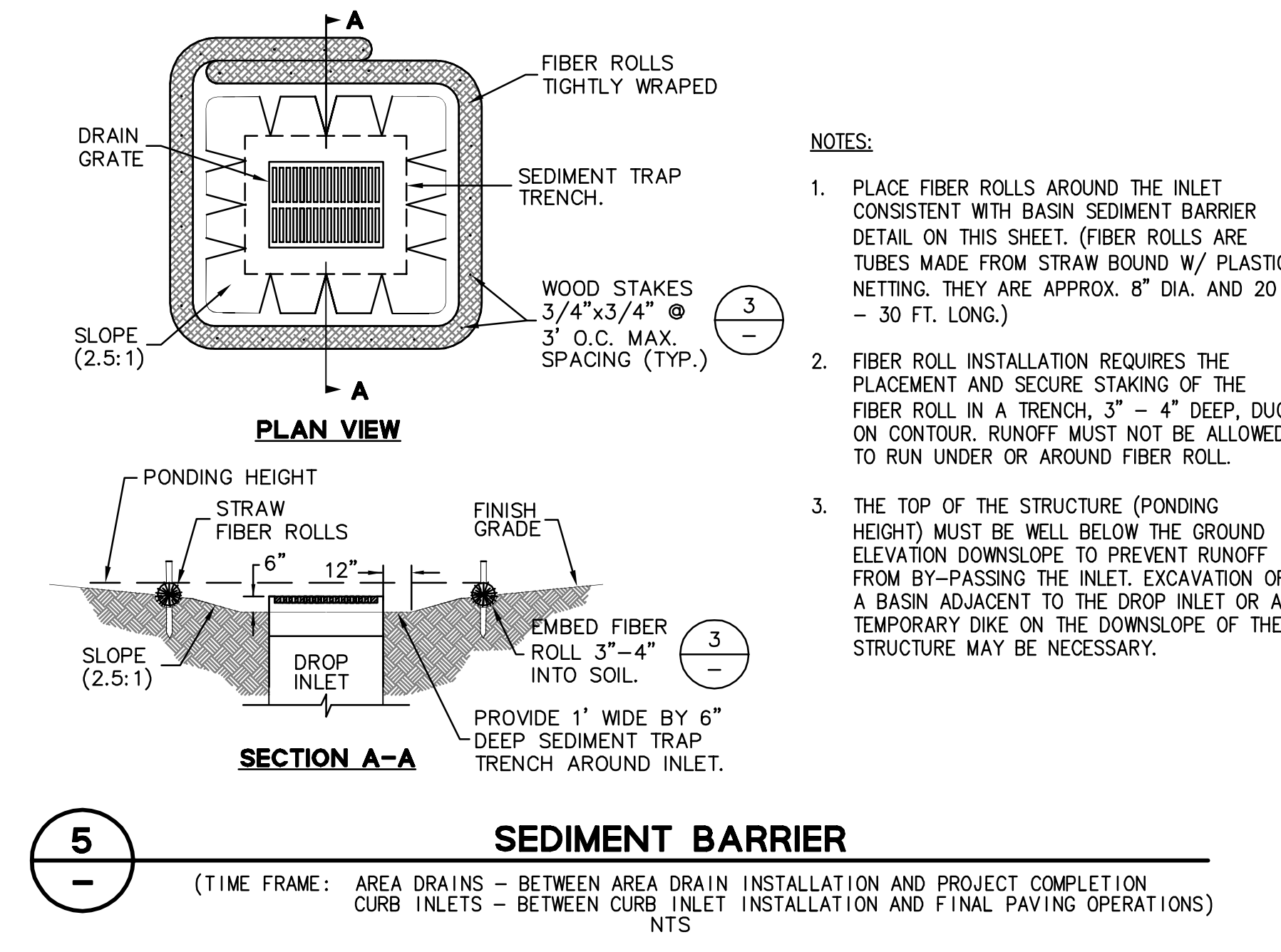
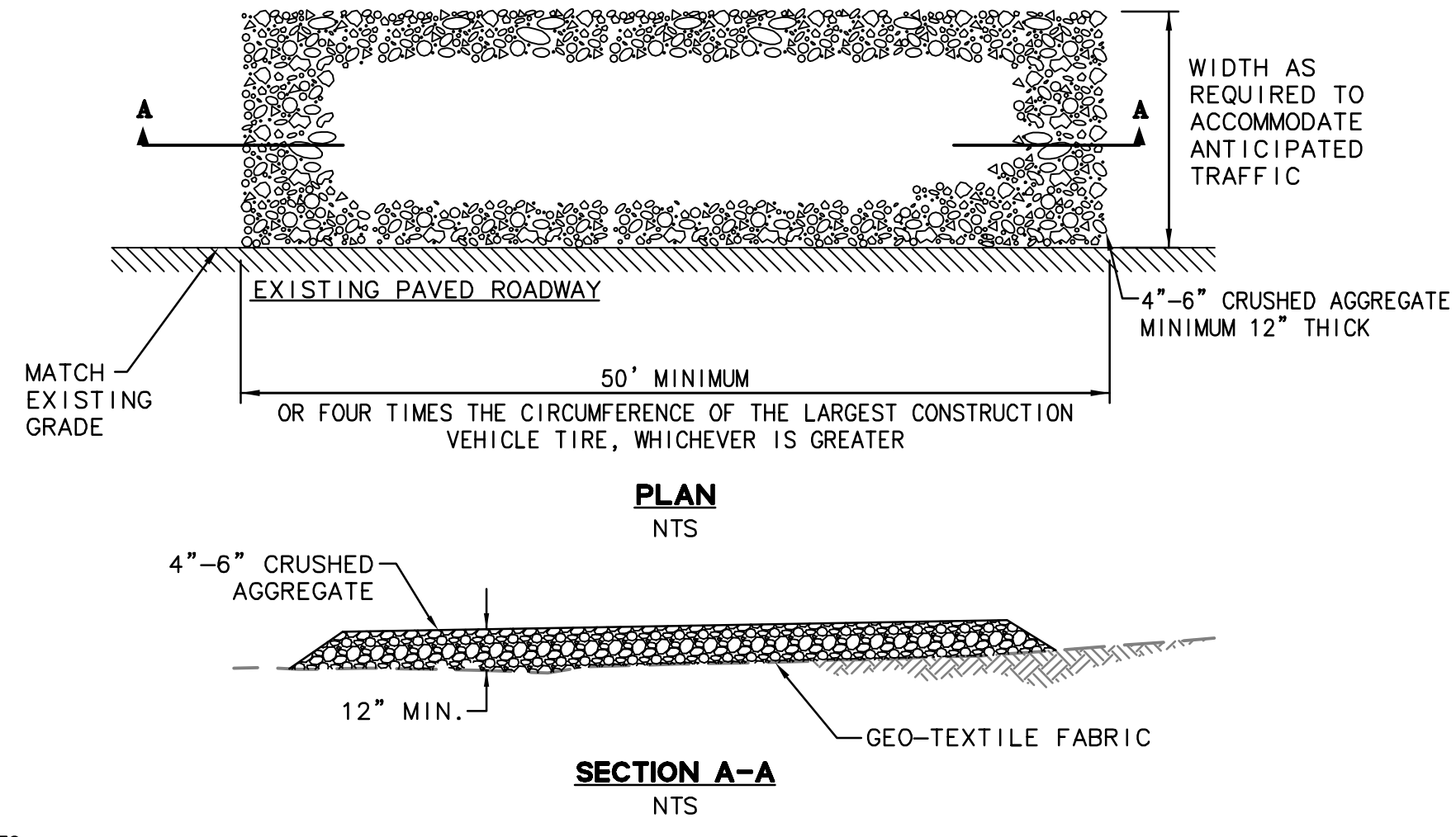
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 Scale: AS SHOWN
 Design: RH
 Drawn: RH/JT
 Approved: RH/JT
 Job No: 950168-20

Sheet Number:
C10.50
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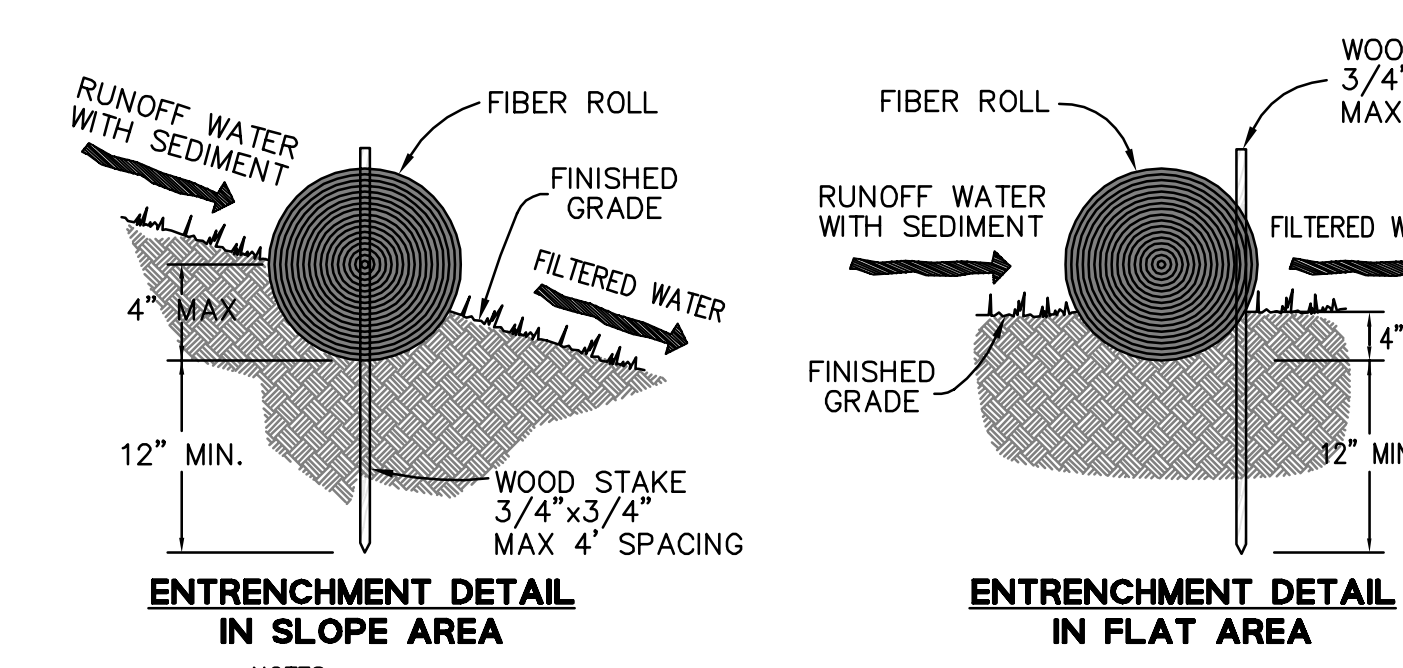
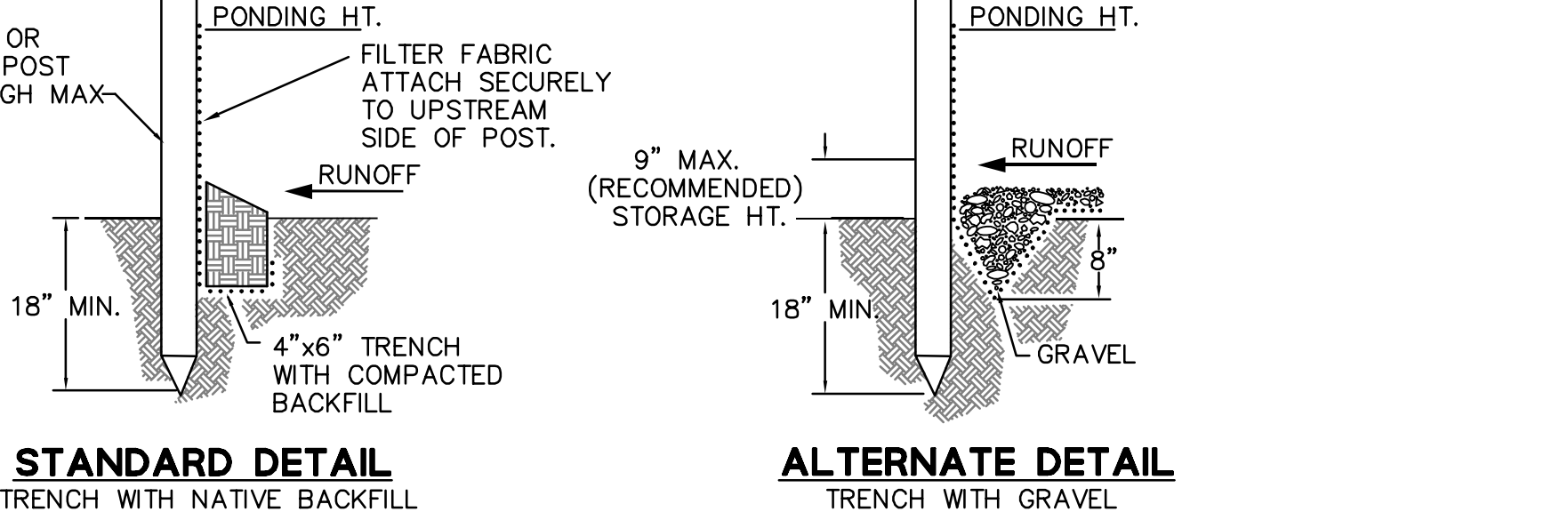
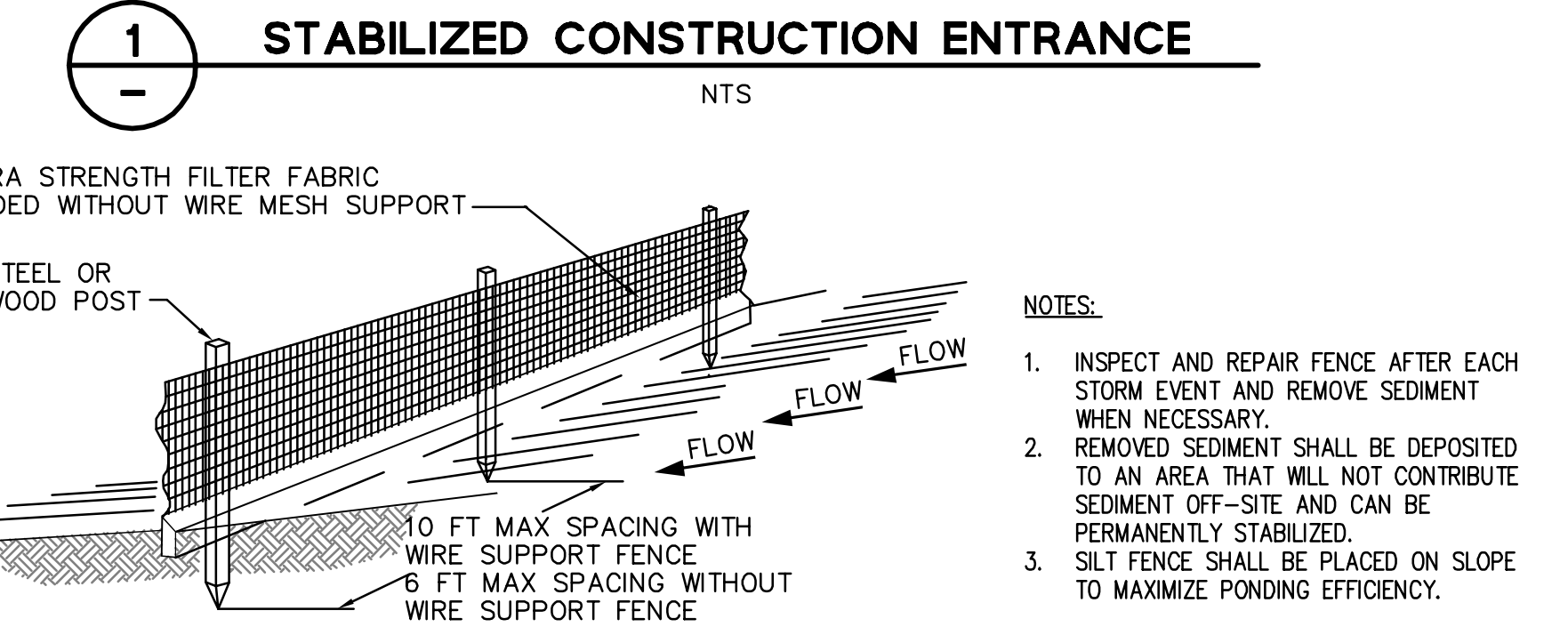
EROSION CONTROL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- ALTHOUGH SPECIFIC LOCATIONS FOR SEDIMENT CONTROL FACILITIES ARE SHOWN ON THESE PLANS, IT IS INTENDED THIS EROSION CONTROL PLAN BE MODIFIED WHEN NECESSARY TO MEET FIELD CONDITIONS. BASIN AND TRAP SIZES AND ELEVATIONS MAY BE ADJUSTED AS LONG AS THE MINIMUM AREAS AND DEPTHS FOR SEDIMENT SETTLING AND STORAGE ARE NOT REDUCED.
- THE INTENT OF THESE PLANS IS TO PROVIDE THE INITIAL CONCEPT FOR INTERIM EROSION CONTROL. THE CONTRACTOR SHALL UPDATE THE PLANS TO REFLECT CHANGING SITE CONDITIONS. PLAN UPDATES SHALL BE BASED UPON GENERAL SURVEY DATA. EROSION CONTROL EFFECTIVENESS SHALL ALSO BE MONITORED AND THE PLANS UPGRADED AS REQUIRED TO PREVENT SIGNIFICANT QUANTITIES OF SEDIMENT FROM ENTERING THE DOWNSTREAM DRAINAGE SYSTEM.
- 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 THE STORM RUN OFF FROM LEAVING THE SITE. FIBER ROLLS, SAND BAGS, AND SILT FENCES SHALL BE USED BY THE CONTRACTOR ON AN AS NEEDED BASIS TO INHIBIT SILT FROM LEAVING THE SITE AND ENTERING THE STORM DRAIN SYSTEM. ALL EXISTING, TEMPORARY, OR PERMANENT CATCH BASINS SHALL USE ONE OF THE SEDIMENT BARRIERS SHOWN.
- THE CONTRACTOR WILL BE LIABLE FOR ANY AND ALL DAMAGES TO PUBLIC AND/OR PRIVATE OWNED AND MAINTAINED ROAD CAUSED BY THE CONTRACTOR'S GRADING ACTIVITIES, AND WILL BE RESPONSIBLE FOR THE CLEANUP OF ANY MATERIAL SPILLED ON ANY PUBLIC ROAD ON THE HAUL ROUTE. ADJACENT PUBLIC ROADS SHALL BE CLEANED AT THE END OF EACH WORKING DAY.
- BEST MANAGEMENT PRACTICES SHALL BE OPERABLE YEAR AROUND.
- 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-LADEN RUNOFF TO ANY STORM DRAIN SYSTEM.
- ALL EROSION CONTROL FACILITIES MUST BE INSPECTED AND REPAIRED DAILY DURING THE RAINY SEASON. ALL SLOPES SHALL BE REPAIRED AS SOON AS POSSIBLE WHEN DAMAGED.
- THE FIRST PHASE OF CONSTRUCTION SHALL REQUIRE 30 PERCENT OF CONSTRUCTION EQUIPMENT TO MEET TIER 1 EPA CERTIFICATION STANDARDS FOR CLEAN TECHNOLOGY. THE REMAINDER OF CONSTRUCTION EQUIPMENT (70 PERCENT), WHICH WOULD CONSIST OF OLDER TECHNOLOGIES, SHALL BE REQUIRED TO USE EMULSIFIED FUELS.
- THE SECOND PHASE OF CONSTRUCTION SHALL REQUIRE 30 PERCENT OF CONSTRUCTION EQUIPMENT TO MEET TIER 2 EPA CERTIFICATION STANDARDS FOR CLEAN TECHNOLOGY AND 50 PERCENT TO MEET TIER 1 EPA CERTIFICATION STANDARDS. THE REMAINING 20 PERCENT OF CONSTRUCTION EQUIPMENT, WHICH WOULD CONSIST OF OLDER TECHNOLOGIES, SHALL USE EMULSIFIED FUELS.
- FOR ALL LARGER VEHICLES, INCLUDING CEMENT MIXERS OR OTHER DEVICES THAT MUST BE DELIVERED BY LARGE TRUCKS, VEHICLES SHALL BE EQUIPPED WITH CAB LEVEL THREE VERIFIED CONTROL DEVICES.
- WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY.
- COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.
- PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY NON-TOXIC SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT THE CONSTRUCTION SITES.
- SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT THE CONSTRUCTION SITES.
- SWEEP PUBLIC STREETS ADJACENT TO CONSTRUCTION SITES DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO THE STREETS.
- HYDROSEED OR APPLY NON-TOXIC SOIL STABILIZERS TO INACTIVE CONSTRUCTION AREAS (PREVIOUSLY GRADED AREAS INACTIVE FOR TEN DAYS OR MORE).
- TEMPORARY AND PERMANENT SLOPES GREATER THAN 3 FEET SHALL BE SEEDED UNLESS ALTERNATIVE MEASURES ARE USED.
- SEED MIX FOR REVEGETATION AND HYDROSEEDING:
NORTHERN CALIFORNIA COVER MIX BY ACBRIGHT OR EQUAL
30% BLUE WILDYRE
30% MEADOW BARLEY
20% ZORRO FESCUE
10% PURPLE NEEDLE GRASS
10% CALIFORNIA NATIVE WILDFLOWERS
- APPLY AT 40 POUNDS PER ACRE MINIMUM. HAND WATER AS RECOMMENDED BY SEED SUPPLIER TO ESTABLISH GERMINATION AND VEGETATION GROWTH. OVERSEED AND/OR REPLANT AS NEEDED TO MAINTAIN COVER AS REQUIRED.
- ENCLOSE, COVER, WATER TWICE DAILY, OR APPLY NON-TOXIC SOIL BINDERS TO EXPOSED STOCKPILES (DIRT, SAND, ETC.). LIMIT TRAFFIC SPEEDS ON UNPAVED ROADS TO 15 MILES PER HOUR.
- DISPOSAL AREAS FOR SEDIMENT TO BE DETERMINED IN FIELD. WHEN MATERIAL IS STOCKPILED, IT SHALL BE SURROUNDED BY A SILT FENCE/FIBER ROLLS.
- LIMIT TRAFFIC SPEEDS ON UNPAVED ROADS TO 15 MILES PER HOUR.
- INSTALL SANDBAGS OR OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
- REPLANT VEGETATION IN DISTURBED AREAS AS SOON AS POSSIBLE.
- INSTALL WHEEL WASHERS FOR ALL EXITING TRUCKS OR WASH OFF THE TIRES OR TRACKS OF ALL TRUCKS AND EQUIPMENT LEAVING THE CONSTRUCTION SITE.
- INSTALL WIND BREAKS AT THE WINDWARD SIDES OF THE CONSTRUCTION AREAS.
- SUSPEND EXCAVATION AND GRADING ACTIVITIES WHEN WIND (AS INSTANTANEOUS GUSTS) EXCEEDS 25 MILES PER HOUR.
- NO GRADING SHALL BE ALLOWED DURING THE WINTER SEASON (OCTOBER 1 TO APRIL 30) TO AVOID POTENTIAL SOIL EROSION UNLESS APPROVED, IN WRITING, BY THE COMMUNITY DEVELOPMENT DIRECTOR. THE PROPERTY OWNERS SHALL SUBMIT A LETTER TO THE CURRENT PLANNING SECTION, AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF GRADING, STATING THE DATE WHEN GRADING WILL BEGIN.
- STABILIZE ALL DENuded AREAS AND MAINTAIN EROSION CONTROL MEASURES CONTINUOUSLY BETWEEN OCTOBER 1 AND APRIL 30. STABILIZING SHALL INCLUDE BOTH PROACTIVE MEASURES, SUCH AS THE PLACEMENT OF STRAW BALES OR COR NETTING, AND PASSIVE MEASURES, SUCH AS MINIMIZING VEGETATION REMOVAL AND REVEGETATING DISTURBED AREAS WITH VEGETATION THAT IS COMPATIBLE WITH THE SURROUNDING ENVIRONMENT.

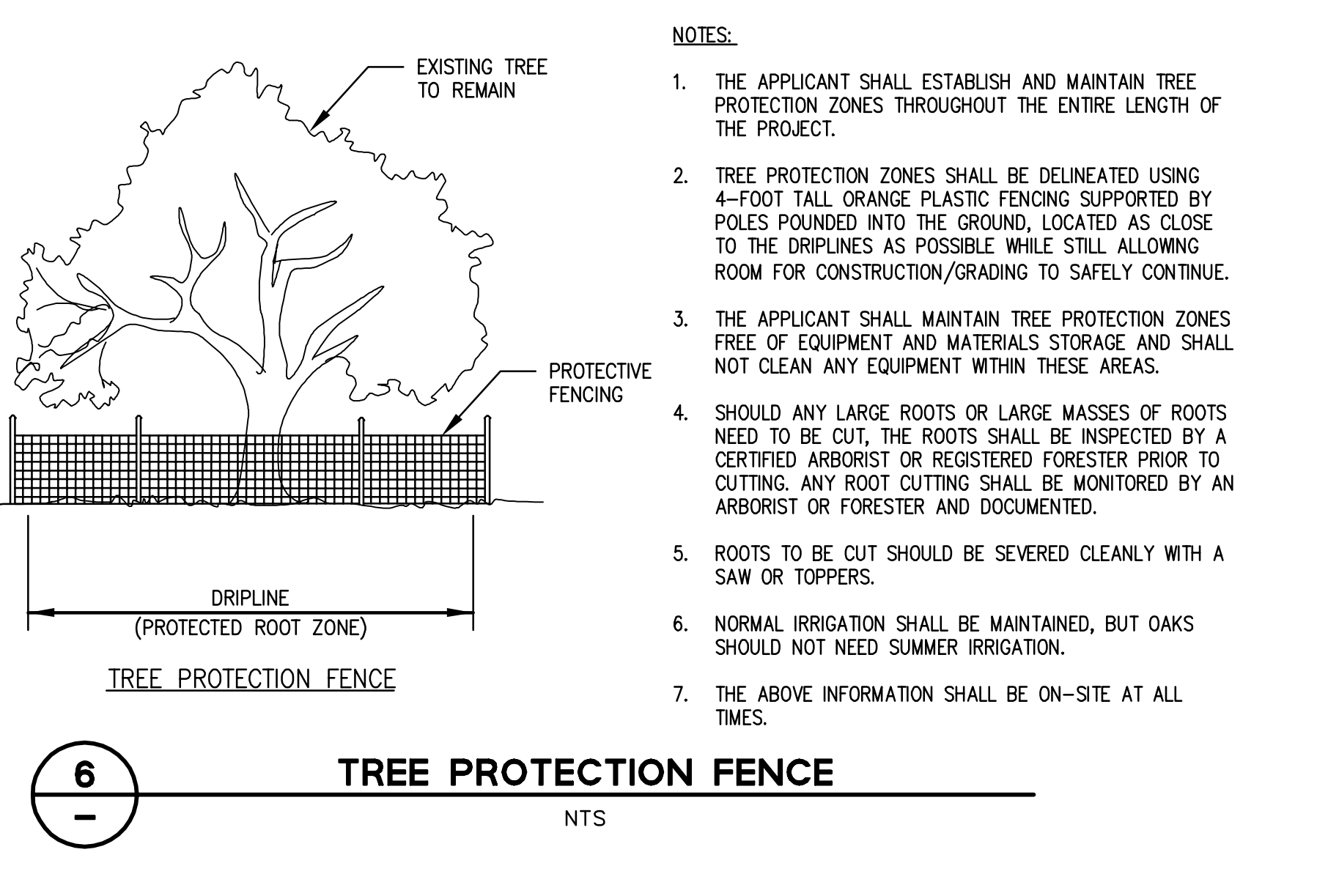
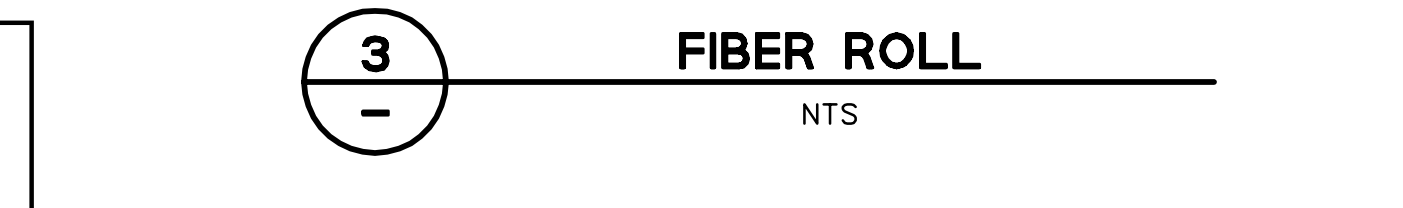
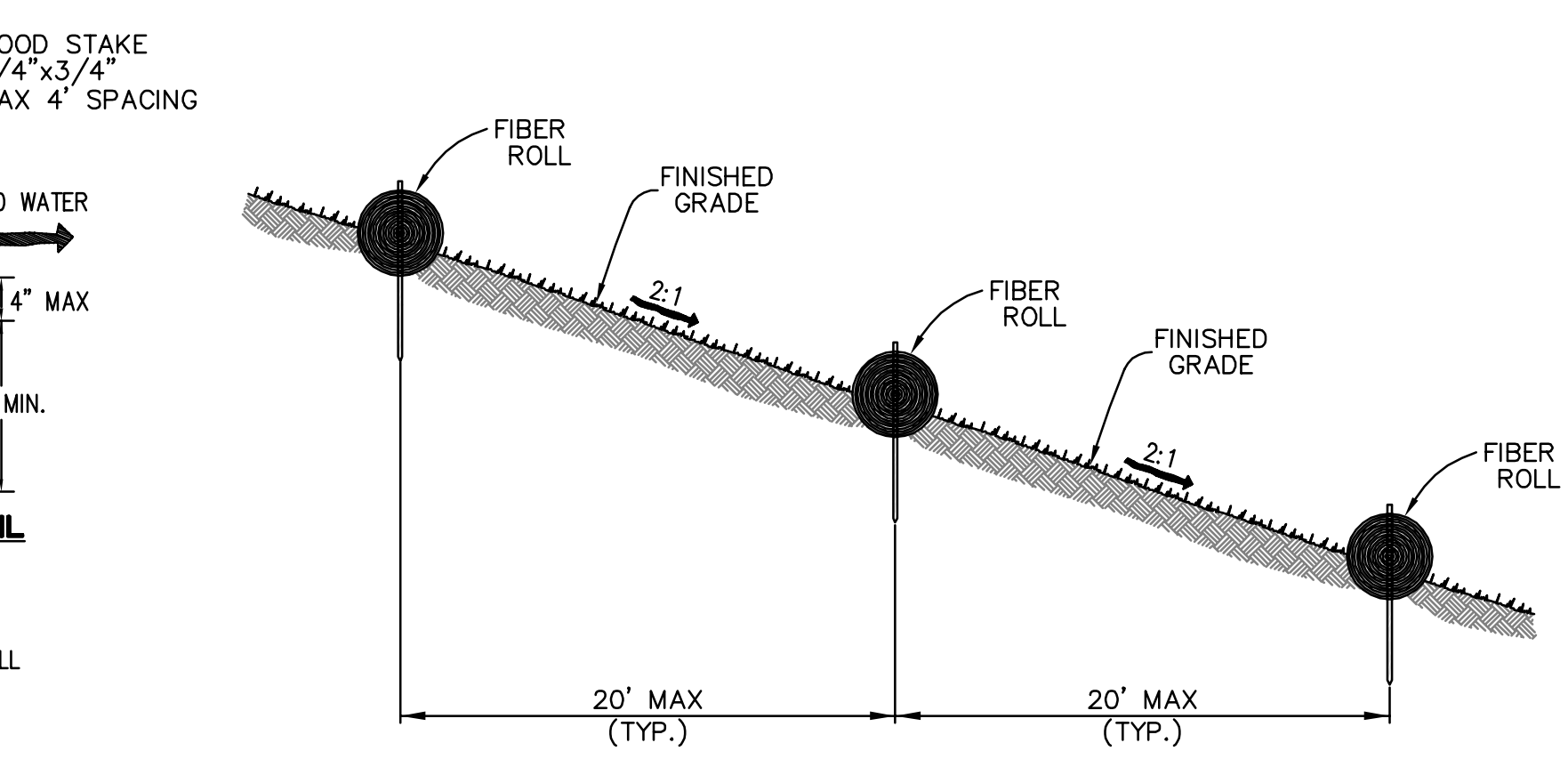
- STORE, HANDLE, AND DISPOSE OF CONSTRUCTION MATERIALS AND WASTES PROPERLY, SO AS TO PREVENT THEIR CONTACT WITH STORMWATER. CONTROL AND PREVENT THE DISCHARGE OF ALL POTENTIAL POLLUTANTS, INCLUDING PAVEMENT CUTTING WASTES, PAINTS, CONCRETE, PETROLEUM PRODUCTS, CHEMICALS, WASH WATER OR SEDIMENTS, AND NON-STORMWATER DISCHARGES TO STORM DRAINS AND WATERCOURSES.
- USE SEDIMENT CONTROLS OR FILTRATION TO REMOVE SEDIMENT WHEN DEWATERING SITE AND OBTAINING ALL NECESSARY PERMITS.
- AVOID CLEANING, FUELING, OR MAINTAINING VEHICLES ON-SITE, EXCEPT IN A DESIGNATED AREA WHERE WASH WATER IS CONTAINED AND TREATED.
- DELINEATE WITH FIELD MARKERS CLEARING LIMITS, SETBACKS, AND DRAINAGE COURSES.
- PROTECT ADJACENT PROPERTIES AND UNDISTURBED AREAS FROM CONSTRUCTION IMPACTS USING VEGETATIVE BUFFER STRIPS, SEDIMENT BARRIERS OR FILTERS, DIKES, MULCHING, OR OTHER MEASURES AS APPROPRIATE.
- PERFORM CLEARING AND EARTH-MOVING ACTIVITIES ONLY DURING DRY WEATHER.
- LIMIT AND TIME APPLICATIONS OF PESTICIDES AND FERTILIZERS TO PREVENT POLLUTED RUNOFF.
- LIMIT CONSTRUCTION ACCESS ROUTES AND STABILIZE DESIGNATED ACCESS POINTS.
- ALL GRADED SURFACES AND MATERIALS, WHETHER FILLED, EXCAVATED, TRANSPORTED OR STOCKPILED, SHALL BE WETTED, PROTECTED OR CONTAINED IN SUCH A MANNER AS TO PREVENT ANY SIGNIFICANT NUISANCE FROM DUST, OR SPILLAGE UPON ADJOINING WATER BODY, PROPERTY, OR STREETS. EQUIPMENT AND MATERIALS ON THE SITE SHALL BE USED IN SUCH A MANNER AS TO AVOID EXCESSIVE DUST. A DUST CONTROL PLAN MAY BE REQUIRED AT ANYTIME DURING THE COURSE OF THE PROJECT.
- A DUST PALLIATIVE SHALL BE APPLIED TO THE SITE WHEN REQUIRED BY THE COUNTY. THE TYPE AND RATE OF APPLICATION SHALL BE RECOMMENDED BY THE SOILS ENGINEER AND APPROVED BY THE DEPARTMENT OF PUBLIC WORKS, THE PLANNING AND BUILDING DEPARTMENT'S GEOTECHNICAL SECTION, AND THE REGIONAL WATER QUALITY CONTROL BOARD.
- IF NO WORK HAS PROCEEDED FOR A PERIOD OF 6-WEEKS, FINAL DRAINAGE AND EROSION CONTROL IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED WINTERIZATION PLAN.
- PADS SHALL BE GRADED TO MINIMIZE STANDING WATER. SPECIFIC LOCATIONS REQUIRING SUPPLEMENTAL GRADING TO ACHIEVE ACCEPTABLE DRAINAGE SHALL BE DETERMINED BY THE CONSTRUCTION MANAGER. ALL SPILLS AND SOIL STOCKPILES REMAINING ON SITE SHALL BE ENCLOSED BY SILT FENCES/FIBER ROLLS.
- STUBBED OUT ENDS OF PARTIALLY COMPLETED SUBDRAINS SHALL BE WRAPPED WITH AN APPROVED FABRIC TO PREVENT SOIL AND DEBRIS FROM ENTERING THE PIPE.
- HAUL ROADS ARE CURRENTLY NOT SHOWN ON THE PLANS. EROSION CONTROL MEASURES SHALL BE TAKEN TO MINIMIZE EROSION RELATED TO HAUL ROADS.
- GRADING SCHEDULE SHALL BE SUBMITTED FOR APPROVAL TO SAN MATEO COUNTY PUBLIC WORKS BY AUGUST 15.
- EROSION CONTROL POINT OF CONTACT:
NOEL CHAMBERLAIN, NEXGEN BUILDERS INC.
225 DEMETER STREET
EAST PALO ALTO, CA 94303
PHONE #: 650-322-5800
CELL #: 650-444-3089
EMAIL: noel@nexgenbuilders.com
- SHOULD IT APPEAR THAT THE EROSION CONTROL PLAN, OR ANY OTHER MATTER THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE BKF PROJECT ENGINEER AT (650) 482-6300 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
- AREAS DELINEATED ON PLANS FOR PARKING, CLEARING & GRUBBING, STORAGE, ETC. SHALL NOT BE ENLARGED OR "RUN OVER."
- CONSTRUCTION SITES ARE REQUIRED TO HAVE EROSION CONTROL MATERIALS ON-SITE DURING THE "OFF-SEASON."
- DUST CONTROL IS REQUIRED YEAR-ROUND.
- EROSION CONTROL MATERIALS SHALL BE STORED ON-SITE.
- USE OF PLASTIC SHEETING BETWEEN OCTOBER 1ST AND APRIL 30TH IS NOT ACCEPTABLE, UNLESS FOR USE ON STOCKPILES WHERE THE STOCKPILE IS ALSO PROTECTED WITH FIBER ROLLS CONTAINING THE BASE OF THE STOCKPILE.
- TREE PROTECTION SHALL BE IN PLACE BEFORE ANY GRADING, EXCAVATING OR GRUBBING IS STARTED.
- AVOID SOIL COMPACTION IN EXISTING AND PROPOSED LANDSCAPED AREAS. ALL EQUIPMENT OR STOCKPIILING SHOULD BE LOCATED AWAY FROM ALL PROPOSED LANDSCAPING TO REDUCE COMPACTION.



- NOTES:**
- ALL CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS SHALL BE REMOVED IMMEDIATELY.
 - WHEELS SHALL BE CLEAN PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE THROUGH USE OF INLET PROTECTION (E.G. SAND BAGS OR OTHER APPROVED METHODS).
 - THE MATERIAL FOR CONSTRUCTION OF THE PAD SHALL BE 4" TO 6" STONE.
 - THE THICKNESS OF THE PAD SHALL NOT BE LESS THAN 12".
 - THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
 - THE LENGTH OF THE PAD SHALL NOT BE LESS THAN 50'.



- NOTES:**
- FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3" TO 4" DEEP, DUG ON CONTOUR.
 - ADJACENT ROLLS SHALL TIGHTLY ABUT.
 - RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND FIBER ROLL.



CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA) STANDARD DETAIL REFERENCES
(CALIFORNIA STORMWATER BMP HANDBOOK CONSTRUCTION, DATED NOVEMBER 2009)
NOTE: ALTHOUGH SPECIFIC LOCATIONS FOR SPECIFIC BMPs ARE SHOWN ON THESE PLANS, IT IS INTENDED FOR THE CONTRACTOR TO APPLY APPROPRIATE BMPs WHEN NECESSARY TO MEET FIELD CONDITIONS.

EROSION CONTROL BMPs:		TEMPORARY TRACKING CONTROL BMPs:	
EC-1 SCHEDULING	EC-2 PRESERVATION OF EXISTING VEGETATION	TC-1 STABILIZED CONSTRUCTION ENTRANCE/EXIT	TC-2 STABILIZED CONSTRUCTION ROADWAY
EC-3 HYDRAULIC MULCH	EC-4 HYDROSEEDING	TC-3 ENTRANCE/OUTLET TIRE WASH	
EC-5 SOIL BINDERS	EC-6 STRAW MULCH	NON-STORMWATER MANAGEMENT BMPs:	
EC-7 GEOTEXTILES & MATS	EC-8 WOOD MULCHING	NS-1 WATER CONSERVATION PRACTICES	NS-2 DEWATERING OPERATIONS
EC-9 EARTH DIKES AND DRAINAGE SWALES	EC-10 VELOCITY DISSIPATION DEVICES	NS-3 PAVING AND GRINDING OPERATIONS	NS-4 TEMPORARY STREAM CROSSING
EC-11 SLOPE DRAINS	EC-12 STREAMBANK STABILIZATION	NS-5 CLEAR WATER DIVERSION	NS-6 ILLUOT CONNECTION/DISCHARGE
EC-14 COMPOST BLANKETS	EC-15 SOIL PREPARATION/ROUGHENING	NS-7 POTABLE WATER/IRRIGATION	NS-8 VEHICLE AND EQUIPMENT CLEANING
EC-16 NON-VEGETATIVE STABILIZATION		NS-9 VEHICLE AND EQUIPMENT FUELING	NS-10 VEHICLE AND EQUIPMENT MAINTENANCE
TEMPORARY SEDIMENT CONTROL BMPs:		NS-11 PILE DRIVING OPERATIONS	NS-12 CONCRETE CURING
SE-1 SILT FENCE	SE-2 SEDIMENT BASIN	NS-13 CONCRETE FINISHING	NS-14 MATERIAL AND EQUIPMENT USE
SE-3 FIBER ROLLS	SE-4 CHECK DAM	NS-15 DEMOLITION ADJACENT TO WATER	NS-16 TEMPORARY BATCH PLANTS
SE-5 FIBER ROLLS	SE-6 GRAVEL BAG BERM	WASTE MANAGEMENT & MATERIALS POLLUTION CONTROL BMPs:	
SE-7 STREET SWEEPING AND VACUUMING	SE-8 SANDBAG BARRIER	WM-1 MATERIAL DELIVERY AND STORAGE	WM-2 MATERIAL USE
SE-9 STRAW BALE BARRIER	SE-10 STORM DRAIN INLET PROTECTION	WM-3 STOCKPILE MANAGEMENT	WM-4 SPILL PREVENTION AND CONTROL
SE-11 ACTIVE TREATMENT SYSTEMS	SE-12 TEMPORARY SILT DIKE	WM-5 SOLID WASTE MANAGEMENT	WM-6 HAZARDOUS WASTE MANAGEMENT
SE-13 COMPOST SOCKS AND BERMS	SE-14 BIOFILTER BAGS	WM-7 CONTAMINATED SOIL MANAGEMENT	WM-8 CONCRETE WASTE MANAGEMENT
WIND EROSION CONTROL BMPs:		WM-9 SANITARY/SEPTIC WASTE MANAGEMENT	WM-10 LIQUID WASTE MANAGEMENT
WE-1 WIND EROSION CONTROL			

RECORD DRAWINGS
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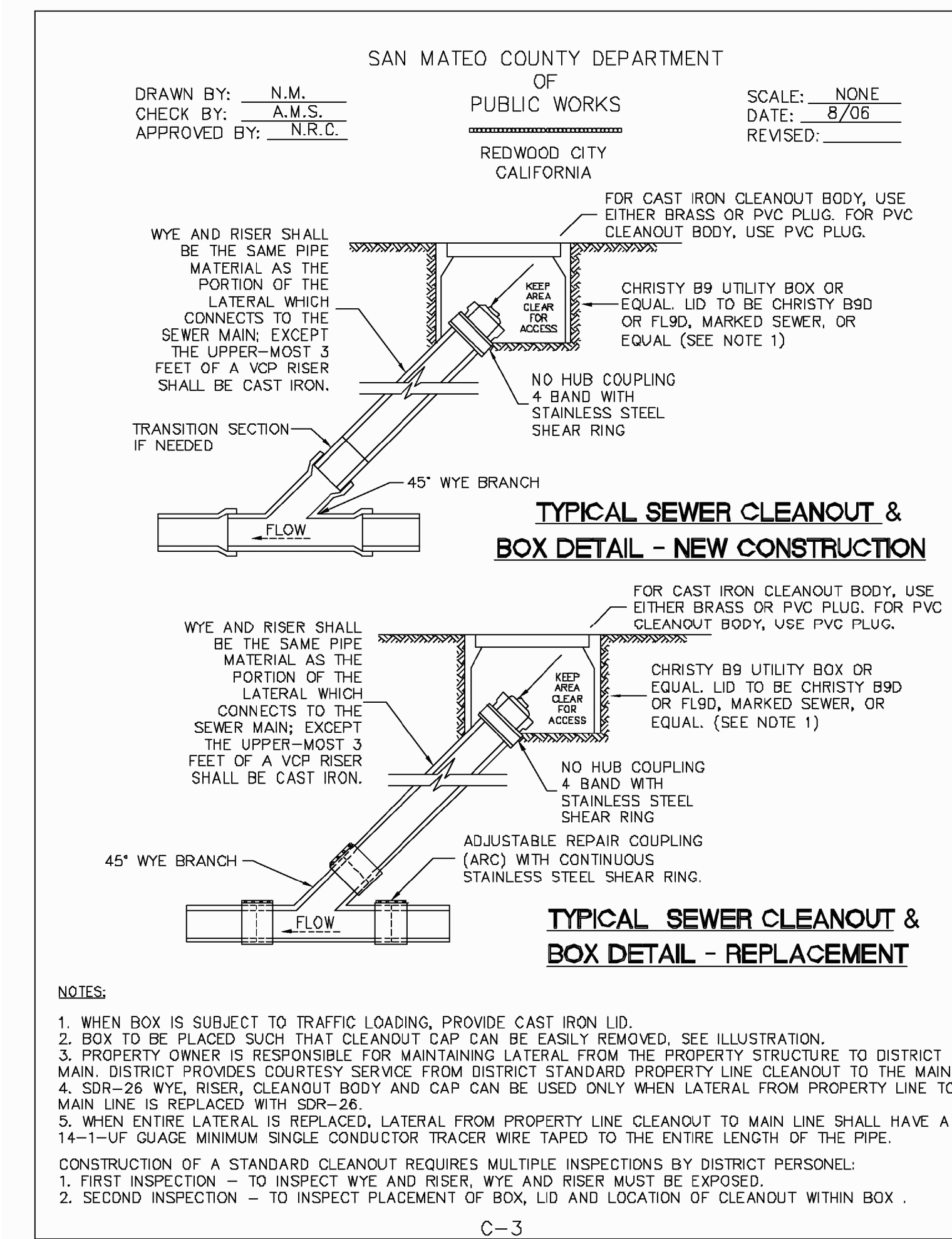
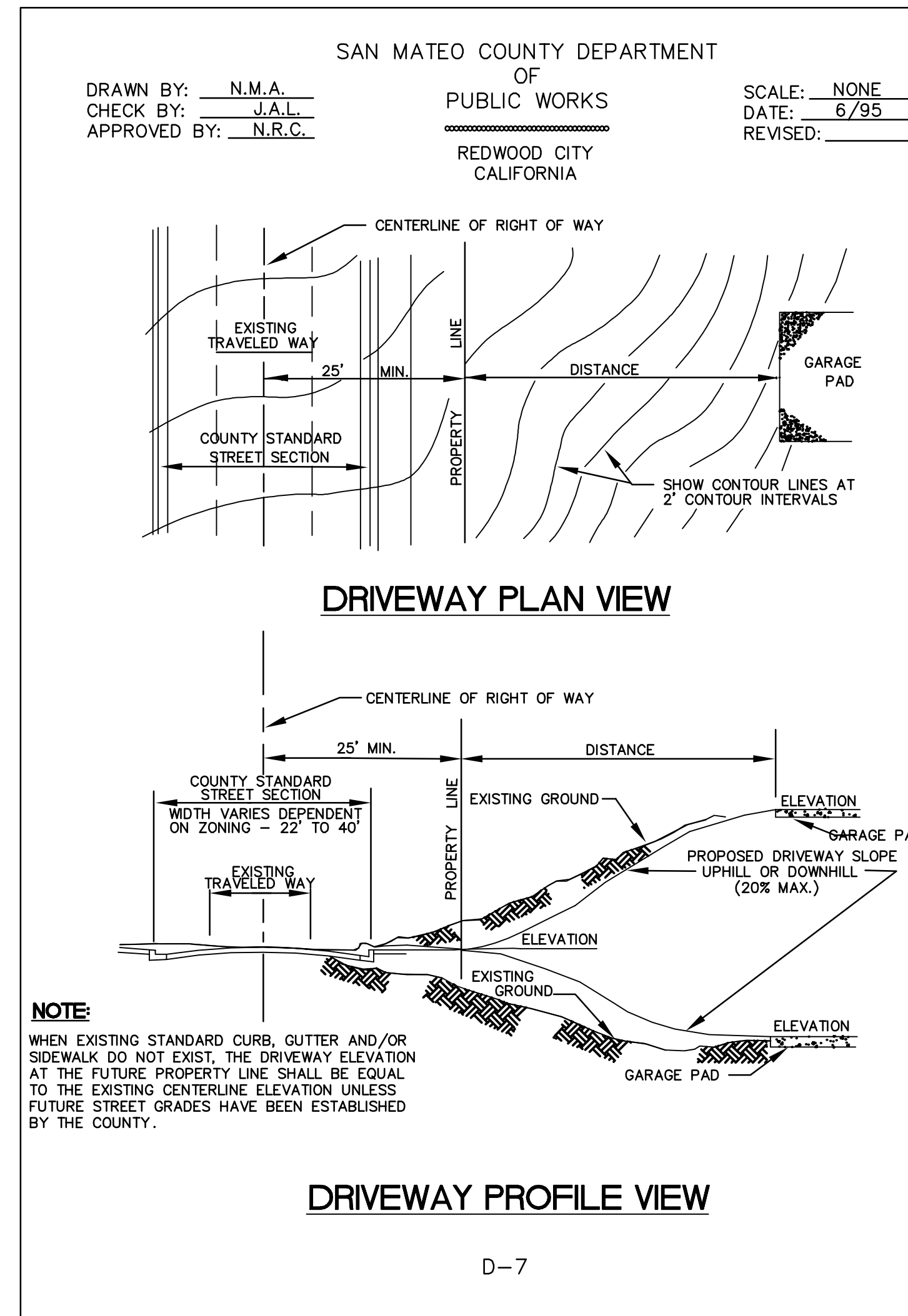
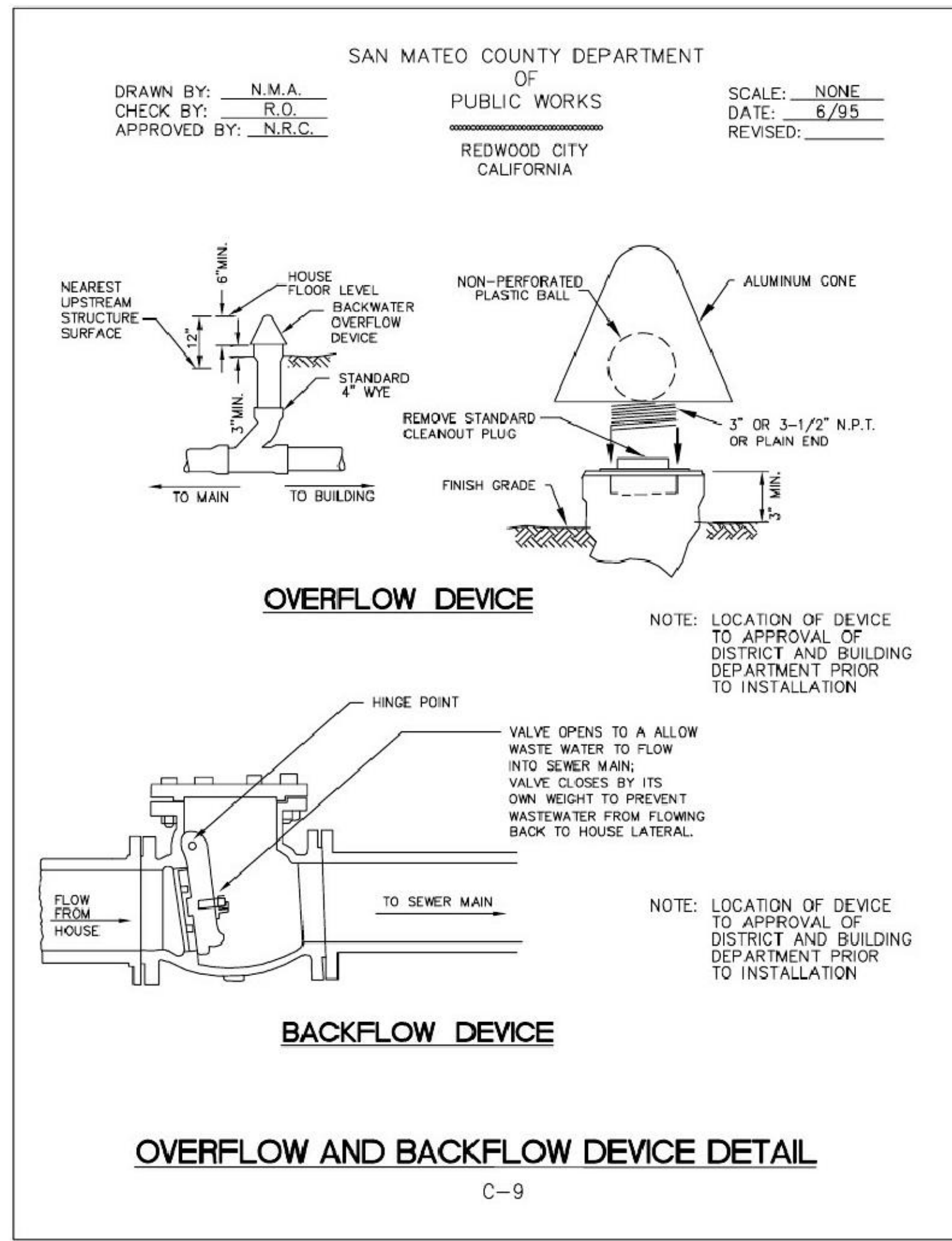
DATE: 7/20/22
BY: [Signature]

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PLOT DATE: 07-21-22
PLOTTED BY: [Name]

ALL EROSION CONTROL MEASURES SHALL BE IN PLACE BY OCTOBER 1ST THROUGH APRIL 30TH AND MAINTAINED DURING ALL PHASES OF CONSTRUCTION.

Date	Scale	Design	Drawn	Approved	Job No.
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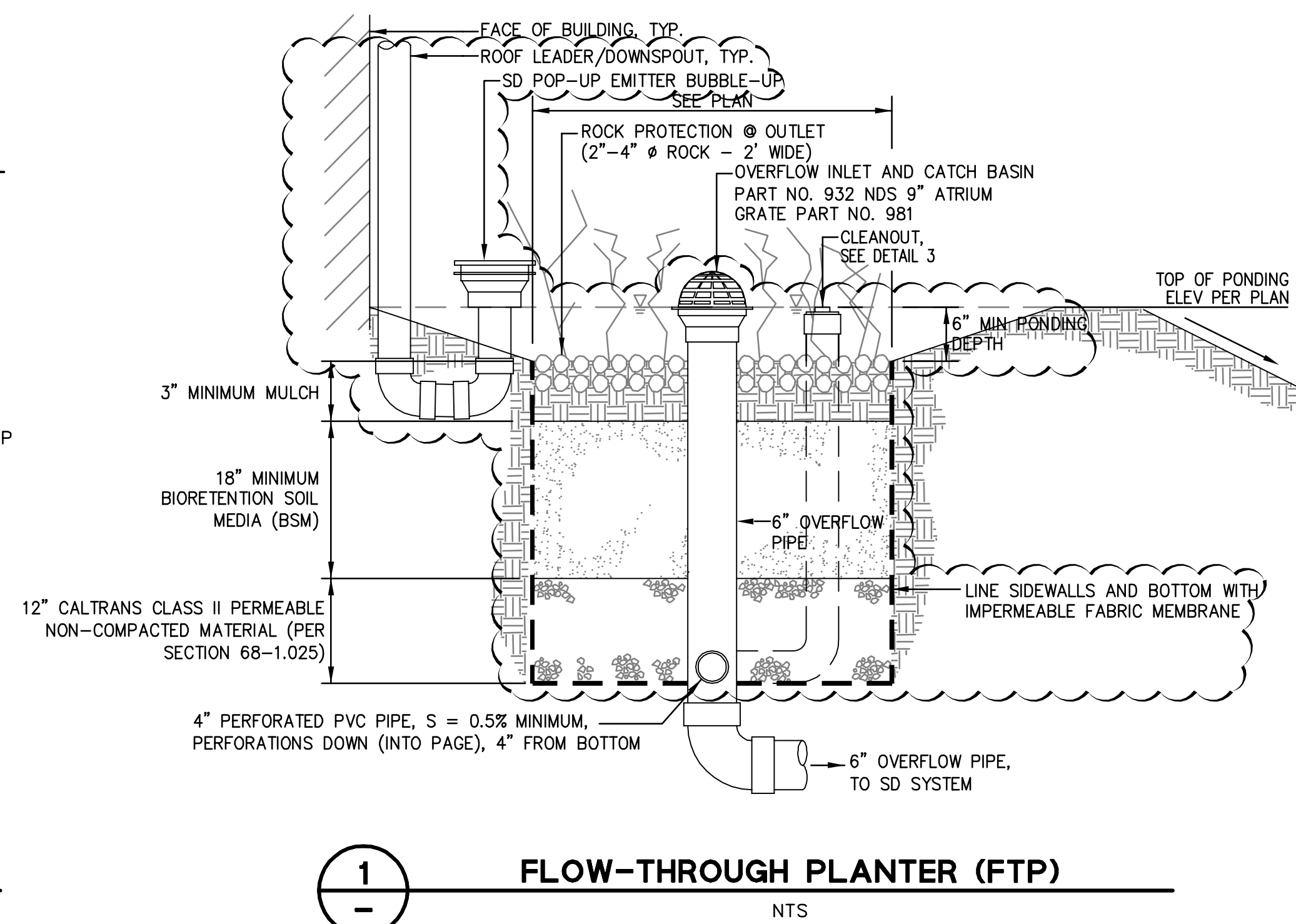
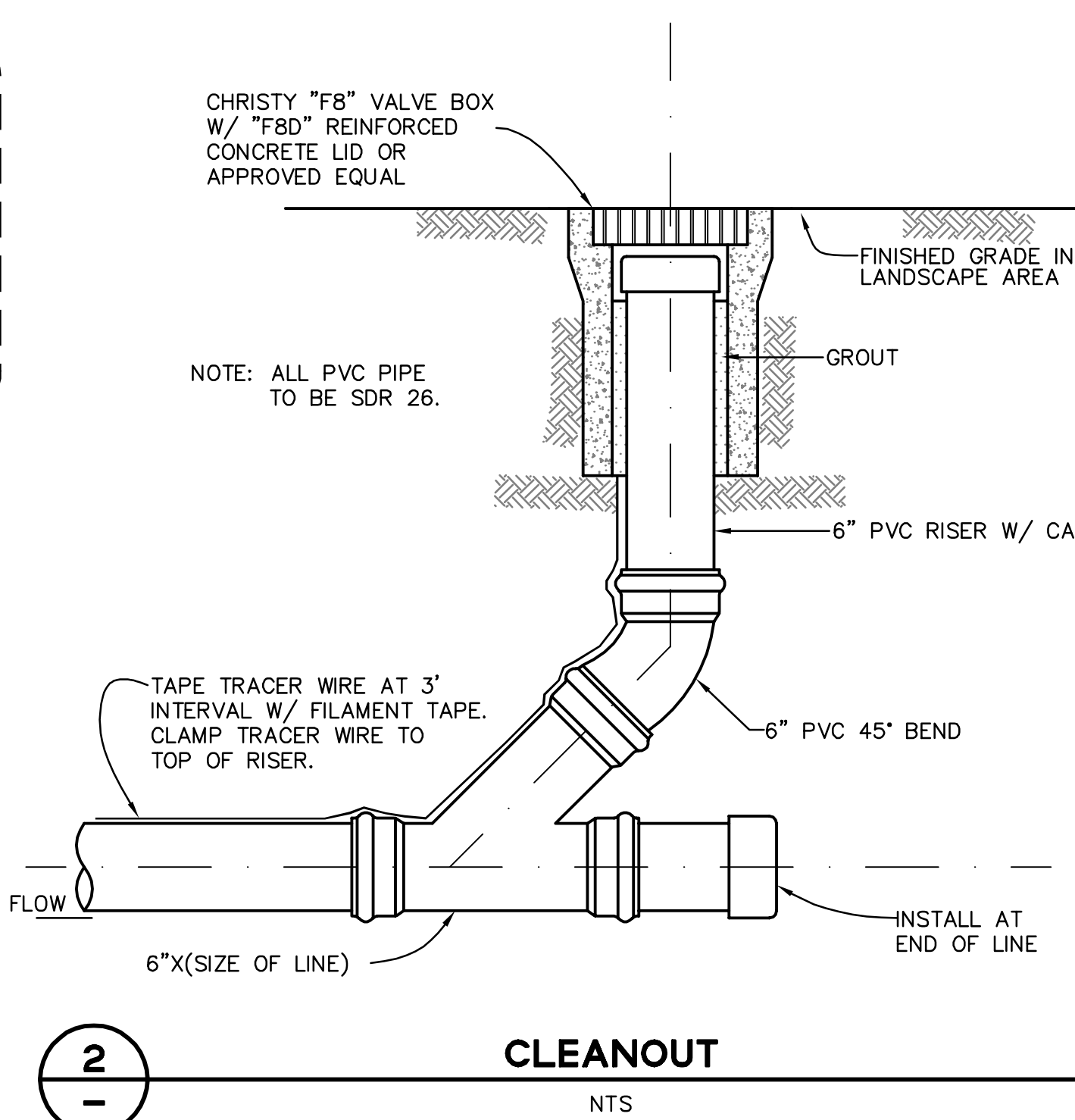
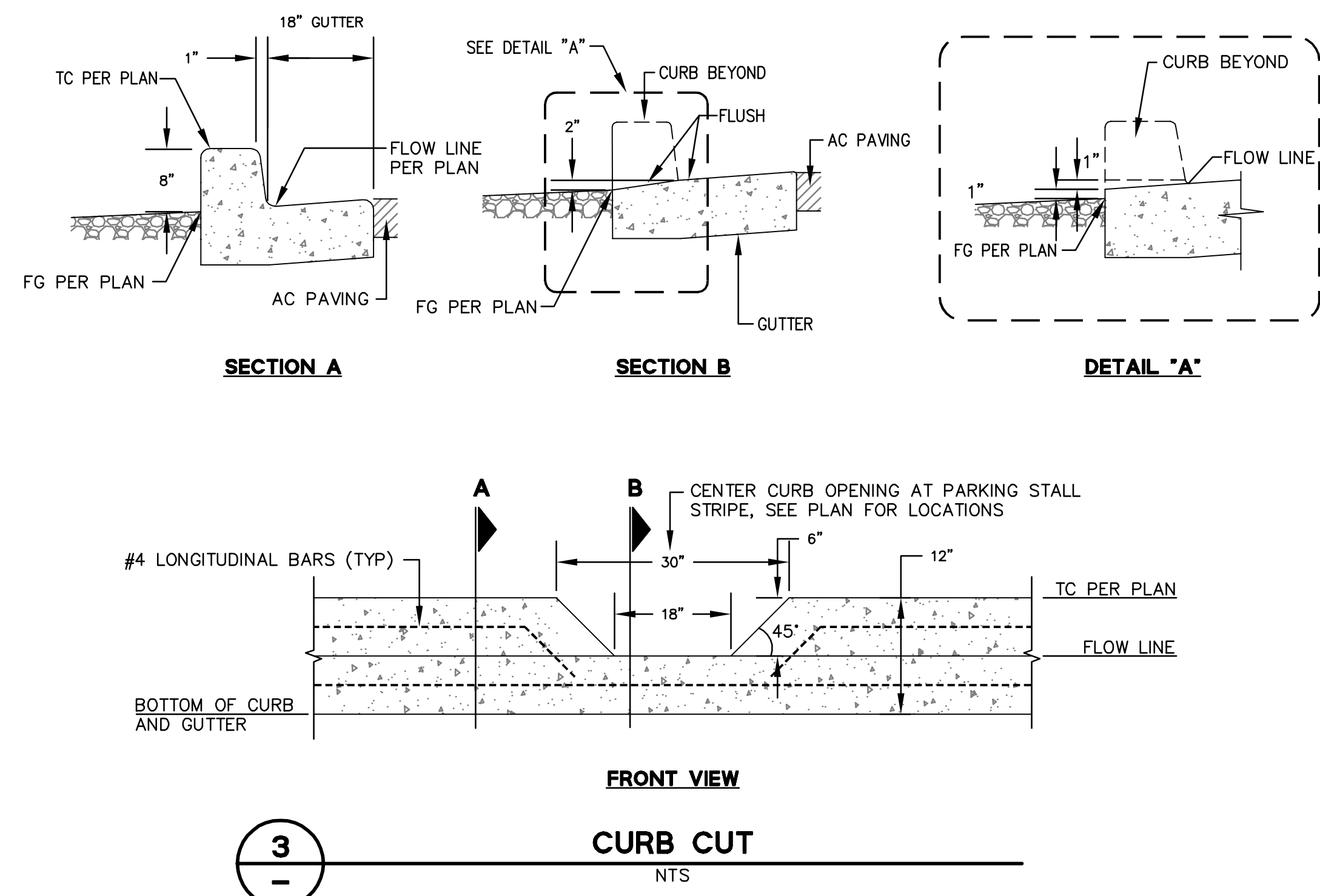
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6 SAN MATEO COUNTY OVERFLOW AND BACKFLOW DEVICE DETAIL
NTS

5 SAN MATEO COUNTY DRIVEWAY PLAN AND PROFILE VIEWS
NTS

4 SAN MATEO COUNTY TYPICAL SEWER CLEANOUT & BOX DETAIL
NTS



RECORD DRAWINGS

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BY: *[Signature]* DATE: 7/20/22

255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
PHONE: (650) 482-6300
FAX: (650) 482-6399

BKF
ENGINEERS / SURVEYORS / PLANNERS

REGISTERED PROFESSIONAL ENGINEER
No. C67726
CIVIL
STATE OF CALIFORNIA

CALIFORNIA

HIGHLAND ESTATES LOT 10 IMPROVEMENT PLANS CONSTRUCTION DETAILS
SAN MATEO COUNTY

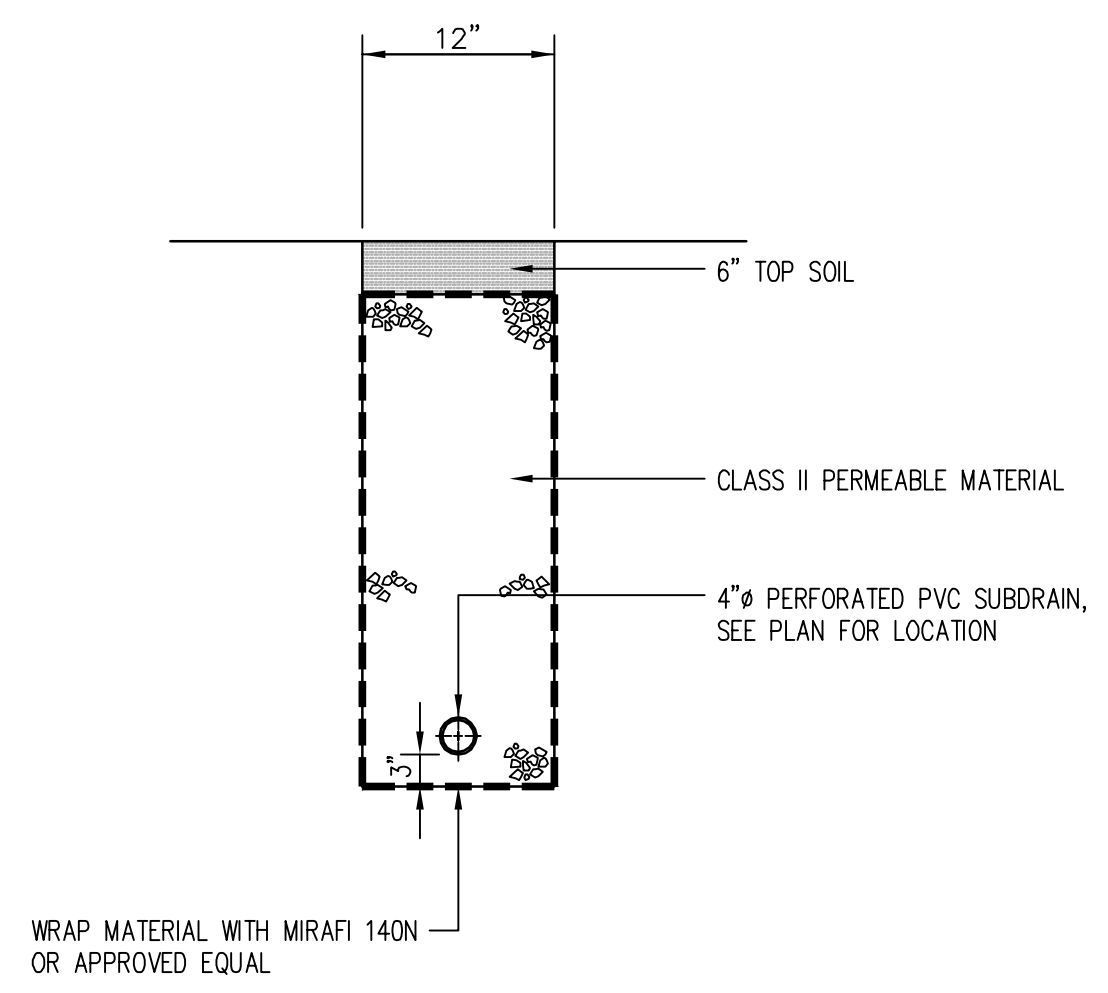
CITY OF SAN MATEO

No.	Revisions
AS-BUILT	5/17/2022

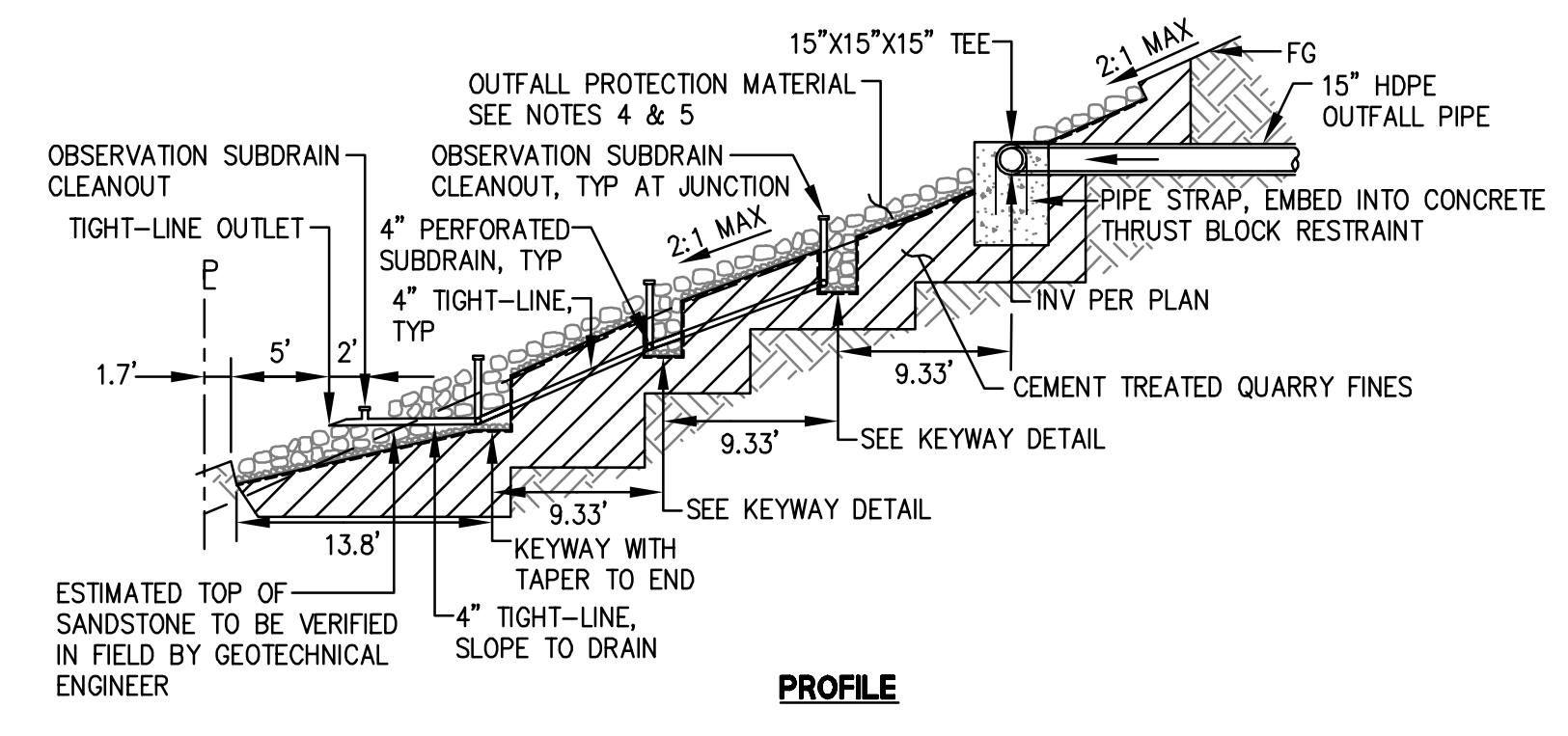
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Design: JT
Drawn: LF
Approved: RH/JT
Job No: 90168-20

Sheet Number: **C10.70**
OF

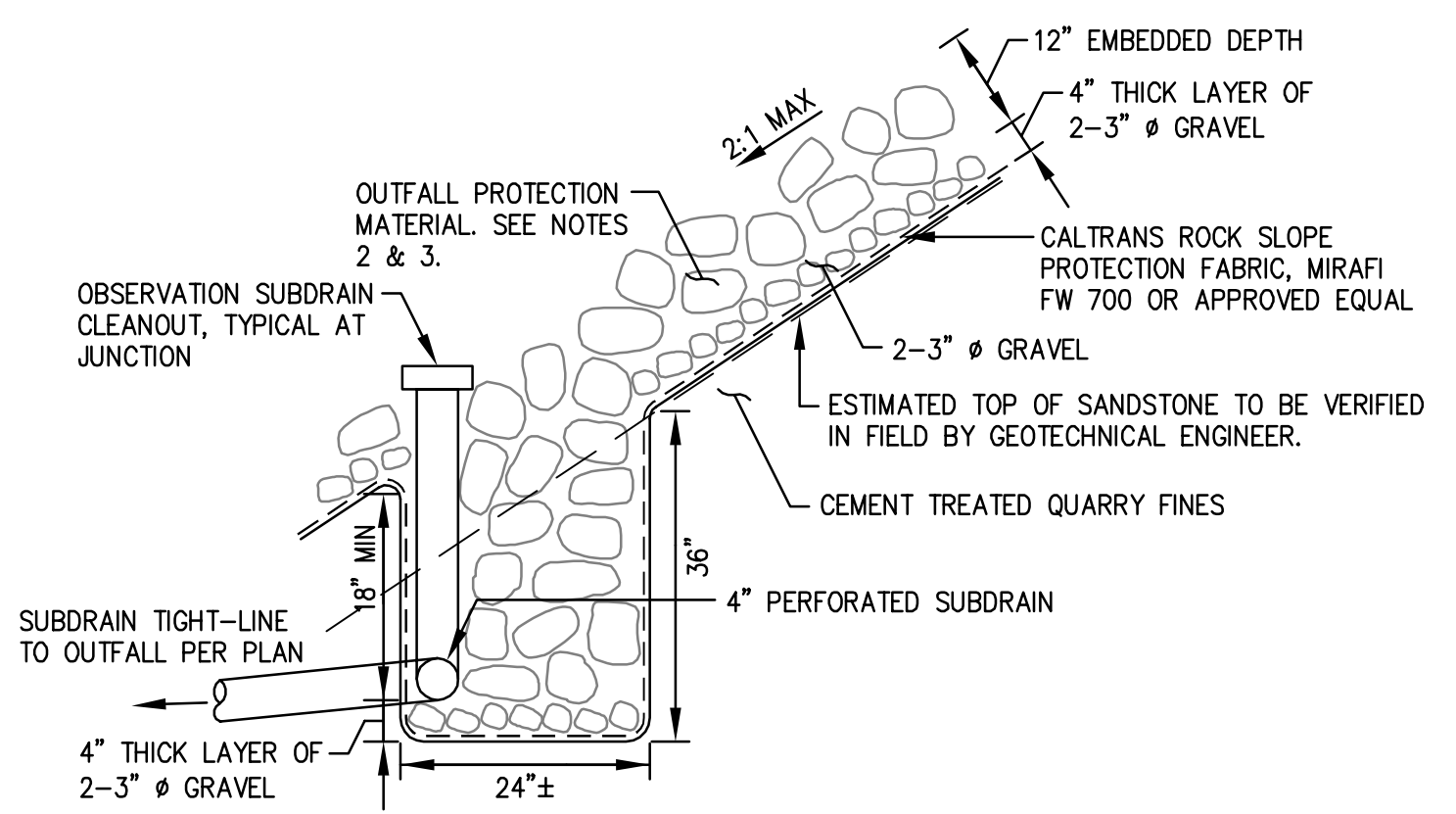
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PLOT DATE: 07-21-22
PLOTTED BY: hoi.t



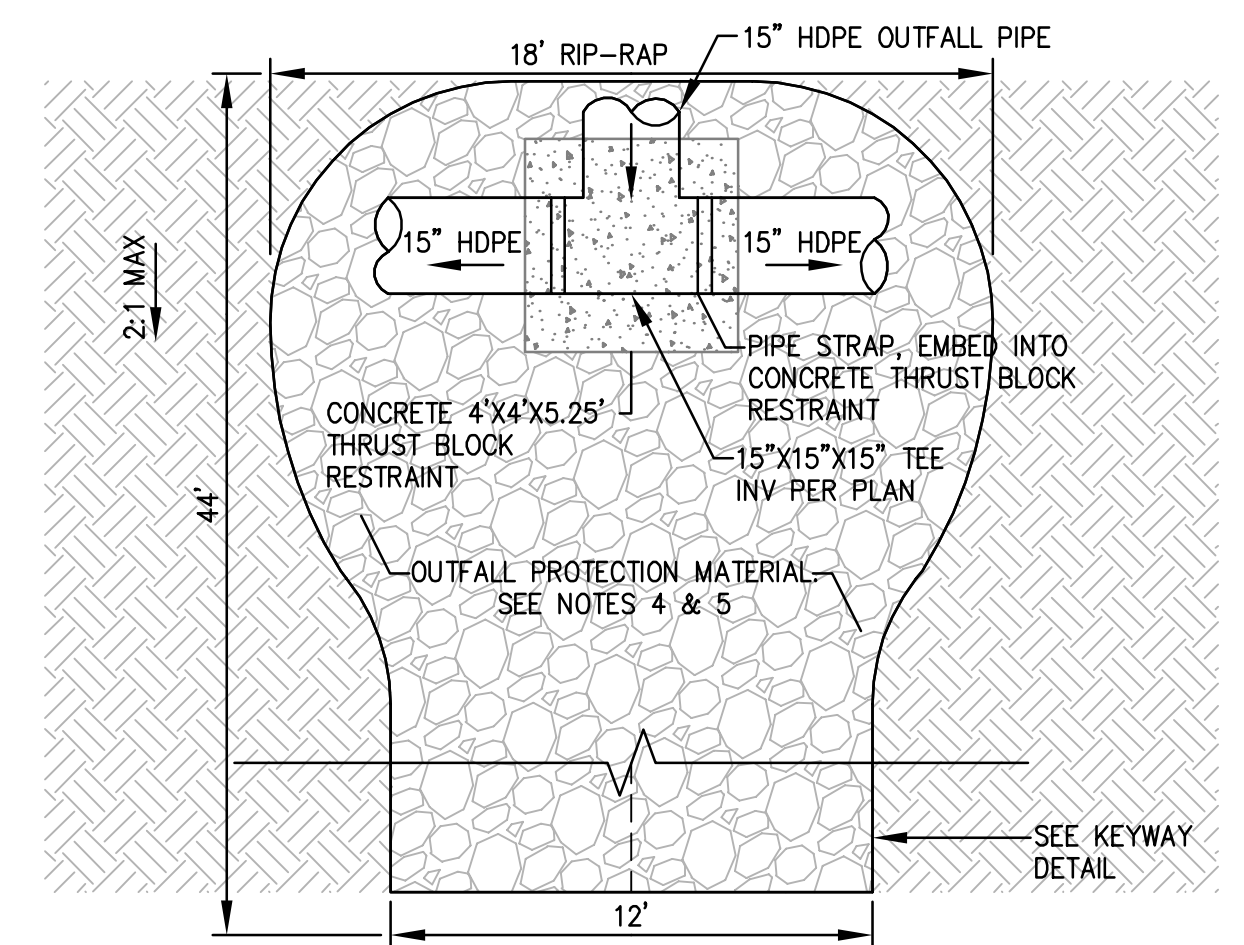
5
 SUBDRAIN
 NTS



PROFILE



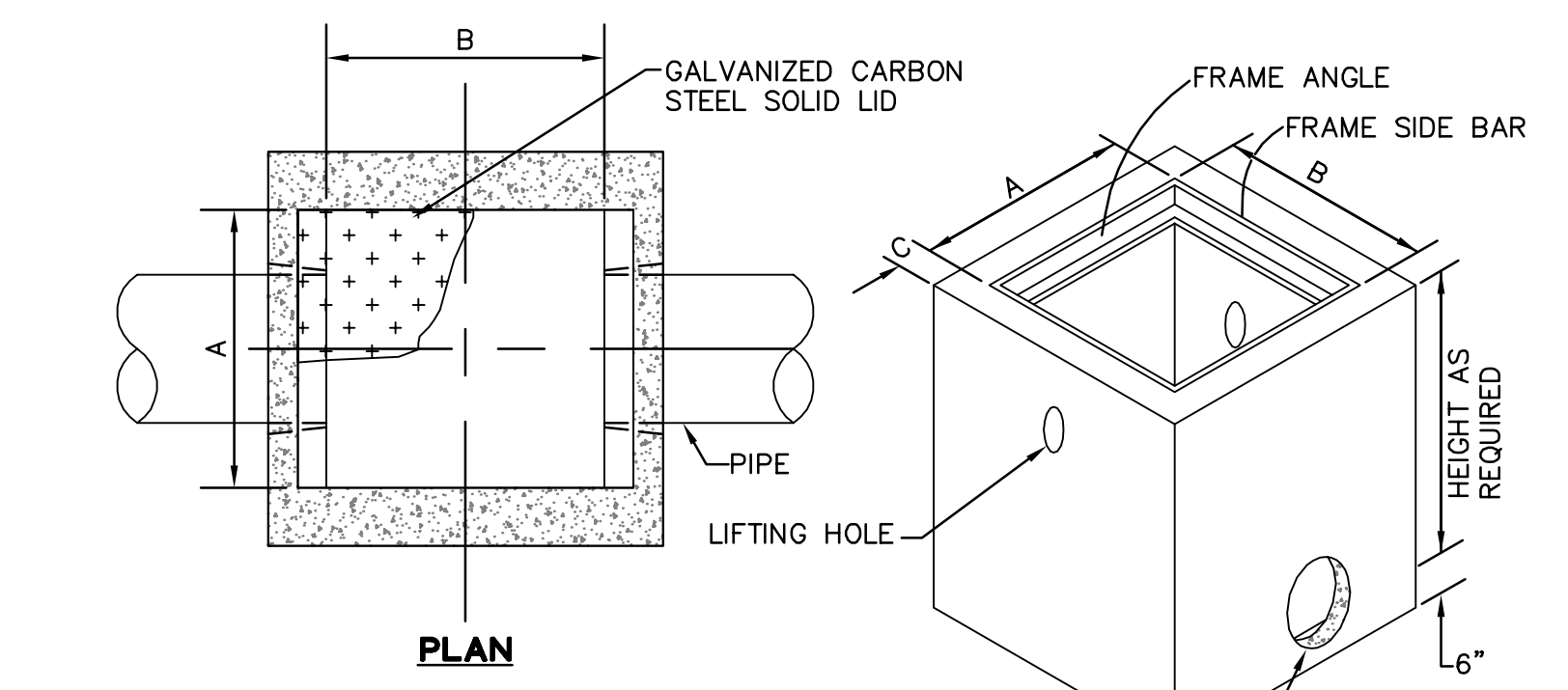
KEYWAY DETAIL



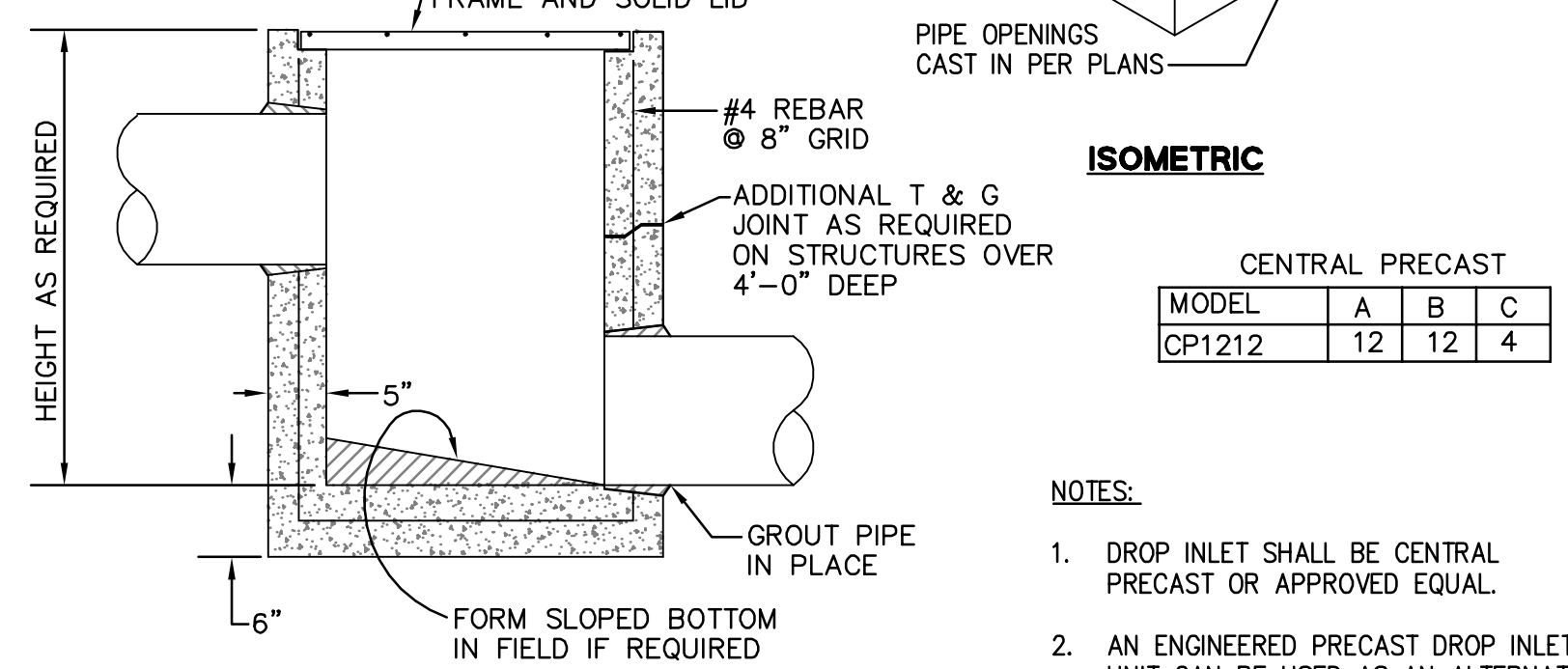
SECTION

- NOTES:**
1. ALL HEADWALLS SHALL BE PLASTIC AND CONSTRUCTED IN CONFORMANCE WITH CALTRANS STANDARD PLAN D94A AND SECTION 70-5.02 OF THE CALTRANS STANDARD SPECIFICATIONS, 2015.
 2. PIPE MATERIAL TO BE HDPE, CORRUGATED EXTERIOR WITH SMOOTH INTERIOR.
 3. CONCRETE THRUST BLOCK TO BE PCC.
 4. AREA OF ROCK RIP-RAP OUTFALL/EROSION PROTECTION IN ACCORDANCE WITH VELOCITY DISSIPATION DEVICES EC-10 OF THE CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA) BMP HANDBOOK, JANUARY 2011.
 5. OUTFALL PROTECTION MATERIAL:
 -CALTRANS ROCK SLOPE PROTECTION FABRIC WITH NO. 2 BACKING CONFORMING TO SECTION 72 OF THE CALTRANS STANDARD SPECIFICATIONS.
 -CALTRANS NO. 2 TO BE ~8" SIZE ANGULAR ROCK (25 LBS, TYP.) BROWN TO DARK BROWN/BLACK IN COLOR.
 6. KEYWAYS SHALL BE EVENLY SPACED ALONG THE RIP-RAP LENGTH.
 7. SEE SHEETS C10.91 AND C10.93 FOR CEMENT TREATED QUARRY FINES.

3
 OUTLET STRUCTURE
 NTS



PLAN



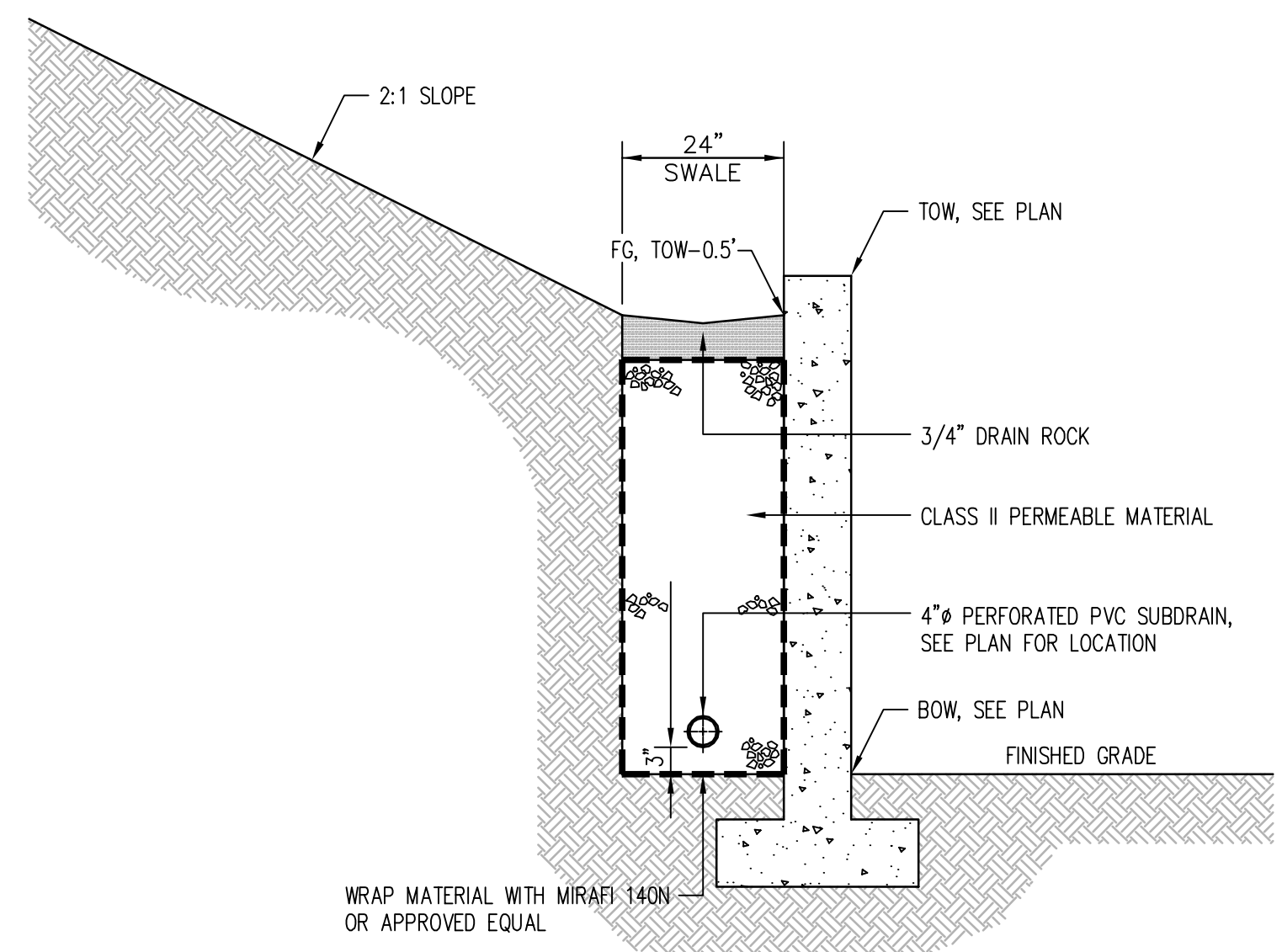
TYPICAL SECTION

CENTRAL PRECAST

MODEL	A	B	C
CP1212	12	12	4

- NOTES:**
1. DROP INLET SHALL BE CENTRAL PRECAST OR APPROVED EQUAL.
 2. AN ENGINEERED PRECAST DROP INLET UNIT CAN BE USED AS AN ALTERNATE.

2
 DROP INLET
 NTS



1
 SUBDRAIN AT WALL
 NTS

SAN MATEO COUNTY DEPARTMENT OF PUBLIC WORKS
 REDWOOD CITY CALIFORNIA

DRAWN BY: M.L.
 CHECK BY: D.M.W.
 APPROVED BY: N.R.C.

SCALE: NONE
 DATE: 6/95
 REVISED: 7/97

TYPE A (IN ROADWAY)

TYPE B (OUTSIDE ROADWAY)

NOTES:

1. SAND... MATERIAL FREE FROM ORGANIC MATTER AND CLAY WITH A SIEVE GRADATION BY WEIGHT AS FOLLOWS:

SIEVE SIZE	% PASSING SIEVE
No. 4	100
No. 200	0-5
2. STRUCTURE BACKFILL MATERIAL... MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 20 AND SIEVE GRADATION BY WEIGHT AS FOLLOWS:

SIEVE SIZE	% PASSING SIEVE
3"	100
No. 4	35-100
No. 30	20-100
3. BACKFILL MATERIAL... MATERIAL FROM EXCAVATION, FREE FROM STONES OR LUMPS EXCEEDING 3 INCHES GREATEST DIMENSION, ORGANIC MATTER, OR OTHER UNSATISFACTORY MATERIAL.

STANDARD TRENCH BACKFILL AND BEDDING DETAIL

W-10

4
 SAN MATEO COUNTY
 STANDARD TRENCH BACKFILL & BEDDING DETAIL
 NTS

RECORD DRAWINGS

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BY: *[Signature]* DATE: 7/20/22

No.	Revisions

Date: 10/8/2018
 Scale: AS SHOWN
 Design: RH
 Drawn: NH
 Approved: RH/JT
 Job No: 950168-20

Sheet Number: **C10.71**
 OF



HIGHLAND ESTATES
LOT 10 IMPROVEMENT PLANS
LOGISTICS PLAN

Date	10/8/2018
Scale	1"=20'
Design	JT
Drawn	LF
Approved	RJ/JT
Job No	90168-20

Sheet Number:
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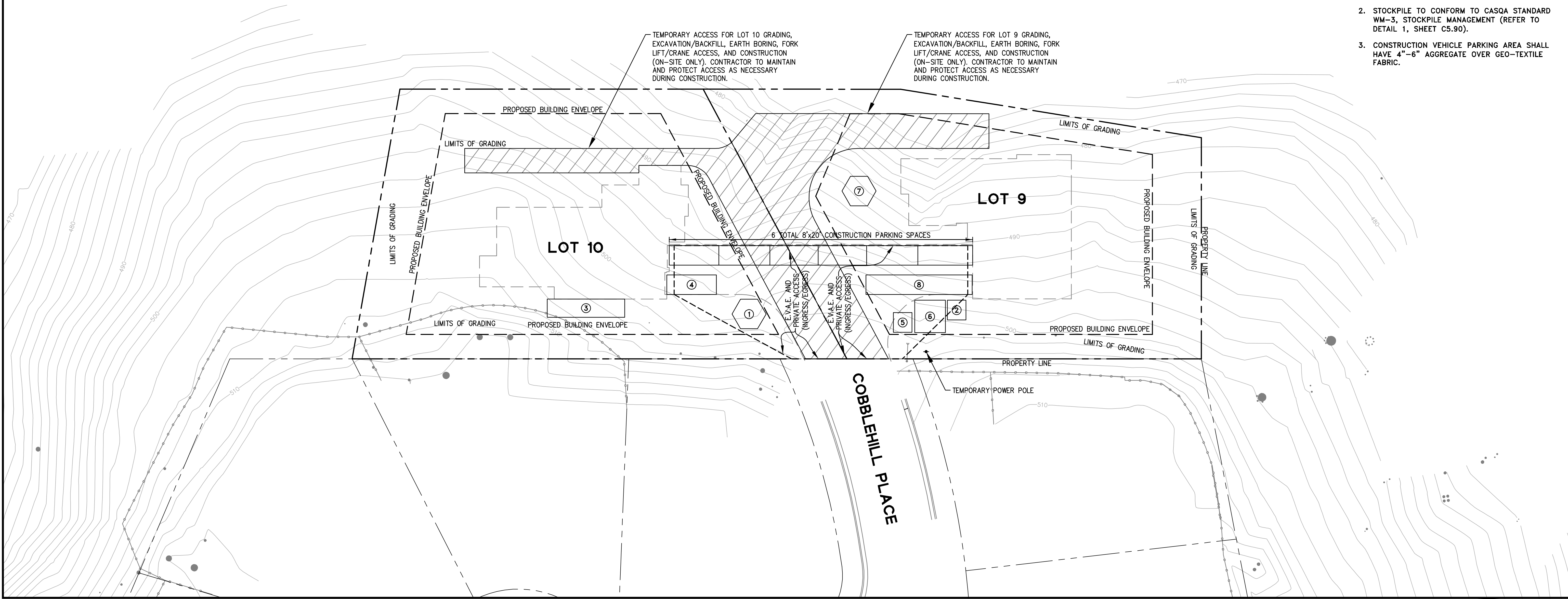


SITE KEY:

- ① WASH OUT PIT, PER CASQA STANDARD WM-8, CONCRETE WASTE MANAGEMENT (REFER TO DETAIL 2, SHEET C10.90).
 - ② TOILETS AND HAND WASH STATION
 - ③ MATERIALS STORAGE
 - ④ DEBRIS BOX LOCATION
 - ⑤ TOOL STORAGE LOCKER
 - ⑥ JOB SITE TRAILER
 - ⑦ STOCKPILE AREA
 - ⑧ CONSTRUCTION EQUIPMENT PARKING
- TEMPORARY CONSTRUCTION ACCESS

CONSTRUCTION NOTES:

1. CONSTRUCTION ACCESS ROUTE SHALL BE FROM COBBLEHILL PLACE TO INTERSTATE 280:
HEAD SOUTHWEST ON COBBLEHILL PL TOWARD WOODCREEK CT.
TURN LEFT ONTO TICONDEROGA DR.
TURN RIGHT ONTO POLHEMUS RD.
TURN LEFT TO MERGE ONTO CA-92 TOWARD I-280.
2. STOCKPILE TO CONFORM TO CASQA STANDARD WM-3, STOCKPILE MANAGEMENT (REFER TO DETAIL 1, SHEET C5.90).
3. CONSTRUCTION VEHICLE PARKING AREA SHALL HAVE 4"-6" AGGREGATE OVER GEO-TEXTILE FABRIC.



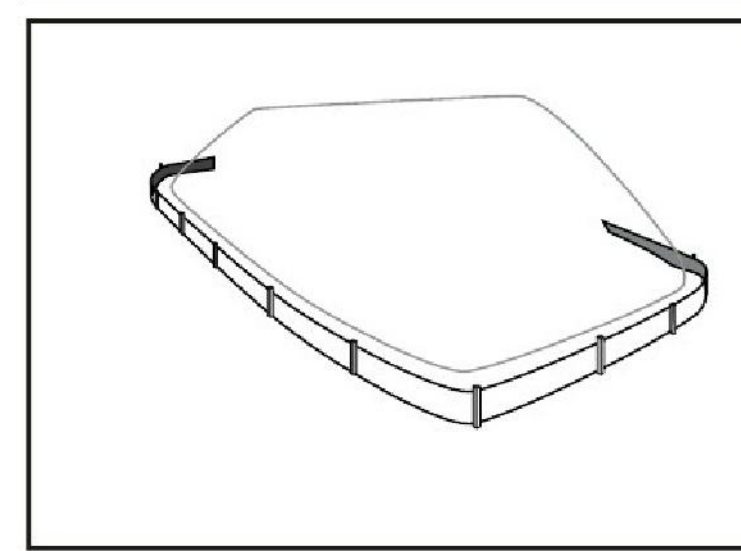
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PLOT DATE: 07-21-22 PLOTTED BY: hoi1

No.	Revisions
10/8/2018	Scale AS SHOWN
	Design JT
	Drawn LE
	Approved RH/JT
	Job No. 950168-20

Sheet Number:
C10.90
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Stockpile Management

WM-3



Categories

EC	Erosion Control	
SE	Sediment Control	<input checked="" type="checkbox"/>
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	<input checked="" type="checkbox"/>
WM	Waste Management and Materials Pollution Control	<input checked="" type="checkbox"/>

Legend:
 Primary Category
 Secondary Category

Description and Purpose
 Stockpile management procedures and practices are designed to reduce or eliminate air and stormwater pollution from stockpiles of soil, soil amendments, sand, paving materials such as portland cement concrete (PCC) rubble, asphalt concrete (AC), asphalt concrete rubble, aggregate base, aggregate sub base or pre-mixed aggregate, asphalt binder (so called "cold mix" asphalt), and pressure treated wood.

Suitable Applications
 Implement in all projects that stockpile soil and other loose materials.

- Limitations**
- Plastic sheeting as a stockpile protection is temporary and hard to manage in windy conditions. Where plastic is used, consider use of plastic tarps with nylon reinforcement which may be more durable than standard sheeting.
 - Plastic sheeting can increase runoff volume due to lack of infiltration and potentially cause perimeter control failure.
 - Plastic sheeting breaks down faster in sunlight.
 - The use of plastic materials should be avoided when feasible and photodegradable plastics should not be used.

Implementation
 Protection of stockpiles is a year-round requirement. To properly manage stockpiles:

Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>
Trash	<input checked="" type="checkbox"/>
Metals	<input checked="" type="checkbox"/>
Bacteria	<input checked="" type="checkbox"/>
Oil and Grease	<input checked="" type="checkbox"/>
Organics	<input checked="" type="checkbox"/>

Potential Alternatives
 none



Stockpile Management

WM-3

- On larger sites, a minimum of 50 ft separation from concentrated flows of stormwater, drainage courses, and inlets is recommended.
- All stockpiles are required to be protected immediately if they are not scheduled to be used within 14 days.
- Protect all stockpiles from stormwater run-on using temporary perimeter sediment barriers such as compost berms (SE-13), temporary silt dikes (SE-12), fiber rolls (SE-5), silt fences (SE-1), sandbags (SE-8), gravel bags (SE-6), or biofilter bags (SE-14). Refer to the individual fact sheet for each of these controls for installation information.
- Implement wind erosion control practices as appropriate on all stockpiled material. For specific information, see WE-1, Wind Erosion Control.
- Manage stockpiles of contaminated soil in accordance with WM-7, Contaminated Soil Management.
- Place bagged materials on pallets and under cover.
- Ensure that stockpile coverings are installed securely to protect from wind and rain.
- Some plastic covers withstand weather and sunlight better than others. Select cover materials or methods based on anticipated duration of use.

Protection of Non-Active Stockpiles
 Non-active stockpiles of the identified materials should be protected further as follows:

- Soil stockpiles**
- Cover and protect soil stockpiles with soil stabilization measures and a temporary perimeter sediment barrier at all times.
 - Consider temporary vegetation for topsoil piles that will be stockpiled for extended periods.
- Stockpiles of Portland cement concrete rubble, asphalt concrete, asphalt concrete rubble, aggregate base, or aggregate sub base**
- Provide covers and protect these stockpiles with a temporary perimeter sediment barrier at all times.
- Stockpiles of "cold mix"**
- Cover cold mix stockpiles and place them on plastic sheeting (or comparable material) and surround the stockpiles with a berm at all times.
- Stockpiles of fly ash, stucco, hydrated lime**
- Cover stockpiles of materials that may raise the pH of runoff (i.e., basic materials) with plastic and surround the stockpiles with a berm at all times.

WM-3 - STOCKPILE MANAGEMENT

NTS

Stockpile Management

WM-3

Stockpiles/Storage of wood (Pressure treated with chromated copper arsenate or ammoniacal copper zinc arsenate)

- Cover treated wood with plastic sheeting (or comparable material) and surround with a berm at all times.

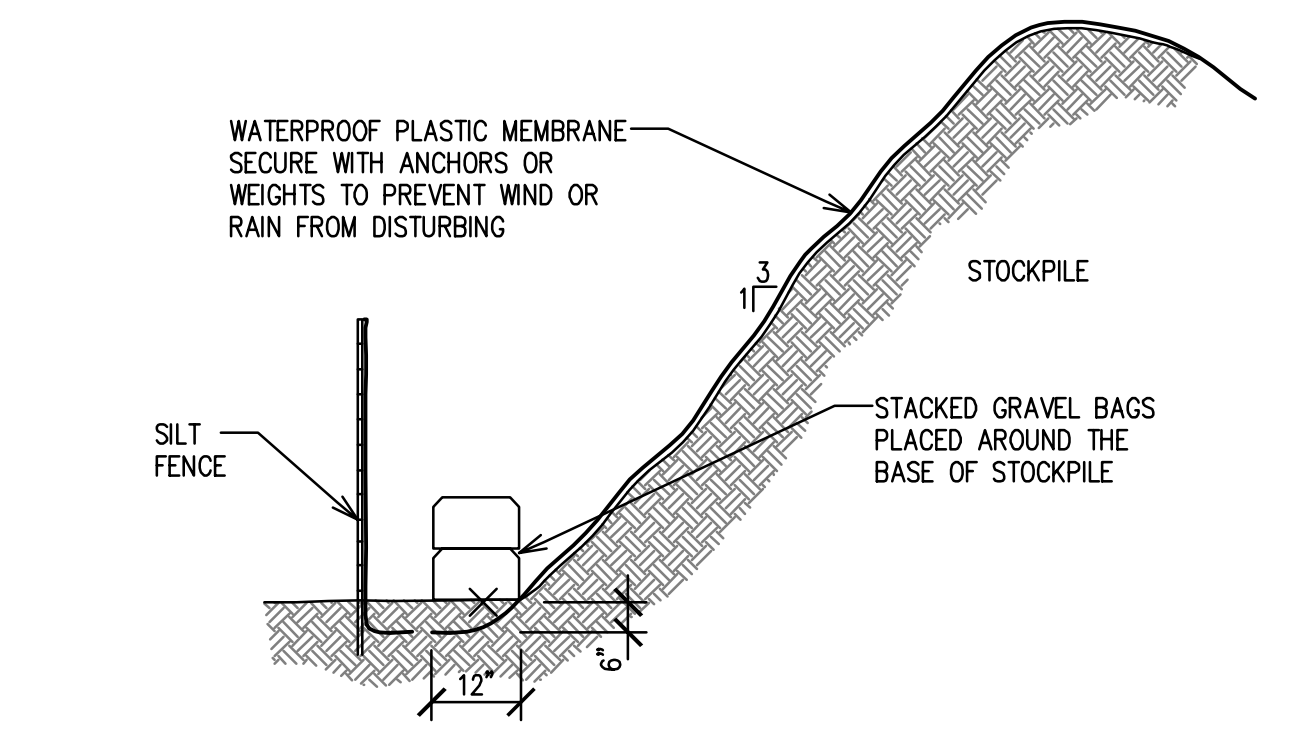
Protection of Active Stockpiles
 Active stockpiles of the identified materials should be protected as follows:

- All stockpiles should be covered and protected with a temporary linear sediment barrier prior to the onset of precipitation.
- Stockpiles of "cold mix" and treated wood, and basic materials should be placed on and covered with plastic sheeting or comparable material and surrounded by a berm prior to the onset of precipitation.
- The downstream perimeter of an active stockpile should be protected with a linear sediment barrier or berm and runoff should be diverted around or away from the stockpile on the upstream perimeter.

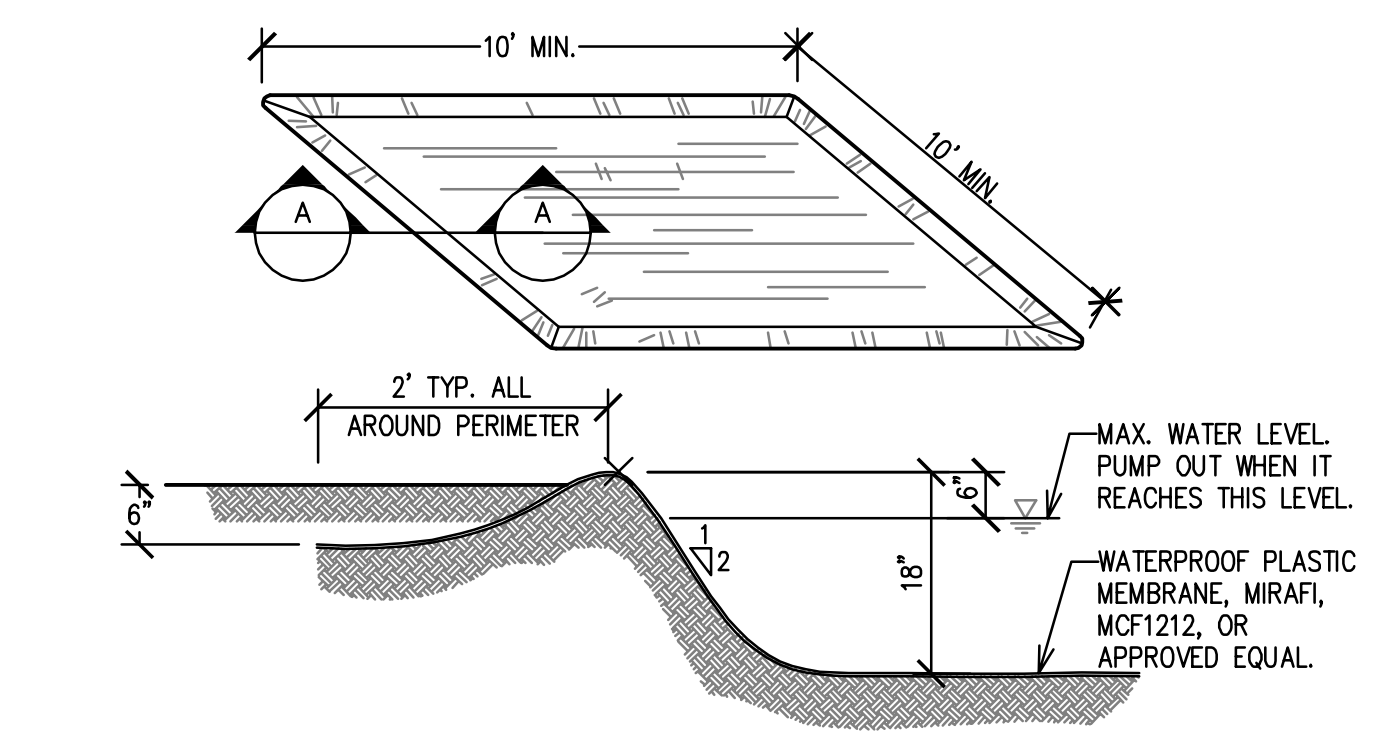
Costs
 For cost information associated with stockpile protection refer to the individual erosion or sediment control BMP fact sheet considered for implementation (For example, refer to SE-1 Silt Fence for installation of silt fence around the perimeter of a stockpile.)

- Inspection and Maintenance**
- Stockpiles must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
 - It may be necessary to inspect stockpiles covered with plastic sheeting more frequently during certain conditions (for example, high winds or extreme heat).
 - Repair and/or replace perimeter controls and covers as needed to keep them functioning properly.
 - Sediment shall be removed when it reaches one-third of the barrier height.

References
 Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.



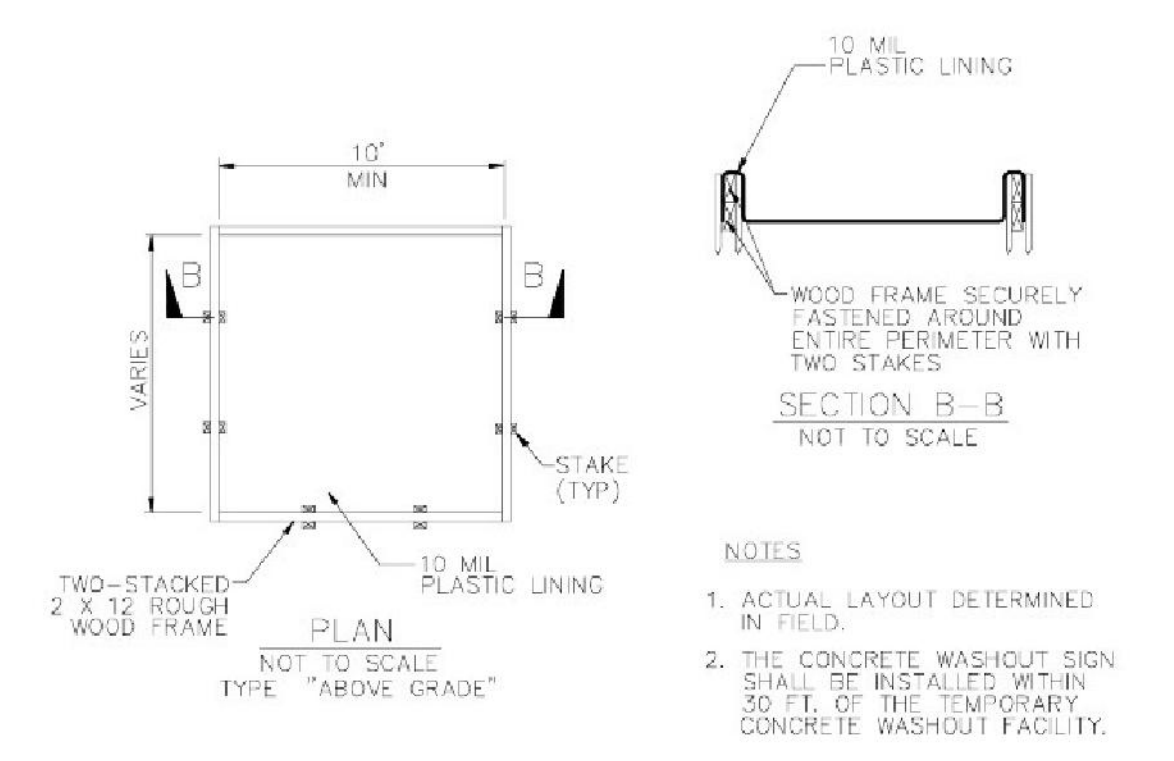
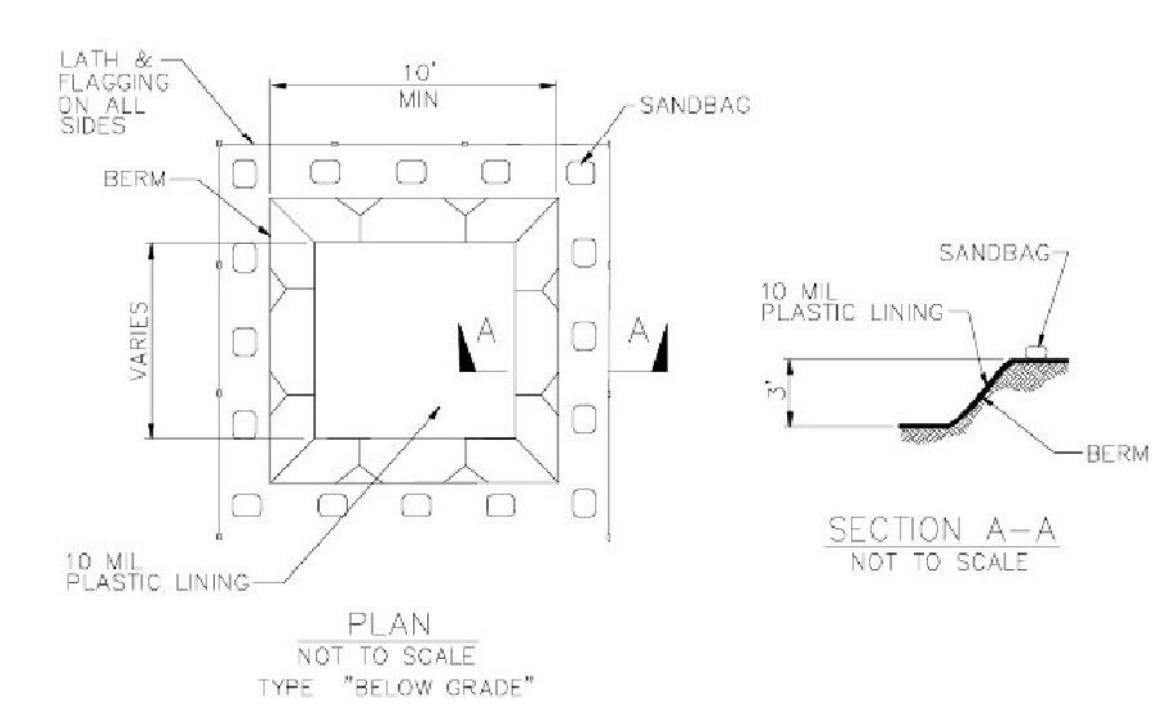
1
STOCKPILE COVERING
 (PER CASQA STANDARD WM-3, STOCKPILE MANAGEMENT, SEE LEFT)
 NTS



2
TEMPORARY WASHOUT PIT
 (PER CASQA STANDARD WM-8, CONCRETE WASTE MANAGEMENT, SEE LEFT)
 NTS

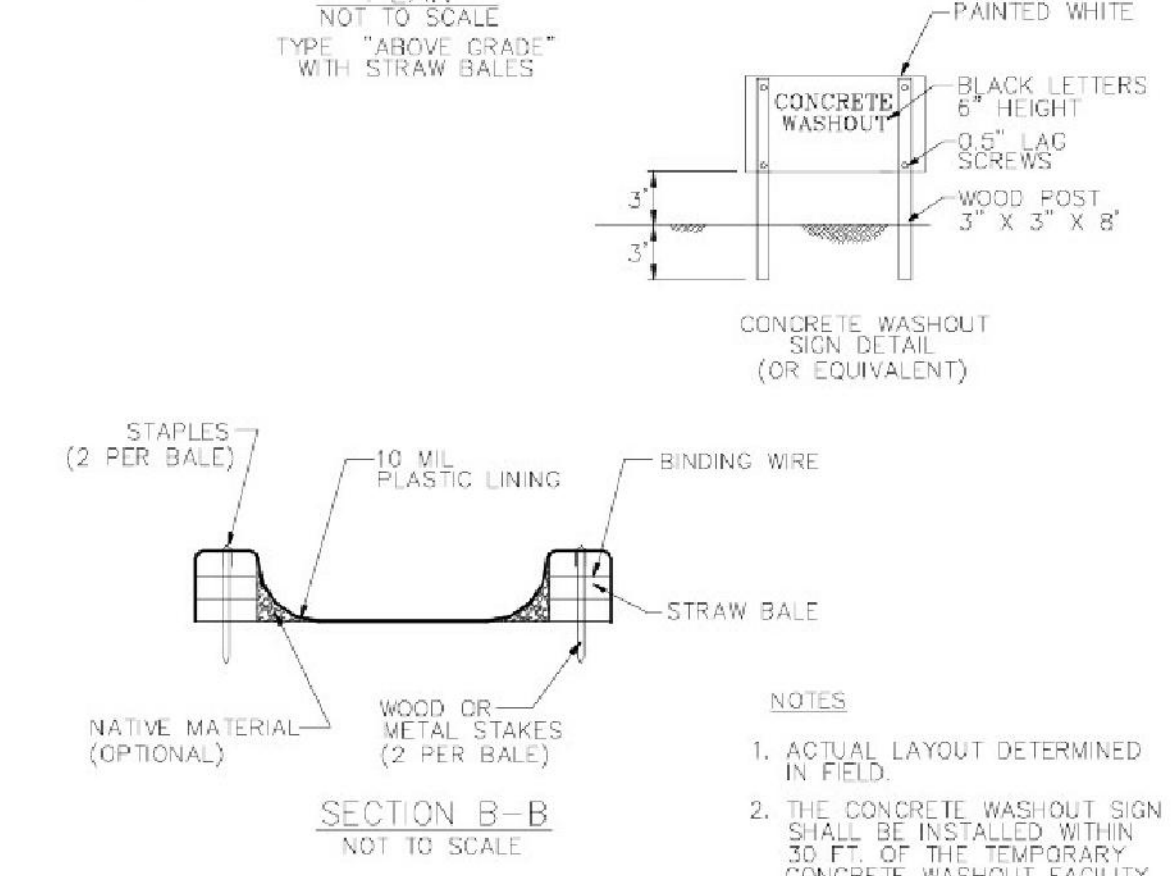
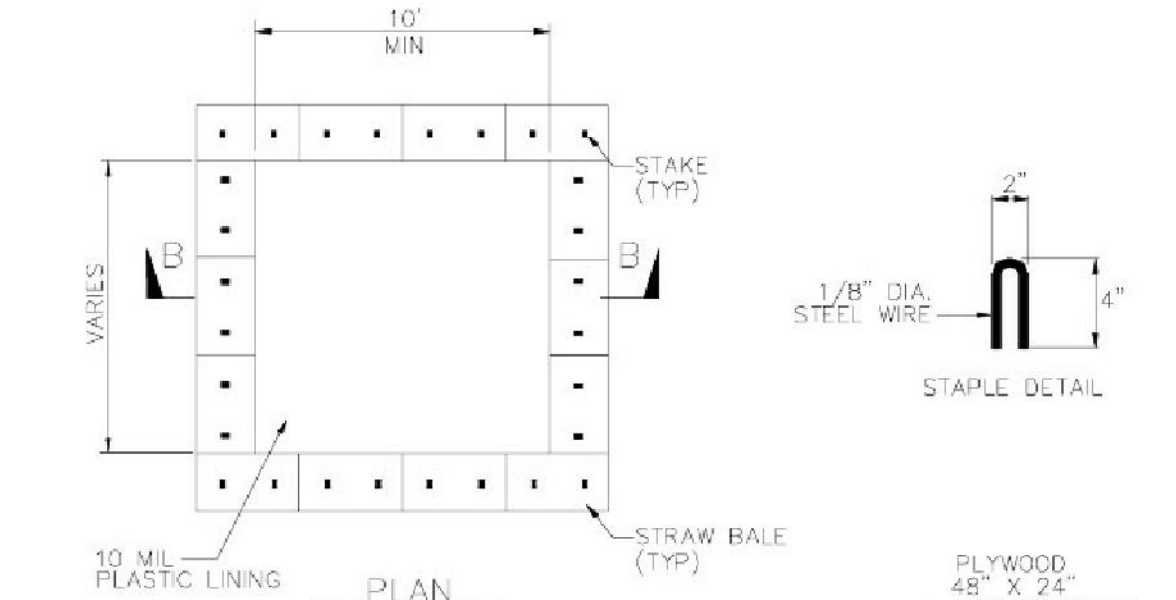
Concrete Waste Management

WM-8



Concrete Waste Management

WM-8



WM-8 - CONCRETE WASTE MANAGEMENT

NTS

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 BY: [Signature]
 DATE: 7/20/22