

COUNTY OF SANTA CLARA

GENERAL CONSTRUCTION SPECIFICATIONS

- ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS AND/OR GEOTECHNICAL REPORT PREPARED BY GAFEX ENGINEERS INC. AND DATED MAY 9, 2017. 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, 6) THE EVENT OF CONFLICT THE OVER SHOWN SHALL BE 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 THE IMPROVEMENTS SHOWN ON THESE PLANS AND THE COUNTY ENGINEER'S 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'S 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 CORONER AT (408) 454-2520 AND LAND DEVELOPMENT ENGINEERING OFFICE AT (408) 299-5730. NO FURTHER DISTURBANCE OF THE SITE MAY BE MADE EXCEPT AS AUTHORIZED BY THE 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 SCOPE OF 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 REQUIRES 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 PROCESSES OF CONSTRUCTION TO OBSERVE THEIR COMPLIANCE WITH PLANS & SPECIFICATIONS BUT DOES NOT INCLUDE RESPONSIBILITY FOR THE SUPERINTENDENT 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 INSPECTOR WITH PWD 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:
A) TO A MINIMUM DEPTH OF TWO FEET BELOW THE FINISHED GRADE OF PROPOSED ROADWAYS (EITHER PRIVATE OR TO BE DEDICATED TO PUBLIC USE)
B) FROM AREAS AFFECTED BY THE PROPOSED GRADING EXCEPT WHERE NOTED ON THE PLANS.
- 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. SURFAING 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 95% 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 DESIGNED 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 DESIGNED BY THE COUNTY ENGINEERING INSPECTOR.

GRADING PLAN

- 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, IT 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 KEPT IN PLACE 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) AGRATING 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.

IMPROVEMENT	EARTHWORK QUANTITY (CUBIC YARD)		MAXIMUM DEPTH (FEET)	
	CUT	FILL	CUT	FILL
RESIDENCE	---	---	0	0
ACCESSORY STRUCTURE	---	---	0	0
POOL	2.7	2.3	1	1
DISSEMINATE	110	279	0	1.5
DRIVEWAY	---	---	---	0.5
LANDSCAPE	58	7	1	0.5
TOTAL	168	327	---	---

NOTE: FILL VOLUMES INCLUDE TOL SHrinkAGE

- EXCESS MATERIAL SHALL BE OFF HAULED TO A COUNTY APPROVED DUMP SITE.
- NOTIFY 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 GEOTECHNICAL PLAN REVIEW LETTER MUST BE REVIEWED AND APPROVED BY THE COUNTY INSPECTOR 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.
 - DISTURBED AREA FOR THE PROJECT
 - WOLD NO. 314402 SF
 - 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 INTERSECTIONS WITH THE LINE 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:
A. FENCING SHOULD BE PLACED ALONG THE OUTSIDE EDGE OF THE DRIPLINE OF THE TREE OR GROVE OF TREES.
- THE FENCING SHALL BE MAINTAINED THROUGHOUT THE SITE CONSTRUCTION PERIOD 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 CONSTRUCTION ACTIVITY, TREE PROTECTIVE FENCING SHALL BE SECURELY IN PLACED 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 FUL DEPTH CONCRETE LIFT TO A 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, RETAINING WALLS, DRIVEWAY APPROACHES, FENCES, LANDSCAPING, TREE REMOVAL, STORM DRAINAGE IMPROVEMENTS, ETC.

STREET LIGHTING

- PACIFIC GAS & ELECTRIC ELECTROLUER 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 JUD 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 EXPOSED SOILS WITH MULCH, 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 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 15 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 MILES PER HOUR.
- ALL CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED AND PROPERLY TUNED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ALL EQUIPMENT SHALL BE CHECKED BY CERTIFIED MECHANIC AND DETERMINED TO BE RUNNING IN PROPER CONDITION PRIOR TO OPERATION.
- POST A SIGN THAT IS AT LEAST 32 SQUARE FEET MINIMUM 2 INCHES LETTER HEIGHT VISIBLY NEAR THE ENTRANCE OF CONSTRUCTION SITE THAT IDENTIFIES THE FOLLOWING REQUIREMENTS. OBTAIN ENCROACHMENT PERMIT OR SIGN FROM ROADS DEPARTMENT OR OTHER APPLICABLE AGENCY IF REQUIRED.
- 15 MILES PER HOUR (MPH) SPEED LIMIT

- B. 5 MINUTES MAXIMUM IDLING TIME OF VEHICLES
- C. TELEPHONE NUMBER TO CONTACT THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT REGARDING DUST COMPLAINTS. NOTE PHONE NUMBER OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT AIR POLLUTION COMPLAINT HOTLINE OF 1-800-334-6367.
- ALL FILL SLOPES SHALL BE COMPACTED AND LEFT IN A SMOOTH AND FIRM CONDITION CAPABLE OF WITHSTANDING WEATHERING.
 - ALL EXPOSED DISTURBED AREAS SHALL BE SEEDED WITH BROME SEED SPREAD AT THE RATE OF 5 LB. PER 1000 SQ. FEET (OR APPROVED EQUAL) SEEDING AND WATERING SHALL BE MAINTAINED AS REQUIRED TO ENSURE GROWTH.
 - ALL DITCHES SHALL BE LINED PER COUNTY STANDARD SDB.
 - 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 EASED TO SHEET FLOOD.
 - A CONSTRUCTION OBSERVATION LETTER FROM THE RESPONSIBLE GEOTECHNICAL ENGINEER AND CERTIFIED ENGINEERING GEOLOGIST DETAILING CONSTRUCTION OBSERVATIONS AND CERTIFYING THAT THE WORK WAS DONE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL AND GEOLOGICAL REPORTS SHALL BE SUBMITTED PRIOR TO GRADING COMPLETION AND RELEASE OF BOND.
- ### LEGEND & ABBREVIATIONS
- | | | | |
|----------|------------------------------------|-----|------------------------------------|
| AB | AGGREGATE BASE | ⬆ | BENCHMARK |
| AC | ASPHALT CONCRETE | --- | BOUNDARY |
| BSG | BUILDING | ⬆ | CATCH BASIN |
| BSL | BUILDING SETBACK LINE | ⬆ | COBBLE ROCK |
| BW | BOTTOM OF WALL/BACK OF WALK | ⬆ | ENERGY DISSIPATOR |
| CEC | COBBLE ROCK ENERGY DISSIPATOR | ⬆ | CURB & GUTTER |
| CG | CONCRETE | ⬆ | CENTERLINE |
| CMU | CONCRETE MASONRY UNIT | ⬆ | CONCRETE MASONRY UNIT |
| CO | SANITARY SEWER CLEANOUT | ⬆ | CONTOUR: EXISTING |
| CNC | CONCRETE | ⬆ | CONTOUR: PROPOSED |
| CSD | COUNTY STANDARD DETAIL | ⬆ | OR NEW |
| DE | DRAINAGE EMITTER | ⬆ | DESIGN GRADE |
| D | DRAINAGE INLET | ⬆ | DOWNSPOUT WITH |
| DI | DUCTILE IRON PIPE | ⬆ | SPLASHBLOCK |
| DW | DOWNSPOUT | ⬆ | DIVERSION VALVE |
| DIP | DRIVEWAY | ⬆ | BACKWATER VALVE |
| FD | FOUND | ⬆ | (SEE PROJECT NOTES) |
| ELEV | ELEVATION | ⬆ | DRAINAGE SWALE |
| EM | ELECTRIC METER | ⬆ | EASEMENT LINE |
| EO(H) | ELECTRIC OVERHEAD | ⬆ | EXISTING ELEVATION |
| EX | EXISTING | ⬆ | EXISTING FENCE |
| EP | EDGE OF PAVEMENT | ⬆ | EXISTING TREE TO BE REMOVED |
| FL | FLOW LINE | ⬆ | EXISTING TREE TO REMAIN |
| FWL | FUTURE WIDTH LINE | ⬆ | FOUND IRON PIPE AT PROPERTY CORNER |
| G | GARAGE SLAB ELEVATION/GAS LINE | ⬆ | FILTER FABRIC ROLLS |
| GM | GAS METER | ⬆ | GAS METER |
| HI | HI POINT | ⬆ | GRADE TO DRAIN |
| INV | INVERT | ⬆ | GUY POLE |
| LIP | LIP OF GUTTER | ⬆ | HYD RANT |
| LA | LANDSCAPED AREA | ⬆ | INLET |
| MAX | MAXIMUM | ⬆ | JOINT POLE |
| MH | MANHOLE | ⬆ | LIGHTING |
| MIN | MINIMUM | ⬆ | LIGHTING POLE |
| NTS | NOT TO SCALE | ⬆ | LOW POINT |
| OH | OVERHEAD | ⬆ | MAIL BOX |
| OG | ORIGINAL GROUND | ⬆ | MONUMENT WELL |
| P | PAVEMENT FINISH GRADE | ⬆ | OVERLAND FLOW DIRECTION |
| PAD | PAD ELEVATION | ⬆ | PGE BOX |
| PL | PROPERTY LINE | ⬆ | PROJECT SITE |
| PP | POWER POLE PROP PROPOSED | ⬆ | RIGHT OF WAY |
| PSE | PUBLIC SERVICE EASEMENT | ⬆ | SANITARY SEWER CLEAN OUT MANHOLE |
| PUE | PUBLIC UTILITY EASEMENT | ⬆ | SANITARY SEWER MANHOLE |
| PVM | PAVEMENT | ⬆ | STORM DRAIN MANHOLE |
| PVC | POLYVINYL CHLORIDE | ⬆ | STANDARD CITY DETAIL |
| R | RADIUS | ⬆ | SIDEWALK |
| RW | RETAINING WALL | ⬆ | TOP OF BANK |
| REM | REMOVE | ⬆ | TOP OF CURB |
| R/W | RIGHT OF WAY | ⬆ | TRENCH DRAIN |
| SCSD | SANTA CLARA COUNTY STANDARD DETAIL | ⬆ | T ENERGY DISSIPATOR |
| S.C.V.WD | SANTA CLARA VALLEY WATER DISTRICT | ⬆ | TEMPORARY |
| SD | STORM DRAIN | ⬆ | TOE OF BANK |
| SDE | STORM DRAIN EASEMENT | ⬆ | TOE OF GRATE |
| SE | SLOPE EASEMENT | ⬆ | TOE OF CUT |
| SS | SANITARY SEWER/LATERAL | ⬆ | TOE OF CUT |
| STA | STATION | ⬆ | TOE OF CUT |
| STD | STANDARD CITY DETAIL | ⬆ | TREE NUMBER |
| SW | TOP OF BANK | ⬆ | UTILITY: EXISTING |
| TC | TOP OF CURB | ⬆ | UTILITY: PROPOSED |
| TD | TRENCH DRAIN | ⬆ | WATER METER |
| TE | T ENERGY DISSIPATOR | ⬆ | WATER VALVE |
| TEMP | TEMPORARY | ⬆ | WELL |
| TOE | TOE OF BANK | ⬆ | WELL |
| TG | TOE OF GRATE | ⬆ | WELL |
| TPF | TREE PROTECTION FENCE | ⬆ | WELL |
| TP | TOP OF WALL | ⬆ | WELL |
| TV | TYPICAL | ⬆ | WELL |
| VG | VALLEY GUTTER | ⬆ | WELL |
| W | WATER | ⬆ | WELL |
| WM | WATER METER | ⬆ | WELL |
| WV | WATER VALVE | ⬆ | WELL |

STORM DRAINAGE AND STORMWATER MANAGEMENT

- DEVELOPER IS RESPONSIBLE FOR ALL NECESSARY DRAINAGE FACILITIES WHETHER SHOWN ON THE PLANS OR NOT AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THE ADEQUACY AND CONTINUED MAINTENANCE OF THESE FACILITIES IN A MANNER WHICH WILL PRECLUDE ANY HAZARD TO LIFE, HEALTH, OR DAMAGE TO ADJOINING PROPERTY, CONSISTENT WITH NPDES PERMIT CAS612008 / ORDER NO. R2-2009-0047 AND NPDES PERMIT CAS000004 / ORDER NO. 2013-0001-DWO.
- DRAIN INLETS SHALL BE CULVERTS UNLESS OTHERWISE NOTED ON THE PLANS. THE DEVELOPER'S ENGINEER SHALL BE RESPONSIBLE FOR THE PROPER LOCATION OF DROP INLETS. WHERE STREET PROFILE GRADE EXCEEDS 6% DROP INLETS SHALL BE SET AT 500 ALE CURB LINE TO ACCEPT WATER OR AS SHOWN ON THE PLANS.
- WHERE CULVERTS ARE INSTALLED THE DEVELOPER SHALL BE RESPONSIBLE FOR GRADING THE OUTLET DITCH TO DRAIN TO AN EXISTING SWALE OR TO AN OPEN AREA FOR SHEET FLOW.
- UPON INSTALLATION OF THE UNINTERRUPTED FLOW OF WATER IN ROADSIDE DITCHES.
- THE COUNTY SHALL INSPECT UNDERGROUND DRAINAGE IMPROVEMENTS AND STORMWATER MANAGEMENT FEATURES PRIOR TO BACKFILL.

AS-BUILT PLANS STATEMENT

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

DATE _____ SIGNATURE _____

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

GEOTECHNICAL ENGINEER OBSERVATION

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

NOTES

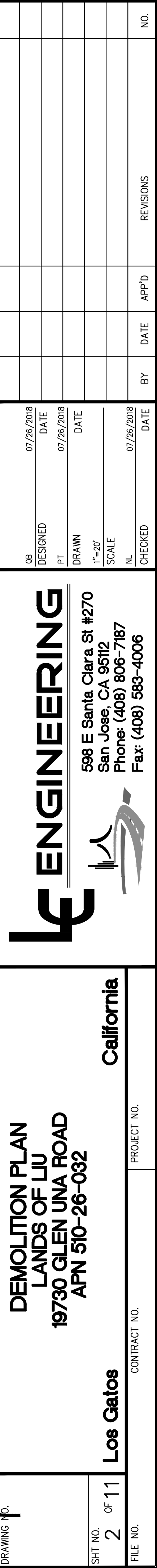
- INSPECTION ON DRIVEWAY & HOUSE PAD BY COUNTY SURVEYOR, GRADING PERMIT REQUIRED.
- THIS PLAN AUTHORIZES THE REMOVAL OF ONLY THOSE TREES WITH TRUNK DIAMETERS GREATER THAN 12 INCHES MEASURED 4.5 FEET ABOVE THE GROUND WHICH ARE SHOWN TO BE REMOVED, ANY OTHER SUCH TREES ARE NOT TO BE REMOVED UNLESS AN AMENDED 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. NOTIFY THE SOILS ENGINEER TWO (2) DAYS BEFORE STARTING.
- THE GRADING WORK TO COORDINATE THE WORK IN THE FIELD WITH THE CONTRACTOR. PRIOR TO GRADING COMPLETION AND RELEASE OF BOND, ALL
- GRADED AREAS SHALL BE RESEDED IN CONFORMANCE WITH THE COUNTRY GRADING ORDINANCE TO MINIMIZE THE VISUAL IMPACTS OF THE GRADED SLOPES AND REDUCE THE POTENTIAL FOR EROSION ON THE SUBJECT SITE.
- THE DRIVEWAY IS DESIGNED TO SUPPORT A 65,000 LB LOAD.
- UNLESS OTHERWISE NOTED, ALL STORM DRAIN PIPES SHALL BE SLOPED AT 2% MINIMUM AND SHALL HAVE 2" MINIMUM OF COVER.
- THESE PLANS ARE FOR THE WORK DESCRIBED IN THE SCOPE OF WORK ONLY. A SEPARATE PERMIT WILL BE REQUIRED FOR THE SEPTIC SYSTEM CONSTRUCTION.
- 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 OF 95% RELATIVE COMPACTION.
- ROADWAYS DESIGNATED AS NOT COUNTY MAINTAINED ROADS AS SHOWN ON THIS PLAN WILL NOT BE ELIGIBLE FOR COUNTY MAINTENANCE UNTIL THE ROADWAYS ARE IMPROVED (AT NO COST TO THE COUNTY) TO 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 NEW UTILITIES TO BE PLACED UNDERGROUND.
- CONTRACTOR SHALL PROVIDE DOCUMENTS FROM PIPE MANUFACTURERS VERIFYING THAT THE PIPES ARE DESIGNED FOR 40000 LBS LOAD.
- WATER AND SANITARY UTILITIES SHOWN ON THESE PLANS ARE NOT PART OF THIS GRADING PERMIT AND ARE SHOWN FOR REFERENCE ONLY.

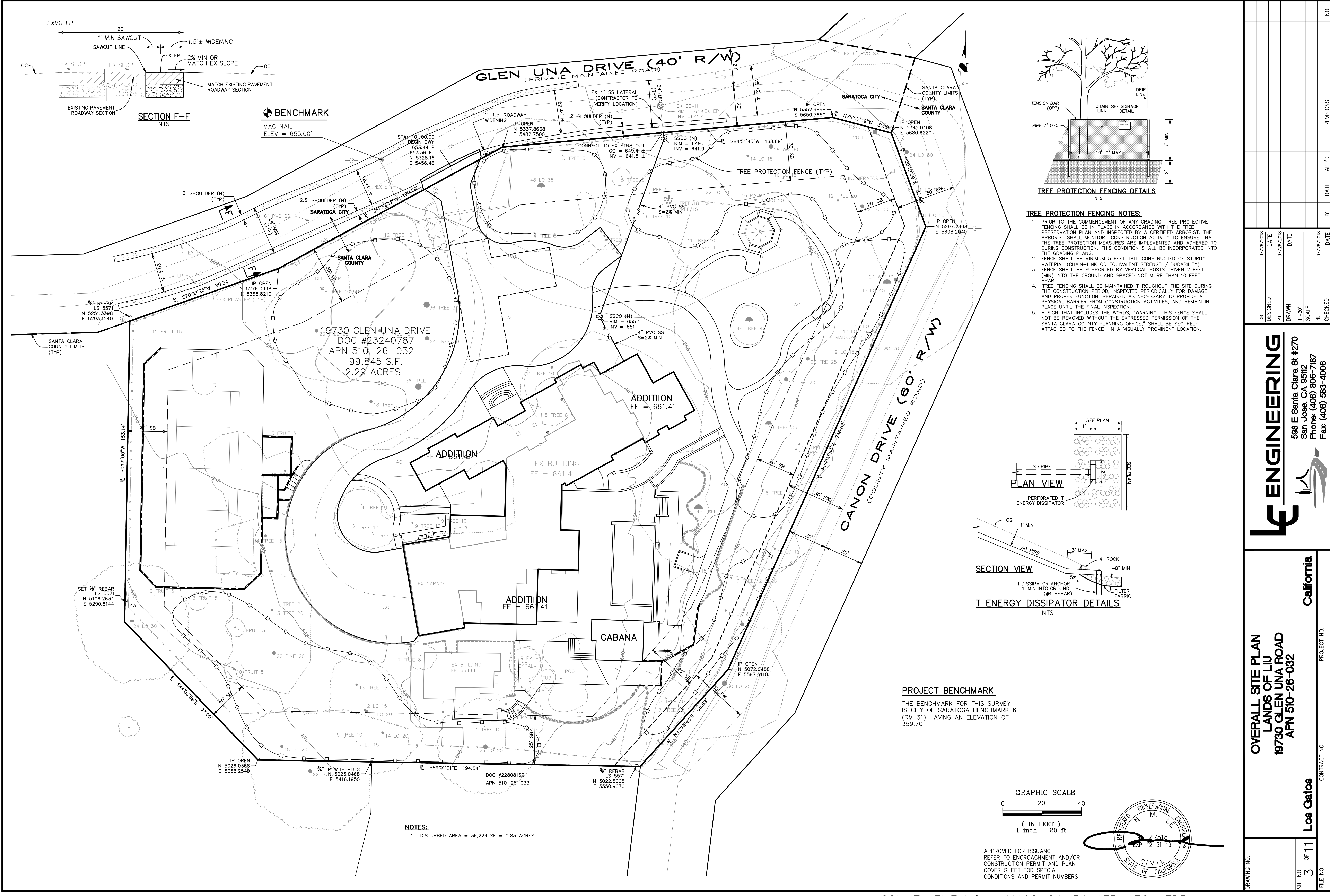
SCOPE OF WORK

- 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.
- OFF SITE - CONSTRUCT DRIVEWAY APPROACH PER SANTA CLARA COUNTY STANDARD DETAIL S04.
- ON SITE - GRADE SITE FOR: CONSTRUCTION OF POOL, POOL TRELLIS, CABANA, SPORT COURT, PERGOLA & FITNESS CENTER. INSTALL DETENTION, EROSION AND SEDIMENT CONTROL & SEED ALL DISTURBED AREAS.
- PRIOR TO RELEASE OF BOND, SUBMIT A CERTIFICATION FROM THE SOILS ENGINEER AND THE GEOLOGIST TO CERTIFY THAT THE WORK IS IN CONFORMANCE WITH ALL THE RECOMMENDATIONS IN THE GEOTECHNICAL/GEOTECHNICAL REPORT AND FIELD SUPERVISION, FOR APPROVAL BY LDE'S OFFICE.
- A CONSTRUCTION OBSERVATION LETTER FROM THE RESPONSIBLE GEOTECHNICAL ENGINEER AND CERTIFIED ENGINEERING GEOLOGIST DETAILING CONSTRUCTION OBSERVATIONS AND CERTIFYING THAT THE WORK WAS DONE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL AND GEOLOGICAL REPORTS SHALL BE SUBMITTED PRIOR TO GRADING COMPLETION AND RELEASE OF BOND.

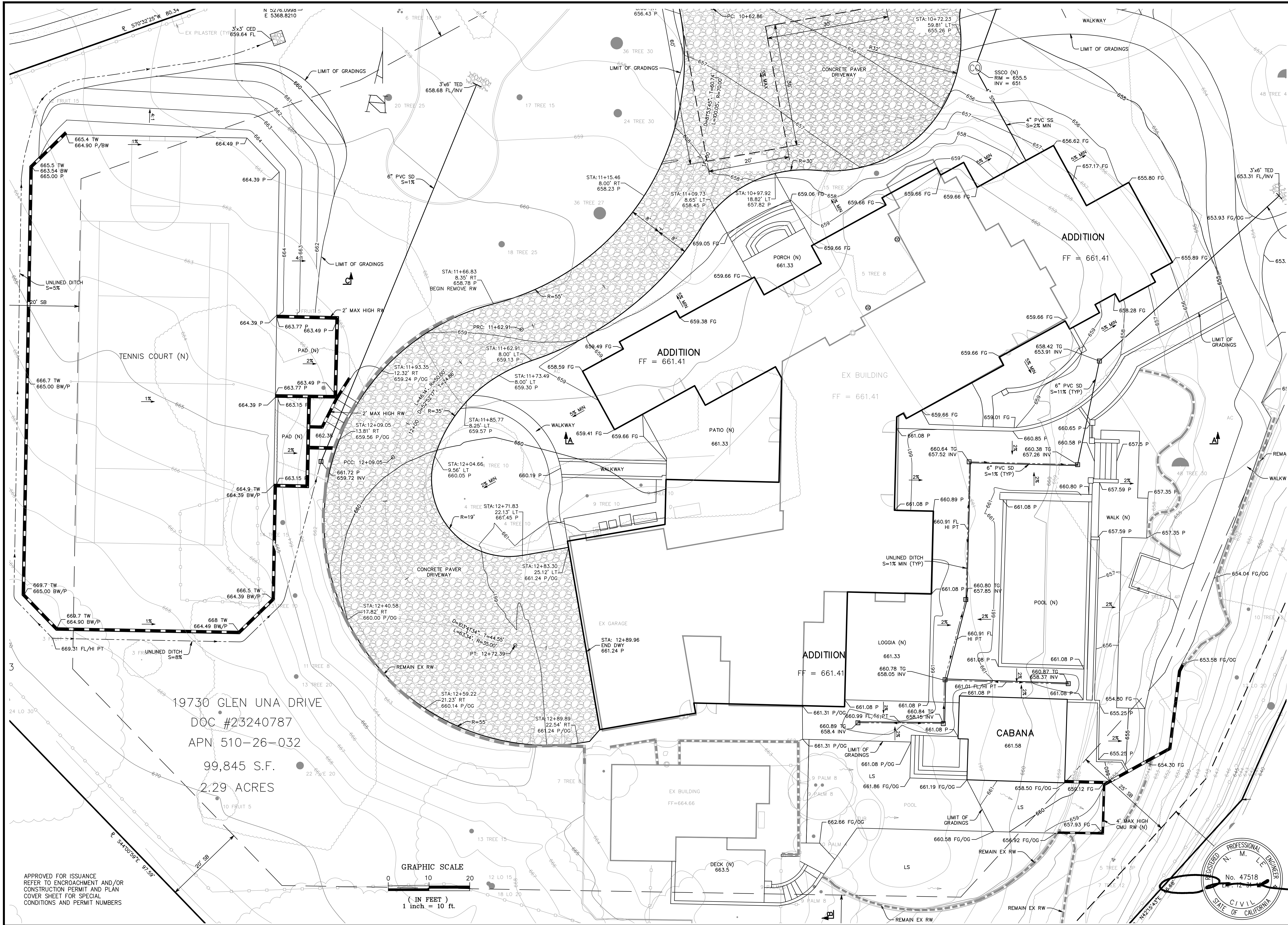
LEGEND & ABBREVIATIONS

- | | | | |
|-------|--------------------------------|-----|------------------------------------|
| AB | AGGREGATE BASE | ⬆ | BENCHMARK |
| AC | ASPHALT CONCRETE | --- | BOUNDARY |
| BSG | BUILDING | ⬆ | CATCH BASIN |
| BSL | BUILDING SETBACK LINE | ⬆ | COBBLE ROCK |
| BW | BOTTOM OF WALL/BACK OF WALK | ⬆ | ENERGY DISSIPATOR |
| CEC | COBBLE ROCK ENERGY DISSIPATOR | ⬆ | CURB & GUTTER |
| CG | CONCRETE | ⬆ | CENTERLINE |
| CMU | CONCRETE MASONRY UNIT | ⬆ | CONCRETE MASONRY UNIT |
| CO | SANITARY SEWER CLEANOUT | ⬆ | CONTOUR: EXISTING |
| CNC | CONCRETE | ⬆ | CONTOUR: PROPOSED |
| CSD | COUNTY STANDARD DETAIL | ⬆ | OR NEW |
| DE | DRAINAGE EMITTER | ⬆ | DESIGN GRADE |
| D | DRAINAGE INLET | ⬆ | DOWNSPOUT WITH |
| DI | DUCTILE IRON PIPE | ⬆ | SPLASHBLOCK |
| DW | DOWNSPOUT | ⬆ | DIVERSION VALVE |
| DIP | DRIVEWAY | ⬆ | BACKWATER VALVE |
| FD | FOUND | ⬆ | (SEE PROJECT NOTES) |
| ELEV | ELEVATION | ⬆ | DRAINAGE SWALE |
| EM | ELECTRIC METER | ⬆ | EASEMENT LINE |
| EO(H) | ELECTRIC OVERHEAD | ⬆ | EXISTING ELEVATION |
| EX | EXISTING | ⬆ | EXISTING FENCE |
| EP | EDGE OF PAVEMENT | ⬆ | EXISTING TREE TO BE REMOVED |
| FL | FLOW LINE | ⬆ | EXISTING TREE TO REMAIN |
| FWL | FUTURE WIDTH LINE | ⬆ | FOUND IRON PIPE AT PROPERTY CORNER |
| G | GARAGE SLAB ELEVATION/GAS LINE | ⬆ | FILTER FABRIC ROLLS |
| GM | GAS METER | ⬆ | GAS METER |
| HI | HI POINT | ⬆ | GRADE TO DRAIN |
| INV | INVERT | ⬆ | GUY POLE |
| LIP | LIP OF GUTTER | ⬆ | HYD RANT |
| LA | LANDSCAPED AREA | ⬆ | INLET |
| MAX | MAXIMUM | ⬆ | JOINT POLE |
| MH | MANHOLE | ⬆ | LIGHTING |
| MIN | MINIMUM | ⬆ | LIGHTING POLE |
| NTS | NOT TO SCALE | ⬆ | LOW POINT |
| OH | OVERHEAD | ⬆ | MAIL BOX |
| OG | ORIGINAL GROUND | ⬆ | MONUMENT WELL |
| P | PAVEMENT FINISH GRADE | ⬆ | OVERLAND FLOW DIRECTION |
| PAD | PAD ELEVATION | ⬆ | PGE BOX |
| | | | |





DRAWING NO.		PROJECT NO.		CONTRACT NO.		FILE NO.	
OVERALL SITE PLAN		LANDS OF LIU		California		Los Gatos	
19730 GLEN UNA ROAD		APN 510-26-032					
SHT NO.		3 OF 11					
DESIGNED		DATE		APPROD		BY	
07/26/2018		07/26/2018					
PT		DATE		CHECKED		DATE	
DRAWN		DATE		REVISIONS		NO.	
1"=20'							
SCALE							
NL		07/26/2018					
CHECKED		DATE					



DESIGNED
DATE
07/26/2018

DRAWN
DATE
07/26/2018

CHECKED
DATE
07/26/2018

BY

APPROVED

REVISIONS

NO.

ENGINEERING

598 E Santa Clara St #270
San Jose, CA 95112
Phone: (408) 806-7187
Fax: (408) 563-4006

GRADING AND DRAINAGE PLAN
LANDS OF LIU
19730 GLEN UNA ROAD
APN 510-26-032

California

Los Gatos

PROJECT NO.

CONTRACT NO.

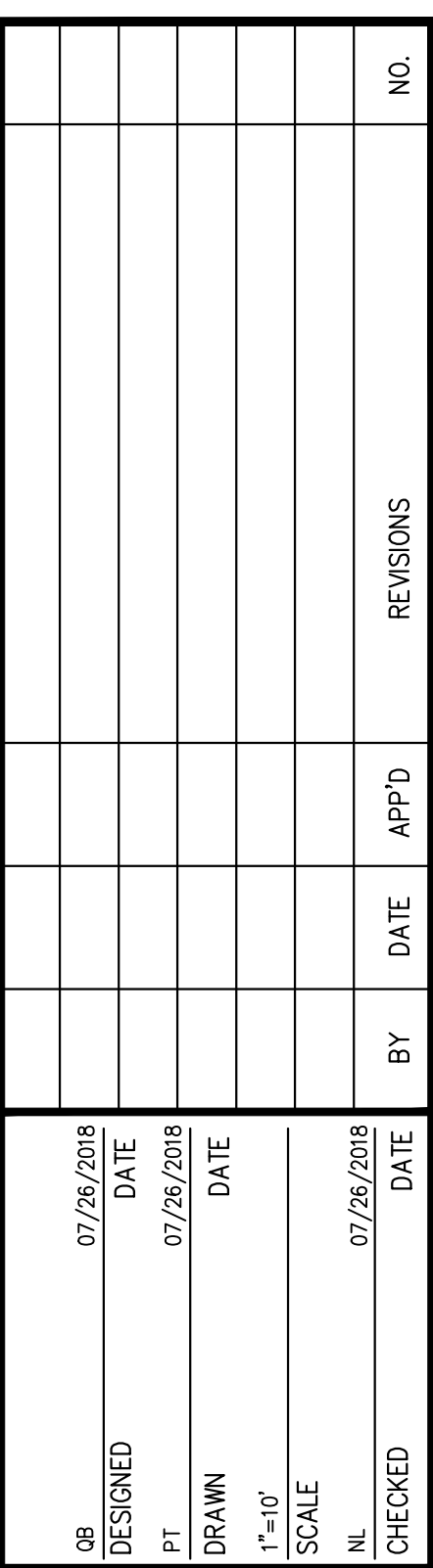
FILE NO.

SHEET NO.
4 OF 11

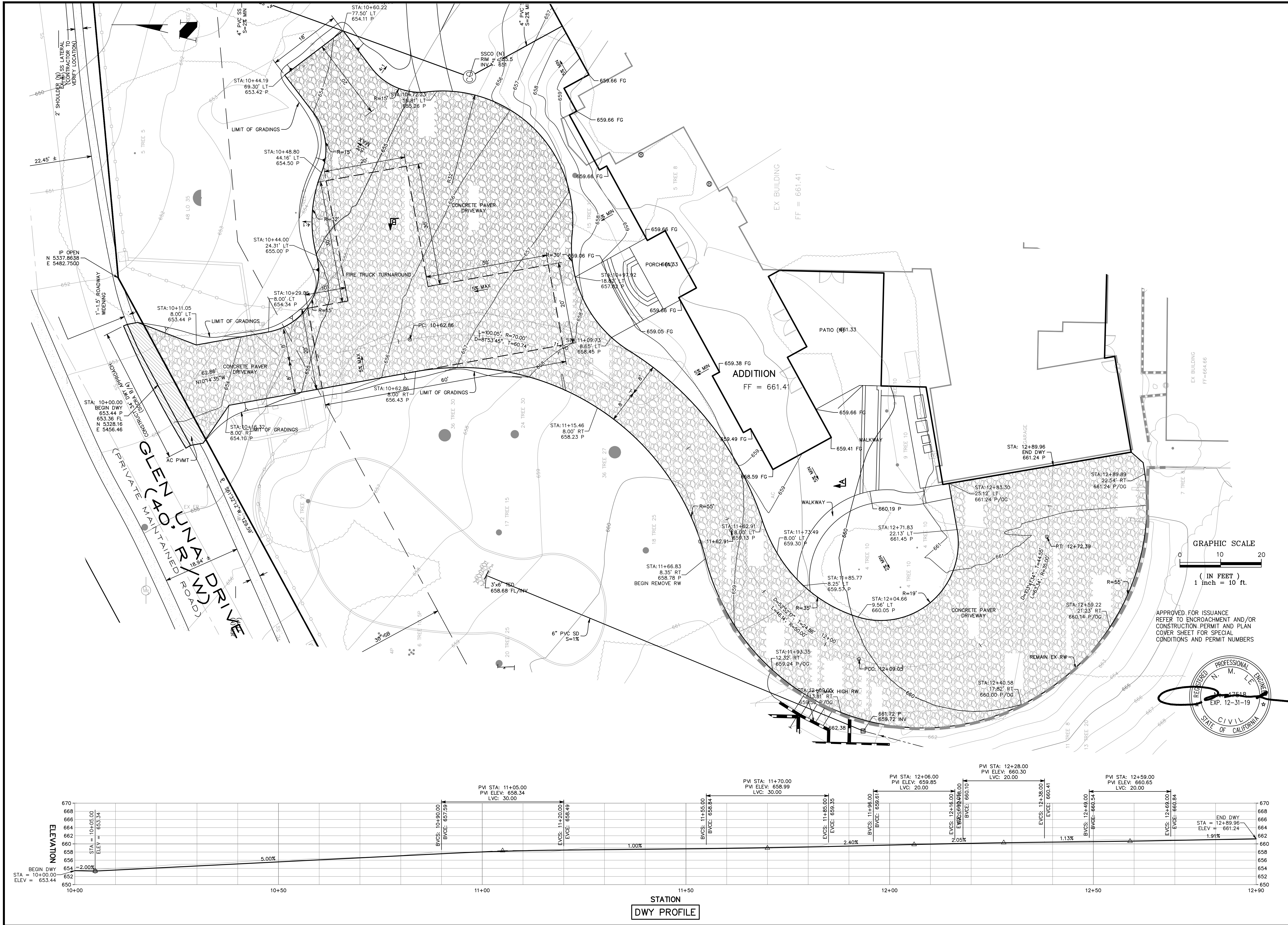
APPLICANT : LIU

ROAD NAME : GLEN UNA ROAD

COUNTY FILE NO. : 11162-24-54-17B-17G-17DR



FILE NO.	SHT NO.	OF	11	Los Gatos	California
				CONTRACT NO.	PROJECT NO.
GRADING AND DRAINAGE PLAN LANDS OF LIU 19730 GLEN UNA ROAD APN 510-26-032					



APPLICANT : LIU

ROAD NAME : GLEN UNA ROAD

COUNTY FILE NO. : 11162-24-54-17B-17G-17DR

DRAWING NO.		PROJECT NO.		CONTRACT NO.		FILE NO.	
6		11		Los Gatos		6	
SHEET NO.		OF		Los Gatos		6	
DESIGNED		DATE		BY		DATE	
07/26/2018		07/26/2018		07/26/2018		07/26/2018	
DRAWN		DATE		APPROD		REVISIONS	
1"=10'		SCALE		DATE		NO.	
NL		CHECKED		DATE		NO.	
07/26/2018		07/26/2018		07/26/2018		07/26/2018	

ENGINEERING

598 E Santa Clara St #270

San Jose, CA 95112

Phone: (408) 806-7187

Fax: (408) 583-4006

DRIVEWAY PLAN AND PROFILE

LANDS OF LIU

19730 GLEN UNA ROAD

APN 510-26-032

California

REGISTERED PROFESSIONAL ENGINEER

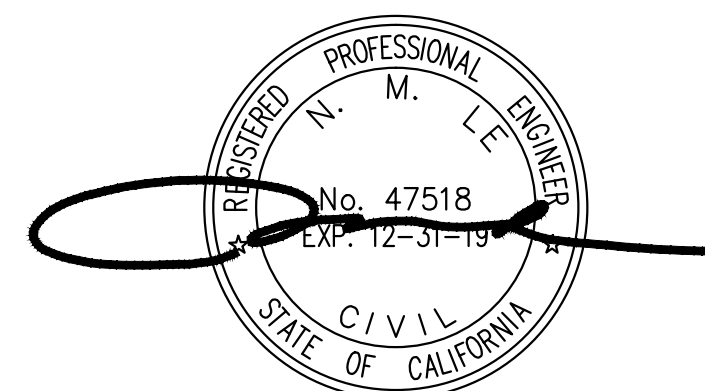
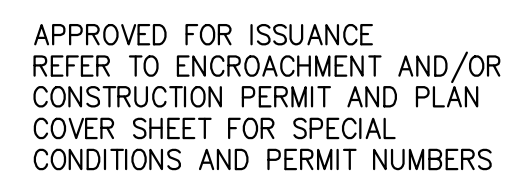
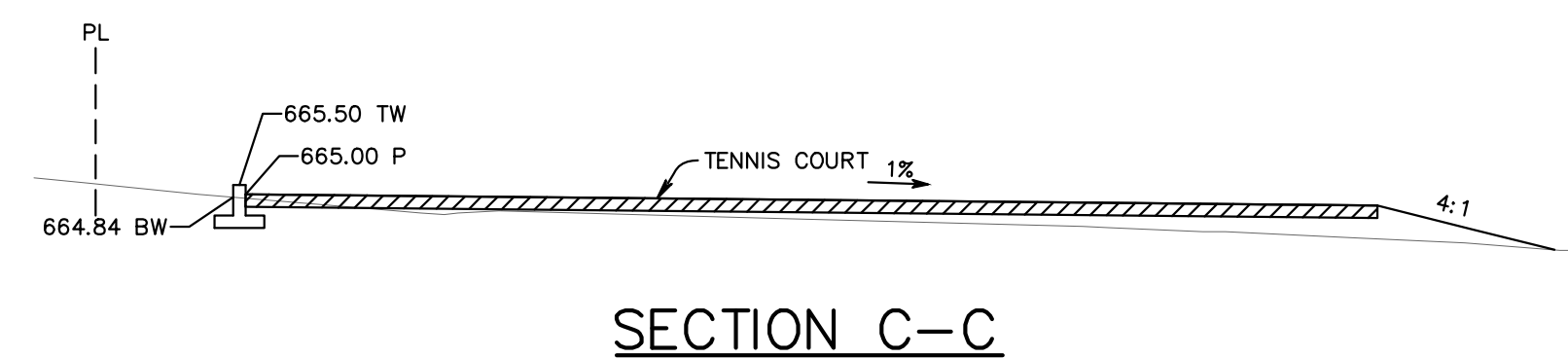
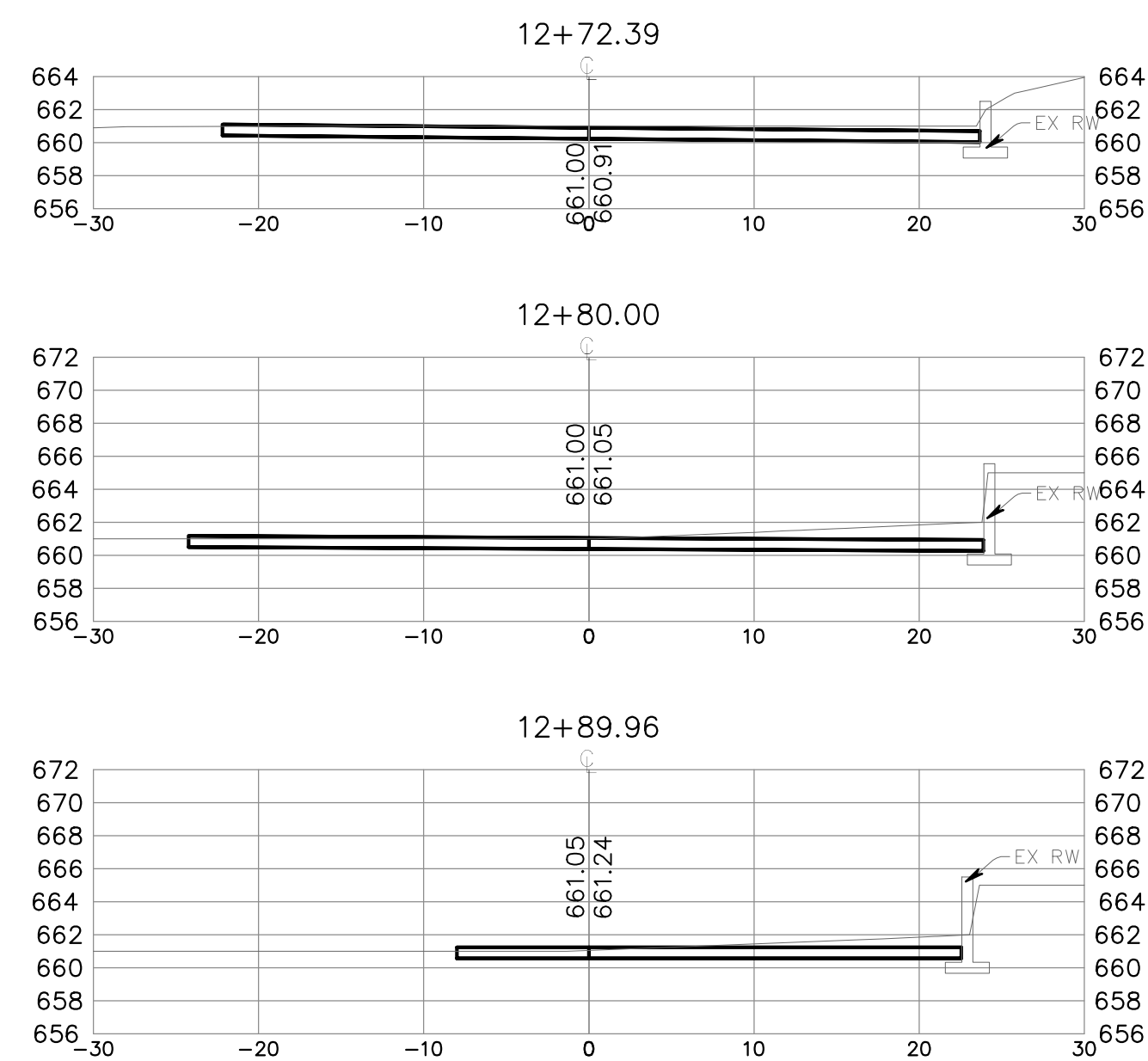
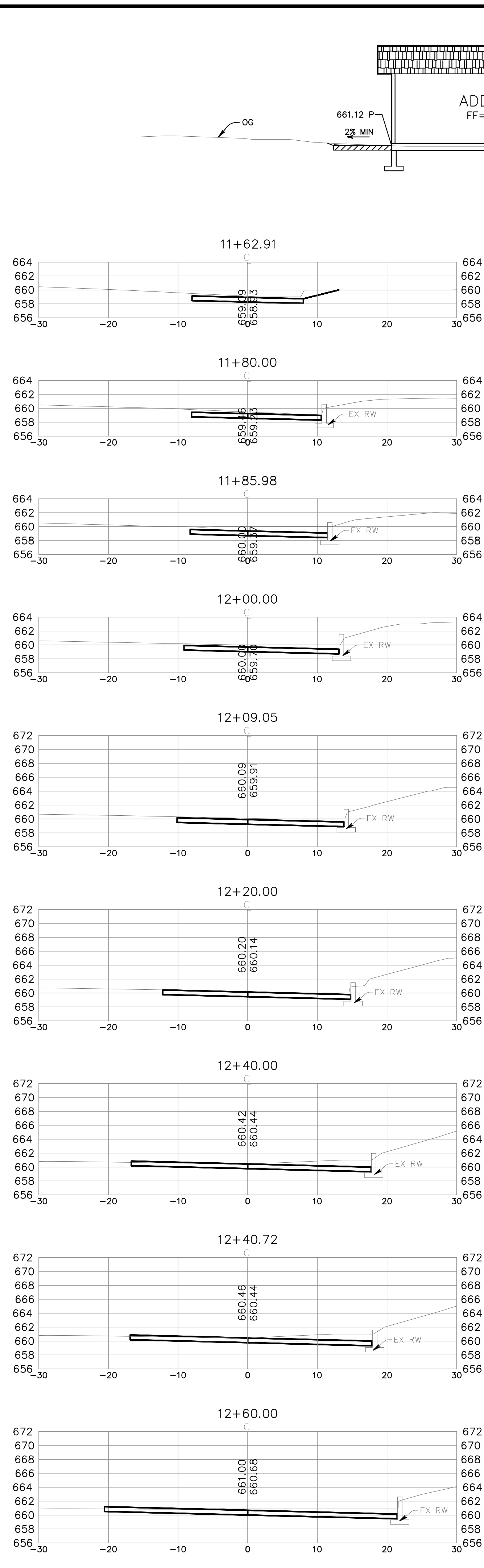
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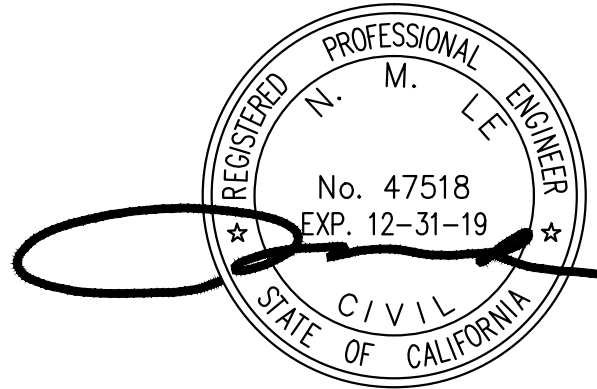
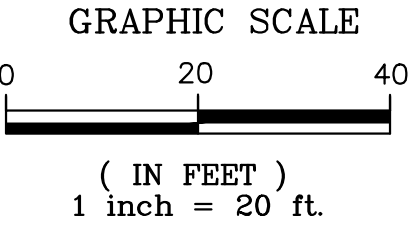
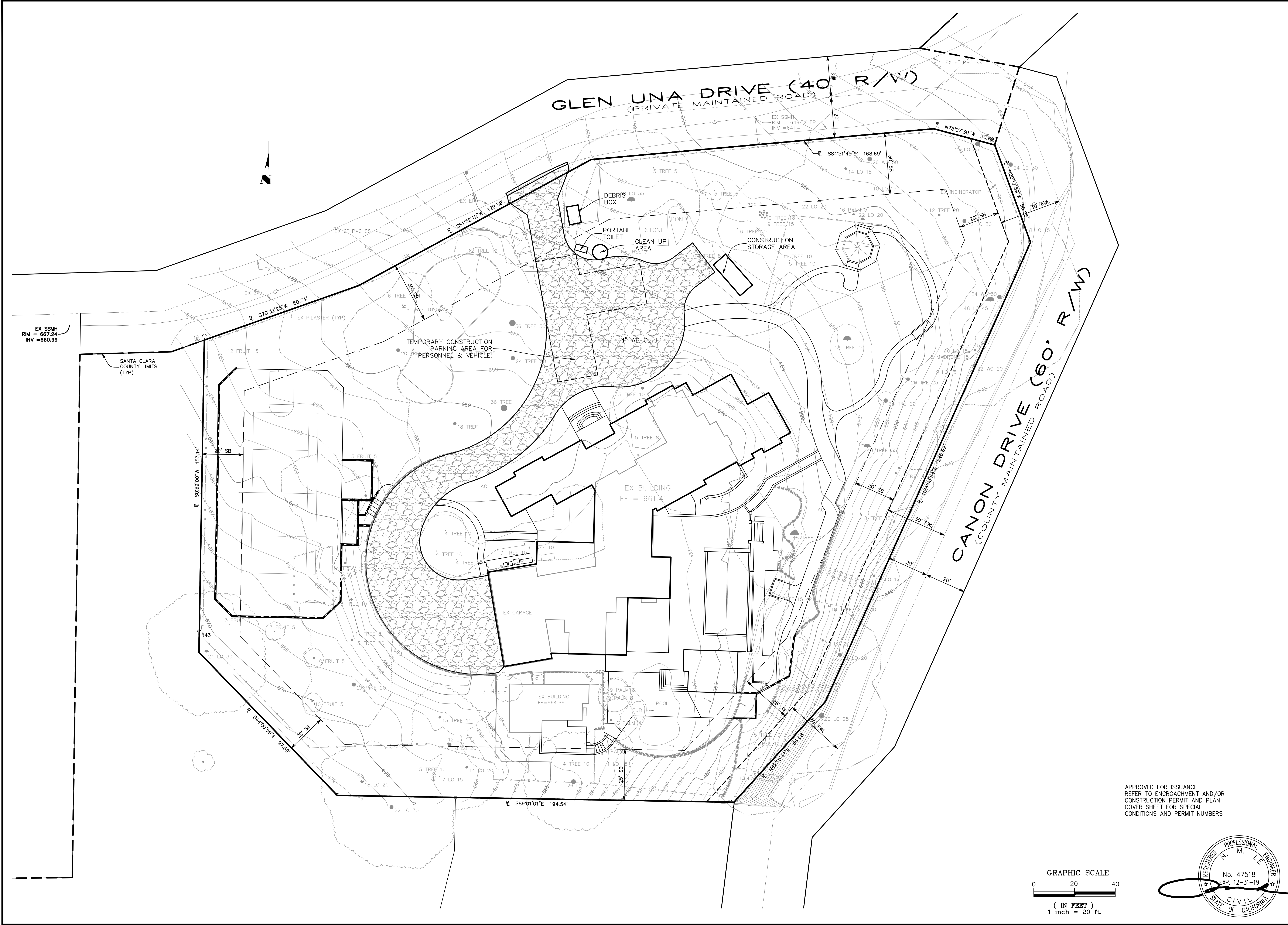
EXP. 12-31-19

CIVIL

STATE OF CALIFORNIA



DRAWING NO.		DRIVEWAY AND BUILDING CROSS SECTIONS LANDS OF LIJ 19730 GLEN UNA ROAD APN 510-26-032		Los Gatos California	
SHT. NO. 7 OF 11		CONTRACT NO.		PROJECT NO.	
FILE NO.					
		L ENGINEERING 598 E Santa Clara St #270 San Jose, CA 95112 Phone: (408) 806-7187 Fax: (408) 583-4006			
DESIGNED	DATE	07/26/2018	CB		
PT	DATE	07/26/2018			
DRAWN	DATE				
1"=10'					
SCALE					
IN.	DATE	07/26/2018	BY	DATE	APPRO'D
CHECKED	DATE				REVISIONS
					NO.



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

APPLICANT : LIU

ROAD NAME : GLEN UNA ROAD

COUNTY FILE NO. : 11162-24-54-17B-17G-17DR

CONSTRUCTION OPERATION PLAN
LANDS OF LIU
19730 GLEN UNA ROAD
APN 510-26-032

Los Gatos

8 OF 11

California

PROJECT NO.

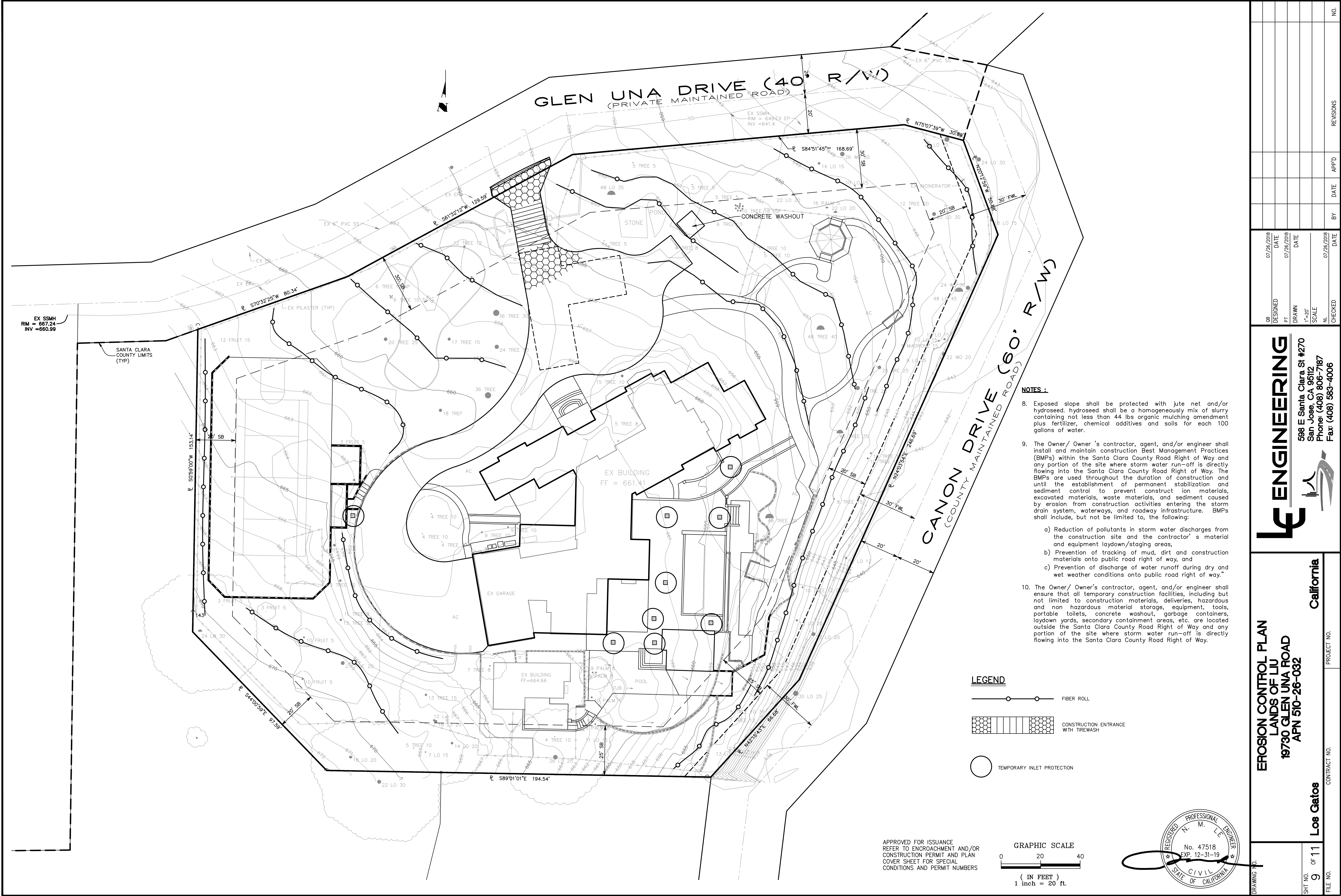
CONTRACT NO.

FILE NO.

ENGINEERING

598 E Santa Clara St #270
San Jose, CA 95112
Phone: (408) 806-7187
Fax: (408) 563-4006

DESIGNED	07/26/2018	DATE		BY		DATE	
PT		DATE		APPD		DATE	
DRAWN	07/26/2018	DATE					
SCALE	1"=20'	SCALE					
CHECKED		DATE					
NL	07/26/2018	DATE					



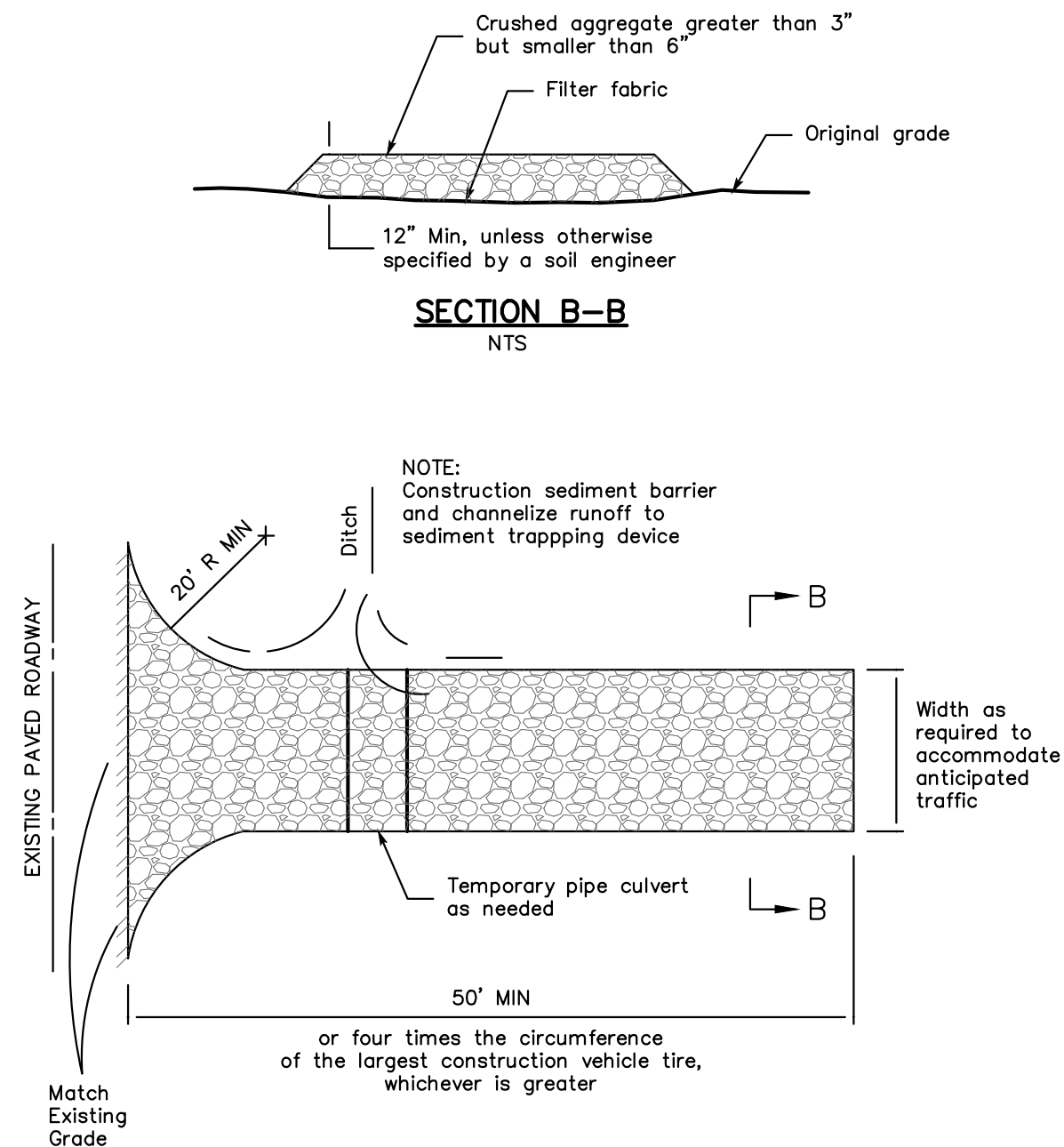
- NOTES :**
- Exposed slope shall be protected with jute net and/or hydroseed. hydroseed shall be a homogeneously mix of slurry containing not less than 44 lbs organic mulching amendment plus fertilizer, chemical additives and soils for each 100 gallons of water.
 - The Owner/ Owner's contractor, agent, and/or engineer shall install and maintain construction Best Management Practices (BMPs) within the Santa Clara County Road Right of Way and any portion of the site where storm water run-off is directly flowing into the Santa Clara County Road Right of Way. The BMPs are used throughout the duration of construction and until the establishment of permanent stabilization and sediment control to prevent construct ion materials, excavated materials, waste materials, and sediment caused by erosion from construction activities entering the storm drain system, waterways, and roadway infrastructure. BMPs shall include, but not be limited to, the following:
 - Reduction 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 public road right of way, and
 - 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, laydown yards, secondary containment areas, etc. are located outside the Santa Clara County Road Right of Way and any portion of the site where storm water run-off is directly flowing into the Santa Clara County Road Right of Way.

DRAWING NO. 9 OF 11		FILE NO.	
SHT NO.		PROJECT NO.	
Los Gatos		California	
EROSION CONTROL PLAN LANDS OF LIU 19730 GLEN UNA ROAD APN 510-26-032			
ENGINEERING			
598 E Santa Clara St #270 San Jose, CA 95112 Phone: (408) 806-7187 Fax: (408) 563-4006			
DESIGNED		DATE	
PT		07/26/2018	
DRAWN		DATE	
SCALE		1"=20'	
CHECKED		DATE	
NL		07/26/2018	
BY		DATE	
APPD		DATE	
REVISIONS		NO.	

3 Stabilized Construction Entrance/Exit

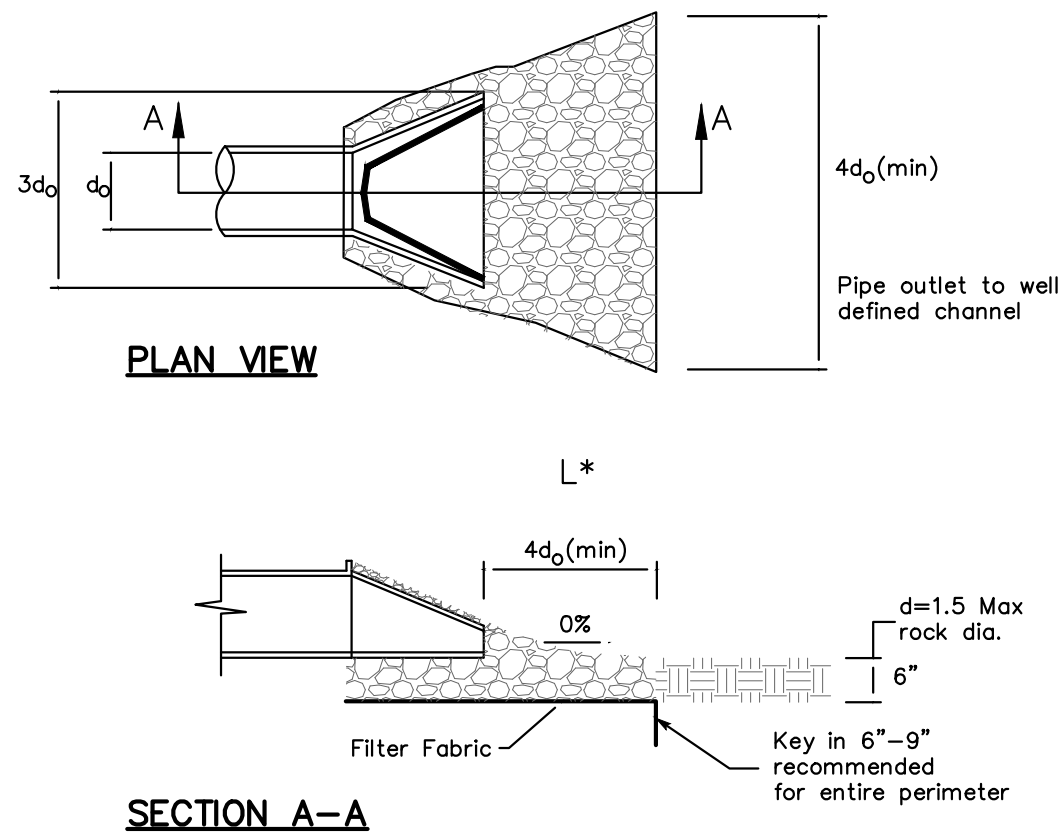
CASQA Detail TC-1

SEE DETAIL 1 ON SHEET 7

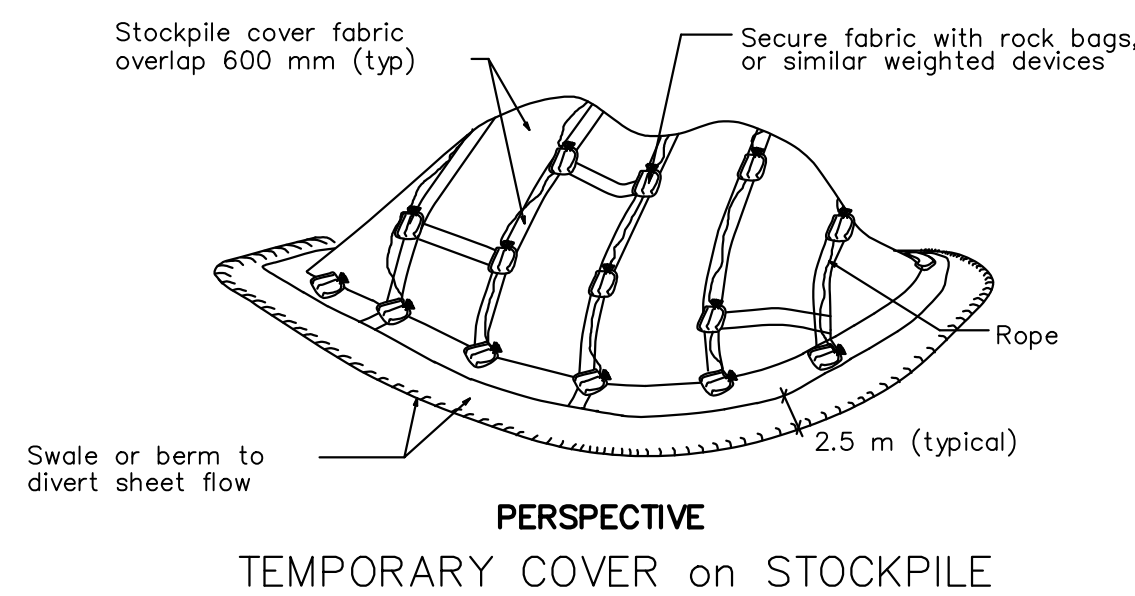


4 Velocity Dissipation Devices

CASQA Detail EC-10

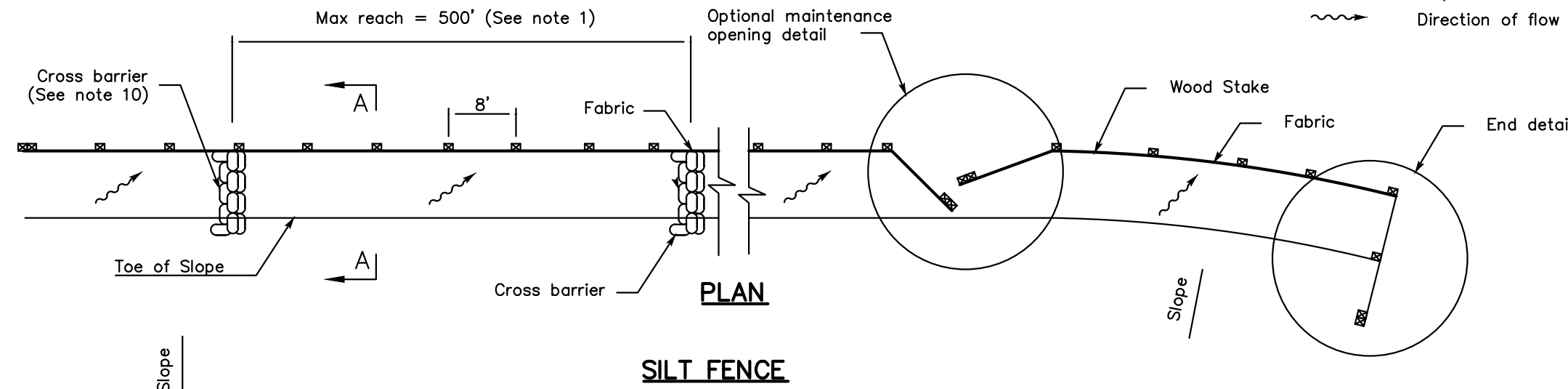


* Length per ABAG Design Standards



1 Silt Fence

CASQA Detail SE-1

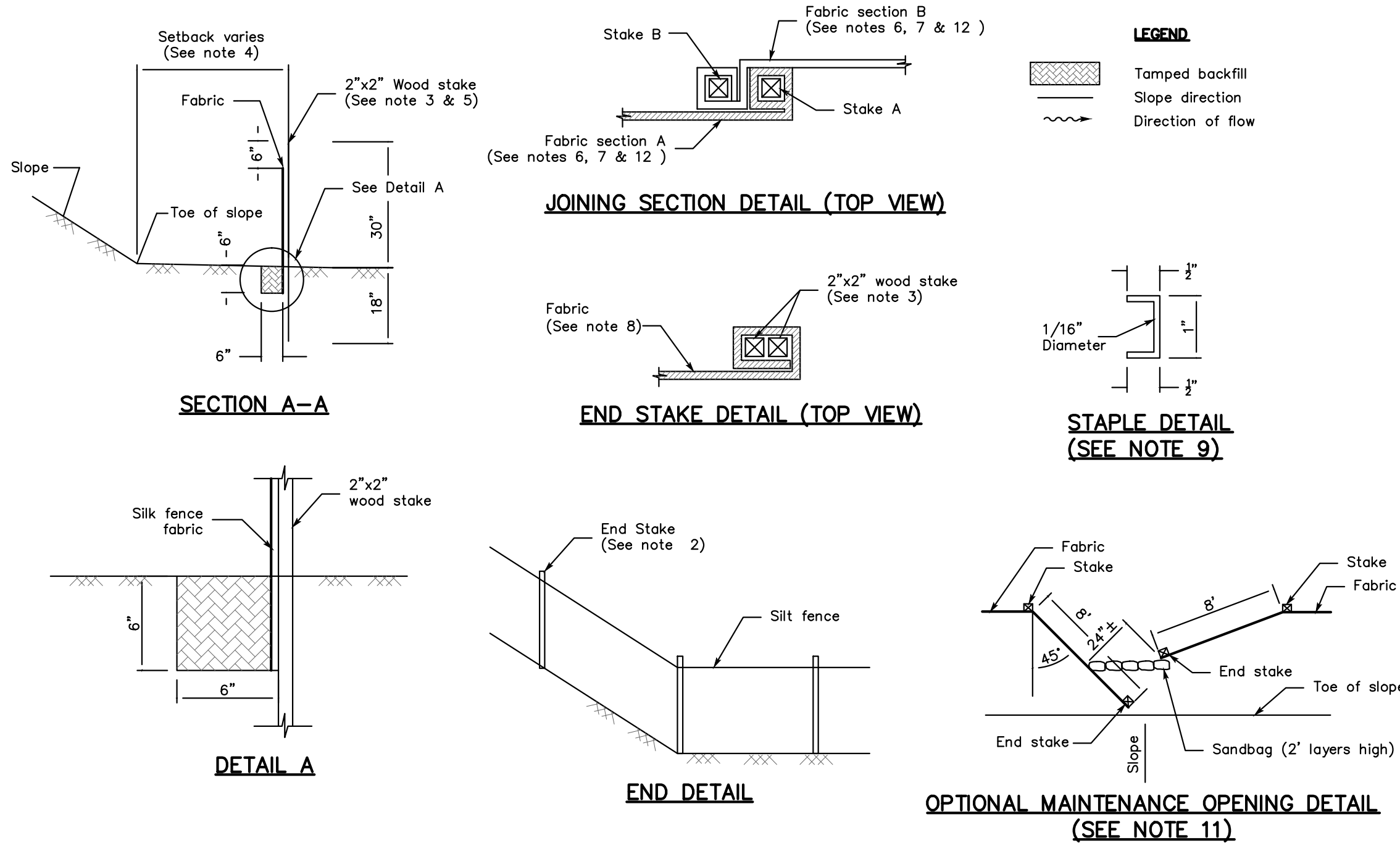


NOTES:

- Construction 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'.
- The last 8'-0" at fence shall be turned up slope.
- Stake dimensions are nominal.
- Dimension may vary to fit field condition.
- Stakes shall be spaced at 8'-0" maximum and shall be positioned on downstream side of fence.
- Stake shall be overlap driven tightly together to prevent potential flow-through of sediment at joint. The top of stake shall be secure with wire.
- For end stake, fence fabric shall be folded around two stakes one full turn and secured with 4 staples.
- Minimum 4 staples per stake. Dimensions shown are typical.
- Cross barriers shall be a minimum of 1/3 a maximum at 1/2 the height of the linear barrier.
- Maintenance openings shall be constructed in a manner to ensure sediment remains behind silt fence.
- Joining sections shall not be placed at sump locations.
- Sandbag rows and layers shall be offset to eliminate gaps.

2 Silt Fence

CASQA Detail SE-1



STANDARD BEST MANAGEMENT PRACTICE NOTES

- 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.
- 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.
- 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.
- Vehicle and Construction Equipment Service and Storage:** An area shall be designated for the maintenance, where onsite 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.
- 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.
- 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 be hardened 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.
- 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.
- 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.
- 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.
- Inspection & Maintenance:** Areas of material and equipment storage sites and temporary sanitary facilities must be inspected. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.

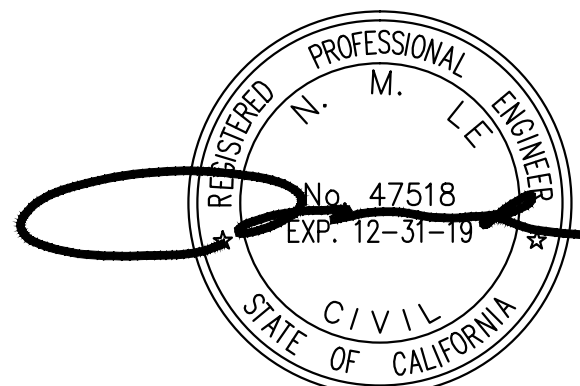
STANDARD EROSION CONTROL NOTES

- 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.
- 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. During the non-rainy season, erosion control measures must be applied sufficient to control wind erosion at the site.
- 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.
- 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.
- 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.
- Erosion and sediment control best management practices shall be operable year round or until vegetation is fully established on landscaped surfaces.

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

Best Management Practices and Erosion Control Details Sheet 1
County of Santa Clara

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



APPLICANT : LIU

ROAD NAME : GLEN UNA ROAD

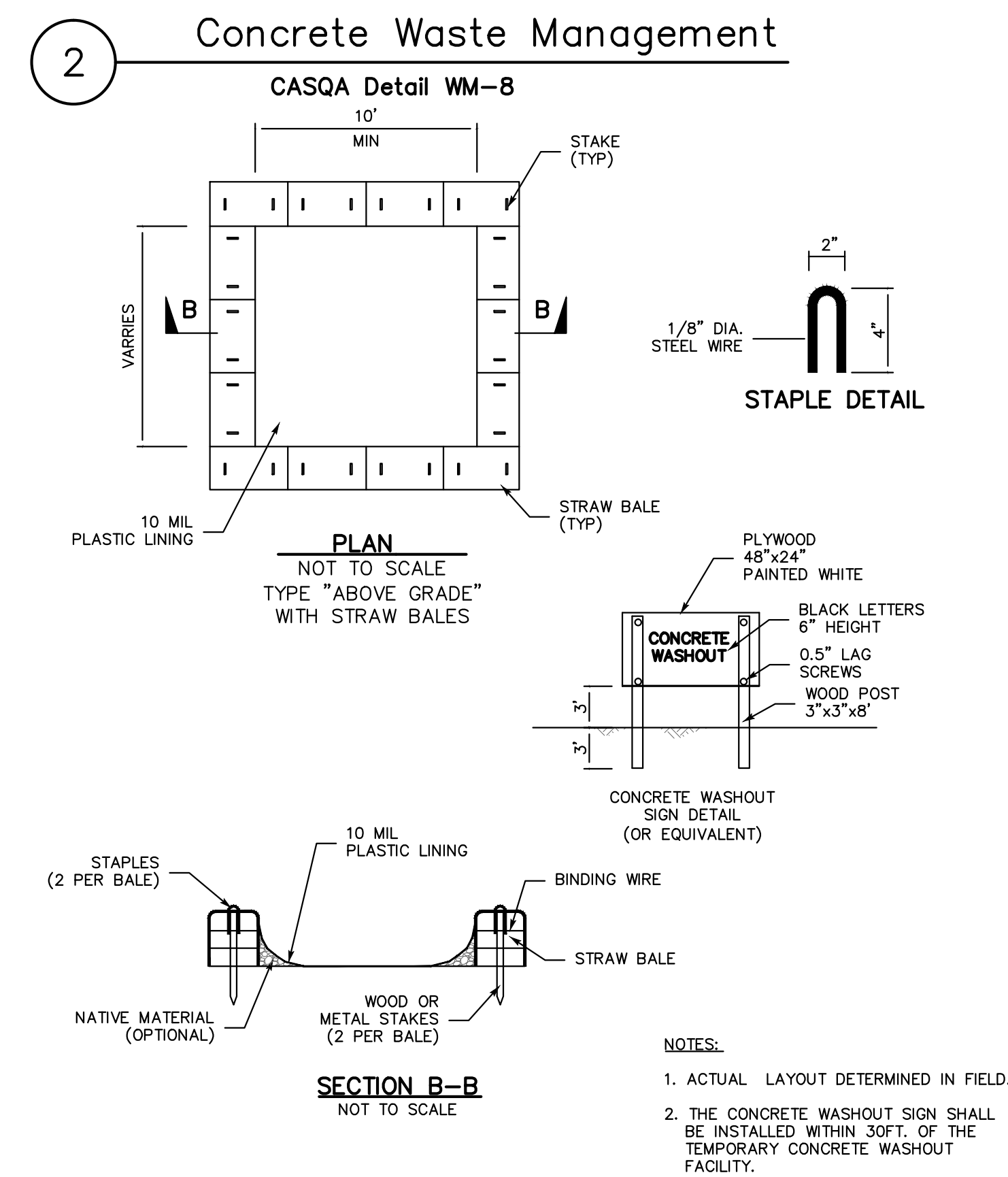
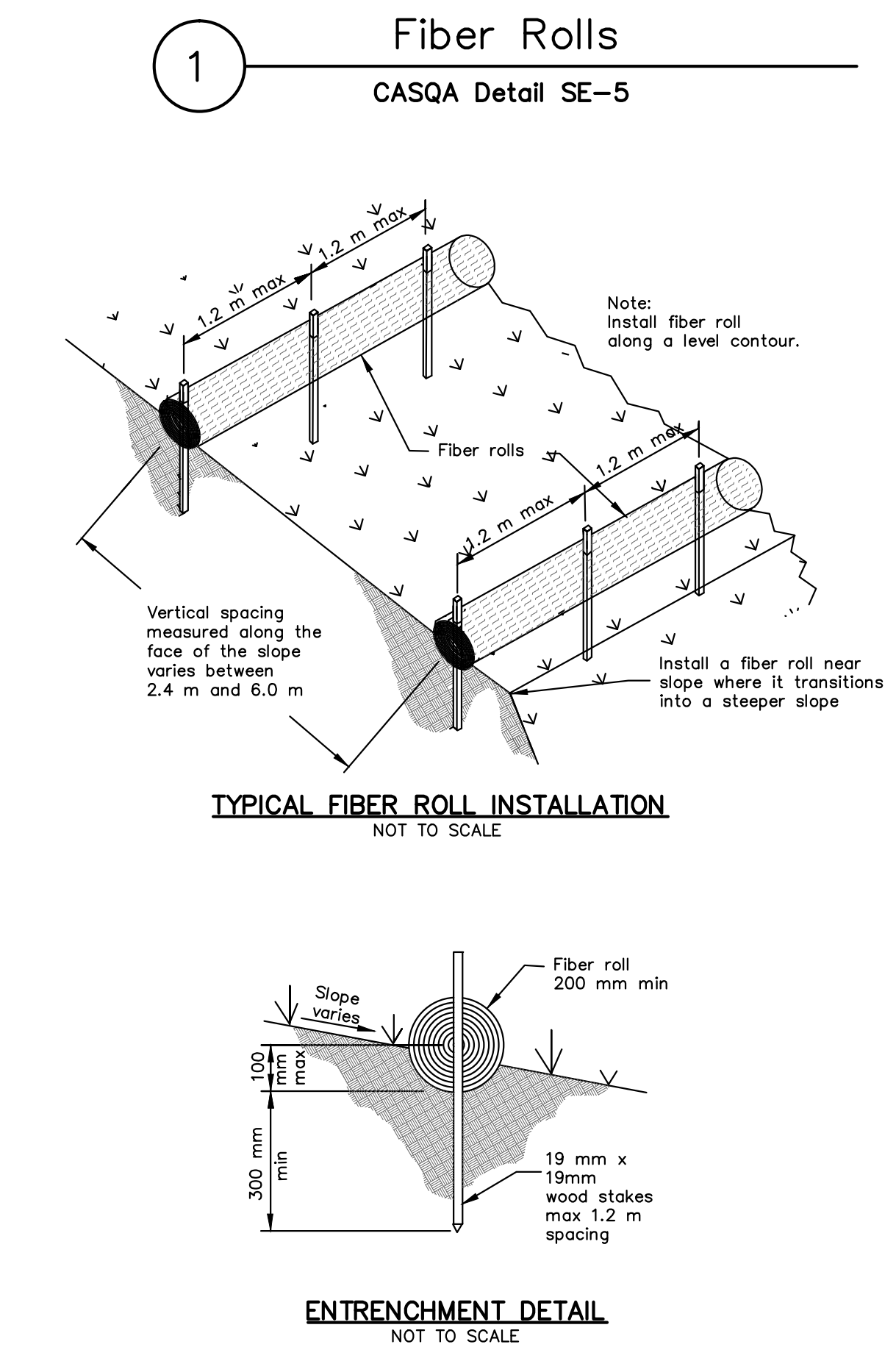
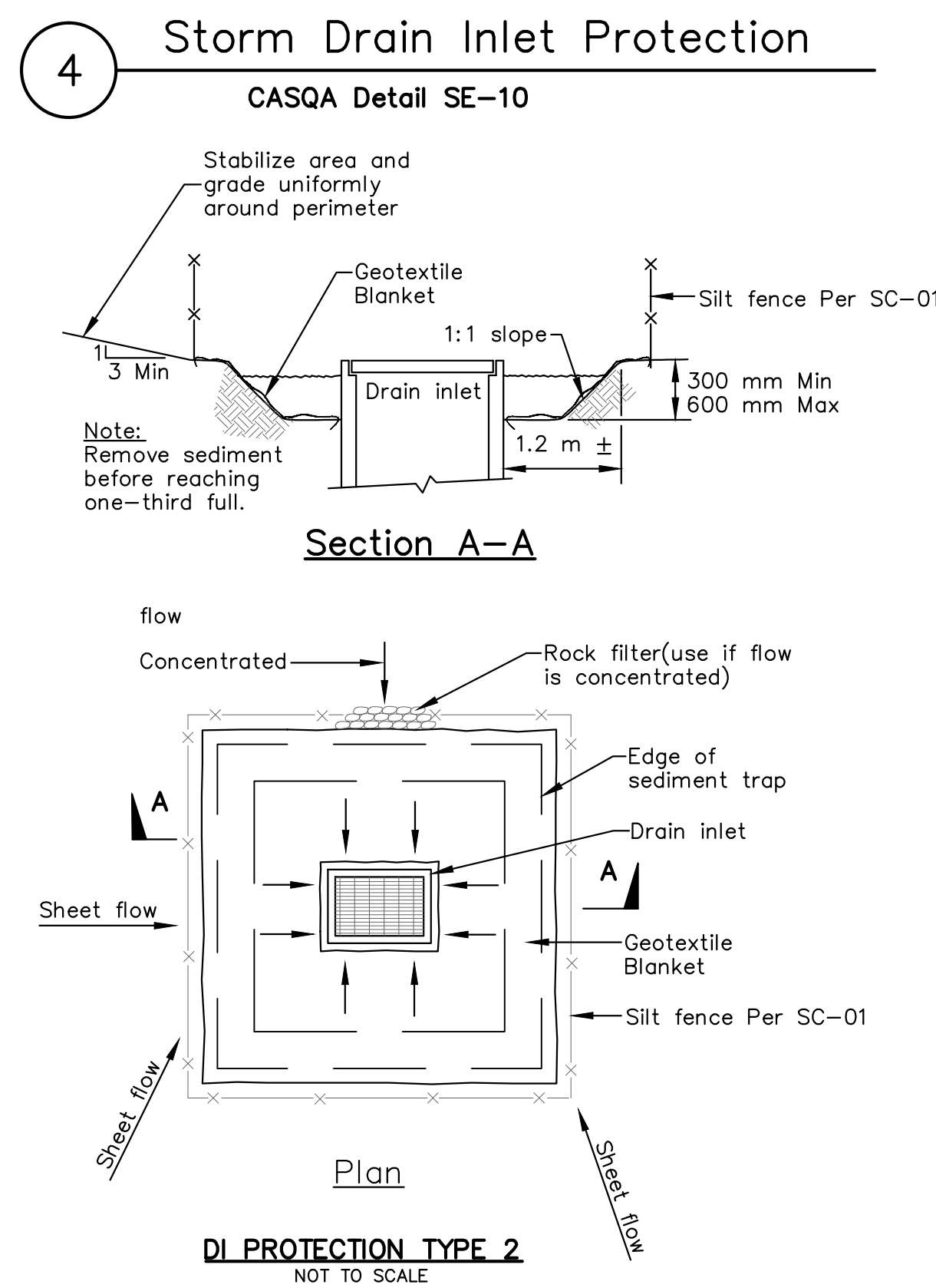
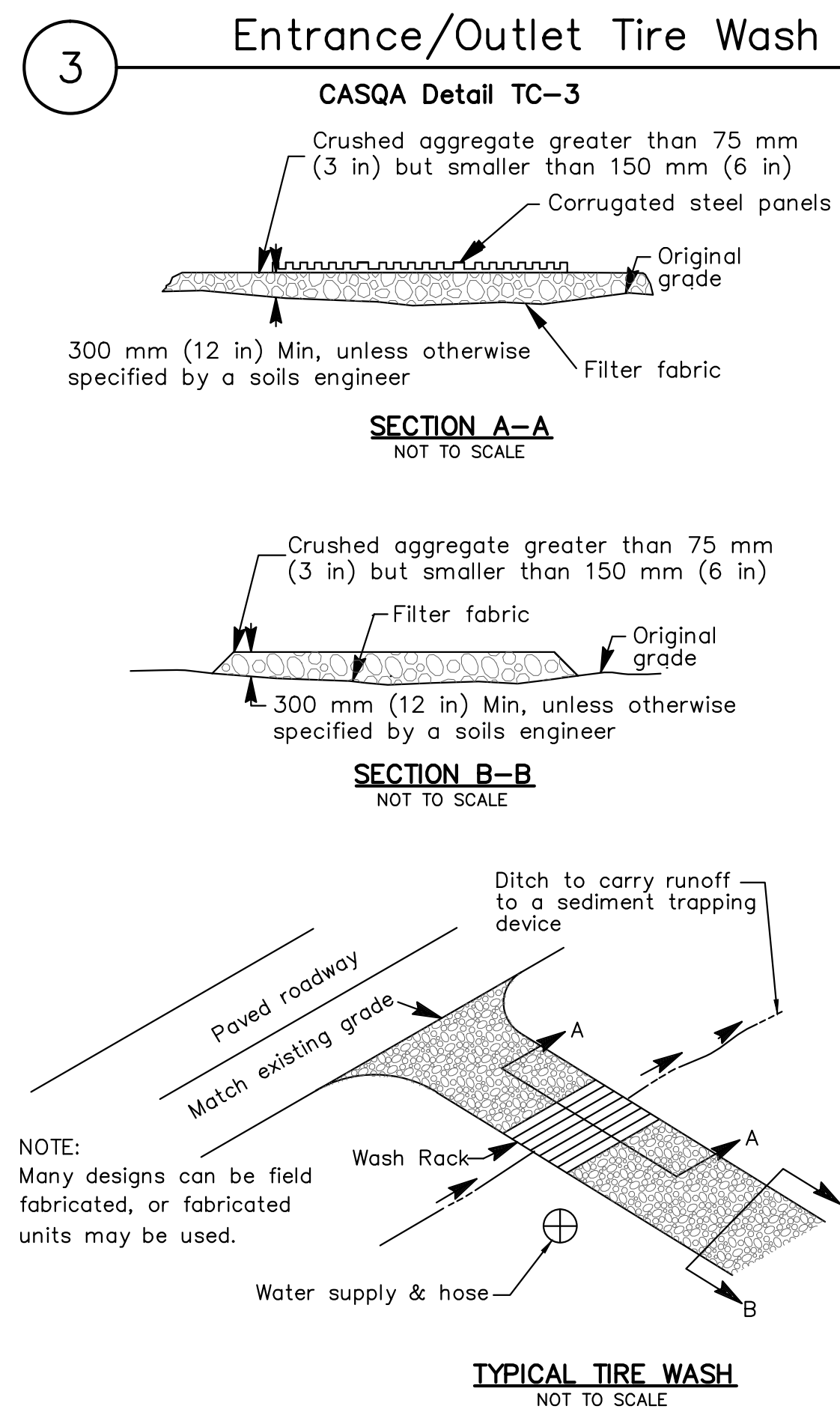
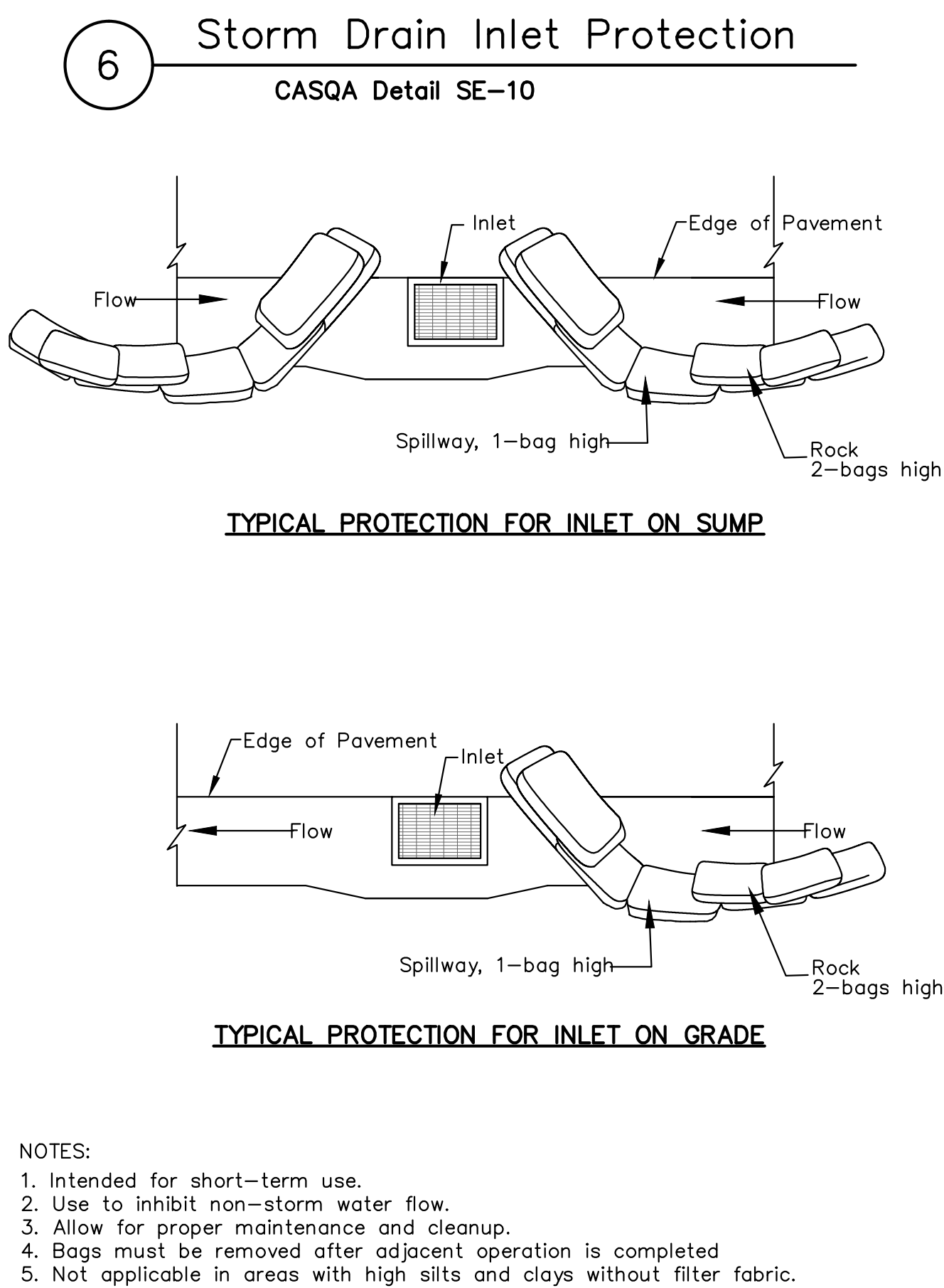
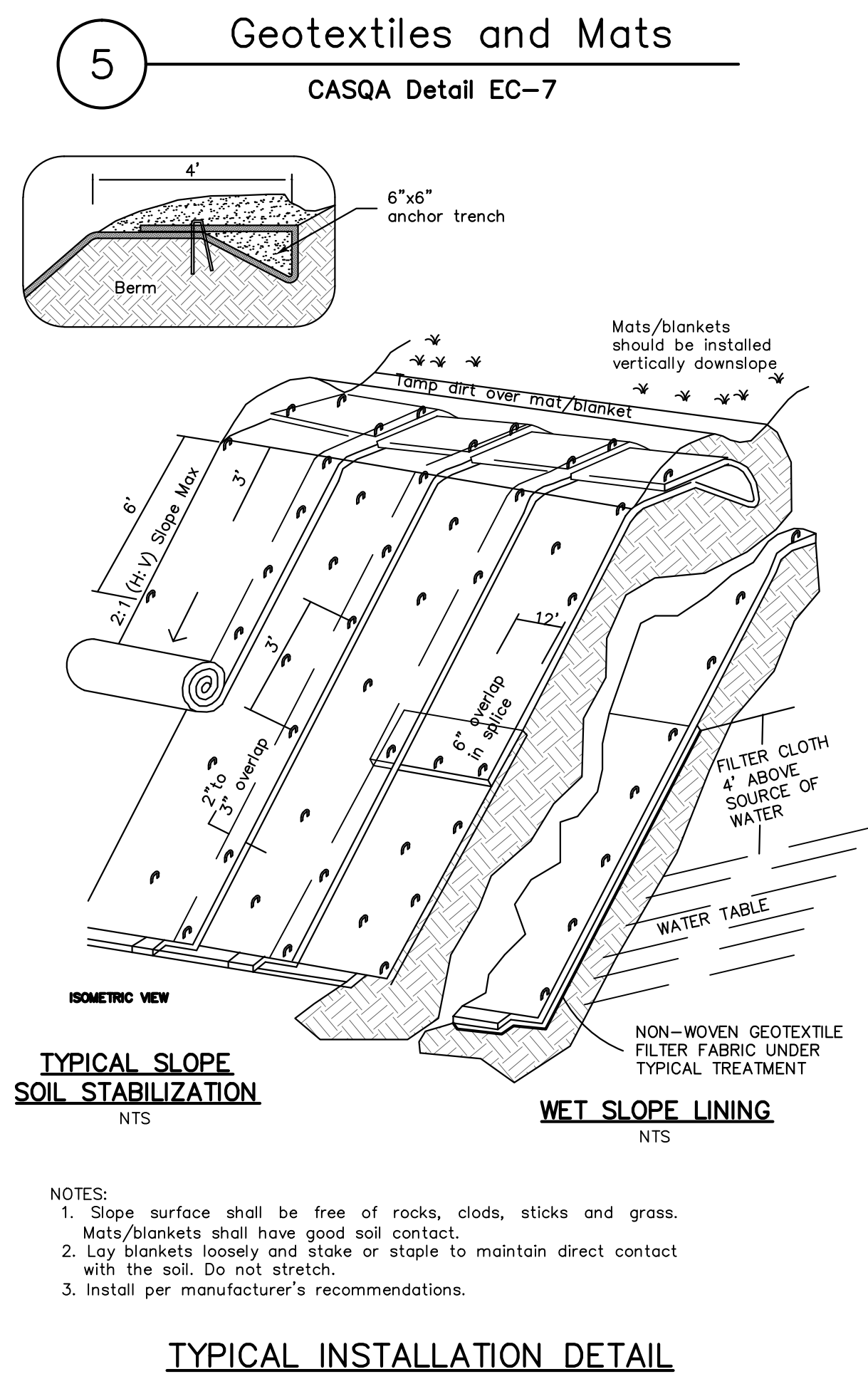
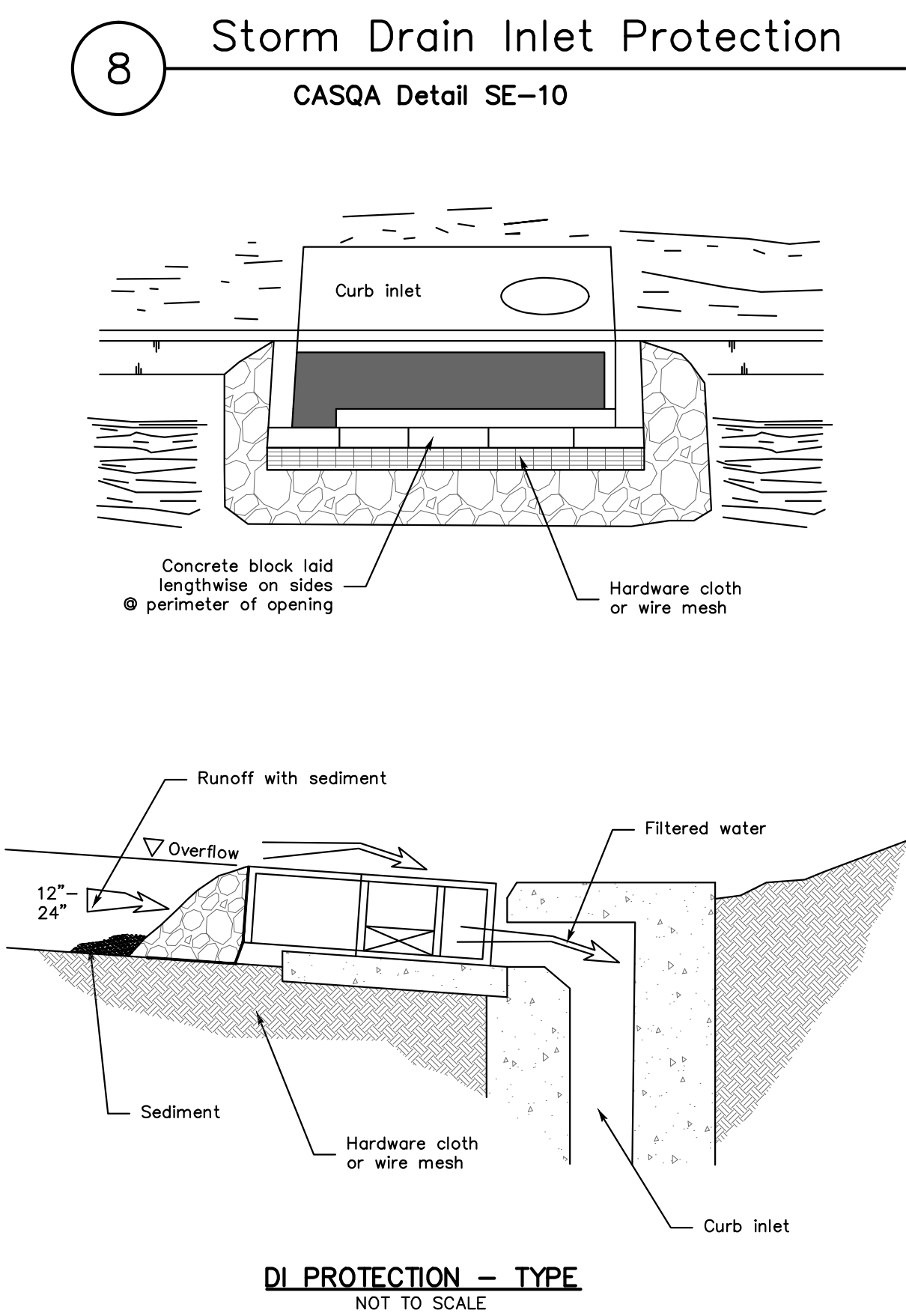
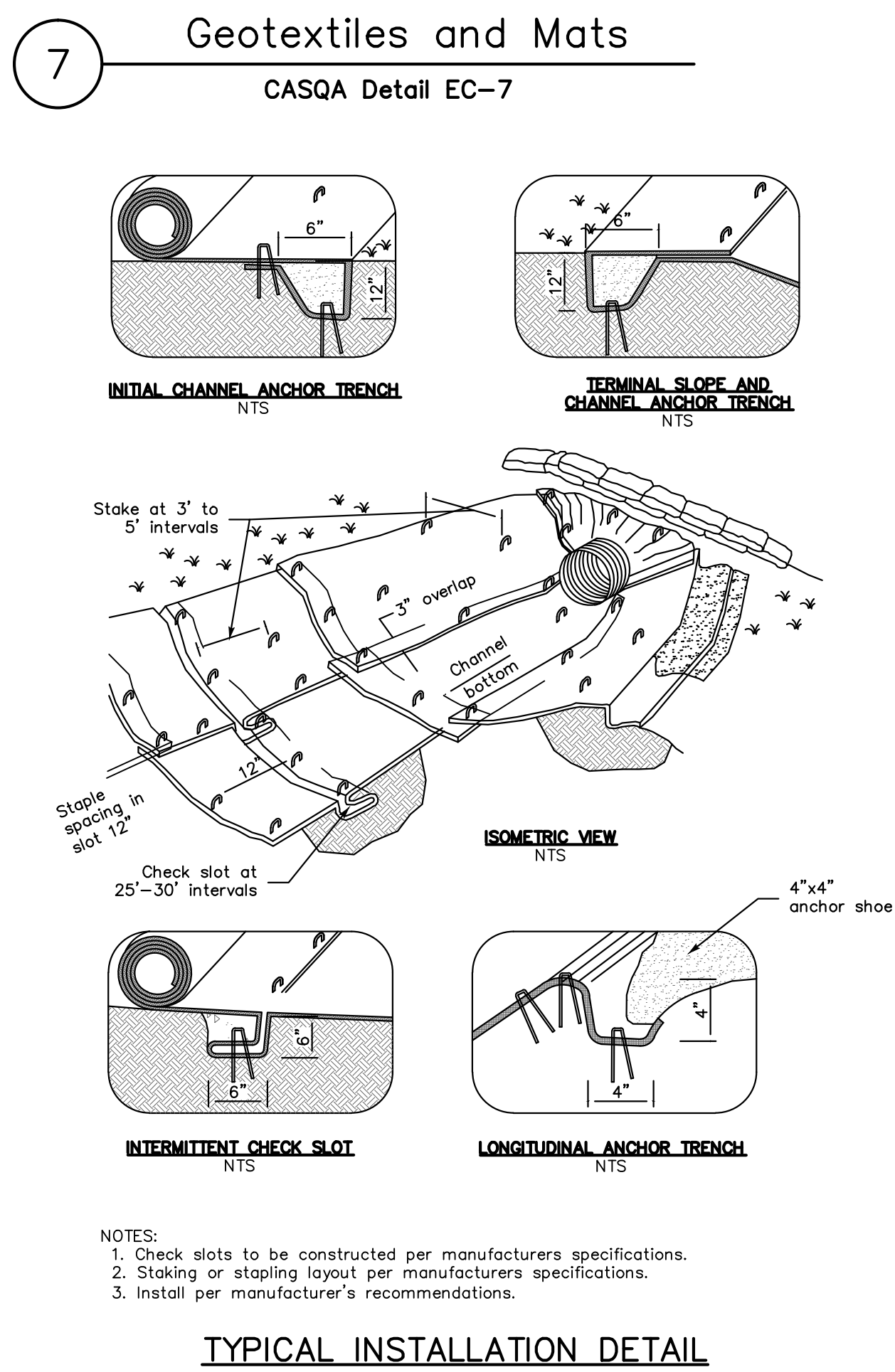
COUNTY FILE NO. : 11162-24-54-17B-17G-17DR

DRAWING NO.		PROJECT NO.		CONTRACT NO.		FILE NO.	
10 OF 11		Los Gatos		Los Gatos		Los Gatos	
SIT NO.		EXP. 12-31-19		DATE		DATE	
DESIGNED		DATE		DATE		DATE	
DRAWN		DATE		DATE		DATE	
NTS		SCALE		DATE		DATE	
CHECKED		DATE		DATE		DATE	
BY		DATE		DATE		DATE	
APPD		DATE		DATE		DATE	
REVISIONS		DATE		DATE		DATE	
NO.		NO.		NO.		NO.	

ENGINEERING
598 E Santa Clara St #270
San Jose, CA 95112
Phone: (408) 806-7187
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California

EROSION CONTROL DETAILS
LANDS OF LIU
19730 GLEN UNA ROAD
APN 510-26-032



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

Best Management Practices and Erosion Control Details Sheet 2

County of Santa Clara

APPLICANT : LIU

ROAD NAME : GLEN UNA ROAD

COUNTY FILE NO. : 11162-24-54-17B-17G-17DR

DRAWING NO.		PROJECT NO.		FILE NO.	
SHEET NO.		CONTRACT NO.		DATE	
11 OF 11		Los Gatos		DATE	
DESIGNED		DRAWN		CHECKED	
DATE		DATE		DATE	
07/26/2018		07/26/2018		07/26/2018	
PT		NTS		NL	
SCALE		SCALE		SCALE	
BY		BY		BY	
DATE		DATE		DATE	
07/26/2018		07/26/2018		07/26/2018	
APPD		APPD		APPD	
REVISIONS		REVISIONS		REVISIONS	
NO.		NO.		NO.	
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Los Gatos

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No. 47518
EXP. 12-31-19
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STATE OF CALIFORNIA