

# COUNTY OF SANTA CLARA

## General Construction Specifications

### GENERAL CONDITIONS

- ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS AND/OR GEOTECHNICAL REPORT PREPARED BY GEOFORNSICS INC AND DATED JULY 28,2023. THIS REPORT IS SUPPLEMENTED BY: 1) THESE PLANS 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 LATTER. THE PERFORMANCE AND COMPLETION OF ALL WORK MUST BE TO THE SATISFACTION OF THE COUNTY.
- DEVELOPER IS RESPONSIBLE FOR INSTALLATION OF IMPROVEMENTS SHOWN ON THESE PLANS AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THEIR CONTINUED MAINTENANCE.
- 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 AS MAY BE NECESSARY TO COMPLY WITH COUNTY STANDARDS OR CONDITIONS OF DEVELOPMENT APPROVAL.
- DEVELOPER SHALL OBTAIN ENCROACHMENT PERMITS FROM THE SANTA CLARA VALLEY WATER DISTRICT AND CALIFORNIA DEPARTMENT OF TRANSPORTATION WHERE NEEDED. COPIES OF THESE PERMITS SHALL BE KEPT AT THE JOB SITE FOR REVIEW BY THE COUNTY INSPECTOR.
- DEVELOPER SHALL REMOVE OR TRIM ALL TREES TO PROVIDE AN UNOBSTRUCTED FIFTEEN (15) FOOT VERTICAL CLEARANCE FOR ROADWAY AREA. THIS PLAN AUTHORIZES THE REMOVAL OF ONLY THOSE 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 OFFICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT REMOVAL OF ADDITIONAL TREES HAS BEEN PERMITTED.
- DEVELOPER SHALL PROVIDE ADEQUATE DUST CONTROL AS REQUIRED BY THE COUNTY INSPECTOR.
- ALL PERSONS MUST 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.
- UPON DISCOVERING OR UNEARTHING ANY BURIAL SITE AS EVIDENCED BY HUMAN SKELETAL REMAINS OR ARTIFACTS, THE PERSON MAKING SUCH DISCOVERY SHALL IMMEDIATELY NOTIFY THE COUNTY CORNER 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 LAND DEVELOPMENT OFFICE IN ACCORD WITH PROVISIONS OF THIS ORDINANCE (COUNTY ORDINANCE CODE SECTION B6-18).
- THESE PLANS ARE FOR THE WORK DESCRIBED IN THE PROJECT WORK ONLY. A SEPARATE PERMIT WILL BE REQUIRED FOR THE SEPTIC LINE CONSTRUCTION. ANY DEVIATION FROM THESE APPROVED PLANS SHALL BE RE-APPROVED IN WRITING BY THE COUNTY ENGINEER PRIOR TO CONSTRUCTION.

### CONSTRUCTION STAKING

- 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 CONTRACTORS. LATERAL OFFSET OF STAKES SET FOR CURBS AND GUTTERS SHALL NOT EXCEED 2 1/2 FEET FROM BACK OF CURB.
- ANY PROPERTY LINE STAKES OR ROAD MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY DEVELOPER'S ENGINEER AND LICENSED LAND SURVEYOR.
- PROPERTY 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.
- 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.

### CONSTRUCTION INSPECTION

- CONTRACTOR SHALL NOTIFY PERMIT INSPECTION UNIT, SANTA CLARA COUNTY PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE.
- THE COUNTY REQUESTS A MINIMUM OF 24 HOURS ADVANCE NOTICE FOR GENERAL INSPECTION, 48 HOURS FOR ASPHALT CONCRETE INSPECTION.
- INSPECTION BY SANTA CLARA COUNTY SHALL BE LIMITED TO INSPECTION OF MATERIALS AND CONSTRUCTION TO OBSERVE THEIR COMPLIANCE WITH PLANS & SPECIFICATIONS BUT DOES NOT INCLUDE RESPONSIBILITY FOR THE SUPERINTENDING OF CONSTRUCTION, SITE CONDITIONS, EQUIPMENT OR PERSONNEL. CONTRACTOR SHALL NOTIFY THE COUNTY LAND DEVELOPMENT INSPECTOR AT PHONE (408) 299-6868 AT LEAST 24 HOURS PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE.
- DEVELOPER AND/OR HIS AUTHORIZED REPRESENTATIVE MUST SUBMIT WRITTEN REQUEST FOR FINAL INSPECTION AND ACCEPTANCE. SAID REQUEST SHALL BE DIRECTED TO THE INSPECTION OFFICE NOTED ON THE PERMIT FORM.
- 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.

### SITE PREPARATION (CLEARING AND GRUBBING)

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

### UTILITY LOCATION, TRENCHING & BACKFILL

- 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.
- ACCURATE VERIFICATION AS TO SIZE, LOCATION, AND DEPTH OF EXISTING UNDERGROUND CONDUITS OR FACILITIES SHALL BE THE INDIVIDUAL CONTRACTOR'S RESPONSIBILITY. PLAN LOCATIONS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.
- ALL UNDERGROUND INSTALLATIONS SHALL BE IN PLACE AND THE TRENCH BACKFILLED AND COMPACTED BEFORE PLACING AGGREGATE BASE MATERIAL OR SURFACE STRUCTURES. SURFACING MAY BE DONE IF THE UTILITY COMPANY CONCERNED INDICATES BY LETTER THAT IT WILL BORE UNLESS SPECIFICALLY AUTHORIZED BY THE COUNTY. GAS AND WATER MAINS SHALL BE INSTALLED OUTSIDE THE PAVED AREAS.
- TRENCH BACKFILL IN 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 MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 90% AND 4 INCHES OF HOT ASPHALT CONCRETE PLACED IN TWO LIFTS. TRENCH RESTORATION FOR HIGHER TYPE PAVEMENTS SHALL BE MADE IN KIND OR AS DIRECTED BY THE COUNTY.
- 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 NATIVE SOIL IS SUITABLE FOR USE AS TRENCH BACKFILL BUT THE COMPACTION REQUIREMENTS WILL NOT BE THEREBY WAIVED.
- BACKFILL AND TRENCH RESTORATION REQUIREMENTS SHALL APPLY AS MINIMUM STANDARDS TO ALL UNDERGROUND FACILITIES INSTALLED BY OTHER FIRMS OR PUBLIC AGENCIES.

### RETAINING WALLS

- 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.
- SEGMENTAL BLOCK RETAINING WALLS SHALL HAVE FOUNDATION AND REINFORCEMENT INSPECTED BY THE COUNTY ENGINEERING INSPECTOR.

### GRADING

- EXCAVATED MATERIAL SHALL BE PLACED IN THE FILL AREAS DESIGNATED OR SHALL BE HAULED AWAY FROM THE SITE TO A COUNTY APPROVED DISPOSAL SITE. WHERE FILL MATERIAL IS TO BE PLACED ON NATURAL GROUND, IS SHALL BE STRIPPED OF ALL VEGETATION TO ACHIEVE A PROPER BOND WITH THE FILL MATERIAL. THE SURFACE OF THE GROUND SHALL BE SCARIFIED TO DEPTH OF 6" BEFORE FILL IS PLACED. WHERE NATURAL GROUND IS STEEPER THAN 5:1, IT SHALL BE BENCHED AND THE FILL KEED IN TO ACHIEVE STABILITY. WHERE NEW FILL IS TO BE PLACED ON EXISTING FILL, THE EXISTING FILL SHALL BE REMOVED UNTIL MATERIAL COMPACTED TO 90% RELATIVE COMPACTION IS EXPOSED. THEN THE NEW FILL MATERIAL SHALL BE PLACED AS PER THESE CONSTRUCTION NOTES. FILL MATERIAL SHALL BE PLACED IN UNIFORM LIFTS NOT EXCEEDING 6" IN UNCOMPACTED THICKNESS. BEFORE COMPACTION BEGINS, THE FILL SHALL BE BROUGHT TO A WATER CONTENT THAT WILL PERMIT PROPER COMPACTION BY EITHER 1) AERATING THE FILL IF IT IS TOO WET OR 2) MOISTENING THE FILL WITH WATER IF IT IS TOO DRY. EACH LIFT SHALL BE THOROUGHLY MIXED BEFORE COMPACTION TO ENSURE A UNIFORM DISTRIBUTION OF MOISTURE.
- EXCESS CUT MATERIAL SHALL NOT BE SPREAD OR STOCKPILED ON THE SITE.
- SURPLUS EARTH FILL MATERIAL SHALL BE PLACED IN A SINGLE (8" MAX) THICK LAYER COMPACTED TO WITHSTAND WEATHERING IN THE AREA(S) DELINEATED ON THE PLAN.
- NO ORGANIC MATERIAL SHALL BE PLACED IN ANY FILL. NO TREES SHALL BE REMOVED OUTSIDE OF CUT, FILL OR ROADWAY AREAS.
- THE UPPER 6" OF SUBGRADE BELOW DRIVEWAY ACCESS ROAD OR PARKING AREA SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY.
- MAXIMUM CUT SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL. MAXIMUM FILL SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL.

LOCATION	CUT (C.Y.)	FILL (C.Y.)	VERT. DEPTH
RESIDENCE	10	0	0.87'
GARAGE	0	7	1.3'
HARDSCAPE	--	--	--
LANDSCAPE	1	15	1.08'
DRIVEWAY	1	12	1.38'
OFF SITE IMPROVEMENTS	0	0	--
TOTAL	12	34	

- NOTE: FILL VOLUMES INCLUDE 10% SHRINKAGE. EXCESS MATERIAL SHALL BE HAULED TO A COUNTY APPROVED DUMP SITE.
- EXCESS SOILS ENGINEER TWO (2) DAYS PRIOR TO COMMENCEMENT OF ANY GRADING WORK TO COORDINATE THE WORK IN THE FIELD.
  - ALL MATERIALS FOR FILL SHOULD BE APPROVED BY THE SOILS ENGINEER BEFORE IT IS BROUGHT TO THE SITE.
  - THE UPPER 6" OF THE SUBGRADE SOIL SHALL BE SCARIFIED, MOISTURE CONDITIONED AND COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95%.
  - ALL AGGREGATE BASE MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% RELATIVE COMPACTION.
  - THE PROJECT GEOTECHNICAL ENGINEER SHALL REVIEW LETTER MUST BE REVIEWED AND APPROVED BY THE COUNTY GEOLOGIST PRIOR TO FINAL APPROVAL BY THE COUNTY ENGINEER FOR BUILDING OCCUPANCY.
  - THE PROJECT GEOTECHNICAL ENGINEER SHALL PERFORM COMPACTION TESTING AND PRESENT THE RESULTS TO THE COUNTY ENGINEERING INSPECTOR PRIOR TO THE CONSTRUCTION OF ANY PAVED AREA.
  - GRADING WORK BETWEEN OCTOBER 15TH AND APRIL 15TH IS AT THE DISCRETION OF THE SANTA CLARA COUNTY GRADING OFFICIAL.
  - TOTAL DISTURBED AREA FOR THE PROJECT 3,000 SF.
  - WDD NO.: N/A
  - THE INSPECTOR MAY VERIFY THAT A VALID NOTICE OF INTENT (NOI) HAS BEEN ISSUED BY THE STATE AND THAT A CURRENT AND UP TO DATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS AVAILABLE ON SITE.

### TREE PROTECTION

- FOR ALL TREES TO BE RETAINED WITH A CANOPY IN THE DEVELOPMENT AREA OR INTERFERING WITH THE LIMITS OF GRADING FOR ALL PROPOSED DEVELOPMENT ON SITE, THE TREES SHALL BE PROTECTED BY THE PLACEMENT OF RIGID TREE PROTECTIVE FENCING, CONSISTENT WITH THE COUNTY INTEGRATED LANDSCAPE GUIDELINES, AND INCLUDE THE FOLLOWING:
  - FENCING SHOULD BE PLACED ALONG THE OUTSIDE EDGE OF THE DRUPLINE OF THE TREE OR GROVE OF TREES.
  - THE FENCING SHALL BE MAINTAINED THROUGHOUT THE SITE CONSTRUCTION AND SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND PROPER FUNCTION.
  - FENCING SHALL BE REPAIRED, AS NECESSARY, TO PROVIDE A PHYSICAL BARRIER FROM CONSTRUCTION ACTIVITIES.
  - SIGNAGE STATING, "WARNING- THIS FENCING SHALL NOT BE REMOVED WITHOUT PERMISSION FROM THE SANTA CLARA COUNTY PLANNING OFFICE (408) 299-5770. COUNTY OF SANTA CLARA TREE PROTECTION MEASURES MAY BE FOUND AT <http://www.sccplanning.gov> SHALL BE PLACED ON THE TREE PROTECTIVE FENCING UNTIL FINAL OCCUPANCY.
- PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY, TREE PROTECTIVE FENCING SHALL BE SECURELY IN PLACE AND INSPECTED BY THE LAND DEVELOPMENT ENGINEERING INSPECTOR.
- SEE EXISTING TREE PROTECTION DETAILS FOR MORE INFORMATION.

### ACCESS ROADS AND DRIVEWAYS

- DRIVEWAY LOCATIONS SHALL BE AS SHOWN ON THE IMPROVEMENT PLANS WITH CENTERLINE STATIONING. THE MINIMUM CONCRETE THICKNESS SHALL BE 6 INCHES THROUGHOUT (WITH A MAXIMUM APPROACH SLOPE OF 1 1/4 INCHES PER FOOT);
- ALL DRIVEWAY OR COMMON ACCESS ROAD SECTIONS IN EXCESS OF 15' LONGITUDINAL SLOPE MUST BE PAVED WITH A MINIMUM 2-INCH ASPHALT LIFT OR FULL DEPTH CONCRETE LIFT PRIOR TO ANY COMBUSTIBLE FRAMING.
- THE OWNER AND PRIME CONTRACTOR ARE RESPONSIBLE FOR MAINTAINING PROJECT SITE ACCESS AND NEIGHBORHOOD ACCESS FOR EMERGENCY VEHICLES AND LOCAL RESIDENTS.
- ROADWAYS DESIGNATED AS NOT COUNTY MAINTAINED ROADS AS SHOWN ON THE PLAN WILL NOT BE ELIGIBLE FOR COUNTY MAINTENANCE UNTIL THE ROADWAYS ARE IMPROVED (AT NO COST TO THE COUNTY) TO THE PUBLIC MAINTENANCE ROAD STANDARDS APPROVED BY THE BOARD OF SUPERVISORS AND IN EFFECT AT SUCH TIME THAT THE ROADWAYS ARE CONSIDERED FOR ACCEPTANCE INTO THE COUNTY'S ROAD SYSTEM.
- ALL WORK IN THE COUNTY ROAD RIGHT-OF-WAY REQUIRES AN ENCROACHMENT PERMIT FROM THE ROADS AND AIRPORTS DEPARTMENT. EACH INDIVIDUAL ACTIVITY REQUIRES A SEPARATE PERMIT - I.E. CABLE, ELECTRICAL, GAS, SEWER, WATER, RETAINING WALLS, DRIVEWAY APPROACHES, FENCES, LANDSCAPING, TREE REMOVAL, STORM DRAINAGE IMPROVEMENTS, ETC.

### STREET LIGHTING

- PACIFIC GAS & ELECTRIC ELECTRIC SERVICE FEE SHALL BE PAID BY THE DEVELOPER AND/OR HIS AUTHORIZED REPRESENTATIVE.

### SANITARY SEWER

- THE SANITARY SEWER AND WATER UTILITIES SHOWN ON THESE PLANS ARE NOT PART OF THIS GRADING PERMIT AND ARE SHOWN FOR REFERENCE ONLY.
- ALL MATERIALS AND METHODS OF CONSTRUCTION OF SANITARY SEWERS SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTION INVOLVED. INSPECTION OF SANITARY SEWER WORK SHALL BE DONE BY SAID JURISDICTION.

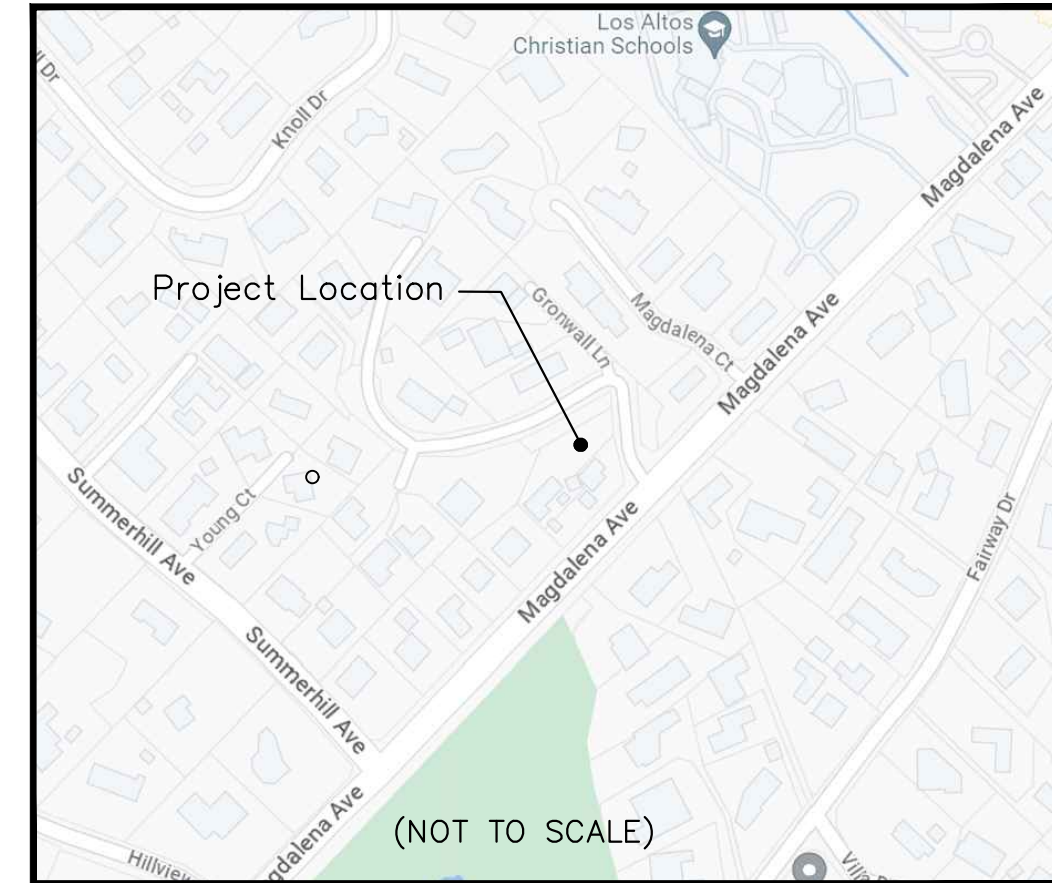
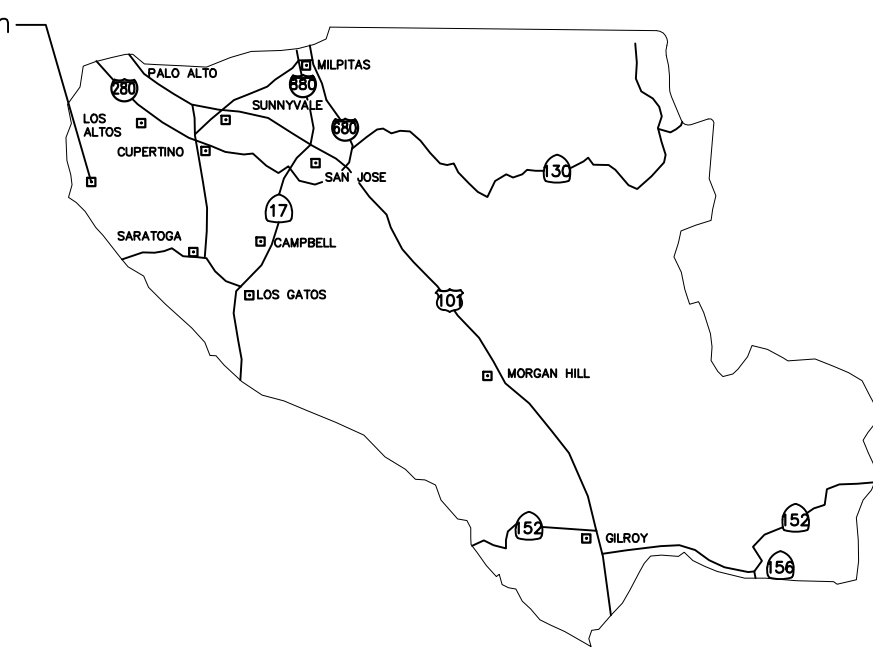
### PORTLAND CEMENT CONCRETE

- CONCRETE USED FOR STRUCTURAL PURPOSES SHALL BE CLASS "A" (6 SACK PER CUBIC YARD) AS SPECIFIED IN THE STATE STANDARD SPECIFICATIONS. CONCRETE PLACED MUST DEVELOP A MINIMUM STRENGTH FACTOR OF 2800 PSI IN A SEVEN-DAY PERIOD. THE CONCRETE MIX DESIGN SHALL BE UNDER THE CONTINUAL CONTROL OF THE COUNTY INSPECTOR.

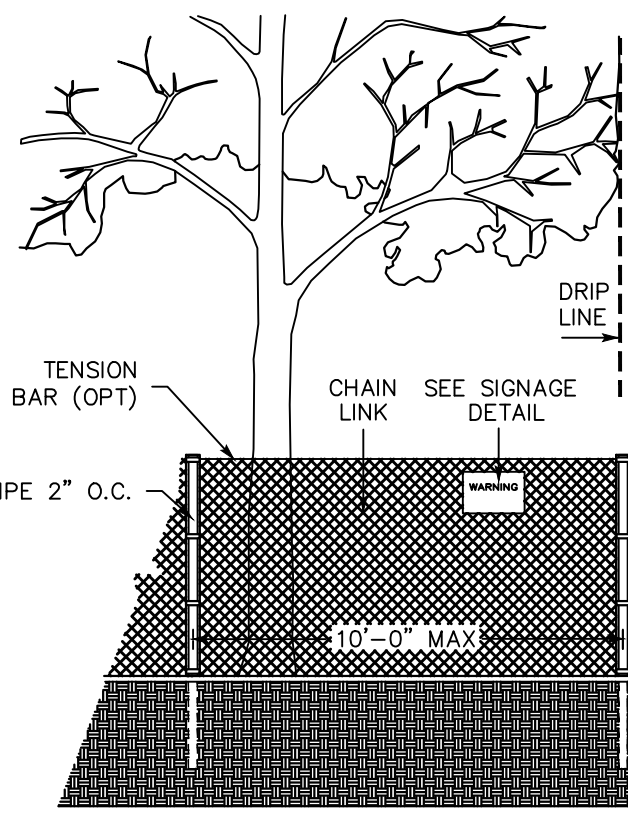
### AIR QUALITY, LANDSCAPING AND EROSION CONTROL

- 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 UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES.
- SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES. THE USE OF DRY POWDER SWEEPING IS PROHIBITED.
- SWEEP STREETS DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS. THE USE OF DRY POWDER SWEEPING IS PROHIBITED.
- ALL CONSTRUCTION VEHICLES, EQUIPMENT AND DELIVERY TRUCKS SHALL HAVE A MAXIMUM IDLING TIME OF 5 MINUTES (AS REQUIRED BY THE CALIFORNIA AIRBORNE TOXIC CONTROL MEASURE TITLE 13, SECTION 2485 OF CALIFORNIA CODE OF REGULATIONS (CCR)). ENGINES SHALL BE SHUT OFF IF CONSTRUCTION REQUIRES LONGER IDLING TIME UNLESS NECESSARY FOR PROPER OPERATION OF THE VEHICLE.
- ALL VEHICLE SPEEDS ON UNPAVED ROADS SHALL BE LIMITED TO 15 MPH PER HOUR.
- 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.
- ALL EXPOSED DISTURBED AREAS SHALL BE SEEDED WITH BROME SEED FIRM AT THE RATE OF 5 LB. PER 1000 SQUARE FEET (OR APPROVED EQUAL). SEEDING AND WATERING SHALL BE MAINTAINED AS REQUIRED TO ENSURE GROWTH.
- ALL DITCHES SHALL BE LINED PER COUNTY STANDARD SDR.
- ALL STORM DRAINAGE STRUCTURES SHALL BE INSTALLED WITH EFFECTIVE ENTRANCE & OUTFALL EROSION CONTROLS E.G. SACKED CONCRETE RIP-RAP. ENERGY DISSIPATORS SHALL BE INSTALLED AT ALL DITCH OUTFALLS. WHERE OUTFALLS ARE NOT INTO AN EXISTING CREEK OR WATER COURSE, RUNOFF SHALL BE RELEASED TO SHEET FLOW.
- PRIOR TO GRADING COMPLETION AND RELEASE OF THE BOND, ALL GRADED AREAS SHALL BE RESEEDED IN CONFORMANCE WITH THE COUNTY GRADING ORDINANCE TO MINIMIZE THE VISUAL IMPACTS OF THE GRADE SLOPES AND REDUCE THE POTENTIAL FOR EROSION OF THE SUBJECT SITE.
- PERMANENT LANDSCAPING SHOWN ON THE ATTACHED LANDSCAPE PLAN MUST BE INSTALLED AND FIELD APPROVED BY THE COUNTY PLANNING OFFICE PRIOR TO FINAL APPROVAL BY THE COUNTY ENGINEER, AND FINAL OCCUPANCY RELEASE BY THE BUILDING INSPECTION OFFICE.
- THE OWNER SHALL PREPARE AND PRESENT A WINTERIZATION REPORT TO THE COUNTY INSPECTOR FOR REVIEW PRIOR TO OCTOBER 15TH OF EVERY YEAR.
- THE OWNER, CONTRACTOR, AND ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES SHALL INSTALL AND MAINTAIN CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPs) ON THE PROJECT SITE AND WITHIN THE SANTA CLARA COUNTY ROAD RIGHT-OF-WAY THROUGHOUT THE DURATION OF THE CONSTRUCTION AND UNTIL THE ESTABLISHMENT OF PERMANENT STABILIZATION AND SEDIMENT CONTROL TO PREVENT THE DISCHARGE OF POLLUTANTS INCLUDING SEDIMENT, CONSTRUCTION MATERIALS, EXCAVATED MATERIALS, AND WASTE INTO THE SANTA CLARA COUNTY RIGHT-OF-WAY, STORM SEWER NETWORK, ROADWAY INFRASTRUCTURE. BMPs SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
  - PREVENTION OF POLLUTANTS IN STORM WATER DISCHARGES FROM THE CONSTRUCTION SITE AND THE CONTRACTOR'S MATERIAL AND EQUIPMENT LAYDOWN / STAGING AREAS.
  - PREVENTION OF TRACKING OF MUD, DIRT, AND CONSTRUCTION MATERIALS ONTO THE PUBLIC ROAD RIGHT-OF-WAY.
  - PREVENTION OF DISCHARGE OF WATER RUN-OFF DURING DRY AND WET WEATHER CONDITIONS ONTO THE PUBLIC ROAD RIGHT-OF-WAY.
- THE OWNER, CONTRACTOR, AND ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES SHALL ENSURE THAT ALL TEMPORARY CONSTRUCTION FACILITIES, INCLUDING BUT NOT LIMITED TO CONSTRUCTION MATERIALS, DELIVERIES, HAZARDOUS AND NON-HAZARDOUS MATERIAL STORAGE, EQUIPMENT, TOOLS, PORTABLE TOILETS, CONCRETE WASHOUT, GARBAGE CONTAINERS, LAYDOWN YARDS, SECONDARY CONTAINMENT AREAS, ETC. ARE LOCATED OUTSIDE THE SANTA CLARA COUNTY ROAD RIGHT-OF-WAY.
- EROSION CONTROL PLAN IS A GUIDE AND SHALL BE AMENDED AS NECESSARY TO PREVENT EROSION AND ILLICIT DISCHARGES ON A YEAR AROUND BASIS, DEPENDING ON THE SEASON, WEATHER, AND FIELD CONDITIONS. EROSION CONTROL MEASURES IN ADDITION TO THOSE NOTED IN THE PERMITTED PLANS MAY BE NECESSARY FAILURE TO INSTALL SITE AND SITUATIONALLY APPROPRIATE EROSION CONTROL MEASURES MAY RESULT IN VIOLATIONS, FINES, AND A STOPPAGE OF WORK.
  - PREVENTION OF POLLUTANTS IN STORM WATER DISCHARGES FROM THE CONSTRUCTION SITE AND THE CONTRACTOR'S MATERIAL AND EQUIPMENT LAYDOWN / STAGING AREAS.
  - PREVENTION OF TRACKING OF MUD, DIRT, AND CONSTRUCTION MATERIALS ONTO THE PUBLIC ROAD RIGHT-OF-WAY.
  - PREVENTION OF DISCHARGE OF WATER RUN-OFF DURING DRY AND WET WEATHER CONDITIONS ONTO THE PUBLIC ROAD RIGHT-OF-WAY.

### COUNTY LOCATION MAP



VICINITY MAP



EXISTING TREE PROTECTION DETAILS

### SURVEY MONUMENT PRESERVATION

- THE LANDOWNER / CONTRACTOR MUST PROTECT AND ENSURE THE PERPETUATION OF SURVEY MONUMENTS AFFECTED BY CONSTRUCTION ACTIVITIES.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE, STAKE, AND FLAG ALL PERMANENT SURVEY MONUMENTS OF RECORD AND ANY UNRECORDED MONUMENTS THAT ARE DISCOVERED THAT ARE WITHIN 50 FEET OF THE CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL CAUSE TO HAVE A LICENSED LAND SURVEYOR OR CIVIL ENGINEER, AUTHORIZED TO PRACTICE SURVEYING, 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.

COUNTY OF SANTA CLARA  
LAND DEVELOPMENT ENGINEERING & SURVEYING  
GRADING / DRAINAGE PERMIT NO. \_\_\_\_\_  
ISSUED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

COUNTY SANITATION DISTRICT 2-3  
ENGINEER'S SIGNATURE  
APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

COUNTY OF SANTA CLARA DEPT. OF ROADS AND AIRPORTS  
ISSUED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
ENCROACHMENT PERMIT NO. \_\_\_\_\_

NO WORK SHALL BE DONE IN THE COUNTY'S RIGHT-OF-WAY WITHOUT AN ENCROACHMENT PERMIT, INCLUDING THE STAGING OF CONSTRUCTION MATERIAL AND THE PLACEMENT OF PORTABLE TOILETS.

### ENGINEER'S STATEMENT

I HEREBY STATE THAT THESE PLANS ARE IN COMPLIANCE WITH ADOPTED COUNTY STANDARDS

DATE 11/7/23 SIGNATURE \_\_\_\_\_  
73068  
R.C.E. NO.  
12/31/2024  
EXPIRATION DATE



### COUNTY ENGINEER'S NOTE

ISSUANCE OF A PERMIT AUTHORIZING CONSTRUCTION DOES NOT RELEASE THE DEVELOPER, PERMITEE OF 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 (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 \_\_\_\_\_ SIGNATURE \_\_\_\_\_  
63958  
R.C.E. NO. 09-30-2024  
EXPIRATION DATE

### LANDS OF KUMARASAMY

### SCOPE OF WORK

- 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.
  - CONSTRUCTION OF A 15' DRIVEWAY
  - STORM WATER FACILITIES
  - CONSTRUCTION OF RURAL DRIVEWAY & FRONTAGE INTERIM CONDITION IN THE ROW
  - UTILITY TRENCHING
- \* ALL RETAINING WALL DESIGN WILL BE PERMITTED WITH A SEPARATE BUILDING PERMIT

LEGEND

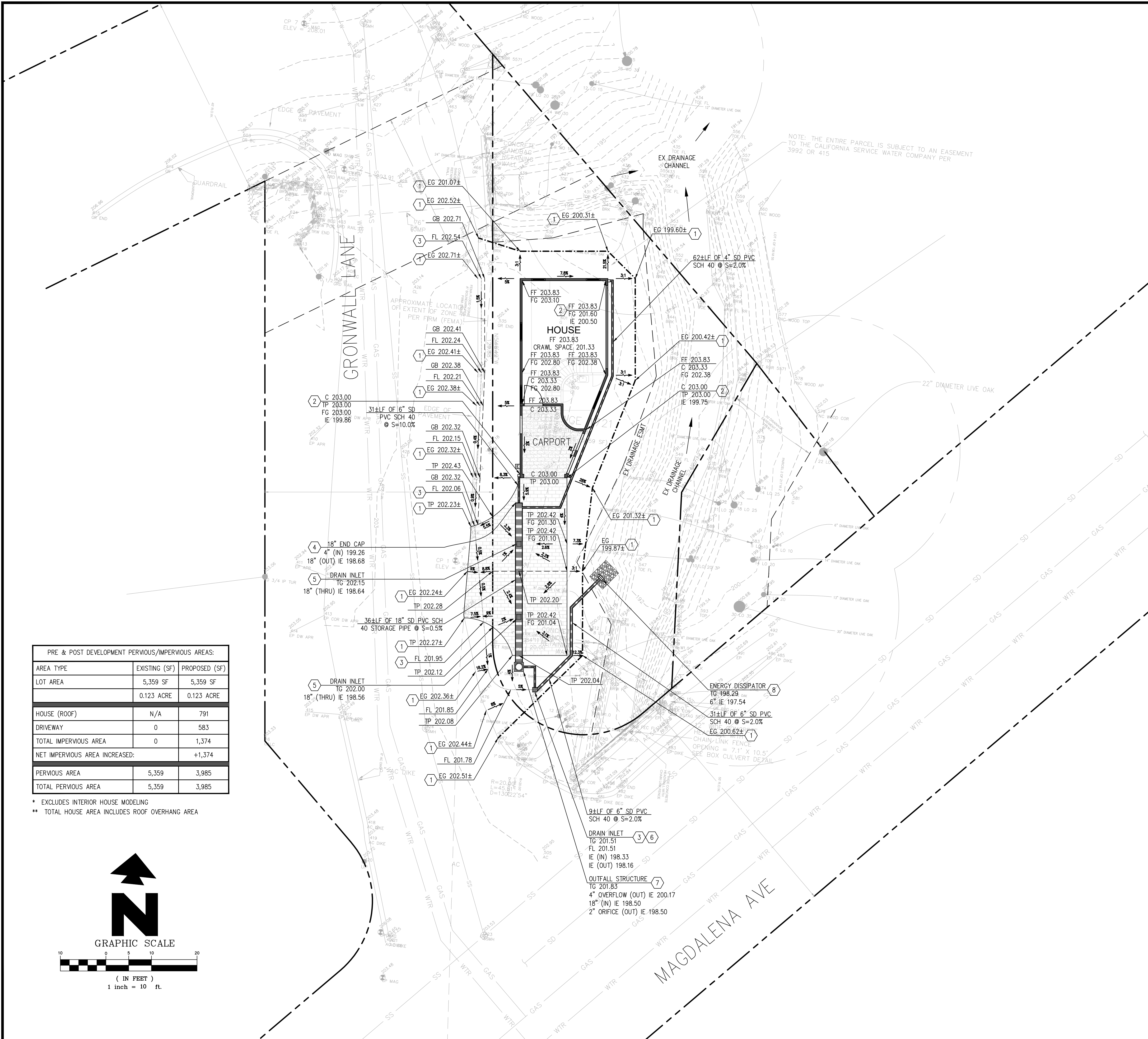
DESCRIPTION	PROPOSED	EXISTING
FLOW DIRECTION	→	→
ELECTRIC LINE	—E—	—E—
GAS LINE	—G—	—G—
SANITARY SEWER	—SS—	—SS—
WATER LINE	—W—	—W—
STORM DRAIN PIPE	—W—W—	—W—W—
STORM DRAIN INLET	●	●
SUB DRAIN PIPE	—W—W—	—W—W—
CLEANOUT	●	●
SILT FENCE	—SF—	—SF—
STRAW ROLL	—SR—	—SR—
TREE PROTECTION	○	○

APPROVED FOR ISSUANCE REFER TO ENCROACHMENT AND/OR CONSTRUCTION PERMIT AND PLAN COVER SHEET FOR SPECIAL CONDITIONS AND PERMIT NUMBERING

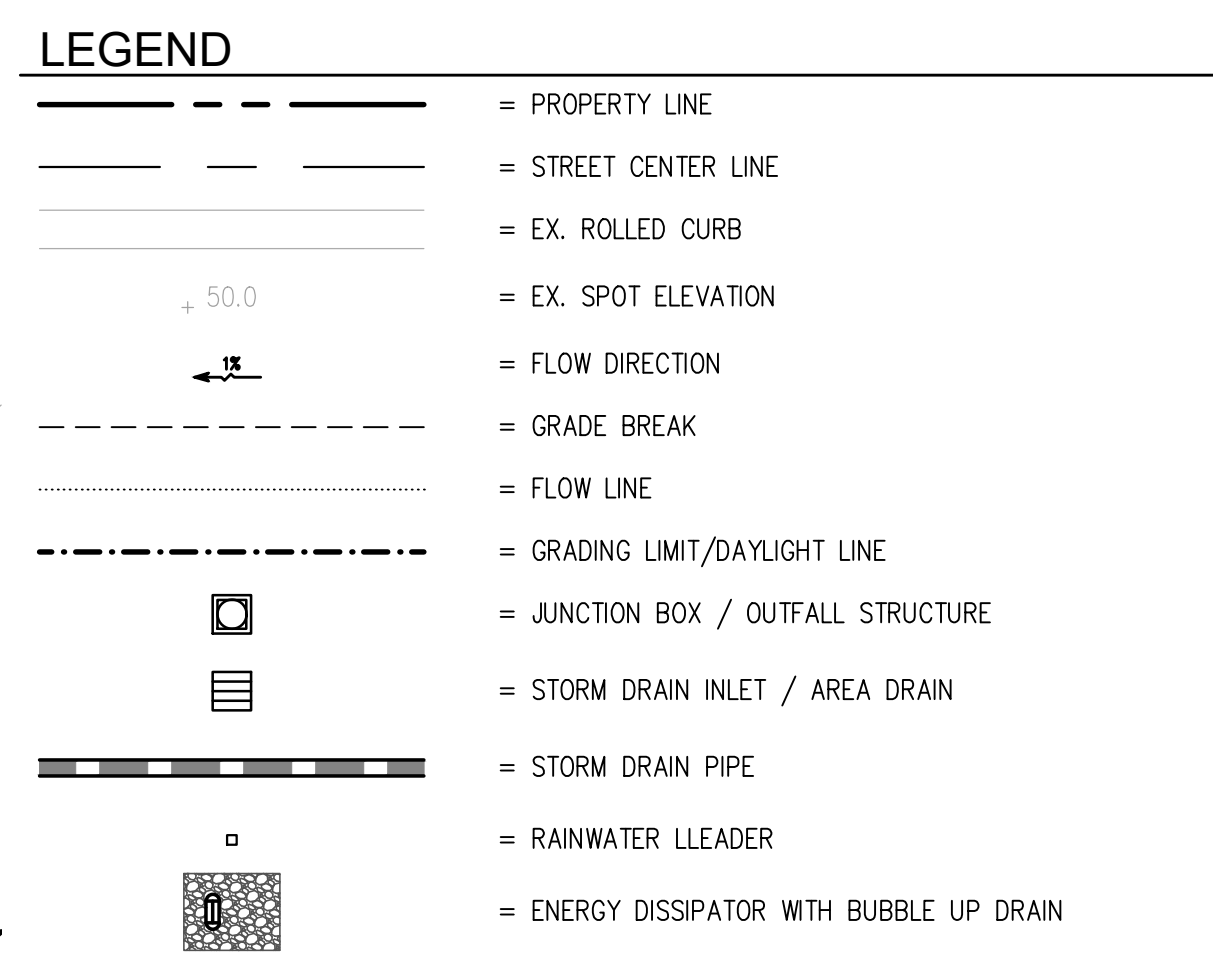
### SHEET INDEX

C1	COVER SHEET			
C2	GRADING & DRAINAGE PLAN			
C3	UTILITY PLAN			
C4	EROSION CONTROL PLAN			
C5.0	DETAIL SHEET #1			
C5.1	DETAIL SHEET #2			
BMP-1	BMP DETAIL #1			
BMP-2	BMP DETAIL #2			
ENGINEER'S NAME: CHIN-HANG WONG, P.E.				
ADDRESS: 1900 S. NORFOLK ST. SUITE #350 SAN MATEO, CA 94403				
PHONE NO. (650) 931-2514				
FAX NO. N/A				
GREEN CIVIL ENGINEERING, INC INFO@GREEN-CE.COM 1900 S. NORFOLK ST. SUITE #350 SAN MATEO, CA 94403				
Revision 1	—	APN	—	Sheet
Revision 2	—	336-10-038	—	1
Revision 3	—	Co. File	—	of
				8





- GENERAL NOTES:**
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
  - CONTRACTOR SHALL PROTECT ALL PROPERTY CORNERS.
  - CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
  - CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
  - CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDING FOR ALL NATURAL AND PAVED AREAS.
  - THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
  - THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
  - UTILITY VAULTS, TRANSFORMERS, UTILITY CABINETS, CONCRETE BASES, OR OTHER STRUCTURES CANNOT BE PLACED OVER WATER MAINS/SERVICES. MAINTAIN 1' HORIZONTAL CLEAR SEPARATION FROM THE VAULTS, CABINETS & CONCRETE BASES TO EXISTING UTILITIES AS FOUND IN THE FIELD. IF THERE IS CONFLICT WITH EXISTING UTILITIES, CABINETS, VAULTS & BASES SHALL BE RELOCATED FROM THE PLAN LOCATION AS NEEDED TO MEET FIELD CONDITIONS. TREES MAY NOT BE PLANTED WITHIN 10' OF EXISTING WATER MAINS/SERVICES OR METERS. MAINTAIN 10' BETWEEN TREES AND WATER SERVICES, MAINS & METERS.
  - CONTRACTOR SHALL REFER TO ARCH. PLANS FOR EXACT LOCATIONS OF UTILITIES SERVICES TO NEW BUILDING. COORDINATE WITH LOCAL UTILITIES COMPANIES FOR SERVICE CONNECTIONS. PERMITS AS NECESSARY TO PERFORM UTILITY WORK IN ROW.
  - UTILITY INSTALLATION SHALL BE IN ACCORDANCE WITH COUNTY UTILITY STANDARDS FOR WATER, GAS & WASTEWATER.
  - SLOPE SHALL NOT EXCEED MAXIMUM SLOPE OF 2:1



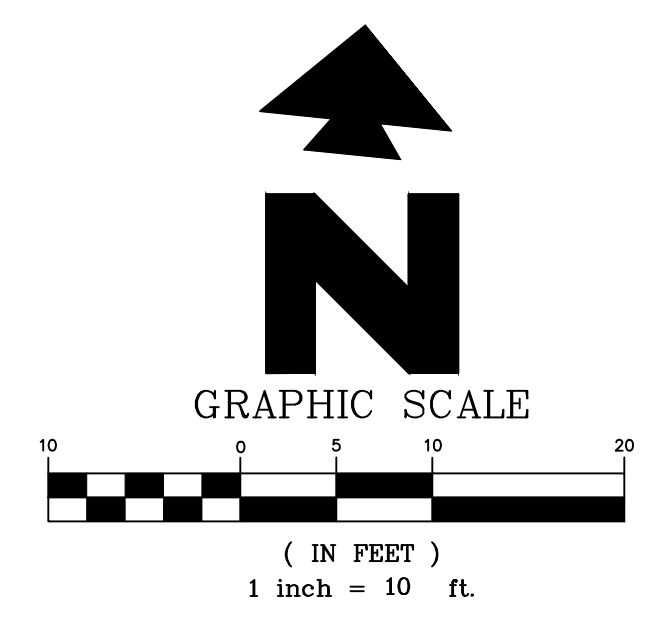
- ABBREVIATIONS:**
- BS = BOTTOM OF STEP
  - BOW = BACK OF WALK
  - BW = BOTTOM OF WALL
  - C = CONCRETE
  - DK = DECK
  - DWY = DRIVEWAY
  - EG = EXISTING GRADE
  - EX = EXISTING
  - FF = FINISHED FLOOR
  - FG = FINISHED GRADE
  - FL = FLOW LINE
  - G = GARAGE
  - GB = GRADE BREAK
  - IE = INVERT ELEVATION
  - L = LAWN
  - LF = LINEAL FOOT
  - LP = LOW POINT
  - N = NEW
  - P = PATIO OR PORCH
  - PUE = PUBLIC UTILITY EASEMENT TYP
  - R.O.W. = RIGHT-OF-WAY
  - S = SLOPE
  - SD = STORM DRAIN
  - SR = STRAW ROLL
  - TC = TOP OF CURB
  - TG = TOP OF GRATE
  - TP = TOP OF PAVEMENT
  - TS = TOP OF STEP
  - TW = TOP OF WALL
  - TYP = TYPICAL

- GRADING NOTES**
- GRADING DAYLIGHT LINE; MATCH EXISTING ELEVATION
  - RAINWATER LEADER PER DETAIL #10/C5.0
  - BEGIN/END SWALE PER DETAIL #2A/C5.0
  - INSTALL 18" END CAP; BEGIN 18" STORM DRAIN PIPE. CONNECT ROOF RAINWATER LEADERS CENTER TO CENTER. SEE PLANS FOR INVERTS
  - DRAIN INLET AT DRIVEWAY PER DETAIL #6A/C5.0
  - 12"x12" LANDSCAPE AREA DRAIN PER DETAIL #3A/C5.0
  - OUTFALL STRUCTURE PER DETAIL #8A/C5.0
  - ENERGY DISSIPATOR PER DETAIL #4E/C5.0

**PRE & POST DEVELOPMENT PERVIOUS/IMPERVIOUS AREAS:**

AREA TYPE	EXISTING (SF)	PROPOSED (SF)
LOT AREA	5,359 SF	5,359 SF
	0.123 ACRE	0.123 ACRE
HOUSE (ROOF)	N/A	791
DRIVEWAY	0	583
TOTAL IMPERVIOUS AREA	0	1,374
NET IMPERVIOUS AREA INCREASED:		+1,374
PERVIOUS AREA	5,359	3,985
TOTAL PERVIOUS AREA	5,359	3,985

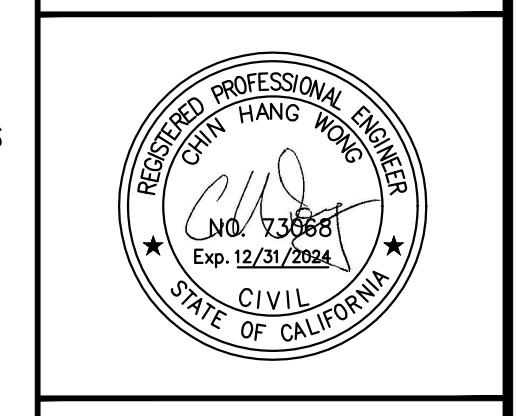
\* EXCLUDES INTERIOR HOUSE MODELING  
 \*\* TOTAL HOUSE AREA INCLUDES ROOF OVERHANG AREA



REV.	DATE	DESCRIPTION

**GRADING AND DRAINAGE PLAN**  
**KUMARASAMY RESIDENCE**  
 0 GRONWALL LN  
 LOS ALTOS, CA 94024

**GREEN**  
 CIVIL ENGINEERING, INC  
 INFO@GREEN-CE.COM  
 1900 S. NORFOLK ST. SUITE #350  
 SAN MATEO, CA 94403

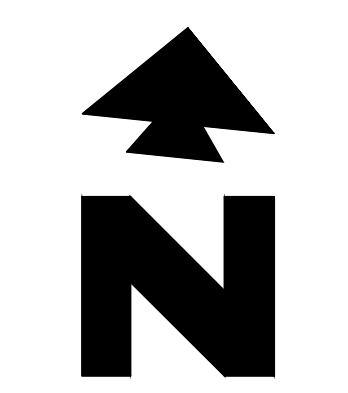
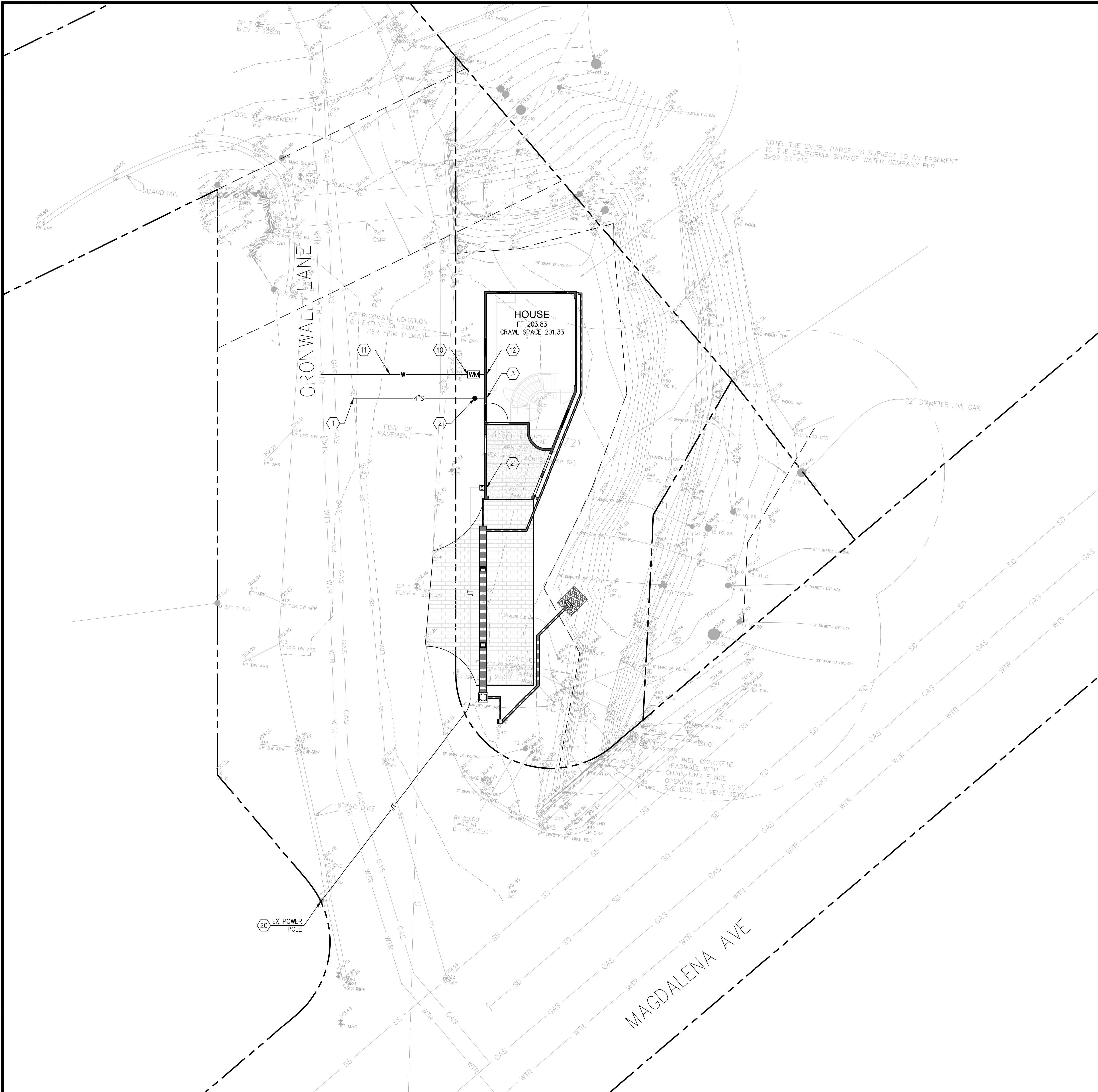


**SCALE**

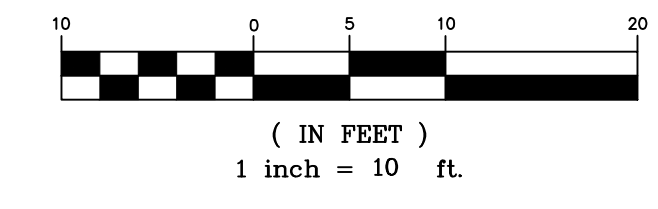
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 REVIEWED: HCL  
 JOB NO.: 20230053

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GRAPHIC SCALE



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**LEGEND**

---	PROPERTY LINE	●	SANITARY SEWER CLEANOUT
-E-	UNDERGROUND ELECTRICAL LINE	■	INFILTRATION DEVICE
-G-	GAS LINE	⊙	AREA INLET OR POP UP DRAIN
-G-	EX. GAS LINE		
-SS-	EX. SEWER LINE		
-W-	EX. WATER LINE		
-W-	NEW WATER LINE		
---	STORM DRAIN PIPE		
---	STORM DRAIN PIPE		
-JT-	PROPOSED JOINT TRENCH		
-SS-	NEW 4" SEWER LATERAL		

ABBREVIATIONS:  
 EX = EXISTING  
 LF = LINEAL FOOT  
 S = SLOPE

**UTILITY NOTES:**

- CONNECT NEW SANITARY SEWER LATERAL TO EXISTING SEWER MAIN. MATCH EXISTING INVERT ELEVATION
- INSTALL NEW SANITARY SEWER CLEANOUT PER COUNTY SANITATION DISTRICT NO. 2-3
- SANITARY SEWER SERVICE ENTRY. SEE ARCH PLANS FOR EXACT LOCATION AND INVERT ELEVATION. PROVIDE 2% MINIMUM SLOPE.
- INSTALL 3/4" WATER METER.
- 3/4" WATER SERVICE TO NEW BUILDING. SEE DRIVEWAY IMPROVEMENT UTILITY PLAN C4 FOR POINT OF CONNECTION TO EXISTING WATER MAIN AND NEW WATER METER LOCATION
- WATER SERVICE ENTRY. SEE ARCH PLANS FOR EXACT LOCATION.
- DRY UTILITY JOINT TRENCH TO NEW BUILDING
- INSTALL NEW ELECTRICAL METER. SEE MECHANICAL PLAN FOR EXACT LOCATION AND SERVICE TO MAIN BUILDING.

REV.	DATE	DESCRIPTION

UTILITY PLAN  
 KUMARASAMY RESIDENCE  
 0 GRONWALL LN  
 LOS ALTOS, CA 94024



**SCALE**

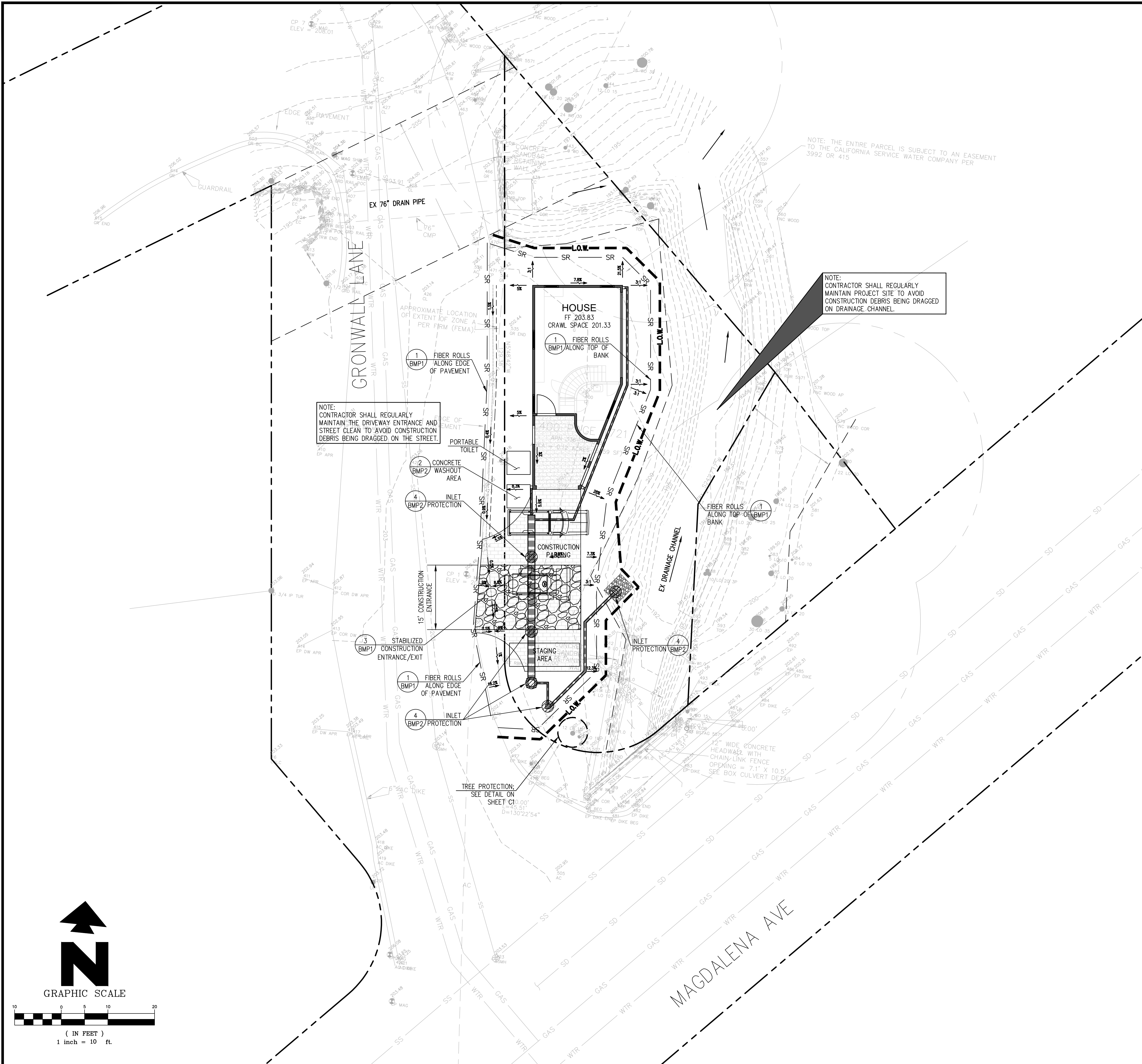
VERTICAL: 1"= AS SHOWN  
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SHEET  
**C3**  
 3 OF 8 SHEETS





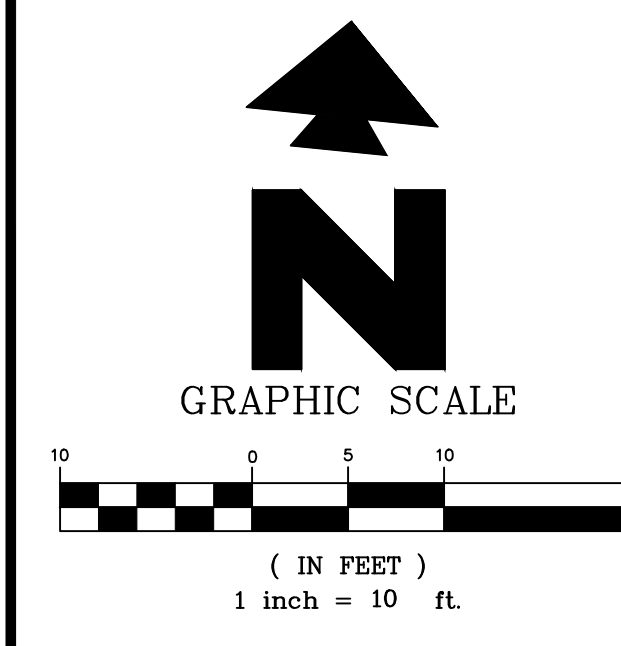
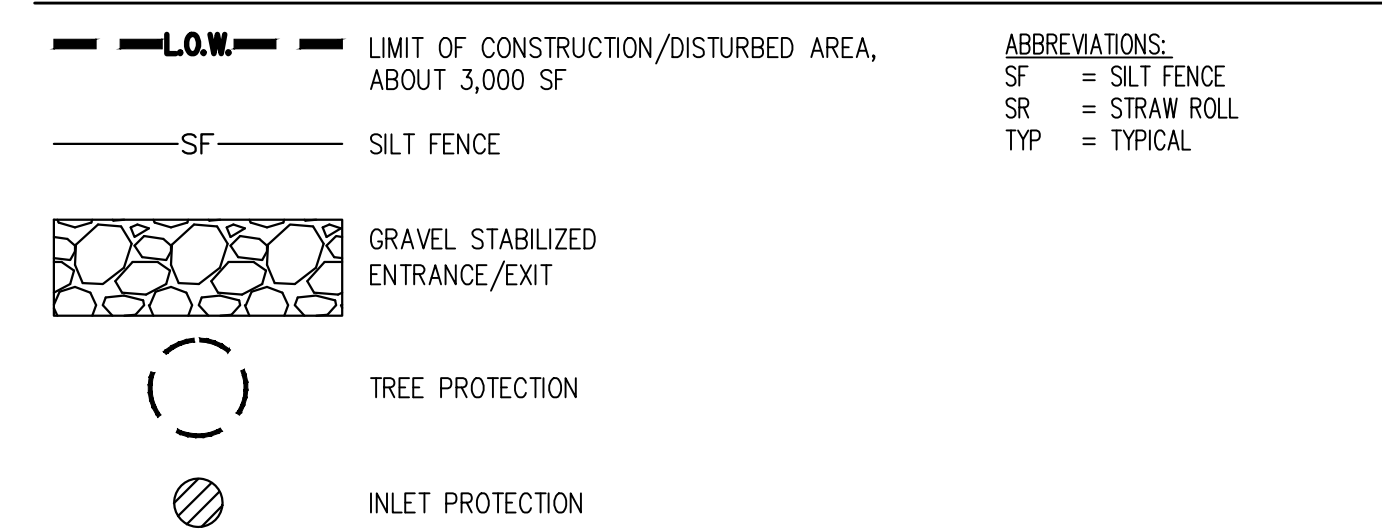
**EROSION AND SEDIMENT CONTROL NOTES AND MEASURES:**

- GRADING WORK BETWEEN OCTOBER 1 AND APRIL 30 IS AT THE DISCRETION OF SANTA CLARA COUNTY GRADING OFFICIAL. REFER TO COUNTY'S STANDARD GUIDELINES FOR ADDITIONAL CONDITIONS.
- THE OWNER/OWNER'S CONTRACTOR, AGENT, AND/OR ENGINEER SHALL INSTALL AND MAINTAIN THROUGHOUT THE DURATION OF CONSTRUCTION AND UNTIL THE ESTABLISHMENT OF PERMANENT STABILIZATION AND SEDIMENT CONTROL WITHIN SANTA CLARA COUNTY ROAD RIGHT OF WAY AND ANY PORTION OF THE SITE WHERE STORM WATER RUN-OFF IS DIRECTLY FALLING INTO THE SAN MATEO COUNTY ROAD RIGHT OF WAY BEST MANAGEMENT PRACTICES (BMPs) TO PREVENT CONSTRUCTION MATERIALS, EXCAVATED MATERIALS, WE USED MATERIALS, AND SEDIMENT, CAUSED BY EROSION FROM CONSTRUCTION ACTIVITIES ANCHORING THE STORM DRAIN SYSTEM, WATERWAYS, AND ROADWAY INFRASTRUCTURE. BMPs SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING PRACTICES APPLICABLE TO THE PUBLIC ROAD FACILITIES:
  - REDUCTION OF POLLUTANTS IN STORM WATER DISCHARGES FROM CONSTRUCTION SITE AND CONTRACTOR'S MATERIAL AND EQUIPMENT/STAGING AREAS.
  - PREVENTION OF TRACKING MUD, DIRT AND CONSTRUCTION MATERIALS ONTO PUBLIC ROAD RIGHT OF WAY.
  - PREVENTION OF DISCHARGE OF WATER RUNOFF DURING DRY AND WET WEATHER CONDITIONS ONTO PUBLIC ROAD RIGHT OF WAY.
- THE OWNER/OWNER'S CONTRACTOR, AGENT, AND/OR ENGINEER SHALL ENSURE THAT ALL TEMPORARY CONSTRUCTION FACILITIES, INCLUDING BUT NOT LIMITED TO CONSTRUCTION MATERIALS, DELIVERIES, HAZARDOUS AND NON-HAZARDOUS MATERIAL STORAGE, EQUIPMENT, TOOLS, PORTABLE TOILETS, CONCRETE WASHOUT, GARBAGE CONTAINERS, LAY DOWN YARDS, SECONDARY CONTAINMENT AREAS, ETC. ARE LOCATED OUTSIDE THE SANTA CLARA COUNTY ROAD RIGHT OF WAY AND ANY PORTION OF THIS SITE WHERE STORM WATER RUN-OFF IS CORRECTLY FOLLOWING INTO SANTA CLARA COUNTY ROAD RIGHT OF WAY.
- THE FACILITIES SHOWN ON THIS PLAN ARE DESIGNED TO CONTROL EROSION AND SEDIMENT DURING THE RAINY SEASON, OCTOBER 1 TO APRIL 30. FACILITIES ARE TO BE OPERABLE PRIOR TO OCTOBER 1 OF ANY YEAR. GRADING OPERATIONS DURING THE RAINY SEASON, WHICH LEAVE DENUDE SLOPES SHALL BE PROTECTED WITH EROSION CONTROL MEASURES IMMEDIATELY FOLLOWING GRADING ON THE SLOPES.
- THIS PLAN COVERS ONLY THE FIRST WINTER FOLLOWING GRADING WITH ASSUMED SITE CONDITIONS AS SHOWN ON THE EROSION CONTROL PLAN. PRIOR TO SEPTEMBER 15, THE COMPLETION OF SITE IMPROVEMENT SHALL BE EVALUATED AND REVISIONS MADE TO THIS PLAN AS NECESSARY WITH THE APPROVAL OF THE CITY ENGINEER.
- IF HYDROSEEDING IS NOT USED, THEN OTHER METHODS SHALL BE IMPLEMENTED, SUCH AS EROSION CONTROL BLANKETS, OR A THREE-STEP APPLICATION OF: 1) SEED, MULCH, FERTILIZER 2) BLOWN STRAW 3) TACKIFIER AND MULCH. CONTACT SANTA CLARA COUNTY FOR APPROVED SEED MIX. UTILIZE EROSION FABRIC ON DISTURBED SLOPES GREATER THAN 2:1.
- DURING WINTER MONTHS, ALL DISTURBED SLOPES GREATER THAN 2:1 SHALL HAVE MANDATORY EROSION CONTROL FABRIC.
- INLET PROTECTION SHALL BE INSTALLED AT OPEN INLETS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM. INLETS NOT USED IN CONJUNCTION WITH EROSION CONTROL ARE TO BE BLOCKED TO PREVENT ENTRY OF SEDIMENT.
- THIS EROSION AND SEDIMENT CONTROL PLAN MAY NOT COVER ALL THE SITUATIONS THAT MAY ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS AND ADDITIONS MAY BE MADE TO THIS PLAN IN THE FIELD. NOTIFY THE CITY REPRESENTATIVE OF ANY FIELD CHANGES.
- THIS PLAN IS INTENDED TO BE USED FOR INTERIM EROSION AND SEDIMENT CONTROL ONLY AND IS NOT TO BE USED FOR FINAL ELEVATIONS OR PERMANENT IMPROVEMENTS OF FUTURE CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING EROSION AND SEDIMENT CONTROL PRIOR, DURING, AND AFTER STORM EVENTS.
- REASONABLE CARE SHALL BE TAKEN WHEN HAULING ANY EARTH, SAND, GRAVEL, STONE, DEBRIS, PAPER OR ANY OTHER SUBSTANCE OVER ANY PUBLIC STREET, ALLEY OR OTHER PUBLIC PLACE. SHOULD ANY BLOW, SPILL, OR TRACK OVER AND UPON SAID PUBLIC OR ADJACENT PRIVATE PROPERTY, IMMEDIATE REMEDY SHALL OCCUR.
- SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE.
- DURING THE RAINY SEASON, ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEMS, INCLUDING EXISTING DRAINAGE SWALES AND WATER COURSES.
- DEMOLITION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED. STATE AND LOCAL LAWS CONCERNING POLLUTION ABATEMENT SHALL BE COMPLIED WITH.
- CONTRACTORS SHALL PROVIDE DUST CONTROL AS REQUIRED BY THE APPROPRIATE FEDERAL, STATE, AND LOCAL AGENCY REQUIREMENTS.
- WITH THE APPROVAL OF THE CITY INSPECTOR, EROSION AND SEDIMENT CONTROLS MAYBE REMOVED AFTER AREAS ABOVE THEM HAVE BEEN STABILIZED.

**MAINTENANCE NOTES**

- MAINTENANCE IS TO BE PERFORMED AS FOLLOWS:
  - REPAIR DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION AT THE END OF EACH WORKING DAY.
  - SWALES SHALL BE INSPECTED PERIODICALLY AND MAINTAINED AS NEEDED.
  - SEDIMENT TRAPS, BERMS, AND SWALES ARE TO BE INSPECTED AFTER EACH STORM AND REPAIRS MADE AS NEEDED.
  - SEDIMENT SHALL BE REMOVED AND SEDIMENT TRAPS RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A DEPTH OF ONE FOOT.
  - SEDIMENT REMOVED FROM TRAP SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
  - RILLS AND GULLIES MUST BE REPAIRED.

**LEGEND**



REV.	DATE	DESCRIPTION
A		

**EROSION CONTROL PLAN**  
**KUMARASAMY RESIDENCE**  
 0 GRONWALL LN  
 LOS ALTOS, CA 94024

**GREEN**  
 CIVIL ENGINEERING, INC  
 INFO@GREEN-CE.COM  
 1900 S. NORFOLK ST. SUITE #350  
 SAN MATEO, CA 94403



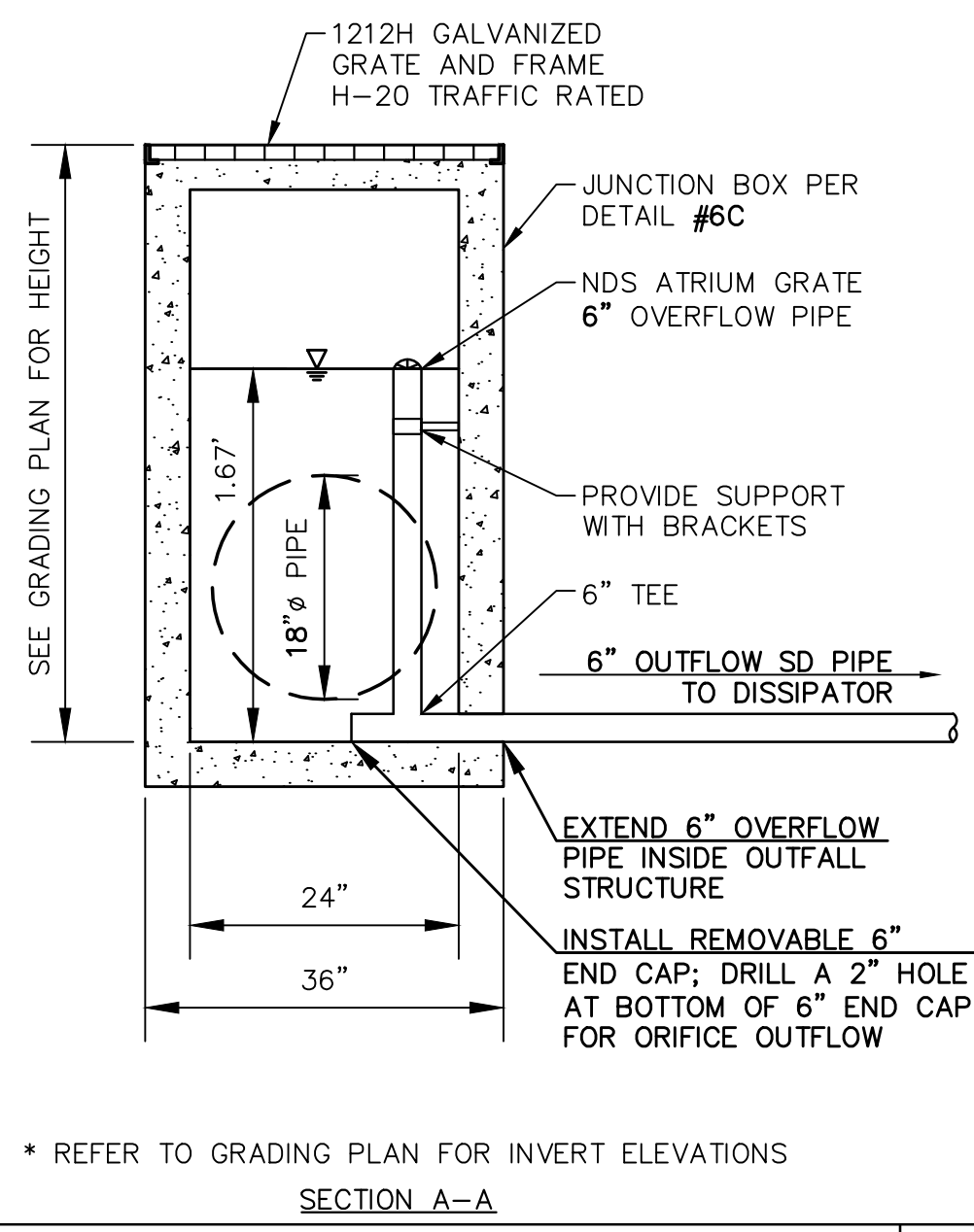
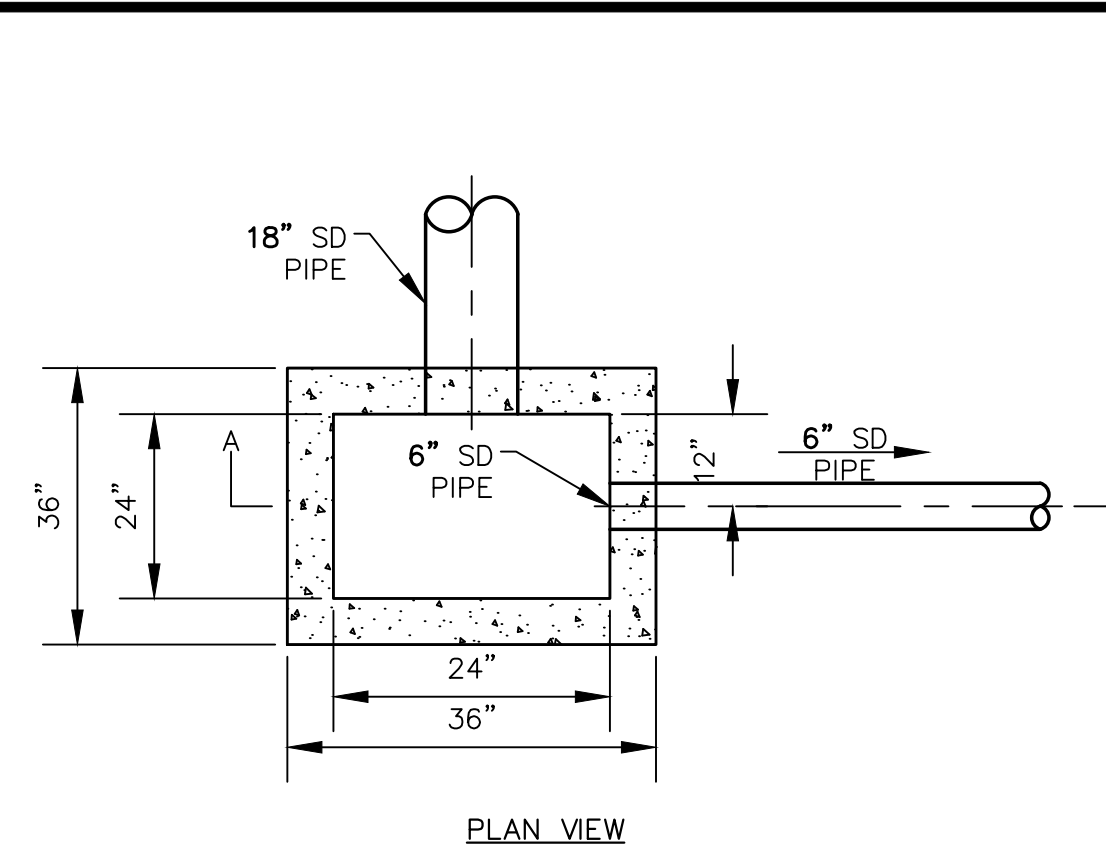
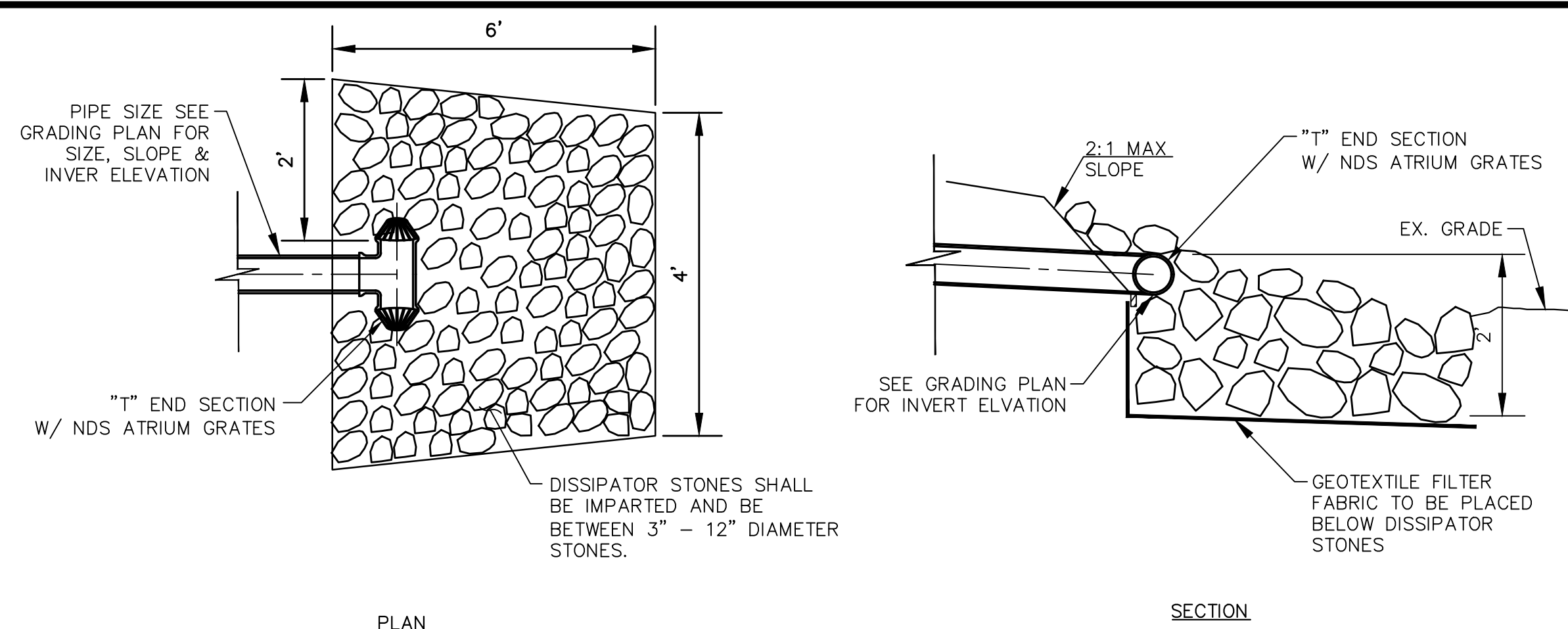
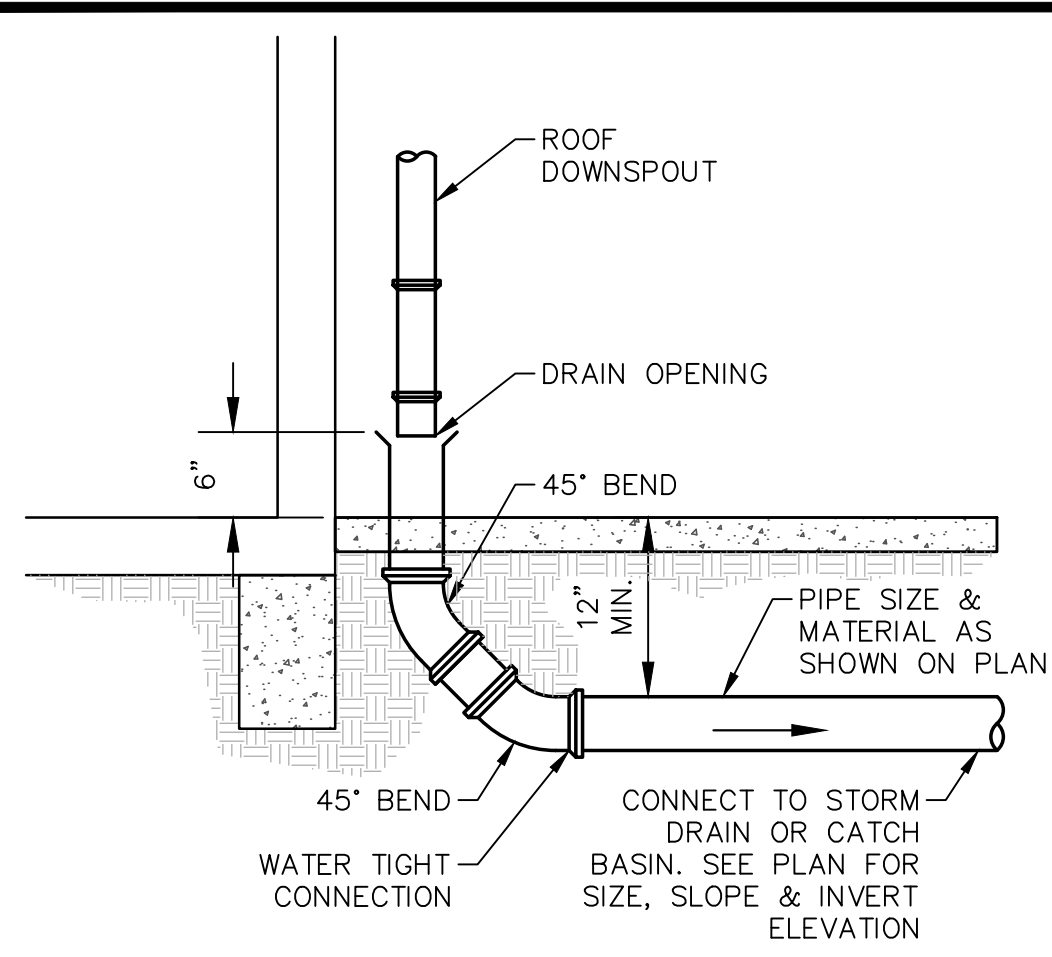
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**SHEET**  
**C4**  
 4 OF 8 SHEETS

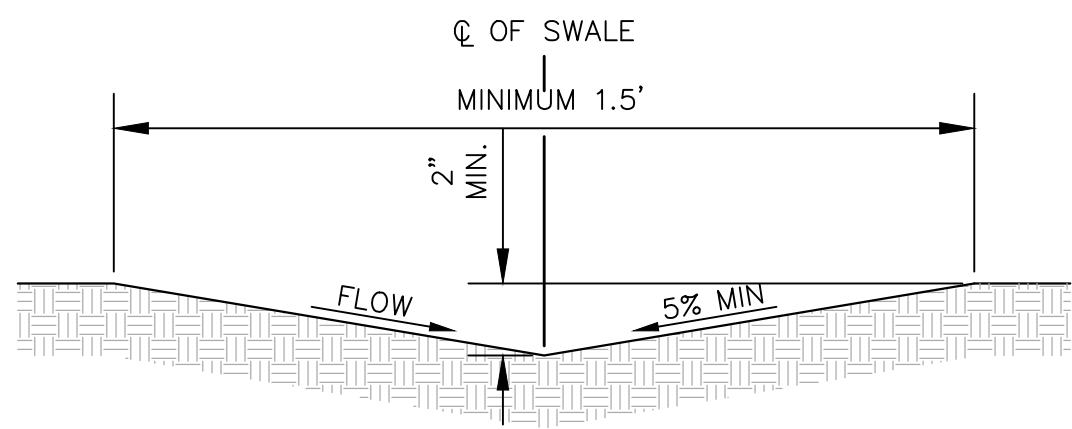
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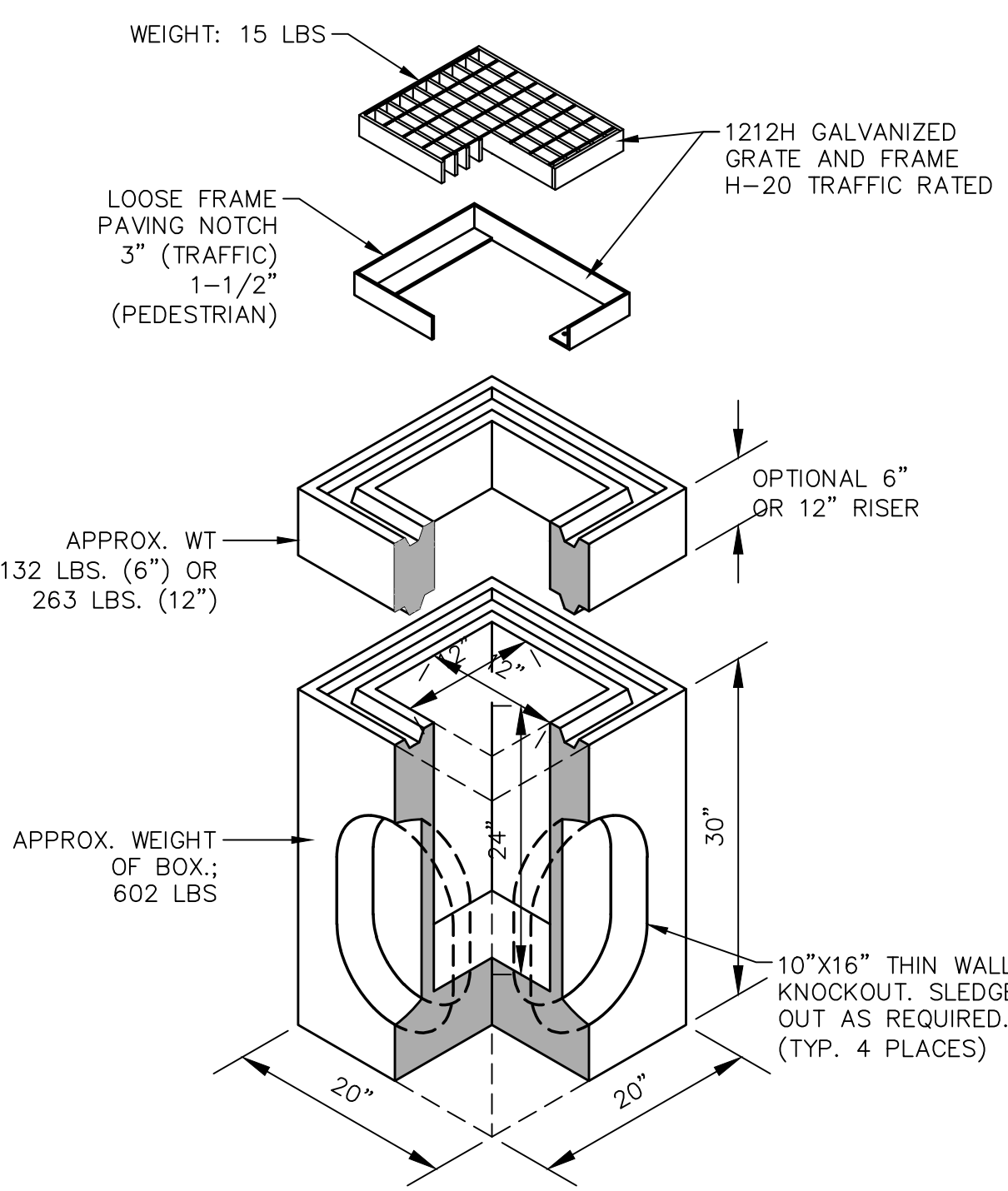
1D RAINWATER LEADER WITH DRAIN INLET N.T.S.

4E ENERGY DISSIPATOR N.T.S.

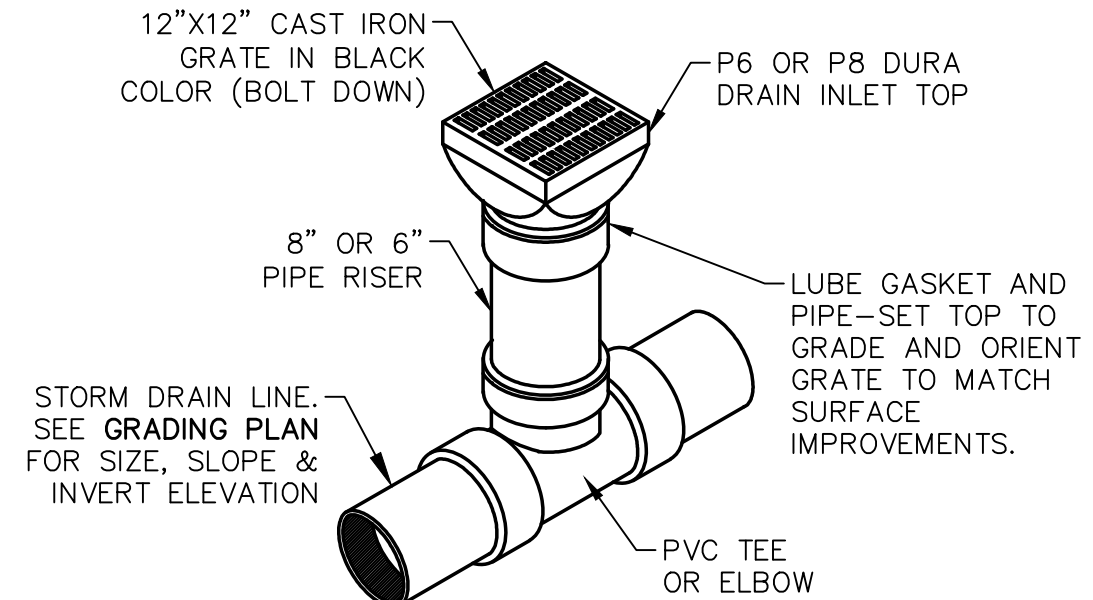
8A 24"X24" DETENTION OUTFALL STRUCTURE N.T.S.



2A TYPICAL VEGETATED SWALE N.T.S.



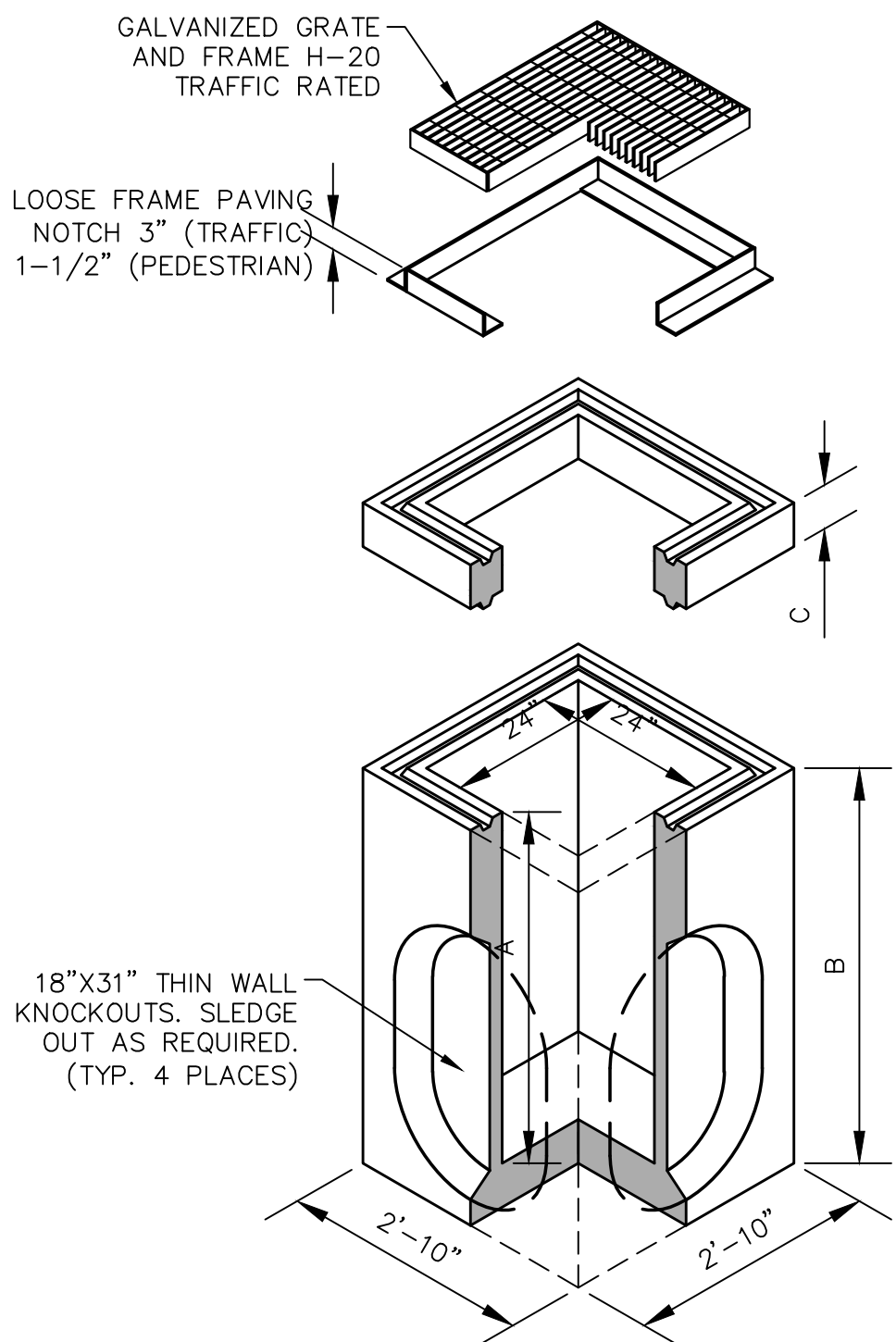
3A 12"X12" LANDSCAPE AREA DRAIN N.T.S.



1212-HDI  
12" LONG X 12" WIDE X 24" HIGH  
DROP INLET WITH  
ADJUSTABLE FRAME & GRATE

3A 12"X12" LANDSCAPE AREA DRAIN N.T.S.

6A 12"X12" DROP INLET BY JENSEN PRECAST N.T.S.

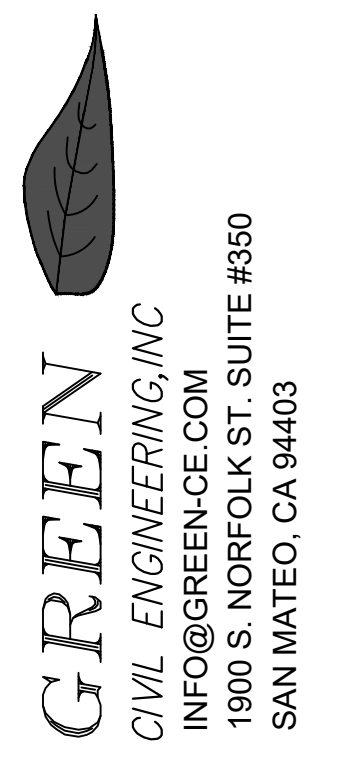


DROP INLET				EXTENSION		
MODEL NO.	A	B	* WEIGHT	MODEL NO.	C	WEIGHT
DI242436	36"	42"	1900 LBS.	RS242406	6"	300 LBS.
DI242448	48"	54"	2500 LBS.	RS242412	12"	600 LBS.

6C 24"X24" DROP INLET BY JENSEN PRECAST N.T.S.

REV.	DATE	DESCRIPTION

DETAIL SHEET 1  
KUMARASAMY RESIDENCE  
0 GRONWALL LN  
LOS ALTOS, CA 94024



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SHEET  
C5.0  
5 OF 8 SHEETS



**COUNTY SANITATION DISTRICT  
SANITARY SEWER NOTES**

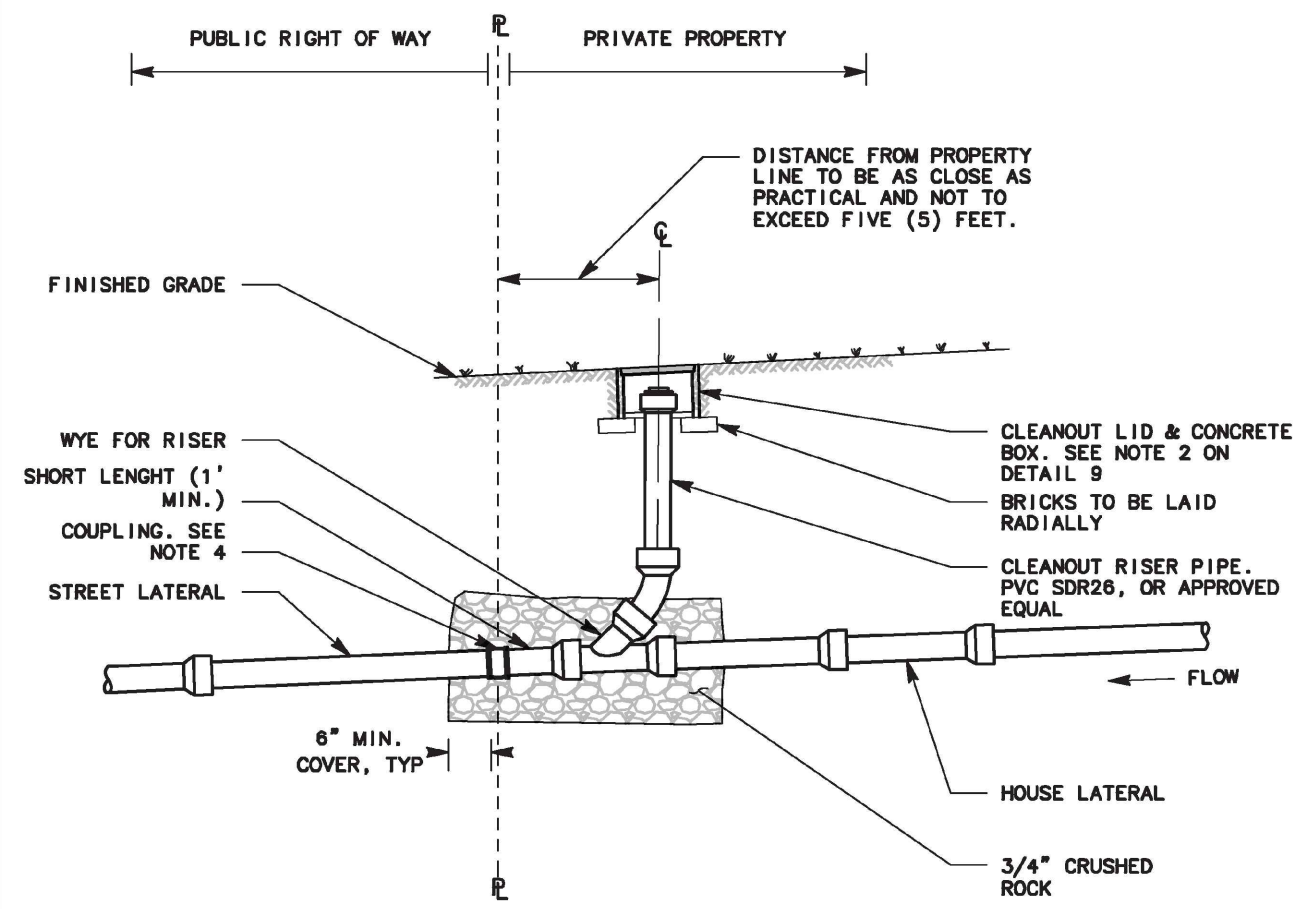
- All work shall be constructed in accordance with these plans, the current County Sanitation District Standard Specifications and Construction Details, and be installed in accordance with Manufacturers' requirements and specifications.
- All work shall comply with all current local, state and federal requirements.
- All excavation, backfill, and pavement section within street right-of-way shall be done in accordance with the requirements of the Engineer of the Public Agency having Jurisdiction and District Standard Specifications and Details. In case of conflict between Public Agency and District, Agency's requirements shall take precedence.
- Agency's Encroachment Permits shall be obtained and a copy shall be on the job during construction.
- Fill material shall be compacted to a minimum of two and one half (2.5) feet above the top of pipe elevation by methods that will not damage the pipe or two (2) slurry mix. Fill material must attain a minimum of ninety five percent (95%) relative compaction in pavement areas in accordance with the State of California Standard Specifications.
- The District Engineer shall be notified two (2) working days in advance of starting construction, 20863 Stevens Creek Boulevard, Suite 100, Cupertino, CA 95014 (408) 253-7071. At that time, traffic plans, encroachment permits and the sewer diversion plans shall be submitted to the District Engineer. Sewer diversion plans shall include sewage bypass and emergency plans. Work shall not begin until the District Engineer has provided written acceptance of these plans.
- One (1) sanitary sewer lateral shall be installed for each lot, residential unit or building with a clean-out. Location of lateral and property corners to be staked in field at the same time the sewer main is staked for construction. Laterals shall not be laid on less than two percent (2%) grade and shall have a minimum cover of four and one half (4.5) feet at property line or edge of sanitary sewer easement. Laterals shall be deeper than four and one half (4.5) feet when directed by District Engineer. Laterals shall not be extended beyond the street right-of-way line or sanitary sewer easement line until the main has been tested. Lateral sewers constructed outside of the public street or County Sanitation District Easement shall be constructed in accordance with the requirements of, and shall be inspected by the City Building Department.
- Existing laterals to be abandoned (or not used) shall be removed to the wye, capped and concrete collar minimum of 6" all around.
- The Contractor performing work on the sanitary sewers shall be required to register with the District and provide insurance as specified in Sections 1.39 and 1.40 of the District's Standard Specifications.
- The Developer and General Contractor shall be responsible for protection of all existing improvements including existing sanitary sewer facilities that are to remain and if damaged during construction of the proposed improvements, shall be repaired to the satisfaction of the County Sanitation District and other affected agencies.
- Channels of all District manholes within the construction area shall be protected by plywood covers, placed in the manholes and manhole castings shall be adjusted to final grade in accordance with the Standard Specifications of the County Sanitation District or as directed by the District Engineer.

FILE NO. SP-248	SANITARY SEWER NOTES		DETAIL <b>12A</b> 12
DR. BY: TN	DATE: 06/01/14	CK. BY: JC	DATE: 06/03/14
APPROVED BY: <i>[Signature]</i>		DATE: 06/04/14	

- The Developer and General Contractor shall be responsible for the prevention of construction debris entering the existing sanitary sewer system due to the construction activities associated with this project and the Developer and Contractor shall pay all costs associated with the release of construction debris into the existing sanitary sewer system due to the construction activities associated with this project.
- The Developer and General Contractor shall be responsible for the prevention of a sewage spill associated with the Contractor's activities and shall pay all costs associated with the release of sewage into surface drainage system and downstream surface waters.
- Utility Notification:
  - Underground Service Alert 800-227-2800
  - Storm Drains - City
  - Sanitary Sewers - County Sanitation District
- Contractor shall pothole and verify location and depth of all existing utilities crossing new sewer main or lateral construction.
- All Sanitary Sewer Pipes shall be PVC-SDR26 or approved equal, unless otherwise specified by the District Engineer.
- Access for pedestrians and vehicles shall be provided at all times unless approved in writing by the District Engineer.
- Sanitary Sewer Manholes, Flushing Inlets and Cleanouts shall be marked with "SANITARY" or "SANITARY SEWER".
- At the Developer/General Contractor's expense, Closed Circuit Video Inspection of mains, laterals and property line clean-outs is required. When the use of an existing lateral is proposed, an additional video inspection is required prior to construction to verify that it meets the current District Standards.

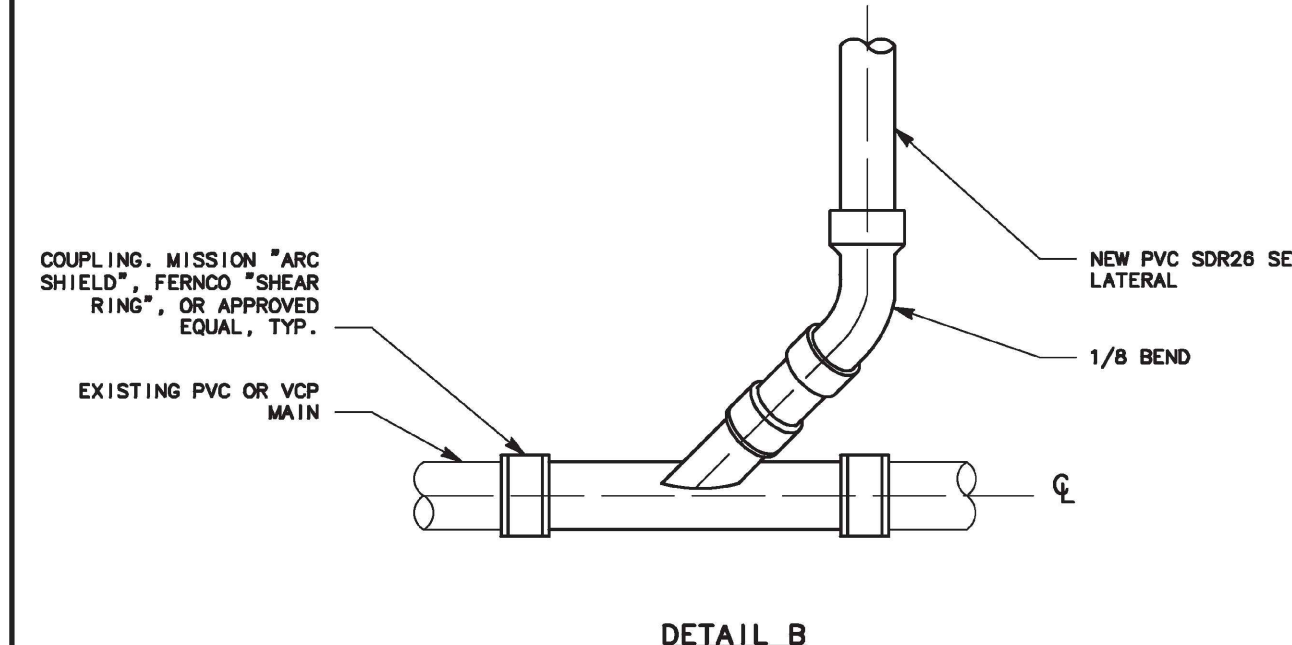
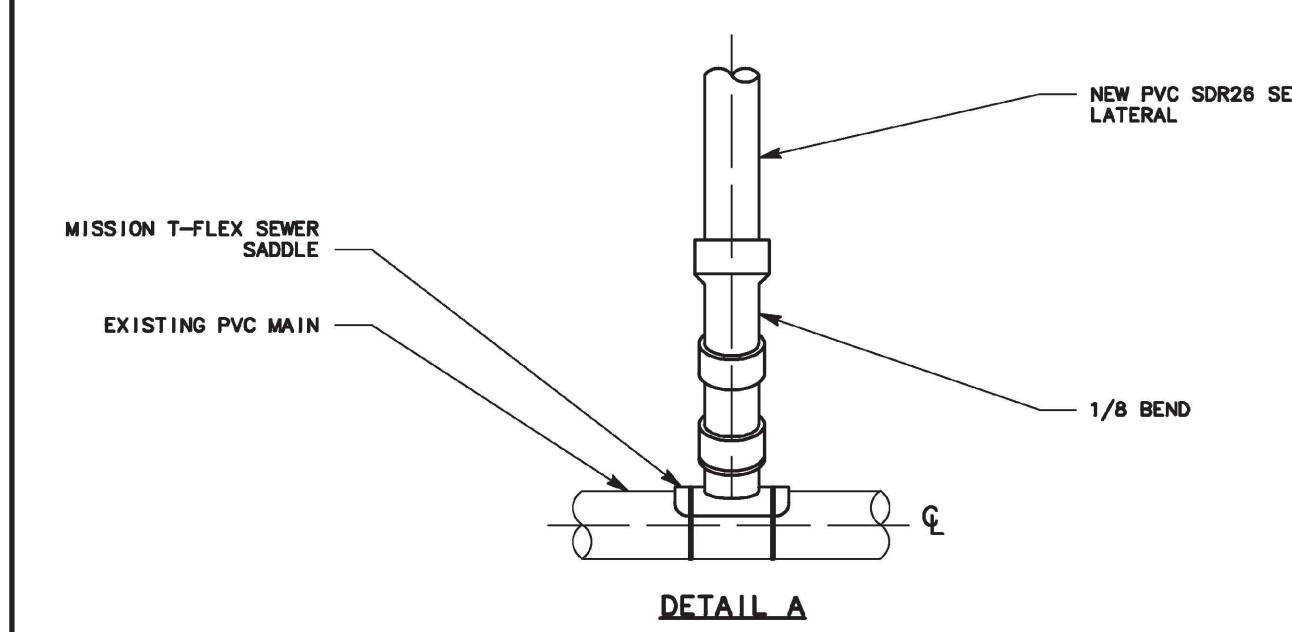
Approval of these plans by County Sanitation District does not relieve the Developer/General Contractor of the responsibility for the correction of mistakes, errors, or omissions. If, during the course of construction of the sanitary sewers the public interest requires a modification of, or a departure from the District Specifications and/or Details, the District Engineer shall have the authority to require such modifications or departure and to specify the manner in which the modifications or departure is to be done.

FILE NO. SP-248	SANITARY SEWER NOTES		DETAIL <b>12B</b> 12
DR. BY: TN	DATE: 06/01/14	CK. BY: JC	DATE: 06/03/14
APPROVED BY: <i>[Signature]</i>		DATE: 06/04/14	



- NOTES:**
- DETAIL TO BE USED ON NEW SANITARY SEWER LATERAL INSTALLATIONS. FOR NEW CLEANOUT INSTALLATION ON EXISTING LATERALS, SEE DETAIL 9.
  - 2% MINIMUM PIPE SLOPE, TYP.
  - LATERAL SEWER CLEANOUT TO BE SAME SIZE AS SEWER LATERAL.
  - AT LEAST 6" CLEARANCE BETWEEN VALVE CAP AND INSIDE OF BOX.
  - CONNECT HOUSE/PRIVATE LATERAL TO EXISTING STREET LATERAL WITH MISSION CLAY "SHEAR RING", OR FERNCO "ARC SHIELDED" COUPLING, OR APPROVED EQUAL.
  - INSPECTION INFORMATION
    - CONTACT DISTRICT OFFICE FOR LATERAL/CLEANOUT LOCATION AT (408)253-7071
    - NOTIFY DISTRICT INSPECTOR 48 HOURS PRIOR TO CONSTRUCTION
    - CONTACT DISTRICT INSPECTOR FOR VISUAL INSPECTION PRIOR TO BACKFILLING FOR FINAL APPROVAL
    - FINAL INSPECTION CONSISTS OF CLOSED CIRCUIT VIDEO INSPECTION OF POINT OF CONNECTION AND LOWER LATERAL TO CONFIRM DEBRIS HAS NOT ENTERED SEWER SYSTEM

PROPERTY LINE CLEANOUT ON NEW LATERAL		DETAIL <b>7</b>
DR. BY: ED	DATE: 08/30/2017	CK. BY: FQ
DATE: 10/20/2017	APPROVED BY: <i>[Signature]</i>	DATE: 10/25/2017



- NOTES:**
- DETAIL A - NEW LATERAL INTO EXISTING PVC SEWER MAINS
  - DETAIL B - NEW LATERAL INTO EXISTING PVC & VCP (CLAY) SEWER MAINS

LATERAL CONNECTIONS TO MAINS		DETAIL <b>8</b>
DR. BY: ED	DATE: 08/30/2017	CK. BY: FQ
DATE: 10/20/2017	APPROVED BY: <i>[Signature]</i>	DATE: 10/25/2017

REV.	DATE	DESCRIPTION

**DETAIL SHEET**  
**KUMARASAMY RESIDENCE**  
**0 GRONWALL LN**  
**LOS ALTOS, CA 94024**



SCALE	
VERTICAL: 1"= AS SHOWN	HORIZONTAL: 1"= AS SHOWN
DATE: 10/31/2023	DESIGNED: HCL
DRAWN: BL	REVIEWED: HCL
JOB NO.: 20230053	

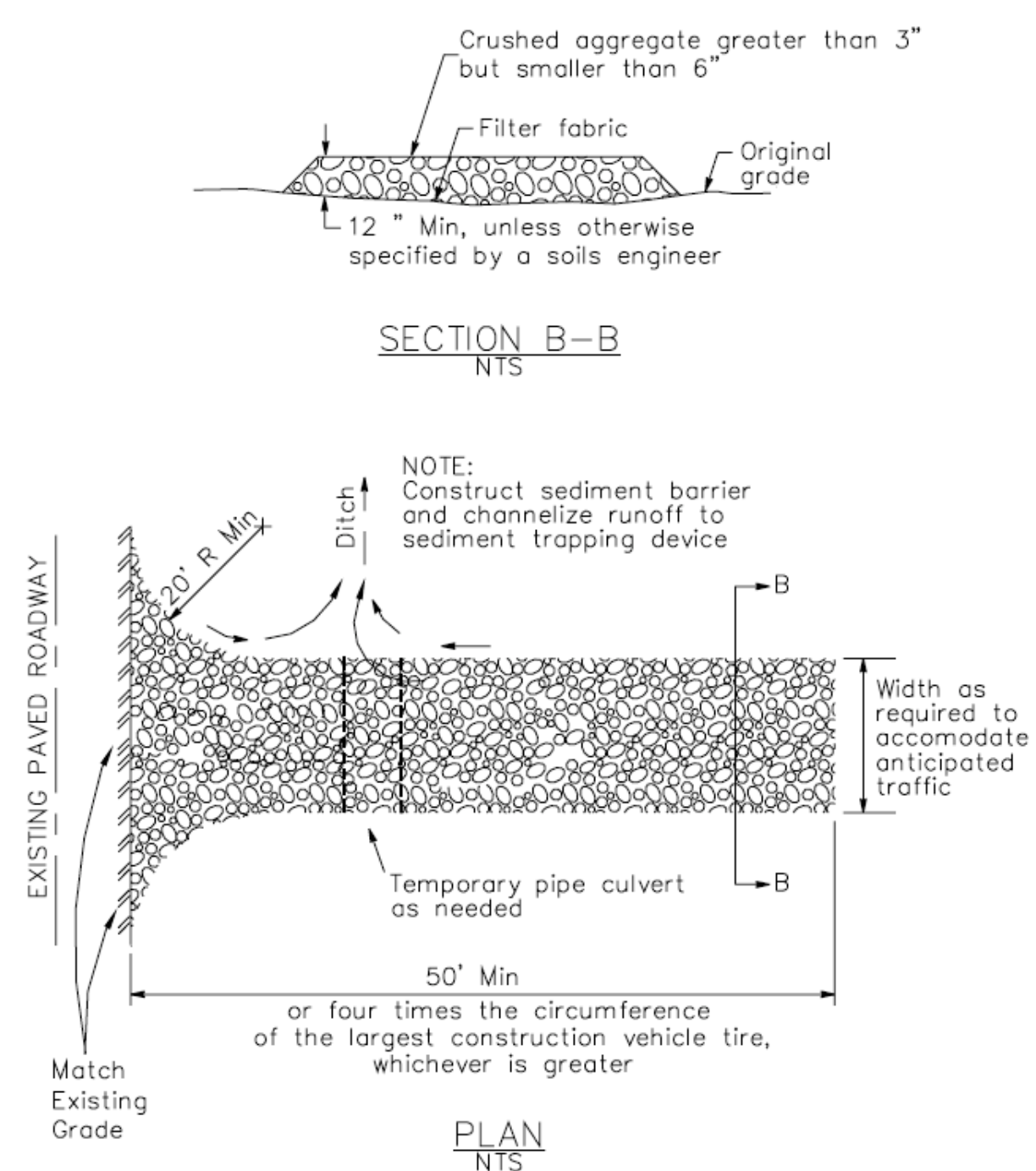
APPROVED FOR ISSUANCE REFER TO ENCROACHMENT AND/OR CONSTRUCTION PERMIT AND PLAN COVER SHEET FOR SPECIAL CONDITIONS AND PERMIT NUMBERING

SHEET  
**C5.1**  
6 OF 8 SHEETS



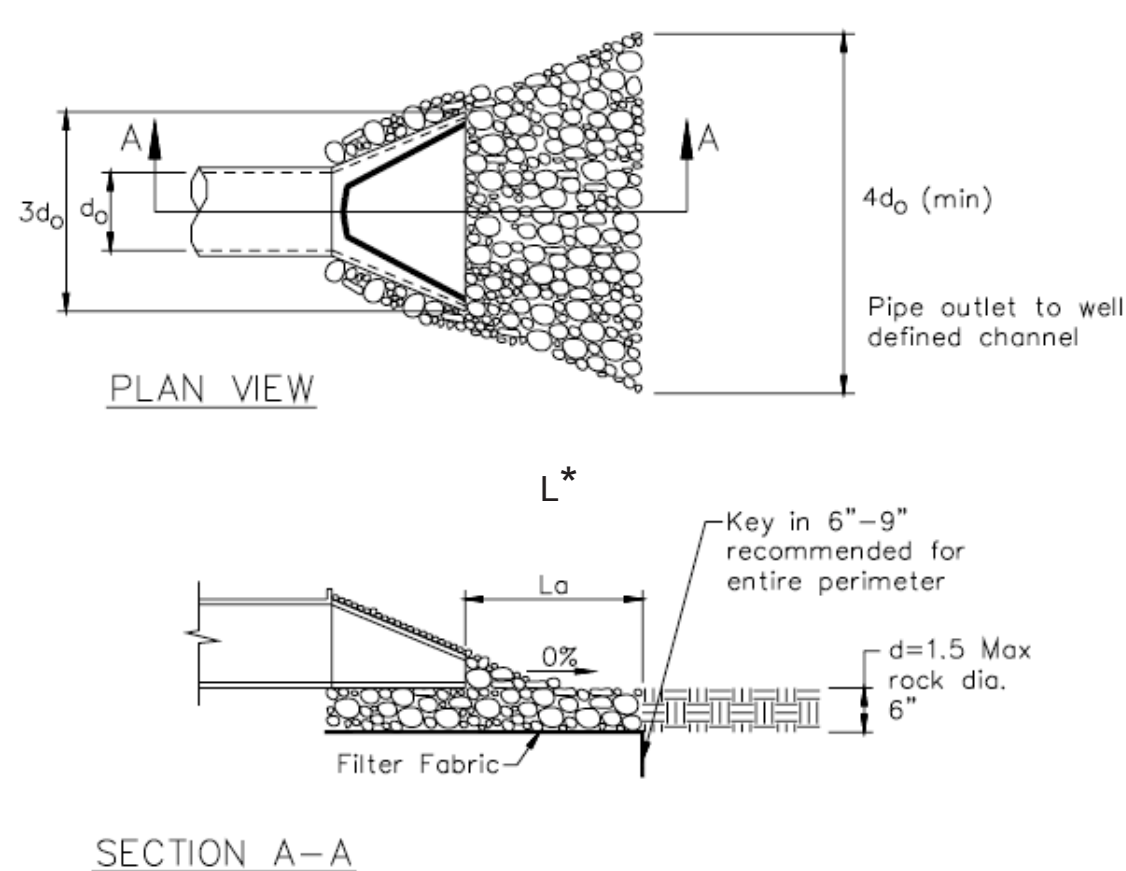
### 3 Stabilized Construction Entrance/Exit

CASQA Detail TC-1



### 4 Velocity Dissipation Devices

CASQA Detail EC-10

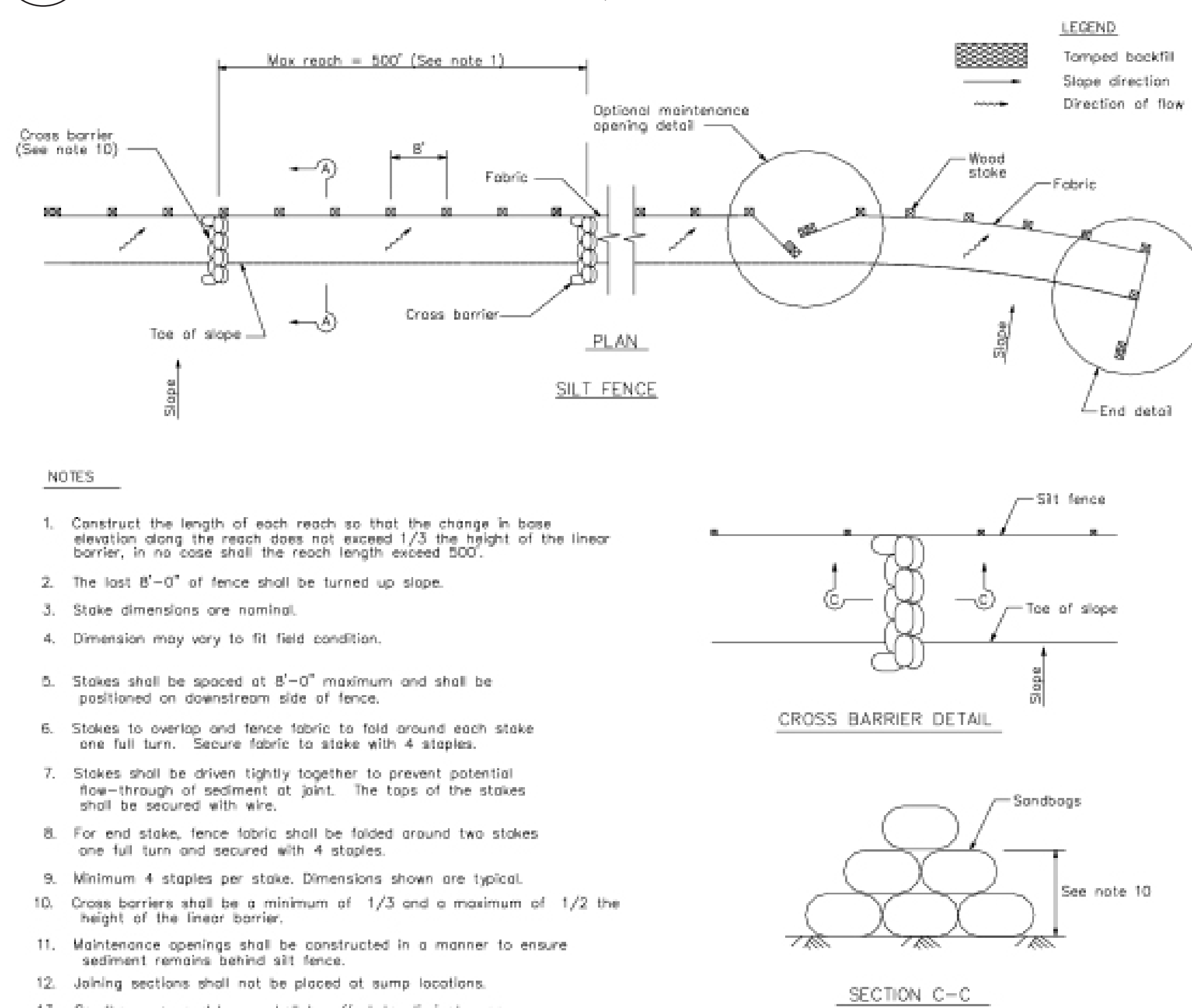


\* Length per ABAG Design Standards

Source for Graphics: California Stormwater BMP Handbook, California Stormwater Quality Association, January 2003. Available from www.cabmphandbooks.com.

### 1 Silt Fence

CASQA Detail SE-1

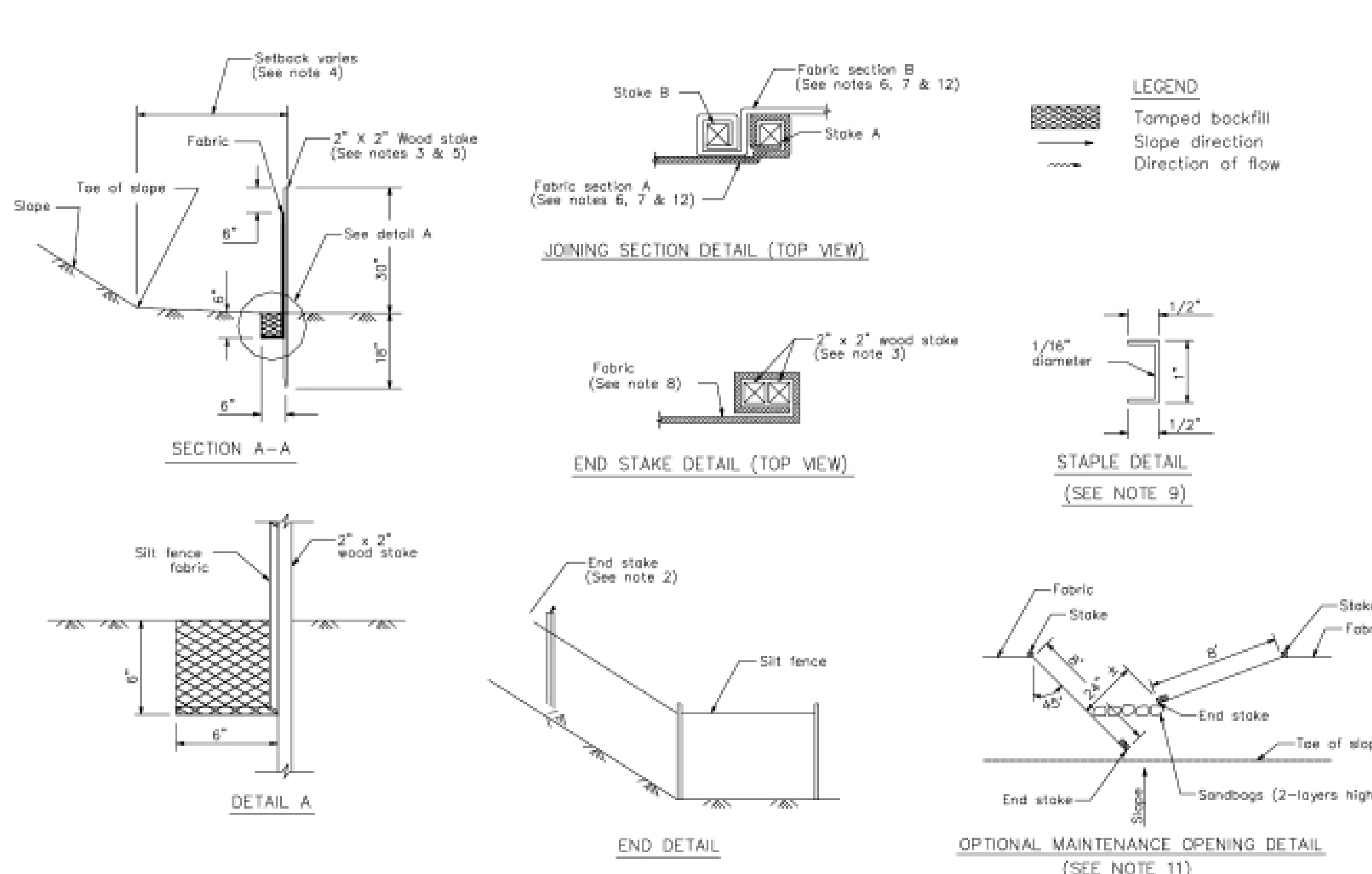


#### NOTES

1. Construct the length of each reach so that the change in base elevation along the reach does not exceed 1/3 the height of the linear barrier, in no case shall the reach length exceed 500'.
2. The last 8'-0" of fence shall be turned up slope.
3. Stake dimensions are nominal.
4. Dimension may vary to fit field condition.
5. Stakes shall be spaced at 8'-0" maximum and shall be positioned on downstream side of fence.
6. Stakes to overlap and fence fabric to fold around each stake one full turn. Secure fabric to stake with 4 staples.
7. Stakes shall be driven tightly together to prevent potential flow-through of sediment at joint. The tops of the stakes shall be secured with wire.
8. For end stake, fence fabric shall be folded around two stakes one full turn and secured with 4 staples.
9. Minimum 4 staples per stake. Dimensions shown are typical.
10. Cross barriers shall be a minimum of 1/3 and a maximum of 1/2 the height of the linear barrier.
11. Maintenance openings shall be constructed in a manner to ensure sediment remains behind silt fence.
12. Joining sections shall not be placed at sump locations.
13. Sandbag rows and layers shall be offset to eliminate gaps.

### 2 Silt Fence

CASQA Detail SE-1



#### STANDARD BEST MANAGEMENT PRACTICE NOTES

1. **Solid and Demolition Waste Management:** Provide designated waste collection areas and containers on site away from streets, gutters, storm drains, and waterways, and arrange for regular disposal. Waste containers must be watertight and covered at all times except when waste is deposited. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C3) or latest.
2. **Hazardous Waste Management:** Provide proper handling and disposal of hazardous wastes by a licensed hazardous waste material hauler. Hazardous wastes shall be stored and properly labeled in sealed containers constructed of suitable materials. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-5 to C-6) or latest.
3. **Spill Prevention and Control:** Provide proper storage areas for liquid and solid materials, including chemicals and hazardous substances, away from streets, gutters, storm drains, and waterways. Spill control materials must be kept on site where readily accessible. Spills must be cleaned up immediately and contaminated soil disposed properly. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-7 to C-8, C-13 to C-14) or latest.
4. **Vehicle and Construction Equipment Service and Storage:** An area shall be designated for the maintenance, where on-site maintenance is required, and storage of equipment that is protected from stormwater run-on and runoff. Measures shall be provided to capture any waste oils, lubricants, or other potential pollutants and these wastes shall be properly disposed of off site. Fueling and major maintenance/repair, and washing shall be conducted off-site whenever feasible. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C9) or latest.
5. **Material Delivery, Handling and Storage:** In general, materials should not be stockpiled on site. Where temporary stockpiles are necessary and approved by the County, they shall be covered with secured plastic sheeting or tarp and located in designated areas near construction entrances and away from drainage paths and waterways. Barriers shall be provided around storage areas where materials are potentially in contact with runoff. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-11 to C-12) or latest.
6. **Handling and Disposal of Concrete and Cement:** When concrete trucks and equipment are washed on-site, concrete wastewater shall be contained in designated containers or in a temporary lined and watertight pit where wasted concrete can harden for later removal. If possible have concrete contractor remove concrete wash water from site. In no case shall fresh concrete be washed into the road right-of-way. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-15 to C-16) or latest.
7. **Pavement Construction Management:** Prevent or reduce the discharge of pollutants from paving operations, using measures to prevent run-on and runoff pollution and properly disposing of wastes. Avoid paving in the wet season and reschedule paving when rain is in the forecast. Residue from saw-cutting shall be vacuumed for proper disposal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-17 to C-18) or latest.
8. **Contaminated Soil and Water Management:** Inspections to identify contaminated soils should occur prior to construction and at regular intervals during construction. Remediating contaminated soil should occur promptly after identification and be specific to the contaminant identified, which may include hazardous waste removal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-19 to C-20) or latest.
9. **Sanitary/Septic Water Management:** Temporary sanitary facilities should be located away from drainage paths, waterways, and traffic areas. Only licensed sanitary and septic waste haulers should be used. Secondary containment should be provided for all sanitary facilities. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C-21) or latest.
10. **Inspection & Maintenance:** Areas of material and equipment storage sites and temporary sanitary facilities must be inspected weekly. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.

#### STANDARD EROSION CONTROL NOTES

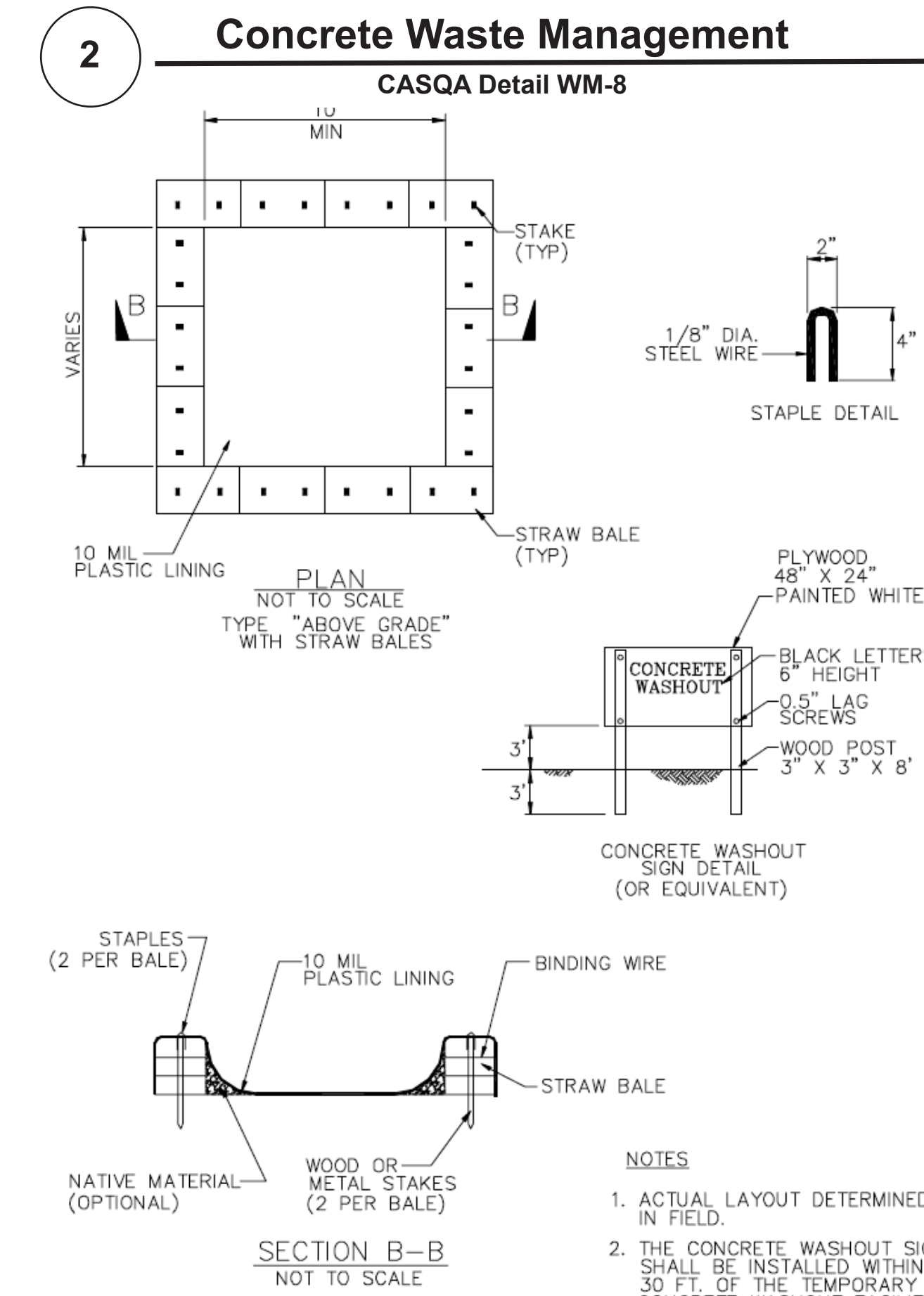
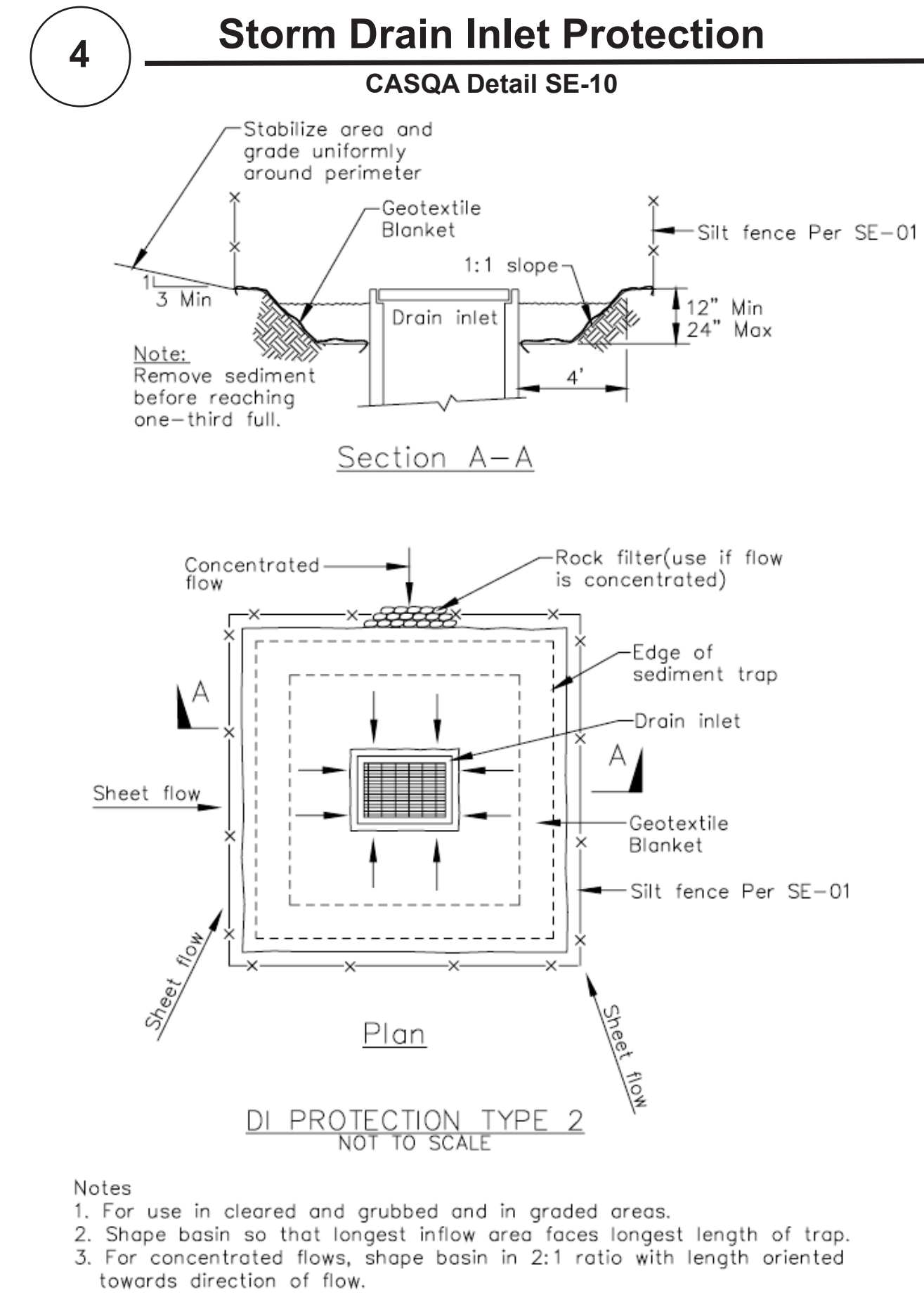
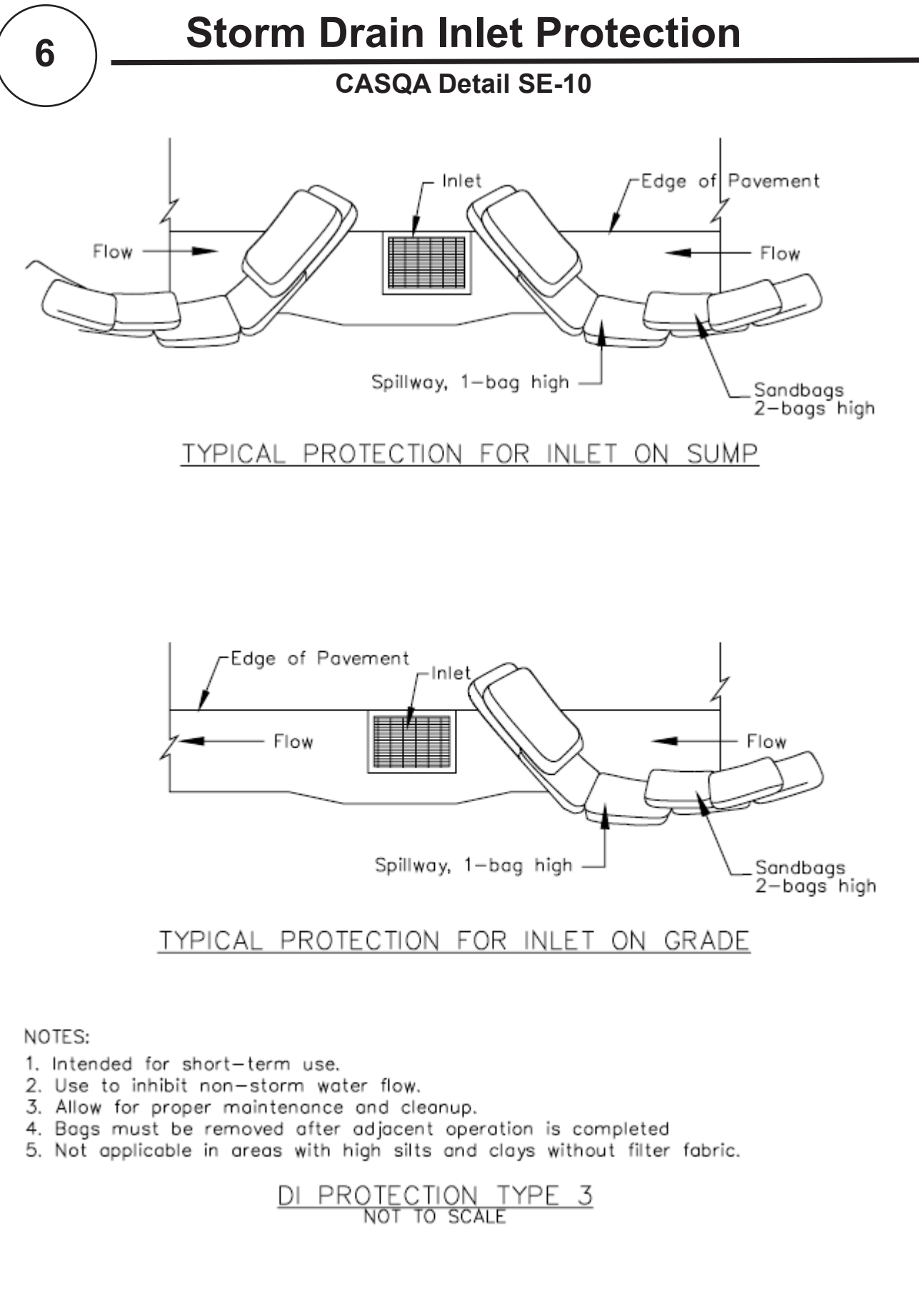
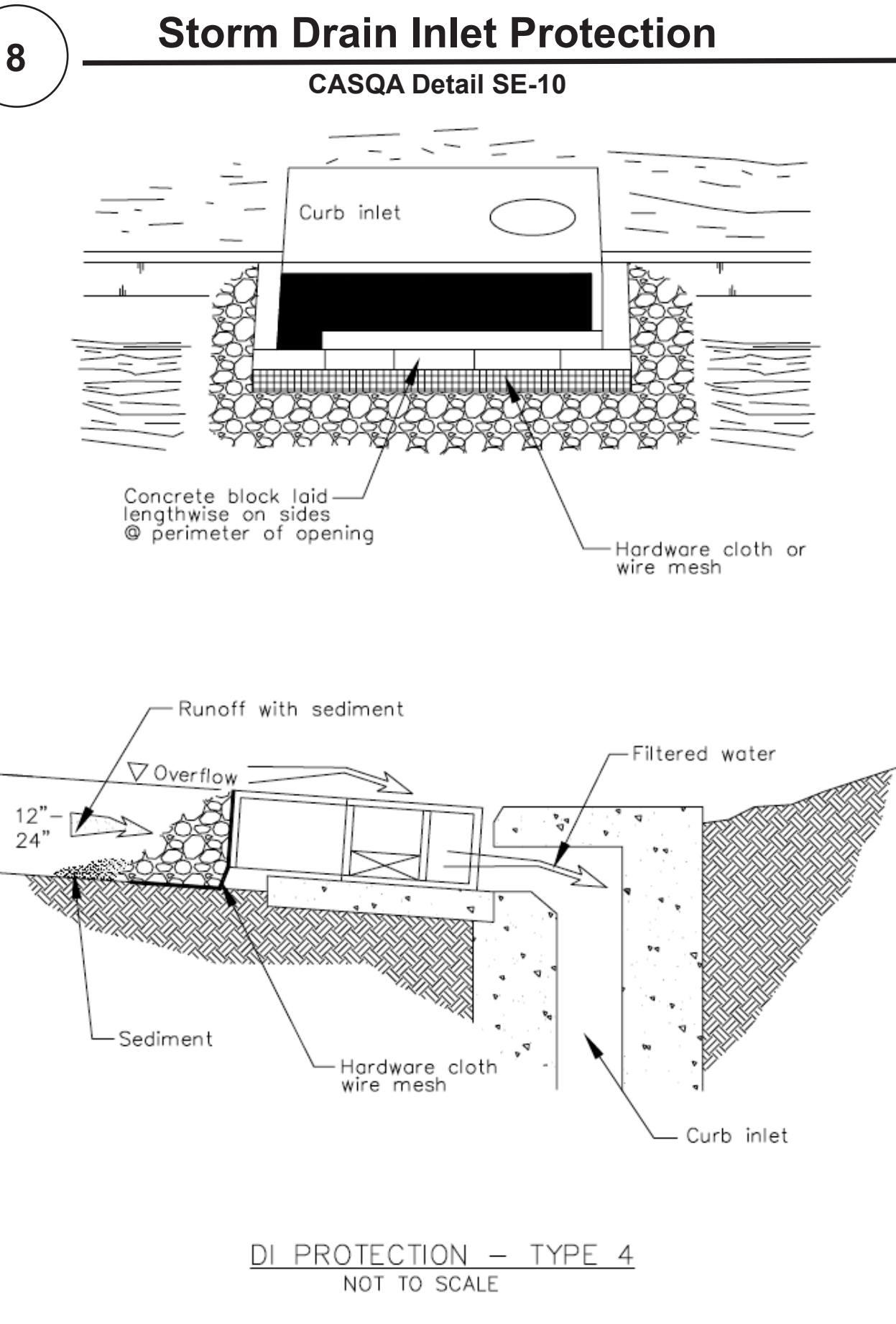
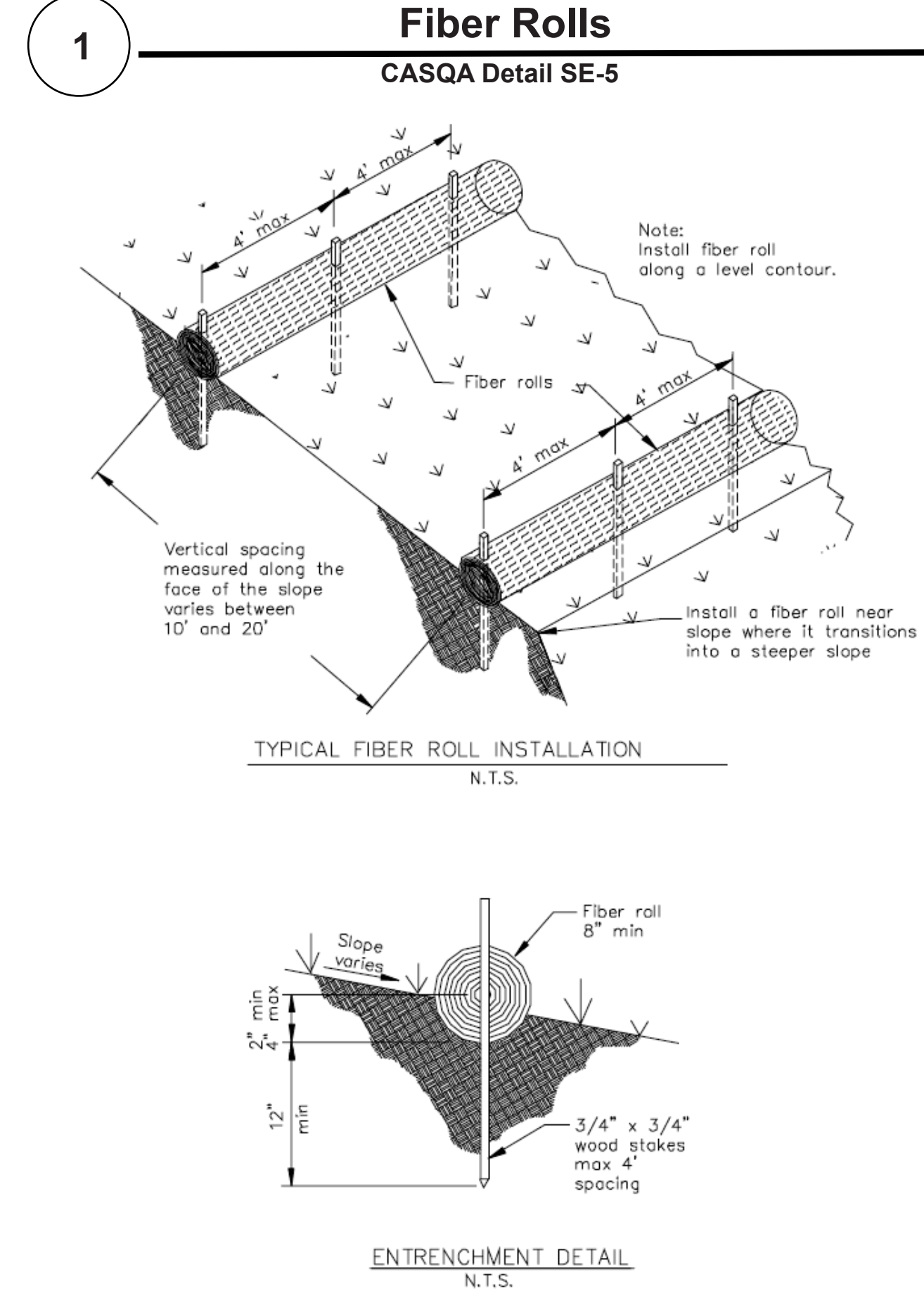
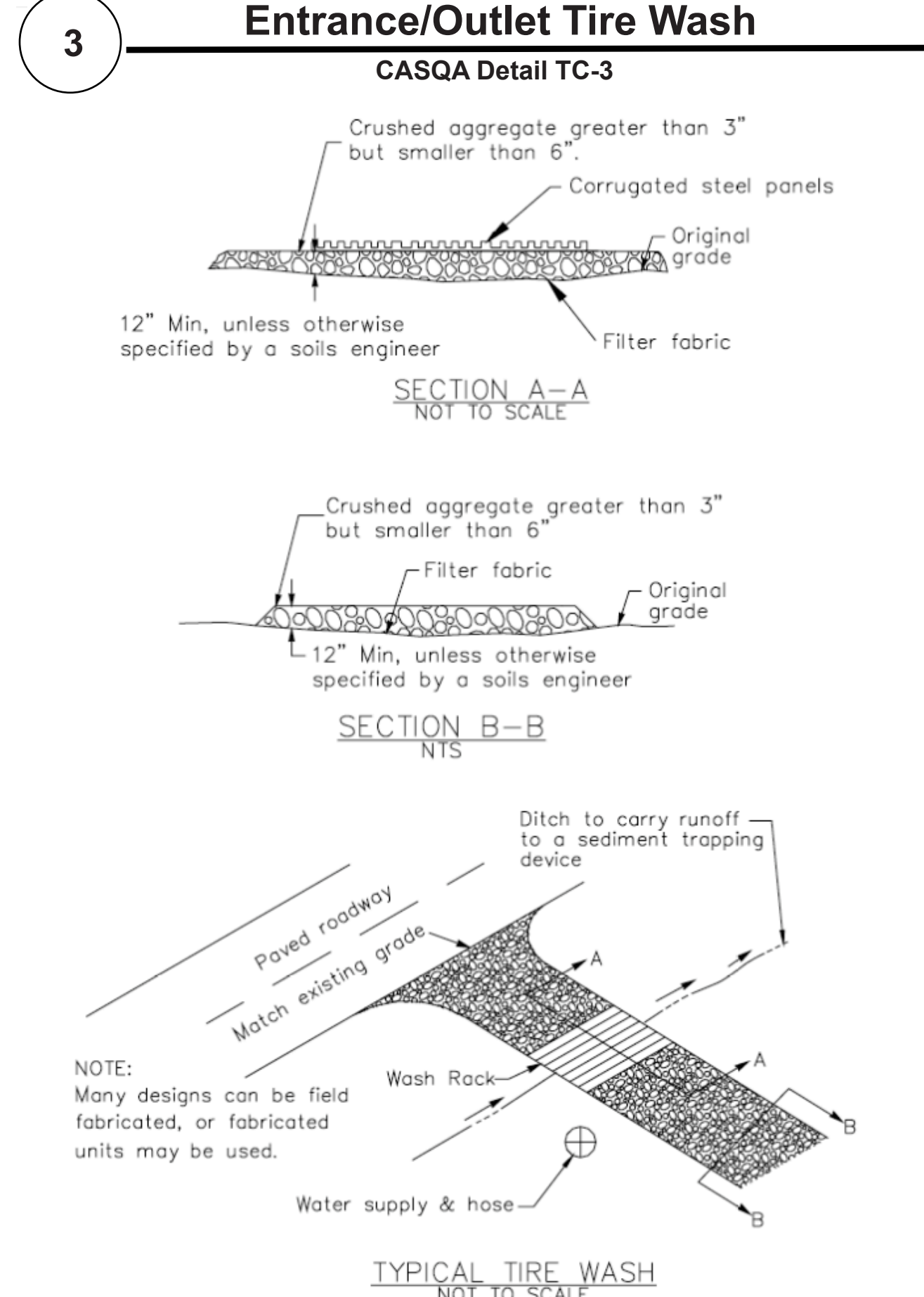
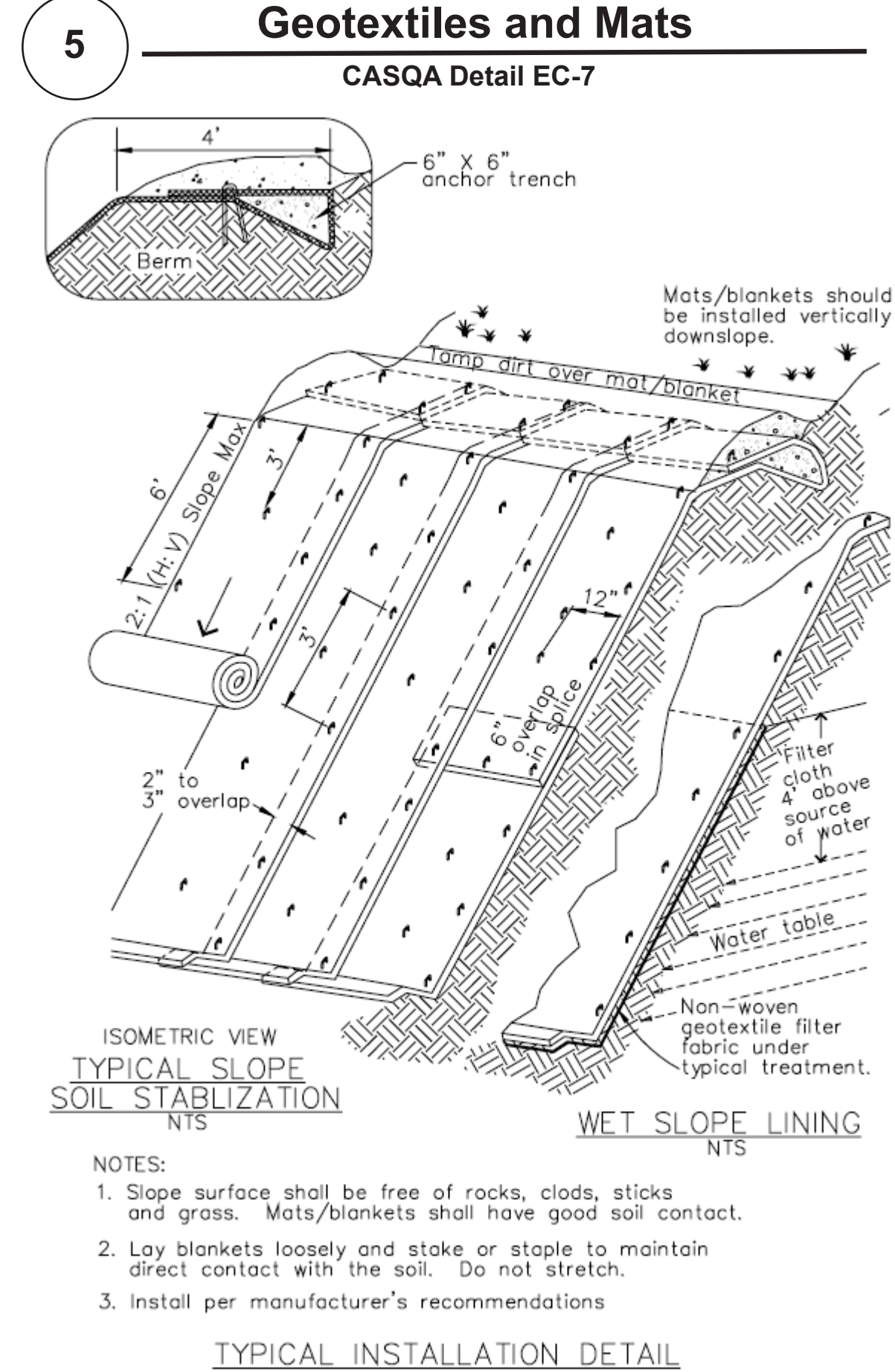
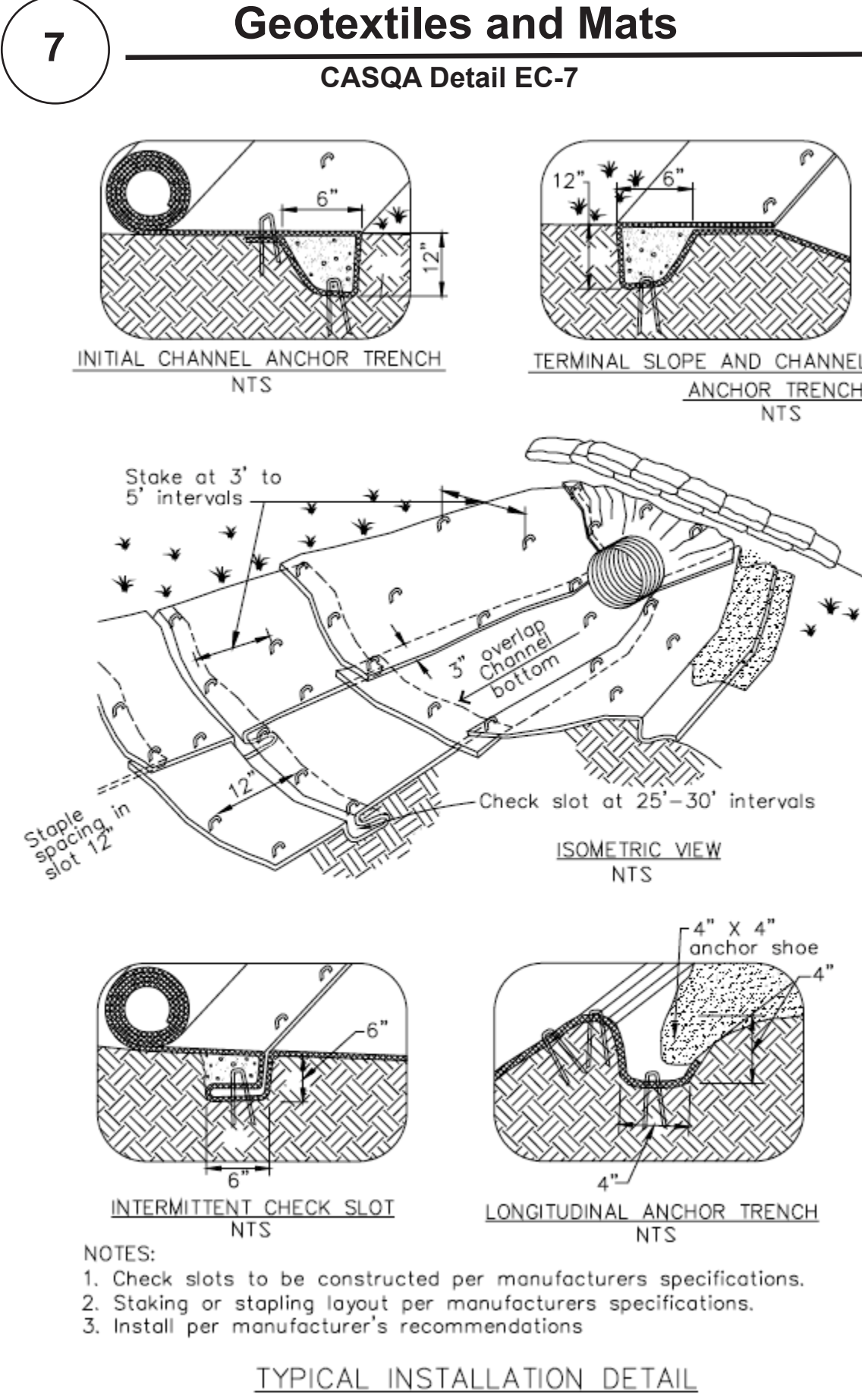
1. **Sediment Control Management:**
  - Tracking Prevention & Clean Up:** Activities shall be organized and measures taken as needed to prevent or minimize tracking of soil onto the public street system. A gravel or proprietary device construction entrance/exit is required for all sites. Clean up of tracked material shall be provided by means of a street sweeper prior to an approaching rain event, or at least once at the end of each workday that material is tracked, or, more frequently as determined by the County Inspector. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-31 to B-33) or latest.
  - Storm Drain Inlet and Catch Basin Inlet Protection:** All inlets within the vicinity of the project and within the project limits shall be protected with gravel bags placed around inlets or other inlet protection. At locations where exposed soils are present, staked fiber rolls or staked silt fences can be used. Inlet filters are not allowed due to clogging and subsequent flooding. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-49 to B-51) or latest.
  - Storm Water Runoff:** No storm water runoff shall be allowed to drain in to the existing and/or proposed underground storm drain system or other above ground watercourses until appropriate erosion control measures are fully installed.
  - Dust Control:** The contractor shall provide dust control in graded areas as required by providing wet suppression or chemical stabilization of exposed soils, providing for rapid clean up of sediments deposited on paved roads, furnishing construction road entrances and vehicle wash down areas, and limiting the amount of areas disturbed by clearing and earth moving operations by scheduling these activities in phases.
  - Stockpiling:** Excavated soils shall not be placed in streets or on paved areas. Borrow and temporary stockpiles shall be protected with appropriate erosion control measures (tarps, straw bales, silt fences, etc.) to ensure silt does not leave the site or enter the storm drain system or neighboring watercourse.
2. **Erosion Control:** During the rainy season, all disturbed areas must include an effective combination of erosion and sediment control. It is required that temporary erosion control measures are applied to all disturbed soil areas prior to a rain event. During the non-rainy season, erosion control measures must be applied sufficient to control wind erosion at the site.
3. **Inspection & Maintenance:** Disturbed areas of the Project's site, locations where vehicles enter or exit the site, and all erosion and sediment controls that are identified as part of the Erosion Control Plans must be inspected by the Contractor before, during, and after storm events, and at least weekly during seasonal wet periods. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.
4. **Project Completion:** Prior to project completion and signoff by the County Inspector, all disturbed areas shall be reseeded, planted, or landscaped to minimize the potential for erosion on the subject site.
5. It shall be the Owner's/Contractor's responsibility to maintain control of the entire construction operation and to keep the entire site in compliance with the erosion control plan.
6. Erosion and sediment control best management practices shall be operable year round or until vegetation is fully established on landscaped surfaces.

Project Information

0 Gronwall Lane  
Los Altos, CA 94024







Source for Graphics: California Stormwater BMP Handbook, California Stormwater Quality Association, January 2003. Available from www.cabmphandbooks.com.

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