

General Construction Specifications

ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS AND/OR GEOTECHNICAL REPORT PREPARED BY _____ AND _____

ROMIG ENGINEERS

DATED FEB 2020 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.

2) THE COUNTY OF SANTA CLARA SHALL BE RESPONSIBLE FOR THE IMPROVEMENTS SHOWN ON THESE PLANS AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THEIR CONTINUED MAINTENANCE.

3) DEVELOPER SHALL BE RESPONSIBLE FOR CORRECTION OF ANY ERRORS OR OMISSIONS IN THE PLANS. DEVELOPER 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.

4) DEVELOPER SHALL OBTAIN ENCROACHMENT PERMITS FROM THE SANTA CLARA COUNTY ENGINEER. DEVELOPER SHALL OBTAIN DEPARTMENT OF TRANSPORTATION WHEN NEEDED. COPIES OF THESE PERMITS SHALL BE KEPT AT THE JOB SITE FOR REVIEW BY THE COUNTY'S INSPECTOR.

5) DEVELOPER SHALL REMOVE OR TRIM ALL TREES TO PROVIDE AN UNOBSTRUCTED FIVE (15) FOOT VERTICAL CLEARANCE FOR ROADWAY AREA. ANY TRUNKS OF 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 ALL NECESSARY ADDITIONAL PERMITS ARE OBTAINED.

7) DEVELOPER SHALL PROVIDE ADEQUATE DUST CONTROL AS REQUIRED BY THE COUNTY INSPECTOR.

8) ALL PERSONS MUST COMPLY WITH SECTION 4442 OF THE PUBLIC RESOURCES CODE AND SECTION 13005 OF THE HEALTH AND SAFETY CODE RELATING TO CONSTRUCTION OF BURIAL SITES.

9) UPON DISCOVERING OR UNEARTHING ANY BURIAL SITE AS EVIDENCED BY 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 66-18). THESE PLANS ARE FOR THE WORK DESCRIBED IN THE SCOPE OF WORK ONLY. A SEPARATE PERMIT IS REQUIRED FOR ANY OTHER LINE OF CONSTRUCTION.

11) ANY DEVIATION FROM THESE APPROVED PLANS SHALL BE RE-APPROVED IN WRITING BY THE COUNTY ENGINEER PRIOR TO CONSTRUCTION.

1. THE DEVELOPER'S ENGINEER IS RESPONSIBLE FOR THE INITIAL PLACEMENT AND REPLACEMENT OF CONSTRUCTION GRADE STAKES. THE STAKES ARE TO BE ADEQUATELY IDENTIFIED, LOCATED, STABILIZED, ETC. FOR THE CONVENIENCE OF CONTRACTORS. LATERAL OFFSETS SHALL BE MAINTAINED FOR THE PROTECTION OF UTILITIES. STAKES SHALL NOT EXCEED 1/2 FEET FROM BACK OF CURB.
2. ANY PROPERTY LINE STAKES OR ROAD MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY DEVELOPER'S ENGINEER AND LICENSED LAND SURVEYOR.
3. 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.
4. PROPERTY CONSTRUCTION STAKES SHALL BE SET IN THE FIELD BY THE PROJECT ENGINEER OR LAND SURVEYOR AND VERIFIED BY THE COUNTY INSPECTOR PRIOR TO THE COMMENCEMENT OF GRADING.

1. CONTRACTOR SHALL NOTIFY PERMIT INSPECTION UNIT, SANTA CLARA COUNTY PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE. REQUIREMENTS: MINIMUM 48 HOURS ADVANCE NOTICE FOR GENERAL INSPECTION, 48 HOURS FOR ASPHALT CONCRETE INSPECTION.
2. INSPECTION BY SANTA CLARA COUNTY SHALL BE LIMITED TO INSPECTION OF MATERIALS AND PROCESSES OF CONSTRUCTION TO VERIFY THEIR COMPLIANCE WITH PLANS AND SPECIFICATIONS. CONTRACTOR HAS THE RESPONSIBILITY FOR THE SUPERINTENDENT OF CONSTRUCTION, SITE CONDITIONS, EQUIPMENT OR PERSONNEL. CONTRACTOR SHALL NOTIFY THE DEVELOPER AND DEVELOPER'S AUTHORIZED REPRESENTATIVE AT LEAST 24 HOURS PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE.
3. 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.
4. THE CONTRACTOR SHALL PROVIDE TO THE COUNTY CONSTRUCTION INSPECTOR WITH PAD ELEVATION AND LOCATION CERTIFICATES, PREPARED BY THE PROJECT ENGINEER OR LAND SURVEYOR, PRIOR TO COMMENCEMENT OF THE BUILDING FOUNDATION.

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

1. CONTRACTOR SHALL NOTIFY UTA (UNDERGROUND SERVICE ALERT) AT 1-800-260-0160 A MINIMUM OF 48 HOURS BEFORE THE START OF ANY UNDERGROUND WORK FOR VERIFICATION OF THE LOCATION OF UNDERGROUND UTILITIES.
2. ACCURATE VERIFICATION AS TO SIZE, LOCATION, AND DEPTH OF EXISTING UNDERGROUND CONDUITS OR FACILITIES SHALL BE THE INDIVIDUAL CONTRACTORS RESPONSIBILITY. PLAN LOCATIONS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.
3. ALL UNDERGROUND INSTALLATIONS SHALL BE IN PLACE AND THE TRENCH BACKFILL AND TRENCH RESTORATION BEFORE PLACING AGGREGATE BASE MATERIAL OF 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 PAVEMENT AREA.
4. TRENCH BACKFILL IN EXISTING PAVEMENT AREAS SHALL BE SAND MATERIAL IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE SPECIFICATIONS. TRENCH RESTORATION IN NEW PAVEMENT 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 COMPACTED PLACED IN TWO LIFTS. TRENCH RESTORATION FOR GRANULAR TYPE PAVEMENTS SHALL BE MADE IN KIND OR AS DIRECTED BY THE COUNTY.
5. TRENCH BACKFILL IN NEW CONSTRUCTION AREAS SHALL BE SAND MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 90% THE REQUIREMENT FOR SELECT MATERIAL SHALL APPLY TO ALL TRENCHES IF THE NATIVE SOIL IS SUITABLE FOR USE AS TRENCH BACKFILL BUT THE COMPACTION REQUIREMENTS WILL NOT BE THEREBY WAIVED.
6. BACKFILL AND TRENCH RESTORATION REQUIREMENTS SHALL APPLY AS MINIMUM TO ALL TRENCHES IN UNDERGROUND FACILITIES INSTALLED BY OTHER FIRMS OR PUBLIC AGENCIES.

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

1. EXCAVATED MATERIAL SHALL BE PLACED IN THE FILL AREAS DESIGNATED OR SHALL BE HAULED AWAY FROM THE SITE TO A COUNTY APPROVED DISPOSAL FACILITY. THE FILL MATERIAL SHALL BE PLACED TO ACHIEVE A MINIMUM 18" 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 3:1, THE FILL SHALL BE PLACED TO ACHIEVE A MINIMUM 3:1 SLOPE. 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. NEW FILL MATERIAL SHALL BE PLACED AS PER THE FOLLOWING 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 AERATING THE FILL OR TOO HEAVY TO AERATE. MOISTENING THE FILL WITH WATER TO BRING TO EACH LIFT SHALL BE THOROUGHLY MIXED BEFORE COMPACTION TO ENSURE A UNIFORM DISTRIBUTION OF MOISTURE.
2. EXISTING MATERIAL SHALL NOT BE SPREAD OR STOCKPILED ON THE SITE.
3. 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.
4. EXISTING AND NEW FILL SHALL BE PLACED IN ANY FILL. NO TREES SHALL BE REMOVED OUTSIDE OF CUT, FILL OR ROADWAY AREAS.
5. THE UPPER 6" OF SUBGRADE BELOW DRIVEWAY ACCESS ROAD OR PARKING AREA SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY.
6. THE SLOPE OF ANY SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL.

NOTE: FILL VOLUMES INCLUDE 10% SHRINKAGE.

7. NOTIFY SOILS ENGINEER TWO (2) DAYS PRIOR TO COMMENCEMENT OF ANY GRADING WORK TO COORDINATE THE WORK IN THE FIELD.
8. ALL MATERIALS FOR FILL SHALL BE APPROVED BY THE SOILS ENGINEER BEFORE IT IS BROUGHT TO THE SITE.
9. THE SUBGRADE SOIL SHALL BE SCARIFIED, MOISTURE CONDITIONED AND COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95%.
10. ALL AGGREGATE BASE MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% RELATIVE COMPACTION.
11. THE GEOTECHNICAL PLAN REVIEW LETTER MUST BE REVIEWED AND APPROVED BY THE COUNTY GEOLOGIST PRIOR TO FINAL APPROVAL BY THE COUNTY ENGINEER FOR BUILDING OCCUPANCY.
12. THE PROJECT GEOTECHNICAL ENGINEER SHALL PERFORM COMPACTION TESTING AND PRESENT THE RESULTS TO THE COUNTY ENGINEERING INSPECTOR PRIOR TO THE CONSTRUCTION OF ANY GRADE AREAS.
13. GRADING WORK BETWEEN OCTOBER 15TH AND APRIL 15TH IS AT THE DISCRETION OF THE SANTA CLARA COUNTY GRADING OFFICIAL.
14. TOTAL DISTURBED AREA FOR THE PROJECT 95,300 SF.
15. VOID NO. 199
16. 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.

1. FOR ALL TREES TO BE RETAINED WITH A CANOPY IN THE DEVELOPMENT AREA OR INTERFACES WITH THE LIMITS OF GRADING FOR ALL PROPOSED DEVELOPMENT ON SITE, THE TREES SHALL BE PROTECTED BY THE PLACEMENT OF A FENCE PROTECTIVE OF THE TREE AND THE TREE CANOPY, IN ACCORDANCE WITH THE 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.
 - B. THE FENCING SHALL BE MAINTAINED THROUGHOUT THE SITE CONSTRUCTION PERIOD AND SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND PROPER FUNCTION.
 - C. FENCING SHALL BE REPAIRED, AS NECESSARY, TO PROVIDE A PHYSICAL BARRIER FROM CONSTRUCTION ACTIVITIES.
 - D. SIGNAGE STATING, "WARNING—THIS FENCING SHALL NOT BE REMOVED WITHOUT PERMISSION OF THE SAN JUAN COUNTY PLANNING OFFICE (408) 239-5770, 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.
2. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY, TREE PROTECTIVE FENCING SHALL BE SECURED, MAINTAINED AND INSPECTED BY THE LAND DEVELOPMENT ENGINEERING INSPECTOR.
3. SEE EXISTING TREE PROTECTION DETAILS FOR MORE INFORMATION.

1. 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).
2. 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.
3. ALL DRIVEWAYS AND COMMON ACCESS ROADS SHALL BE CONSTRUCTED TO MAINTAIN PROJECT SITE ACCESS AND NEIGHBORHOOD ACCESS FOR EMERGENCY VEHICLES AND LOCAL RESIDENTS.
4. ROADWAYS DESIGNATED AS NOT COUNTY MAINTAINED ROADS AS SHOWN ON THE PLAN SHALL 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 TRANSFER INTO THE COUNTY ROAD RIGHT-OF-WAY.
5. 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, LANDSCAPING, TREE REMOVAL, STORM DRAINAGE IMPROVEMENTS, ETC..

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

1. THE SANITARY SEWER AND WATER UTILITIES SHOWN ON THESE PLANS ARE NOT PART OF THIS GRADING PERMIT AND ARE SHOWN FOR REFERENCE ONLY.
2. 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.

1. 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.

1. WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY.
2. COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS, OR TRUCKS TO BE LOADED WITH SUCH MATERIALS, WITH A WATER MIST OR 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.
3. SWEEP ALL (WITH AIR SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES. THE USE OF DRY POWDER SWEEPING IS PROHIBITED.
4. SWEEP ALL (WITH AIR SWEEPERS) (WITH AIR SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ON ADJACENT PUBLIC STREETS. THE USE OF DRY POWDER SWEEPING IS PROHIBITED.
5. 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 24845 OF CALIFORNIA CODE OF REGULATIONS (CCR)). ENGINES SHALL BE SHUT OFF IF IDLING EXCEEDS 5 MINUTES OR IF IDLING TIME UNLESS NECESSARY FOR PROPER OPERATION OF THE VEHICLE.
6. ALL VEHICLE SPEEDS ON UNPAVED ROADS SHALL BE LIMITED TO 15 MILES PER HOUR.
7. 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 MAINTAINED AND PROPERLY TUNED TO MEET THE ABOVE REQUIREMENTS.
8. POST A SIGN THAT IS AT LEAST 32 SQUARE FEET MINIMUM 2 INCHES LETTER HEIGHT VISIBLE NEAR THE ENTRANCE OF CONSTRUCTION SITE THAT IDENTIFIES THE PROJECT AND PROVIDES THE CONTACT INFORMATION FOR THE PERMITTEE OR FROM ROADS DEPARTMENT OR OTHER APPLICABLE AGENCY IF REQUIRED.

Diagram illustrating a tree protection zone. A tree is shown with a trunk and branches. A dashed line indicates the "DRIP LINE". A rectangular structure, likely a tree pit or protection zone, is shown with a "TENSION BAR (3PT)" and a "CHAIN LINK" detail. The structure is labeled "10'-0" MAX" and "PIPE 2" O.C.". The structure is shown with a "2'-0" MIN" height and a "5'-0" MIN" width. A "SIGNAGE DETAIL" is also indicated.

1. PRIOR TO THE COMMENCEMENT OF ANY GRADING, TREE PROTECTIVE FENCING SHALL BE IN PLACE IN ACCORDANCE WITH THE TREE PRESERVATION PLAN AND INSPECTED BY A CERTIFIED ARBORIST. THE ARBORIST SHALL MONITOR CONSTRUCTION ACTIVITY TO ENSURE THAT THE TREE PROTECTION MEASURES ARE MAINTAINED AND ADHERED TO DURING CONSTRUCTION. THIS CONDITION SHALL BE INCORPORATED INTO THE GRADING PLANS.
2. FENCE SHALL BE MINIMUM 5 FEET TALL CONSTRUCTED OF STURDY MATERIAL (CHAIN-LINK OR EQUIVALENT STRENGTH/ DURABILITY).
3. FENCE SHALL BE SUPPORTED BY VERTICAL POSTS DRIVEN 2 FEET (MIN) INTO THE GROUND AND SPACED AT 8 FEET ON CENTER.
4. TREE FENCING SHALL BE MAINTAINED THROUGHOUT THE SITE DURING THE CONSTRUCTION PERIOD, INSPECTED PERIODICALLY FOR DAMAGE AND PROPER FUNCTION, REPAIRED AS NECESSARY TO PROVIDE A PHYSICAL BARRIER FROM CONSTRUCTION ACTIVITIES, AND REMAIN IN PLACE UNTIL THE FINAL INSPECTION.
5. A SIGN THAT INCLUDES THE WORDS, "WARNING: THIS FENCE SHALL NOT BE REMOVED WITHOUT THE EXPRESSED PERMISSION OF THE SANTA CLARA COUNTY PLANNING OFFICE," SHALL BE SECURELY ATTACHED TO THE FENCE IN A VISUALLY PROMINENT LOCATION.

1. DEVELOPER IS RESPONSIBLE FOR ALL NECESSARY DRAINAGE FACILITIES WHETHER SHOWN ON THE PLANS OR NOT AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THE ADEQUACY AND CONTINUED MAINTENANCE OF 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

2. DROP INLETS SHALL BE COUNTY STANDARD TYPE 5 UNLESS OTHERWISE NOTED ON THE PLANS. THE DEVELOPER'S ENGINEER SHALL BE RESPONSIBLE FOR THE PROPER LOCATION OF DROP INLETS, WHERE STREET PROFILE GRADE EXCEEDS 6% DROP INLETS SHALL BE SET AT 500' ALONG CURB LINE TO ACCEPT WATER FROM THE STREET.
3. 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.
4. UPON INSTALLATION OF DRIVEWAY CONNECTIONS, PROPERTY OWNERS SHALL BE RESPONSIBLE FOR THE UNTERMINATED FLOW OF WATER IN ROADSIDE DITCHES.
5. THE COUNTY SHALL INSPECT UNDERGROUND DRAINAGE IMPROVEMENTS AND STORMWATER MANAGEMENT FEATURES PRIOR TO BACKFILL.

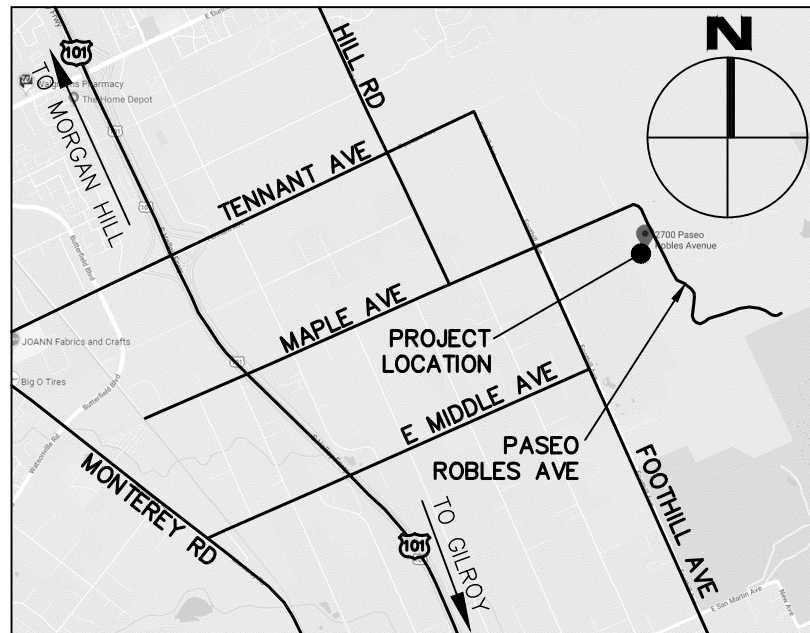
THIS IS A TRUE COPY OF THE AS-BUILT PLANS. THERE (___ WERE) (___ WERE NOT) MINOR FIELD CHANGES - MARKED WITH THE SYMBOL (^). THERE (___ WERE) (___ WERE NOT) PLAN REVISIONS INDICATING SIGNIFICANT CHANGES REVIEWED BY THE COUNTY ENGINEER AND MARKED WITH THE SYMBOL Δ.

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.

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

A map of the San Joaquin Hills area. The map shows several cities: Wildomar, San Marcos, San Jose, San Juan, and San Juan. Major roads are labeled: SR 52, SR 54, and SR 56. A black dot indicates the project location near San Juan. The map also shows the San Joaquin Hills and the San Joaquin River.



1. THE DEVELOPER IS RESPONSIBLE FOR THE INSTALLATION OF THE WORK PROPOSED ON THE EROSION CONTROL PLAN. THE ENGINEER OF RECORD IS RESPONSIBLE FOR THE DESIGN OF THE EROSION CONTROL PLANS AND ANY MODIFICATIONS OF THE EROSION CONTROL PLANS TO PREVENT ILLICIT DISCHARGES FROM THE SITE DURING CONSTRUCTION.

2. GRADING FOR NEW 15' AC DRIVEWAY ON SOUTH SIDE OF PROPERTY FROM PASEO ROBLES AVENUE TO RESIDENCE.
3. GRADING FOR NEW 7,200 SF TENNIS COURT
4. GRADING FOR NEW POOL HOUSE AND NEW OUTDOOR PATIO AREA
5. GRADING FOR NEW ADU TO COME OFF OF (E) NORTHERN DRIVEWAY
6. STORMWATER TREATMENT MEASURES TO MITIGATE NEW/REPLACED IMPERVIOUS SURFACES.

- INDICATES FOUND IRON PIPE AS NOTED
- INDICATES IRON PIPE TO BE SET

<u>DESCRIPTION</u>	<u>TO BE CONST.</u>	<u>EXISTING</u>
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PROPERTY LINE		
LIMITS OF WORK OR BOUNDARY		
CURB AND GUTTER		
SIDEWALK		
CITY SURVEY MONUMENT		
SEPTIC TIGHT-LINE		
SEPTIC TANK		
STORM SEWER		
STORM DRAIN MANHOLE		
DRAINAGE INLET AT CURB		
ELECTROLIER		
EDGE OF PAVEMENT		
PACING CONFORM OR OVERLAY TO FORM SMOOTH AC TRANSITION		

THE TOPOGRAPHIC SURVEY AND BOUNDARY INFORMATION PROVIDED HEREON WAS COMPLETED BY CARNES AND ASSOCIATES, RI ENGINEERING INC. MAKES NO GUARANTEE AS TO THE ACCURACY OF BOTH. THE CONTRACTOR SHALL VERIFY THE BOUNDARY LOCATION AND TOPOGRAPHIC INFORMATION PRIOR TO COMMENCING WORK.

THE BEARINGS SHOWN ON THIS MAP ARE BASED ON THE CENTERLINE OF PASEO ROBLES AS FOUND, MONUMENTED AND RECORDED AS SOUTH 26°57'35" EAST IN BOOK 393 OF MAPS AT PAGES 45 THROUGH 48, RECORDS OF SANTA CLARA COUNTY, CALIFORNIA

THE TEMPORARY ONSITE BENCHMARK FOR THIS PROJECT IS THE NORTHWEST CORNER OF CONCRETE PAD FOR THE FIRE HYDRANT LOCATED ±28 FEET NORTH OF THE SOUTH PROPERTY LINE AND ±9.5 FEET WEST OF THE WESTERLY EDGE OF PAVEMENT ON PASEO ROBLES. T.B.M. = 551.00'

1. THE LANDOWNER / CONTRACTOR MUST PROTECT AND ENSURE THE PERPETUATION OF SURVEY MONUMENTS AFFECTED BY CONSTRUCTION ACTIVITIES.
2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE, STAKE, AND FLAG ALL PERMANENT SURVEY MONUMENTS OF RECORD AND ANY UNRECORDED MONUMENTS THAT ARE DISCOVERED THAT ARE WITHIN 50 FEET OF THE CONSTRUCTION ACTIVITIES.
3. 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 REVISION RECORD OF SURVEY WITH COUNTY SURVEYOR PRIOR TO FINAL ACCEPTANCE OF THE PROJECT BY THE LAND DEVELOPMENT ENGINEERING INSPECTOR.

C-0	COVER SHEET
C-1	SITE PLAN
C-2	GRADING & DRAINAGE PLAN (POOL)
C-3	GRADING & DRAINAGE PLAN (ADU)
C-4	GRADING & DRAINAGE PLAN (NEW DRIVEWAY)
C-5	SECTIONS (POOL)
C-6	SECTIONS (ADU)
C-7	DETAILS
C-8	EROSION CONTROL PLAN
BMP-1	BEST MANAGEMENT PRACTICES SHEET 1
BMP-2	BEST MANAGEMENT PRACTICES SHEET 2

ENGINEER'S NAME: MARK M. GROFCSIK, RCE 83644

ADDRESS: 303 POTRERO STREET, SUITE 42-202
SANTA CLARA, CA 95060

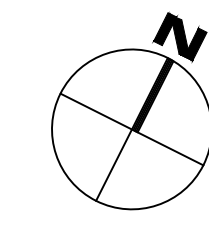
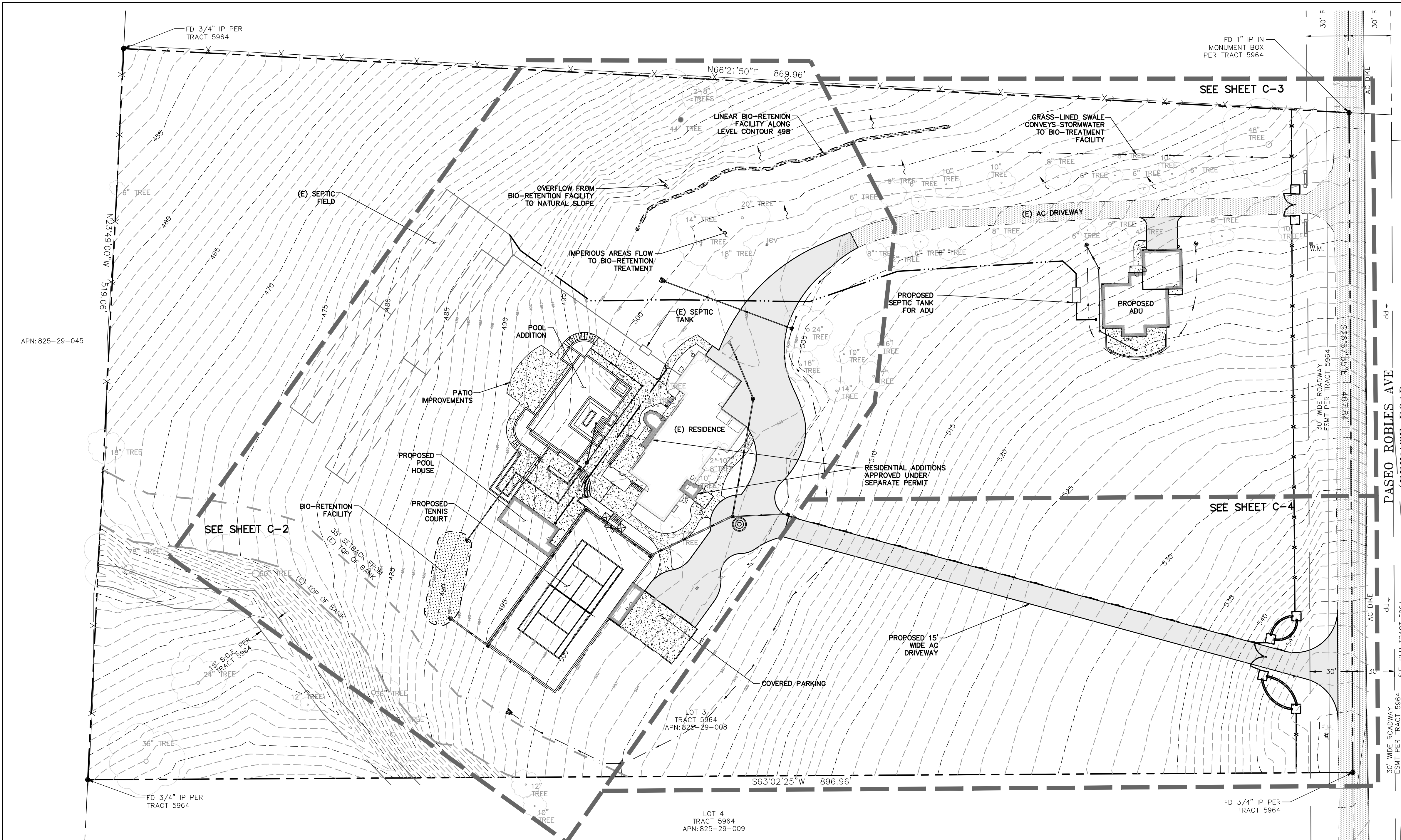
PHONE NO. (831) 425-3901

Revision 1	Date	APN	Sheet
Revision 2	Date	825-29-008	1
Revision 3	Date	Co. File	of
			11

APPLICANT: AAMIR JAMIL

ROAD: PASEO ROBLES AVE

COUNTY FILE NO.: TBD



LEGEND

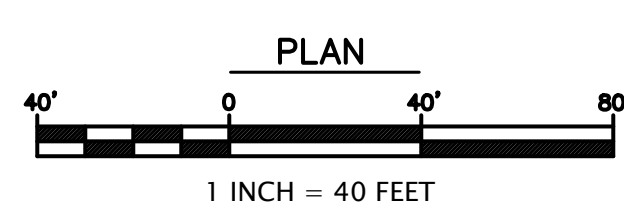
- (E) AB
- (E) AC
- (E) CONCRETE
- PROPOSED CONCRETE (8/6-7)
- PROPOSED AC (7/6-7)
- (E) FLOWLINE
- (E) RETAINING WALL
- PROPERTY LINE
- PROPOSED SETBACK
- PROPOSED LIMIT OF GRADING
- PROPOSED RETAINING WALL
- PROPOSED SITE WALL
- PROPOSED SLOT DRAIN
- PROPOSED SWALE
- PROPOSED BIO-SWALE
- PROPOSED SD
- PROPOSED PERIMETER SD
- PROPOSED SDCO
- PROPOSED CB

ABBREVIATIONS

AD	AREA DRAIN
BW	BOTTOM OF WALL
CB	CATCH BASIN
CONST	CONSTRUCT
DIA, #	DIAMETER
DS	DOWNSPOUT
DTL	DETAIL
DWY	DRIVEWAY
EXIST	EXISTING
EOP	EDGE OF PAVEMENT
FF	FINISH FLOOR
FG	FINISH GRADE
FS	FIRE SERVICE
HP	HIGH POINT
INVT	INVERT
LN	LINEAR FEET
LP	LOW POINT
MAX	MAXIMUM
NOT TO SCALE	NOT TO SCALE
RT.S.	RETAINING WALL
RIM	RIM ELEVATION
S	SLOPE
SCCO	SANTA CLARA COUNTY
SSCO	SANITARY SEWER CLEANOUT
SDCO	STORM DRAIN CLEANOUT
TYP	TYPICAL
TW	TOP OF WALL
WS	WATER SERVICE

EARTHWORK AND GRADING

- WORK SHALL CONSIST OF ALL CLEARING, GRUBBING, STRIPPING, PREPARATION OF LAND TO BE FILLED, EXCAVATION, SPREADING, COMPACTION AND CONTROL OF FILL, AND ALL SUBSIDIARY WORK NECESSARY TO COMPLETE THE GRADING TO CONFORM TO THE LINES, GRADES, AND SLOPES, AS SHOWN ON THE APPROVED PLANS.
- ALL GRADING OPERATIONS SHALL CONFORM TO SECTION 19 OF THE CALTRANS STANDARD SPECIFICATIONS, AND SHALL ALSO BE DONE IN CONFORMANCE WITH THE REQUIREMENTS OF THE COUNTY OF SANTA CLARA. THE MOST STRINGENT GUIDELINE SHALL PREVAIL.
- REFERENCE IS MADE TO THE GEOTECHNICAL INVESTIGATIONS BY ROMIG ENGINEERS, ENTITLED "GEOLOGIC AND GEOTECHNICAL INVESTIGATION," DATED FEBRUARY 2020. THE CONTRACTOR SHALL MAKE A THOROUGH REVIEW OF THIS REPORT AND SHALL FOLLOW ALL RECOMMENDATIONS THEREIN. THE CONTRACTOR SHALL CONTACT ROMIG ENGINEERS FOR ANY CLARIFICATIONS NECESSARY PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL GRADE TO THE LINE AND ELEVATIONS SHOWN ON THE PLAN AND SHALL SECURE THE SERVICES OF A LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER TO PROVIDE STAKES FOR LINE AND GRADE.
- THE GEOTECHNICAL ENGINEER SHOULD BE NOTIFIED AT LEAST FOUR (4) DAYS PRIOR TO ANY SITE CLEARING AND GRADING OPERATIONS.
- THE UPPER 18" OF NATIVE SUBGRADE IN AREAS TO RECEIVE CONCRETE SLABS AND/OR PAVEMENTS SHOULD BE OVEREXCAVATED AND EXPOSED SURFACE SHOULD BE SCARIFIED, MOISTURE CONDITIONED TO PRODUCE A MOISTURE CONTENT WITHIN 4% TO 5% ABOVE THE LABORATORY OPTIMUM VALUE, AND UNIFORMLY COMPACTED TO AT LEAST 90% RELATIVE COMPACTION BASED ON ASTM TEST D1557. THE UPPER 6" OF CONCRETE SLAB, AND PAVEMENT SUBGRADE AND BASE SHOULD BE COMPACTED TO AT LEAST 95% RELATIVE COMPACTION UNLESS OTHERWISE RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- ENGINEERED FILL SHOULD BE PLACED IN THIN LIFTS NOT EXCEEDING 8" IN LOOSE THICKNESS, MOISTURE CONDITIONED, AND COMPACTED TO AT LEAST 90% RELATIVE COMPACTION.
- MATERIAL USED FOR ENGINEERED FILL SHALL MEET THE REQUIREMENTS OF THE AFOREMENTIONED REPORTS BY ROMIG ENGINEERS.
- IMPORTED FILL MATERIAL USED AS ENGINEERED FILL FOR THE PROJECT SHALL MEET THE FOLLOWING REQUIREMENTS:
Less than 3% organics, free of debris and gravel material, contain no rocks or clods greater than 2.5" in diameter, with no more than 15 percent by weight of rocks larger than 2 1/2".
Be granular and have a plasticity index of less than 15, and should have sufficient binder to allow excavations to stand without caving.
- ALL FILL MATERIAL SHALL BE APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER PRIOR TO JOBSITE DELIVERY AND PLACEMENT. NO EARTHWORK OPERATIONS SHALL BE PERFORMED WITHOUT THE DIRECT OBSERVATION AND APPROVAL OF THE GEOTECHNICAL ENGINEER.
- BARE GROUND WITHIN 10' OF FOUNDATIONS SHALL BE SLOPED AWAY @ 5% MINIMUM OR 2% MINIMUM FOR PAVED SURFACES.



STORM DRAINAGE NOTES

- CULVERTS SHALL BE REINFORCED CONCRETE PIPE (RCP), POLYVINYL CHLORIDE (PVC), OR HIGH DENSITY POLYETHYLENE (HDPE) AND SHALL HAVE A SMOOTH INTERIOR CONFORMING TO SANTA CLARA COUNTY DRAINAGE MANUAL.
- INLETS SHALL BE CHRISTY CONCRETE PRODUCTS OR APPROVED EQUAL.
- CONNECT ALL DOWNSPOUTS TO PERIMETER STORM DRAIN.

STORM DRAIN SYSTEM MAINTENANCE

THE HOME OWNER IS RESPONSIBLE FOR MAINTAINING THE STORM DRAINAGE SYSTEM AND ALL COMPONENTS. EVERY YEAR, PRIOR TO THE WET WEATHER SEASON (OCTOBER 15TH) ALL THE CATCH BASINS AND STORM DRAIN CLEANOUTS SHALL BE INSPECTED AND CLEANED OF ANY DEBRIS, SILT, TRASH AND SEDIMENT.

BIOLOGICAL RESOURCES NOTES

- A) IF LAND-CLEARING ACTIVITIES CAN BE PERFORMED OUTSIDE OF THE NESTING SEASON, THAT IS, BETWEEN AUGUST 16 AND JANUARY 31, NO SURVEYS FOR GROUND-NESTING AND/OR TREE-NESTING PASSERINES ARE WARRANTED. THE SURVEY AREA SHOULD INCLUDE ALL TREES AND SCRUB WITHIN 200 FEET OF THE LIMITS OF WORK. THE PURPOSE OF PRE-CONSTRUCTION CONSTRUCTION SURVEYS IS TO DETERMINE IF OCCUPIED NESTS ARE PRESENT WITHIN THE ZONE OF INFLUENCE OF THE PROJECT.
- B) IF LAND-CLEARING ACTIVITIES ARE TO COMMENCE BETWEEN FEBRUARY 1 AND AUGUST 15, A PRE-CONSTRUCTION SURVEY FOR GROUND-NESTING AND/OR TREE-NESTING PASSERINES MUST BE CONDUCTED PRIOR TO THE INITIATION OF WORK. THE SURVEY AREA SHOULD INCLUDE ALL TREES, BUSHES, GRASSLAND AND STRUCTURES WITHIN 100 FEET OF THE LIMITS OF WORK. THE PURPOSE OF PRE-CONSTRUCTION SURVEYS IS TO DETERMINE IF OCCUPIED NESTS ARE PRESENT WITHIN THE ZONE OF INFLUENCE OF THE PROJECT.
- C) DEPENDING ON THE TIME OF YEAR AND DEPENDING ON THE RESULTS OF THE PRE-CONSTRUCTION SURVEYS, IT MIGHT BE NECESSARY THAT CONSTRUCTION ACTIVITIES COMMENCE WITHIN ONE WEEK OF THE SURVEY EARLY IN THE BREEDING SEASON TO AS LONG AS 30 DAYS LATE IN THE BREEDING SEASON, AS RECOMMENDED BY THE WILDLIFE BIOLOGIST. IF CONSTRUCTION IS NOT INITIATED WITHIN THESE WINDOWS, IT MIGHT BE NECESSARY TO REPEAT THE PRE-CONSTRUCTION SURVEYS.
- D) IF ANY OCCUPIED GROUND-NESTING AND/OR TREE-NESTING PASSERINE NESTS ARE FOUND WITHIN THE ZONE OF INFLUENCE, GRADING AND CONSTRUCTION SHALL BE PROHIBITED WITHIN AN APPROPRIATE SETBACK (IN GENERAL, 75-100 FEET, DEPENDING ON LINES OF SIGHT AND THE SPECIES IN QUESTION), AS APPROVED BY A QUALIFIED BIOLOGIST. WORK WITHIN THE SETBACK MUST BE DELAYED UNTIL AFTER THE YOUNG HAVE FLEDGED, AS DETERMINED DURING SURVEYS BY A QUALIFIED BIOLOGIST, OR UNTIL AFTER AUGUST 15.

APPLICANT: AAMIR JAMIL

ROAD: PASEO ROBLES AVE

COUNTY FILE NO.: TBD

GRADING & DRAINAGE SUBMITTAL

NEW ADU, DRIVEWAY, & SITE IMPROVEMENTS

FOR AAMIR JAMIL
2700 PASEO ROBLES AVENUE
SAN MARTIN, CA 95046
APN # 825-29-008

SITE PLAN

project no.
19-089-1

date
MAY 2021

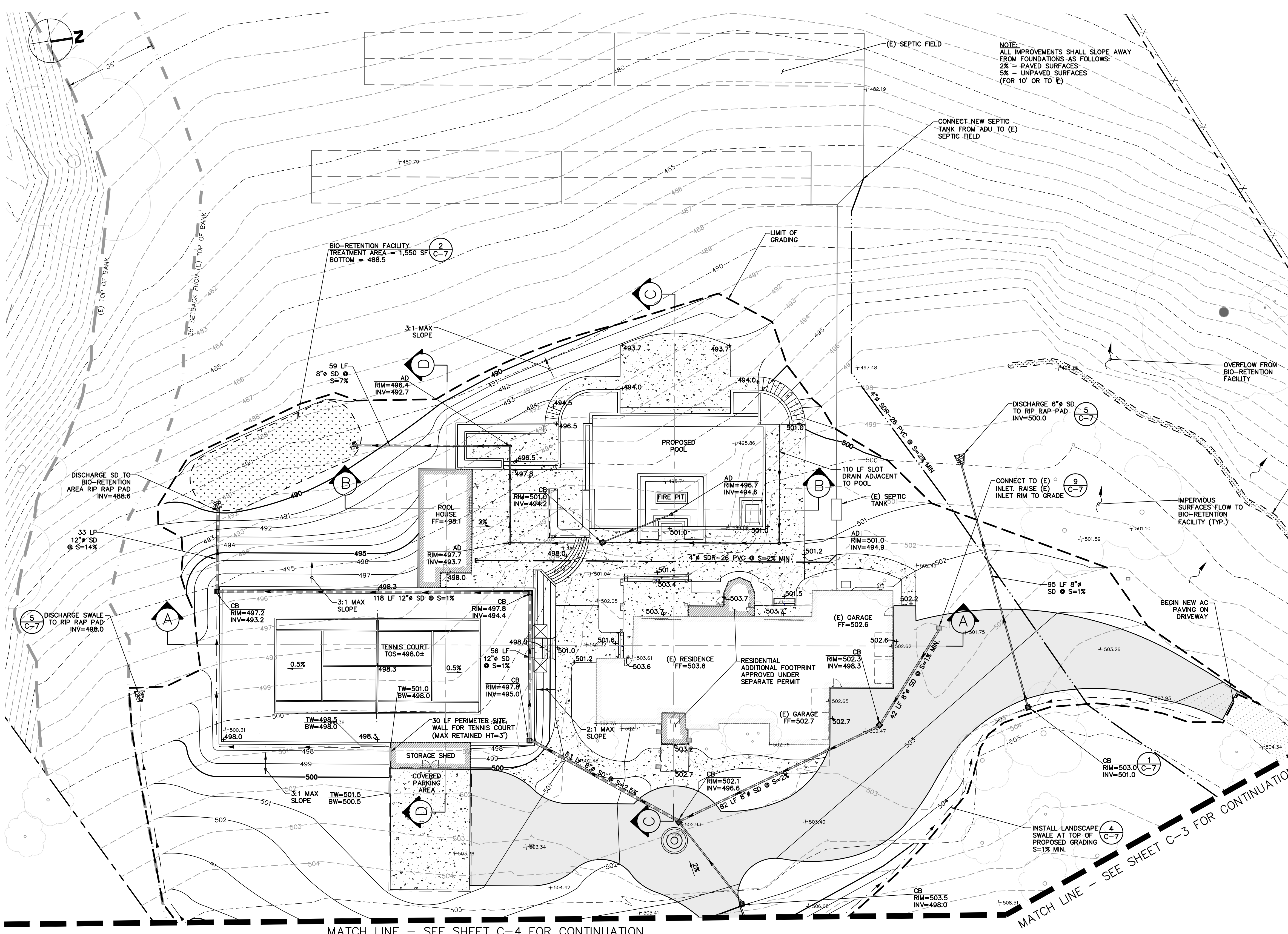
scale
AS SHOWN

dwg name
CIVIL1.dwg

C-1

PROFESSIONAL ENGINEER
MARK M. GROFCSKI
No. 83644
Exp. 3-31-23
CIVIL
STATE OF CALIFORNIA
5/25/2021

RI Engineering, Inc.
303 Potrero St., Suite 42-202, Santa Cruz, CA 95060
831-425-3901 www.riengineering.com



LEGEND

- (E) AB
- (E) AC
- (E) CONCRETE
- PROPOSED CONCRETE
- PROPOSED AC
- (E) FLOWLINE
- (E) RETAINING WALL
- PROPERTY LINE
- PROPOSED SETBACK
- PROPOSED LIMIT OF GRADING
- PROPOSED RETAINING WALL
- PROPOSED SITE WALL
- PROPOSED SLOT DRAIN
- PROPOSED SWALE
- PROPOSED BIO-SWALE
- PROPOSED SD
- PROPOSED PERIMETER SD
- PROPOSED SDCO
- PROPOSED CB

ABBREVIATIONS

AD	AREA DRAIN
BW	BOTTOM OF WALL
CB	CATCH BASIN
CONST	CONSTRUCT
DIA	DIAMETER
DS	DOWNSPOUT
DTL	DETAIL
DWY	DRIVEWAY
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EARTHWORK AND GRADING

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- IMPORTED FILL MATERIAL USED AS ENGINEERED FILL FOR THE PROJECT SHALL MEET THE FOLLOWING REQUIREMENTS:
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SEWER LATERAL NOTES

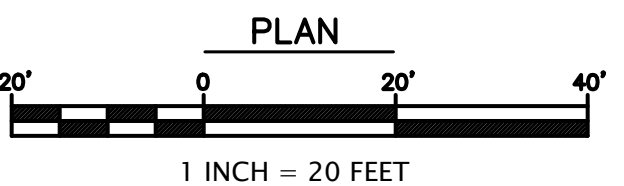
- SEWER LATERALS SHALL BE POLYVINYL CHLORIDE (PVC SDR26) AND SHALL HAVE A SMOOTH INTERIOR.
- SEWER LATERALS SHALL BE SLOPED AT A MINIMUM 2%

STORM DRAINAGE NOTES

- CULVERTS SHALL BE REINFORCED CONCRETE PIPE (RCP), POLYVINYL CHLORIDE (PVC), OR HIGH DENSITY POLYETHYLENE (HDPE) AND SHALL HAVE A SMOOTH INTERIOR CONFORMING TO SANTA CLARA COUNTY DRAINAGE MANUAL.
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STORM DRAIN SYSTEM MAINTENANCE

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APPLICANT: AAMIR JAMIL

ROAD: PASEO ROBLES AVE

COUNTY FILE NO.: TBD

GRADING & DRAINAGE SUBMITTAL

PROFESSIONAL ENGINEER
MARK M. GROFCSKI
No. 83644
Exp. 3-31-23
CIVIL
STATE OF CALIFORNIA

5/25/2021

RI Engineering, Inc.
303 Potrero St., Suite 42-202, Santa Cruz, CA 95060
831-425-3901 www.riengineering.com

NEW ADU, DRIVEWAY, & SITE IMPROVEMENTS
FOR
AAMIR JAMIL
2700 PASEO ROBLES AVENUE
SAN MARTIN, CA 95046
APN # 825-29-008

GRADING & DRAINAGE PLAN (POOL)

project no.
19-089-1

date
MAY 2021

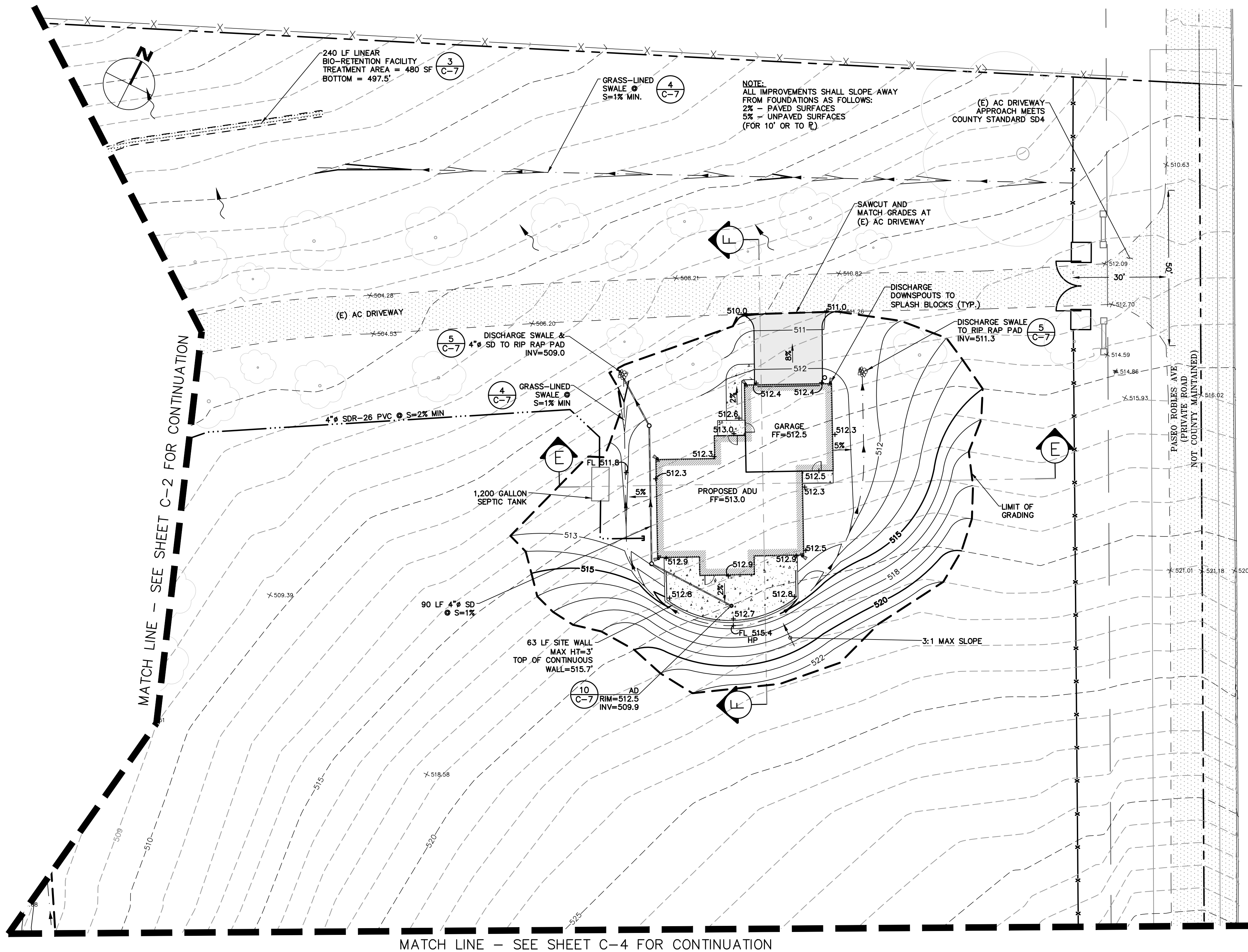
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C-2

EARTHWORK AND GRADING

1. WORK SHALL CONSIST OF ALL CLEARING, GRUBBING, STRIPPING, PREPARATION OF LAND TO BE FILLED, EXCAVATION, SPREADING, COMPACTION AND CONTROL OF FILL, AND ALL SUBSIDIARY WORK NECESSARY TO COMPLETE THE GRADING TO CONFORM TO THE LINES, GRADES, AND SLOPES, AS SHOWN ON THE APPROVED PLANS.
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11. BARE GROUND WITHIN 10' OF FOUNDATIONS SHALL BE SLOPED AWAY @ 5% MINIMUM OR 2% MINIMUM FOR PAVED SURFACES.



LEGEND

- | | |
|--|---------------------------|
| | (E) AB |
| | (E) AC |
| | (E) CONCRETE |
| | PROPOSED CONCRETE (8 C-7) |
| | PROPOSED AC (7 C-7) |
| | (E) FLOWLINE |
| | (E) RETAINING WALL |
| | PROPERTY LINE |
| | PROPOSED SETBACK |
| | PROPOSED LIMIT OF GRADING |
| | PROPOSED RETAINING WALL |
| | PROPOSED SITE WALL |
| | PROPOSED SLOT DRAIN |
| | PROPOSED SWALE |
| | PROPOSED BIO-SWALE |
| | PROPOSED SD |
| | PROPOSED PERIMETER SD |
| | PROPOSED SDCO |
| | PROPOSED CB |

ABBREVIATIONS

AD	AREA DRAIN
BW	BOTTOM OF WALL
CB	CATCH BASIN
CONST	CONSTRUCT
DIA.	DIAMETER
DS	DOWNSPOUT
DTL	DETAIL
DWY	DRIVEWAY
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EL	ELEVATION
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STORM DRAINAGE NOTES

1. CULVERTS SHALL BE REINFORCED CONCRETE PIPE (RCP), POLYVINYL CHLORIDE (PVC), OR HIGH DENSITY POLYETHYLENE (HDPE) AND SHALL HAVE A SMOOTH INTERIOR CONFORMING TO SANTA CLARA COUNTY DRAINAGE MANUAL.
2. INLETS SHALL BE CHRISTY CONCRETE PRODUCTS OR APPROVED EQUAL.
3. CONNECT ALL DOWNSPOUTS TO DISCHARGE ON SPLASH BLOCKS DIRECTED AWAY FROM FOUNDATION.

STORM DRAIN SYSTEM MAINTENANCE

THE HOME OWNER IS RESPONSIBLE FOR MAINTAINING THE STORM DRAINAGE SYSTEM AND ALL COMPONENTS. EVERY YEAR, PRIOR TO THE WET WEATHER SEASON (OCTOBER 15TH) ALL THE CATCH BASINS AND STORM DRAIN CLEANOUTS SHALL BE INSPECTED AND CLEANED OF ANY DEBRIS, SILT, TRASH AND SEDIMENT.



RI Engineering, Inc.

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NEW ADU, DRIVEWAY, & SITE IMPROVEMENTS

FOR
AAMIR JAMIL
2700 PASEO ROBLES AVENUE
SAN MARTIN, CA 95046
APN # 825-29-008

GRADING & DRAINAGE PLAN (ADU)

project no.
19-089-1
date
MAY 2021
scale
AS SHOWN
dwg name
CIVIL1.dwg

C-3

APPLICANT: AAMIR JAMIL

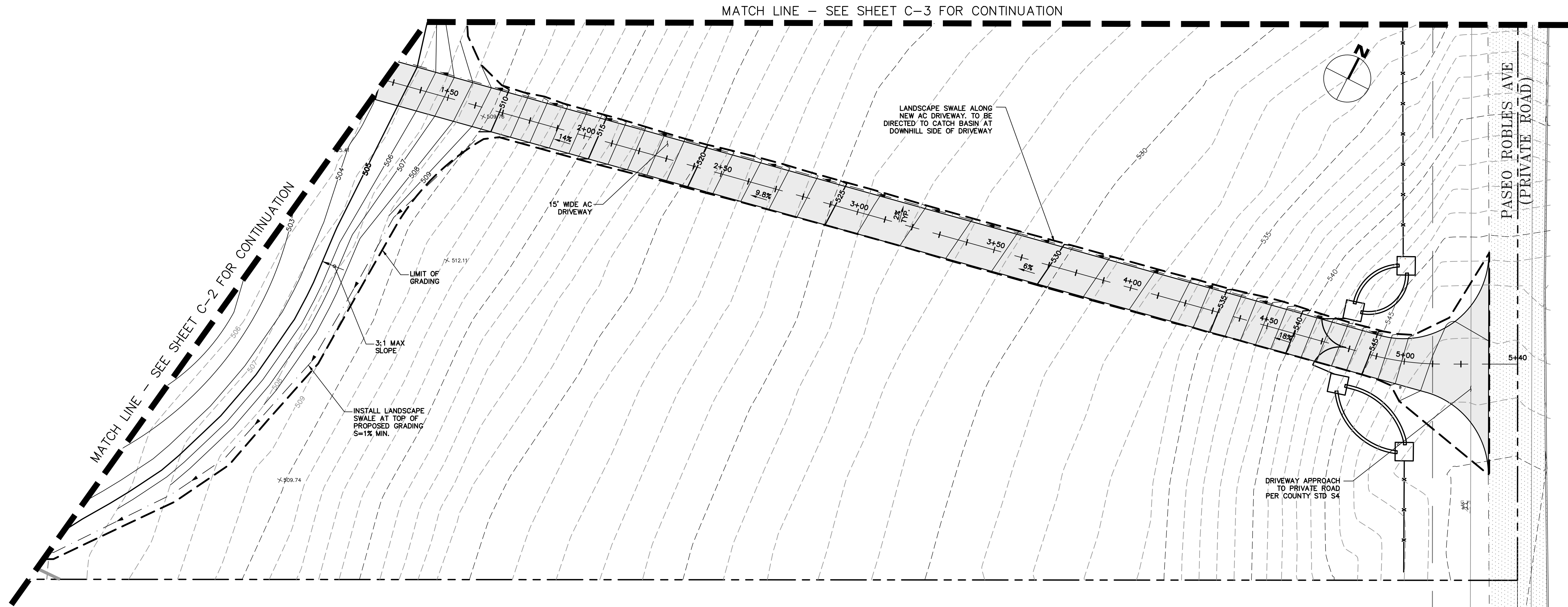
ROAD: PASEO ROBLES AVE

COUNTY FILE NO.: TBD

GRADING & DRAINAGE SUBMITTAL

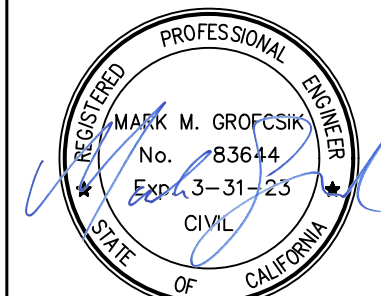
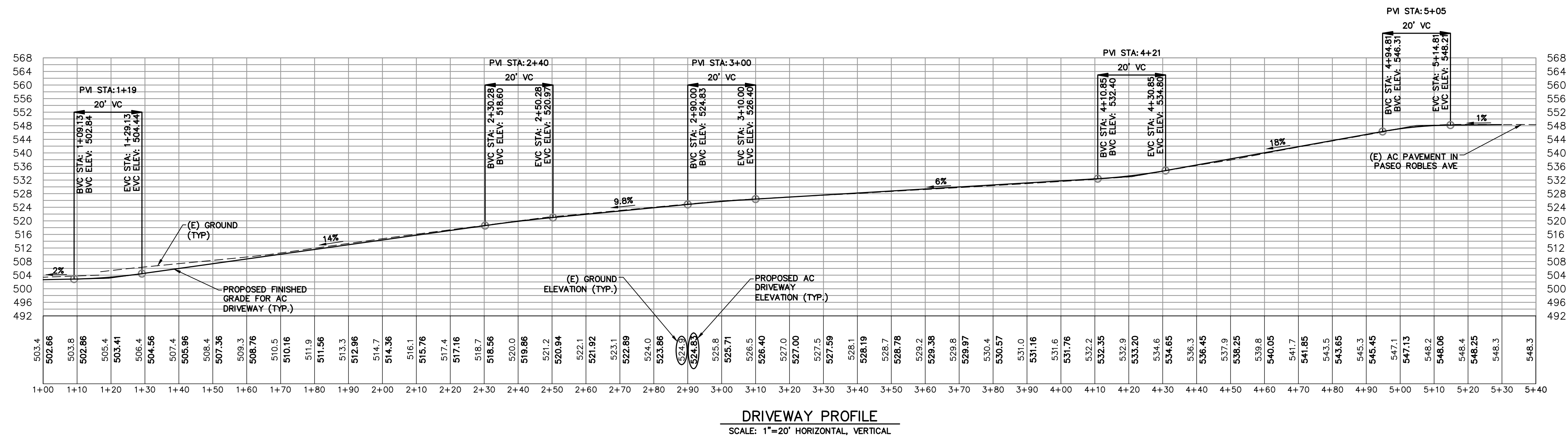
ABBREVIATIONS

AD	AREA DRAIN
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LEGEND

	(E) AB
	(E) AC
	(E) CONCRETE
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	PROPOSED RETAINING WALL
	PROPOSED SITE WALL
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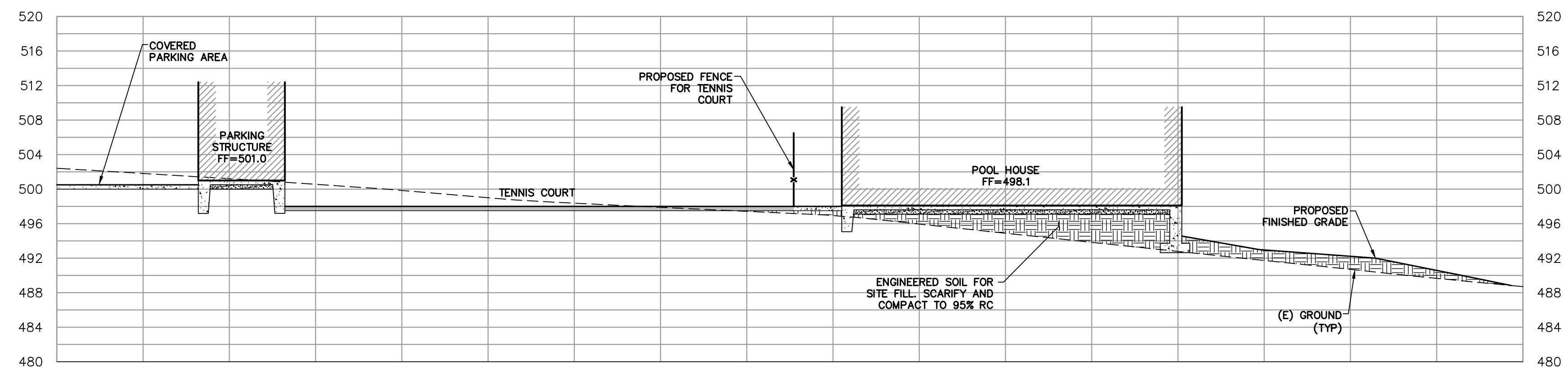
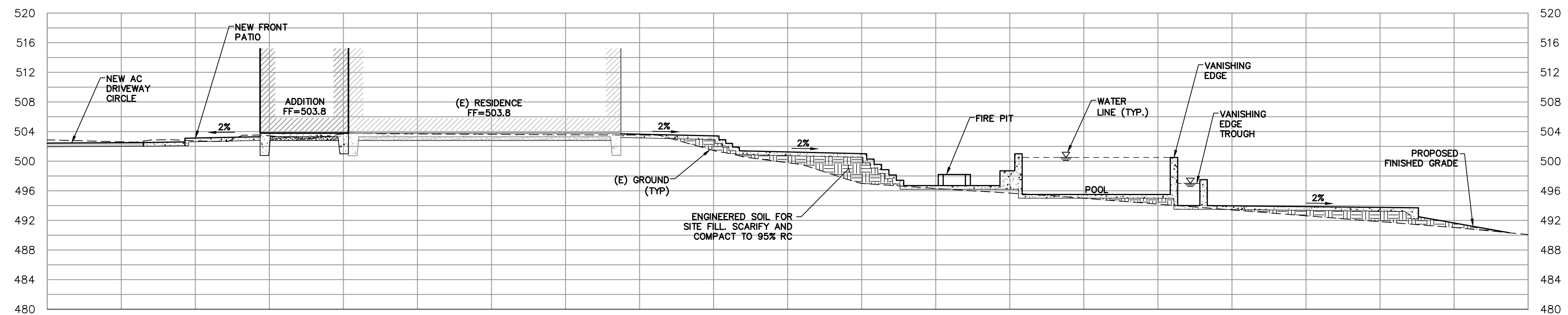
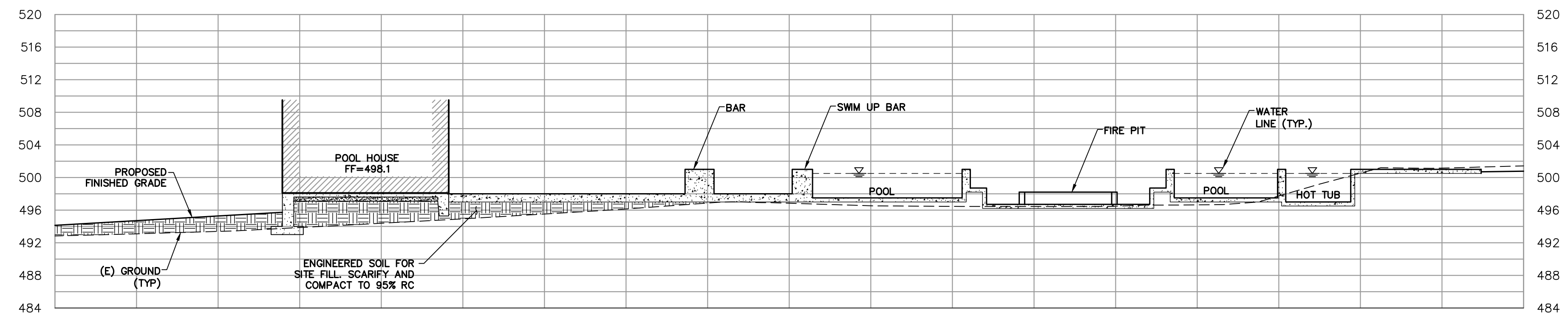
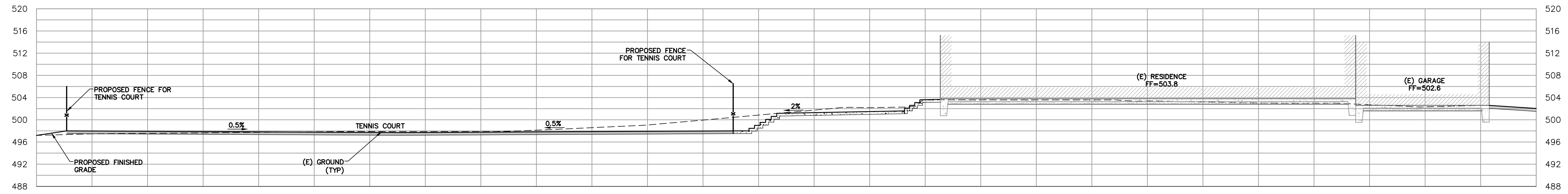
NEW ADU, DRIVEWAY, & SITE IMPROVEMENTS

FOR
AAMIR JAMIL
2700 PASEO ROBLES AVENUE
SAN MARTIN, CA 95046
APN # 825-29-008

GRADING & DRAINAGE PLAN (DRIVEWAY)

project no.
19-089-1
date
MAY 2021
scale
AS SHOWN
dwg name
CIVIL1.dwg

C-4



5/25/2021



RI Engineering, Inc.

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NEW ADU, DRIVEWAY, & SITE IMPROVEMENTS

FOR
AAMIR JAMIL
2700 PASEO ROBLES AVENUE
SAN MARTIN, CA 95046
APN # 825-29-008

SECTIONS (POOL)

project no.
19-089-1
date
MAY 2021
scale
AS SHOWN
dwg name
CIVIL1.dwg

C-5

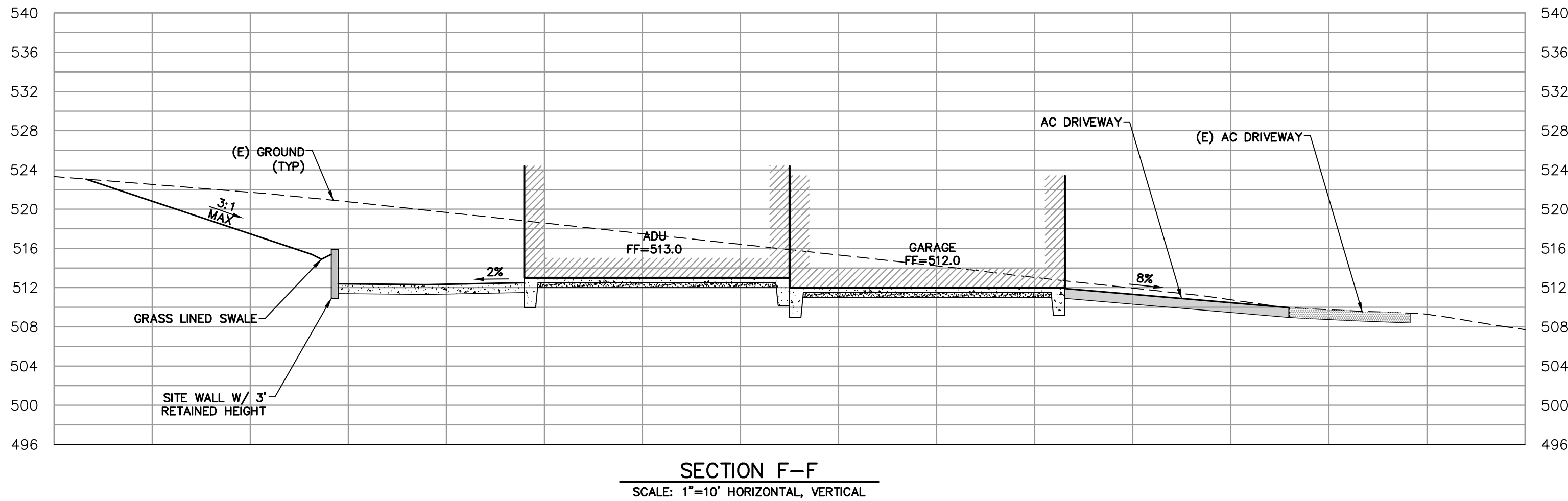
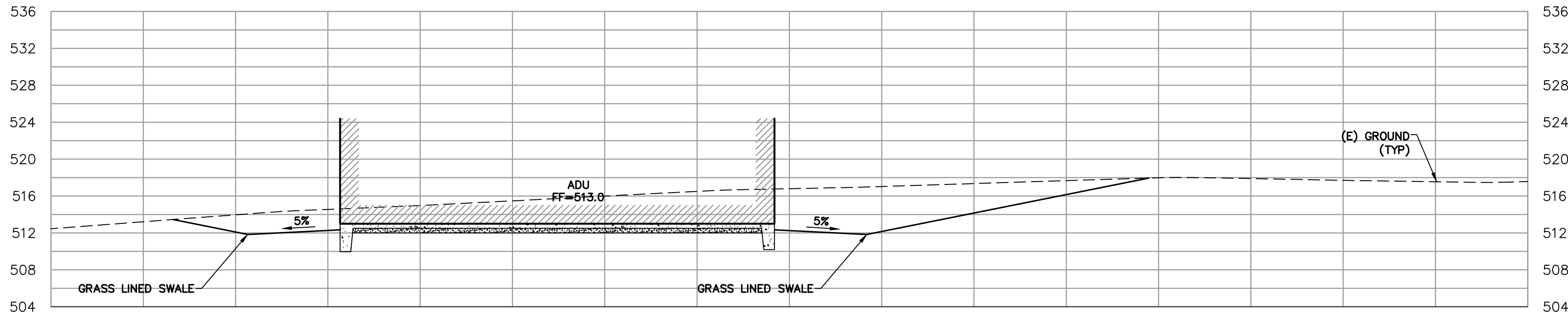
APPLICANT: AAMIR JAMIL

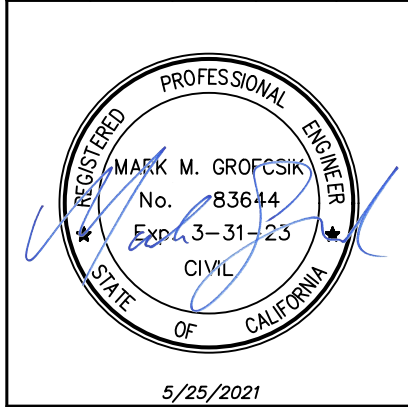
ROAD: PASEO ROBLES AVE

COUNTY FILE NO.: TBD

GRADING & DRAINAGE SUBMITTAL

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**RI Engineering, Inc.**

303 Potrero St., Suite 42-202, Santa Cruz, CA 95060
831-425-3901 www.riengineering.com

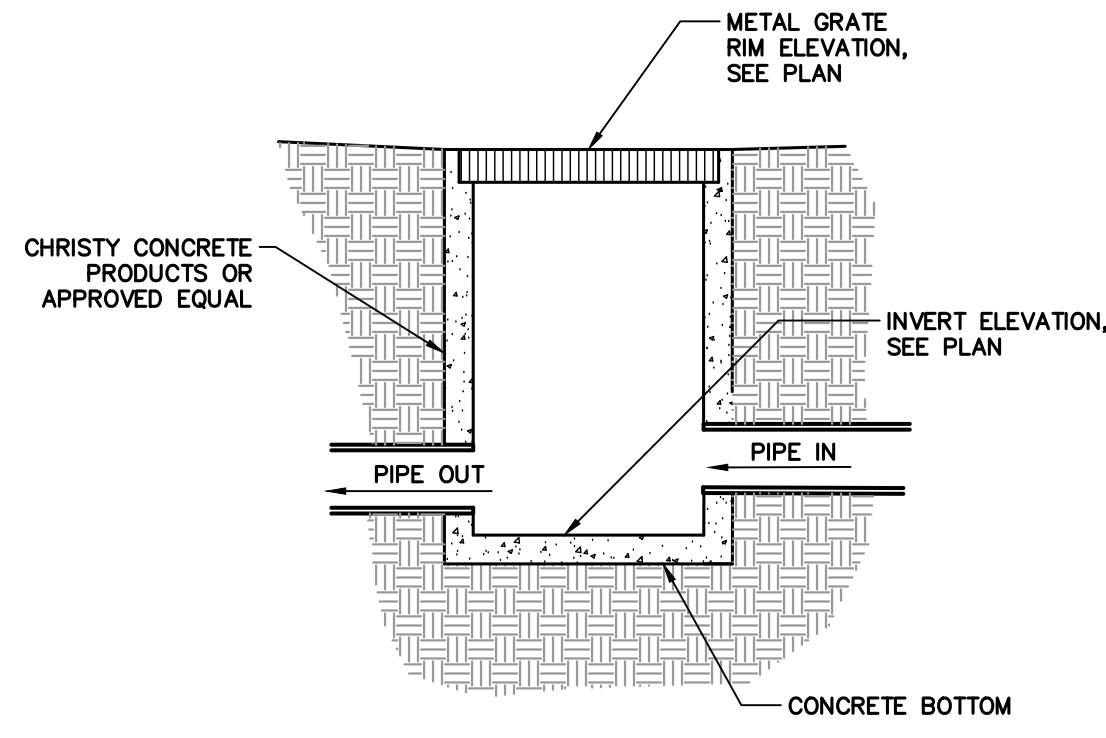
NEW ADU, DRIVEWAY, & SITE IMPROVEMENTS
FOR
AAMIR JAMIL
2700 PASEO ROBLES AVENUE
SAN MARTIN, CA 95046
APN # 825-29-008

SECTIONS (ADU)

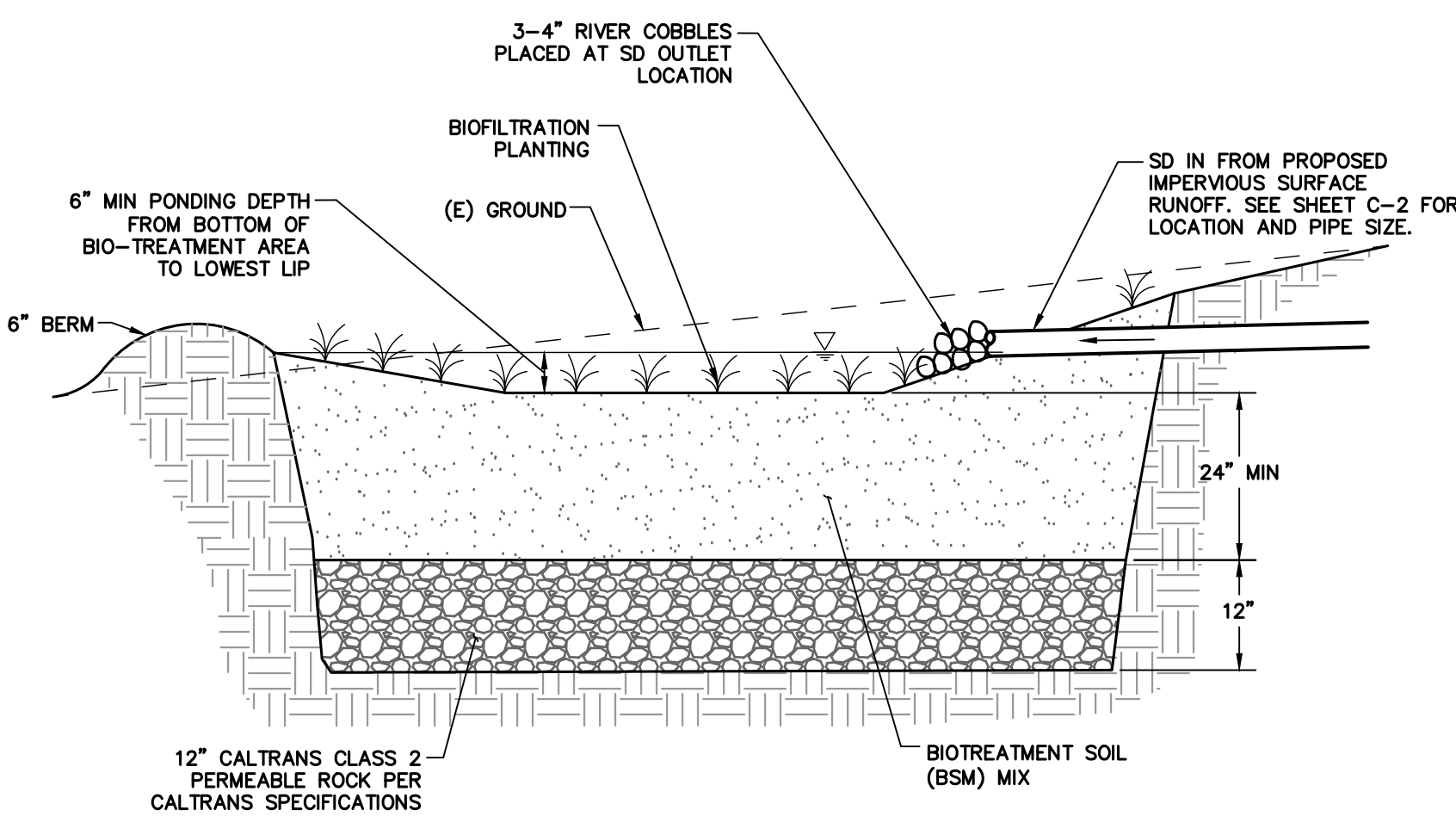
project no.	19-089-1
date	MAY 2021
scale	AS SHOWN
dwg name	CIVIL1.dwg

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TYPICAL CATCH BASIN DETAIL (1) C-7 NTS

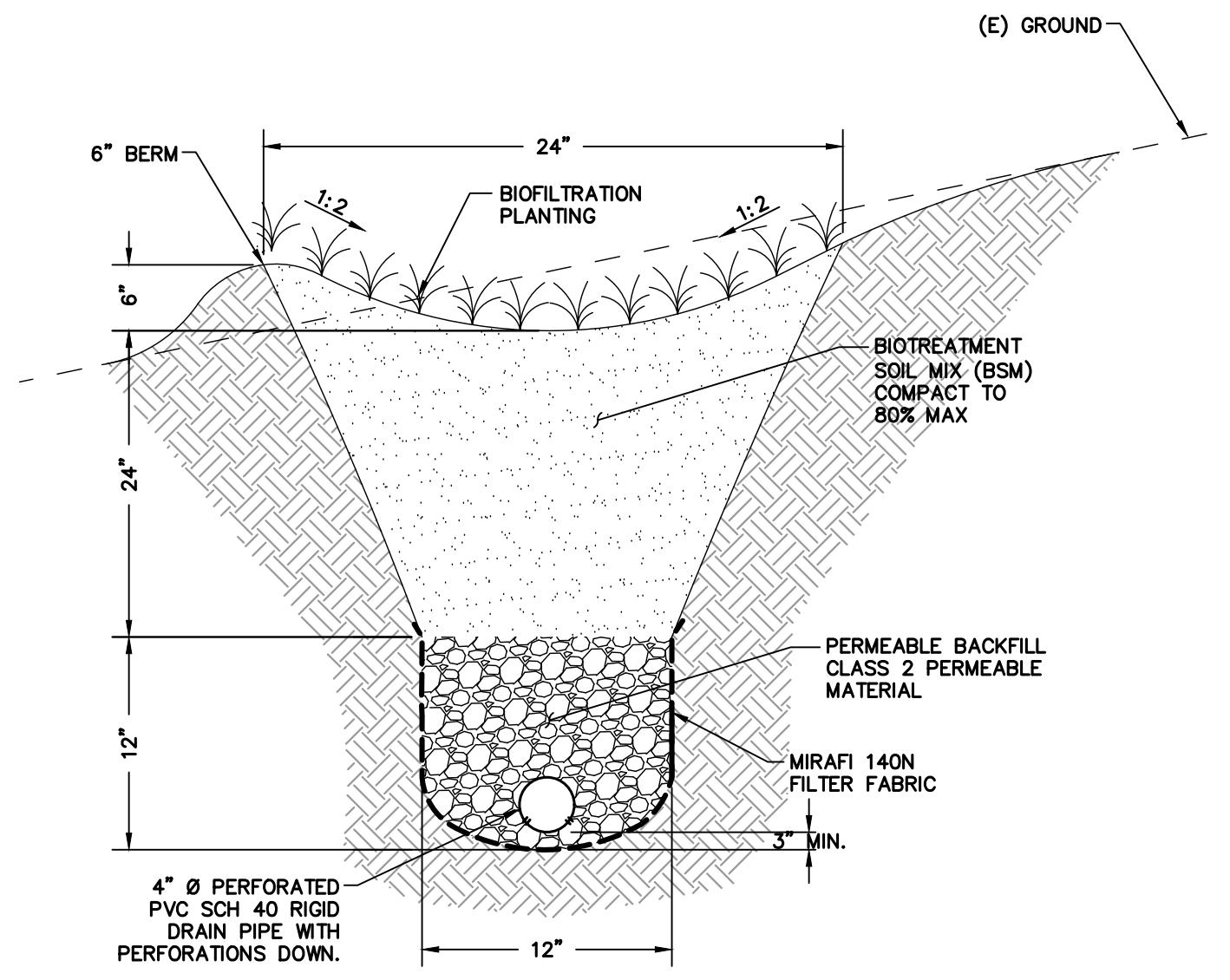


BIORETENTION FACILITY NOTES:

1. BIORETENTION SOIL MEDIA (BSM): MINIMUM INFILTRATION RATE 5 IN/HR. USE CONCRETE SAND (60-70%) MEETING ASTM C33 SPECIFICATIONS AND STABLE, WEED-FREE COMPOST (30-40%) MIXTURE.
2. SCARIFY SUBGRADE BEFORE INSTALLING BIORETENTION AREA AGGREGATE AND BSM.
3. COMPACT EACH 6" LIFT OF BSM WITH LANDSCAPE ROLLER OR BY LIGHTLY WETTING. IF WETTING, ALLOW TO DRY OVERNIGHT BEFORE PLANTING.
4. DO NOT WORK WITHIN BIORETENTION AREA DURING RAIN OR UNDER WET CONDITIONS.
5. KEEP HEAVY MACHINERY OUTSIDE BIORETENTION AREA LIMITS.

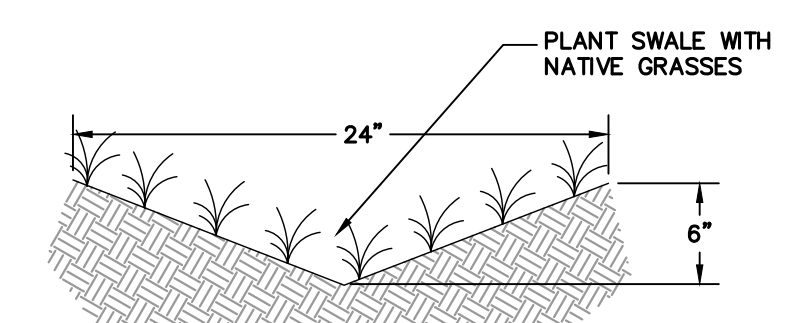
OPERATION AND MAINTENANCE

1. INSPECT BIORETENTION FACILITY PRIOR TO RAINY SEASON AND FOLLOWING HEAVY RAIN STORMS. REMOVE EXCESS SILT, DEBRIS, AND TRASH. ENSURE THE OUTLET STRUCTURE IS NOT CLOGGED WITH DEBRIS AND SILT. CLEANOUT AS NECESSARY. REPLACE ANY WASHOUTS OF RIPRAP PADS AT PIPE OUTLETS AS NECESSARY.

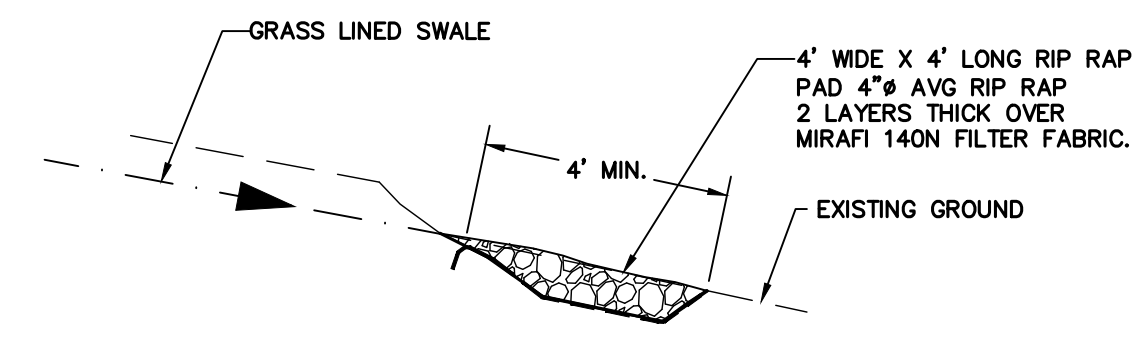


NOTE:

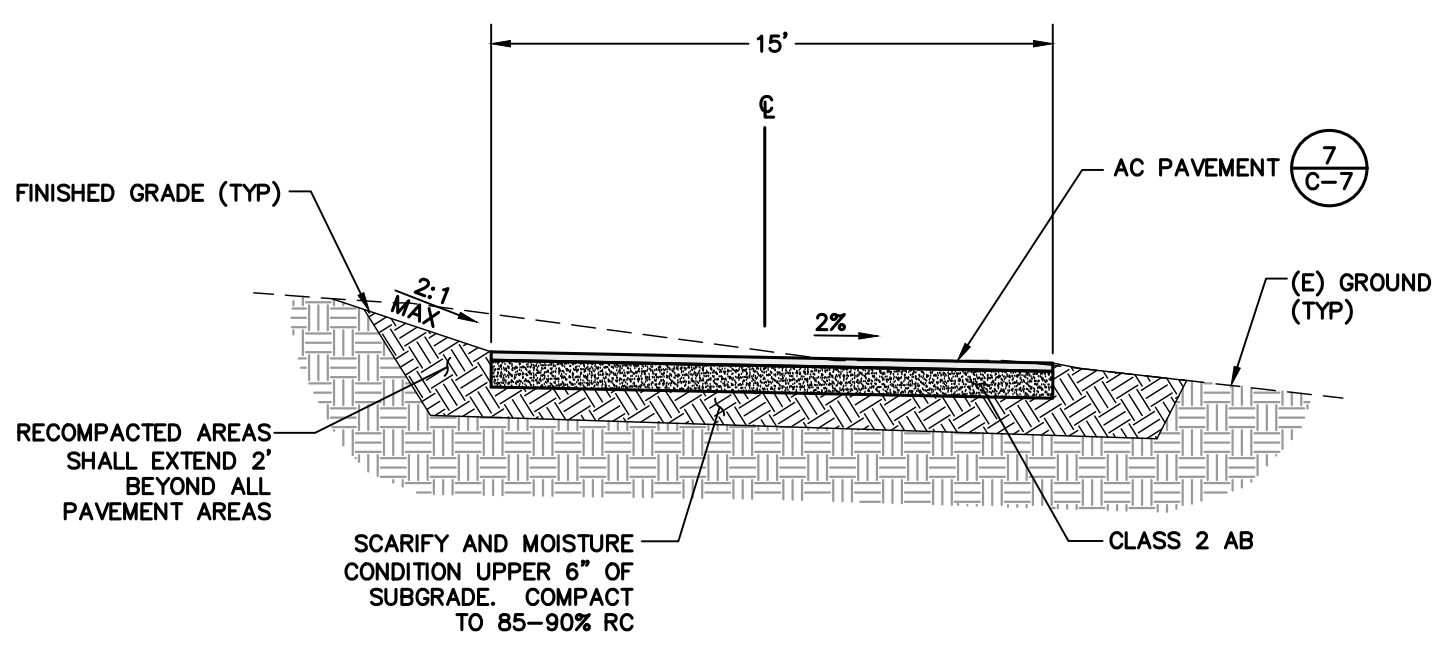
1. BIORETENTION SOIL MEDIA (BSM): MINIMUM INFILTRATION RATE 5 IN/HR. USE CONCRETE SAND (60-70%) MEETING ASTM C33 SPECIFICATIONS AND STABLE, WEED-FREE COMPOST (30-40%) MIXTURE.



GRASS LINED SWALE DETAIL (4) C-7 NTS

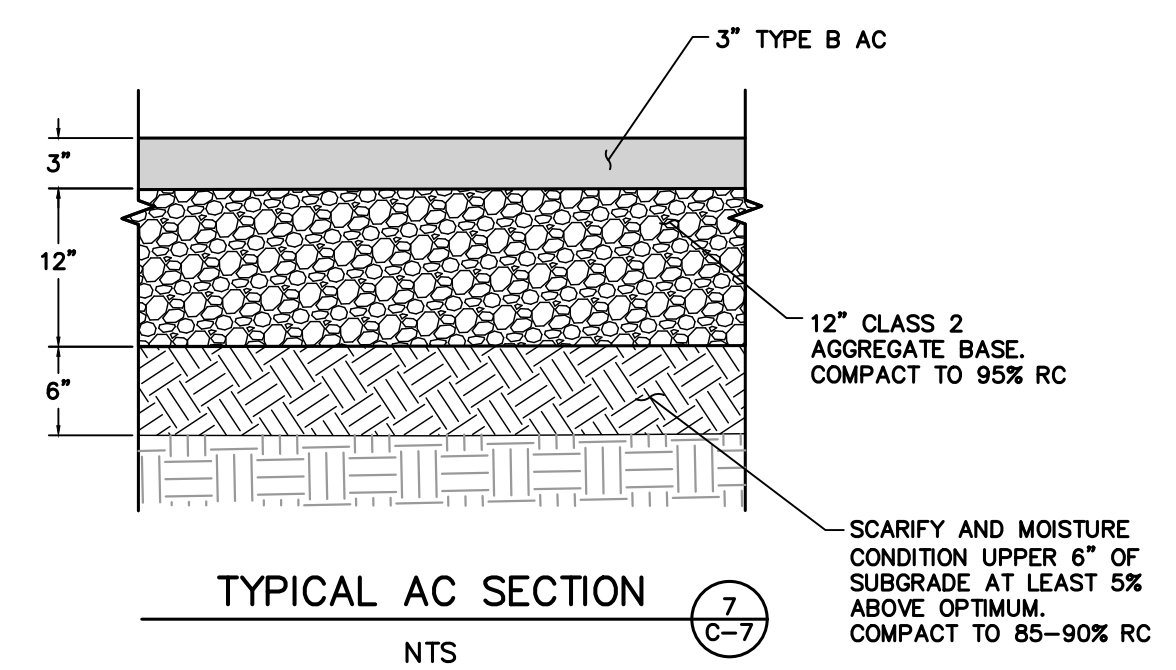


RIP RAP PAD DETAIL (5) C-7 NTS

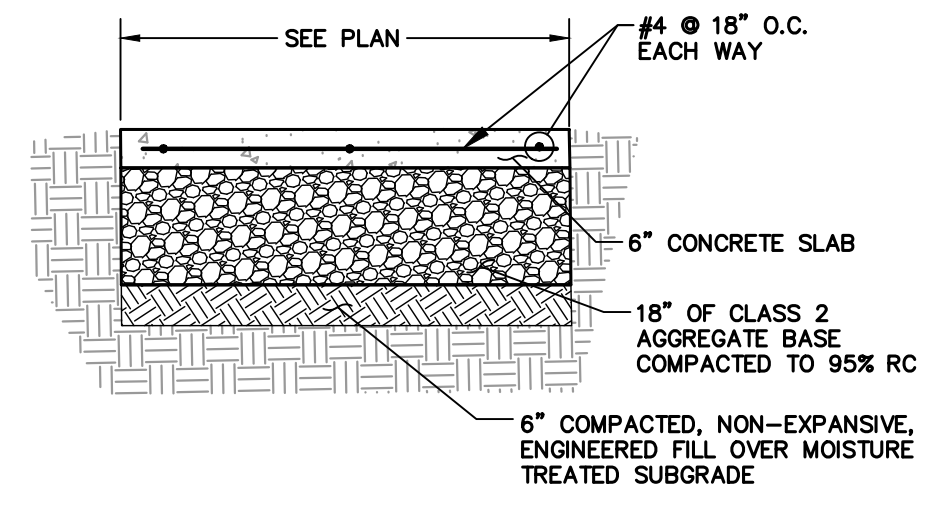


TYPICAL DRIVEWAY DETAIL (6) C-7 NTS

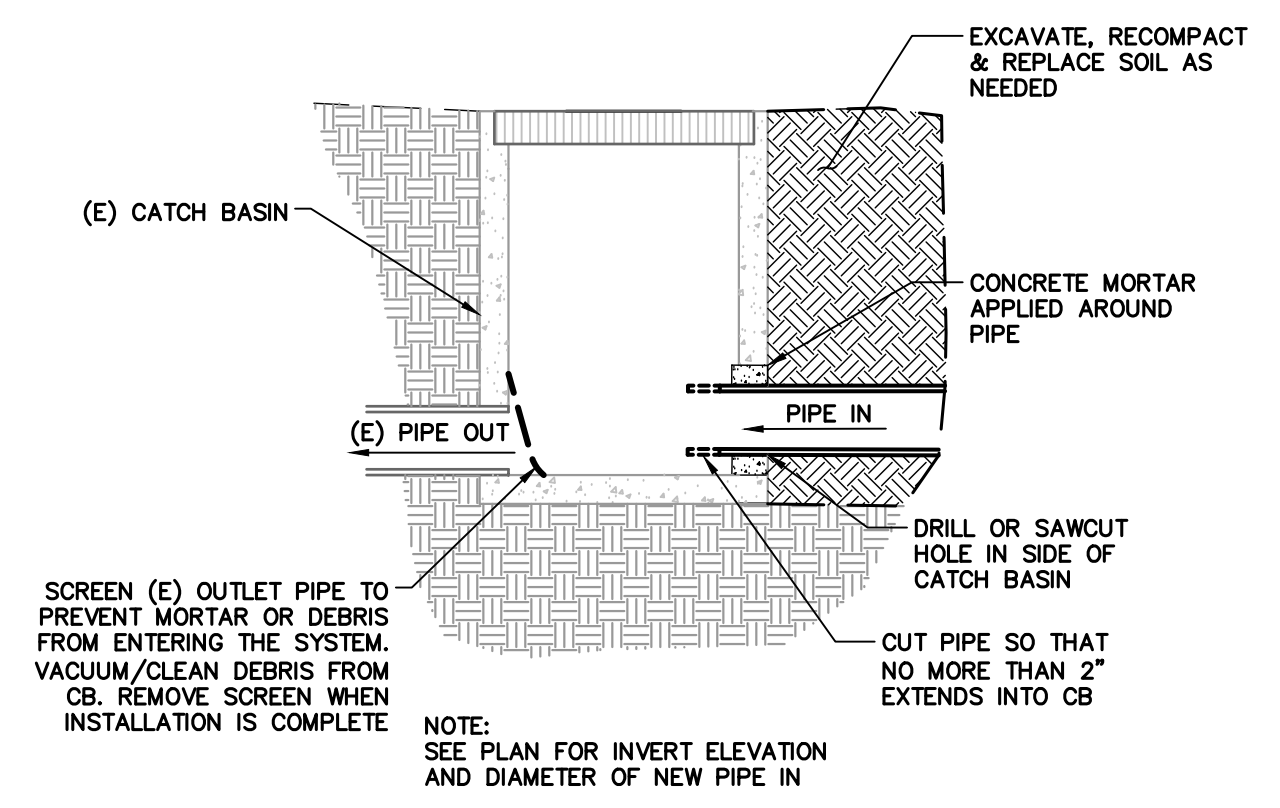
NOTE: DRIVEWAY TO BE MADE OF ALL WEATHER MATERIAL CAPABLE OF HOLDING 75,000 POUNDS.



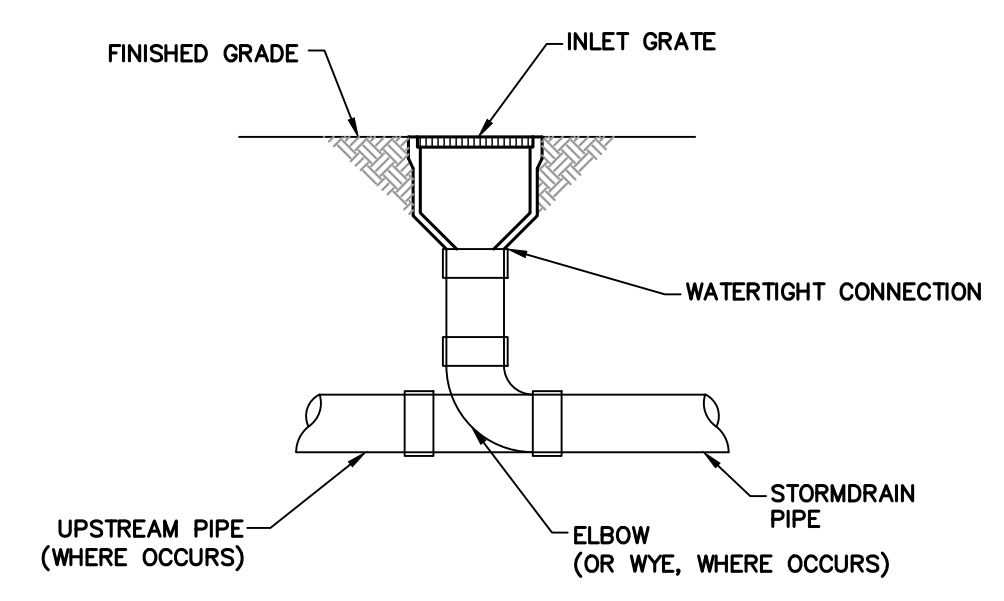
TYPICAL AC SECTION (7) C-7 NTS



CONCRETE WALKWAY DETAIL (8) C-7 NTS



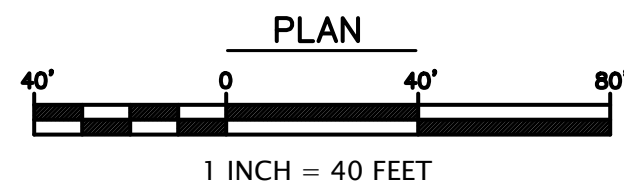
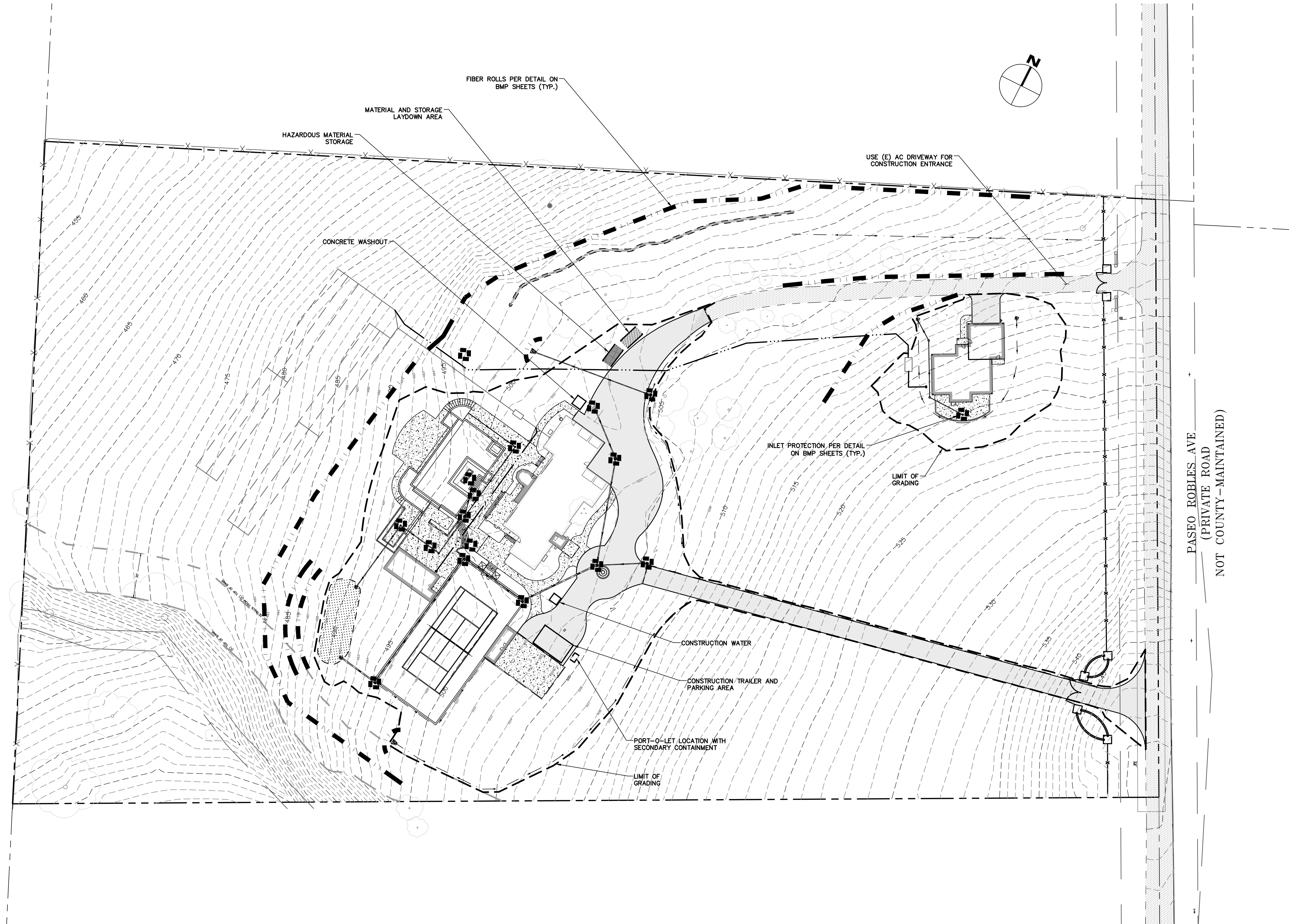
PROPOSED DRAIN CONNECTION TO (E) CATCH BASIN DETAIL (9) C-7 NTS



AREA DRAIN DETAIL (10) C-7 NTS

5/25/2021	
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NEW ADU, DRIVEWAY, & SITE IMPROVEMENTS FOR AAMIR JAMIL 2700 PASEO ROBLES AVENUE SAN MARTIN, CA 95046 APN # 825-29-008	DETAILS
project no. 19-089-1	
date MAY 2021	
scale AS SHOWN	
dwg name CIVIL1.dwg	

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EROSION CONTROL MEASURES

1. EROSION IS TO BE CONTROLLED AT ALL TIMES ALTHOUGH SPECIFIC MEASURES SHOWN. DURING THE PERIOD OF OCTOBER 15TH TO APRIL 15TH, SHOWN MEASURES SHALL BE INSTALLED BY THE TIME OF THE INITIAL "GRADE STAKE" INSPECTION.
2. ALL FILL SLOPES SHALL BE COMPACTED AND LEFT IN A SMOOTH FIRM CONDITION CAPABLE OF WITHSTANDING WEATHERING.
3. ALL DITCHES SHALL BE LINED WITH GRASS OR 4" HAND PLACED COBBLE
4. ALL EXPOSED DISTURBED AREAS SHALL BE SEEDED AT A RATE OF 5# BROME SEED PER 1000 SF. SEEDING AND WATERING SHALL BE MAINTAINED TO ENSURE GROWTH.
5. ALL STORM DRAINAGE STRUCTURES SHALL BE INSTALLED WITH EFFECTIVE ENTRANCE AND 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
6. PLANTING SHALL BE COMPLETED NOT MORE THAN 90 DAYS AFTER COMPLETION OF GRADING
7. THE DESIRED END RESULT OF THESE MEASURES IS TO CONTROL SITE EROSION AND PREVENT SEDIMENT TRANSPORT OFF THE SITE. IT SHALL BE THE DEVELOPER'S RESPONSIBILITY TO SEE THAT ANY ADDITIONAL MEASURES NECESSARY TO MEET THIS GOAL ARE IMPLEMENTED, IF FAILED INSPECTIONS BY COUNTY STAFF SHOW THIS GOAL IS NOT BEING MET, ADDITIONAL MEASURES MAY BE REQUIRED.
8. GRADING WORK BETWEEN OCTOBER 15 AND APRIL 15 IS AT THE DISCRETION OF THE SANTA CLARA COUNTY BUILDING OFFICIAL.
9. IN ADDITION TO NOTE 4 ABOVE, SLOPES GREATER THAN 15' VERTICAL HEIGHT SHALL BE PLANTED WITH SHRUBS IN 2 1/2" POTS OR LARGER, SPACED AT INTERVALS OF 10' OR LESS ON CENTERS, OR TREES HAVING A ONE GALLON MINIMUM SIZE AT 20' INTERVALS, OR A COMBINATION OF TREES AND SHRUBS AT A SPACING APPROPRIATE TO THE SPECIES. THE PLANS SELECTED AND THE PLANTING METHODS USED SHALL BE SUITABLE FOR THE SOIL AND CLIMATE CONDITIONS OF THE SITE.

EXPOSED SLOPE MEASURES

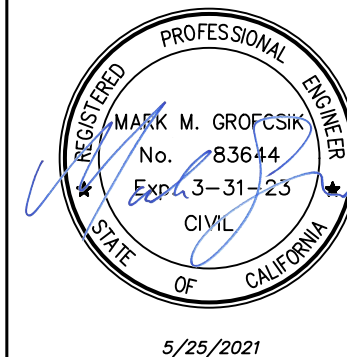
1. COVER ALL EXPOSED SLOPES
2. STRAW 2 TONS/ACRE ON SLOPES \leq 20% WITH SOIL BINDER
3. USE NORTH AMERICAN GREEN C125 OR EQUAL ON SLOPES $>$ 20%.

EROSION CONTROL LEGEND

- INSTALL FIBER ROLL PER DETAILS THIS SHEET
- INSTALL CATCH BASIN PROTECTION PER DETAIL THIS SHEET
- PROPOSED STAGING AREA
- PROPOSED STOCKPILE AREA

SWPPP NOTE

DISTURBED AREA $>$ 1 ACRE
SWPPP WILL BE APPLIED FOR WITH STATE WATER BOARD PRIOR TO BUILDING PERMIT ISSUANCE.

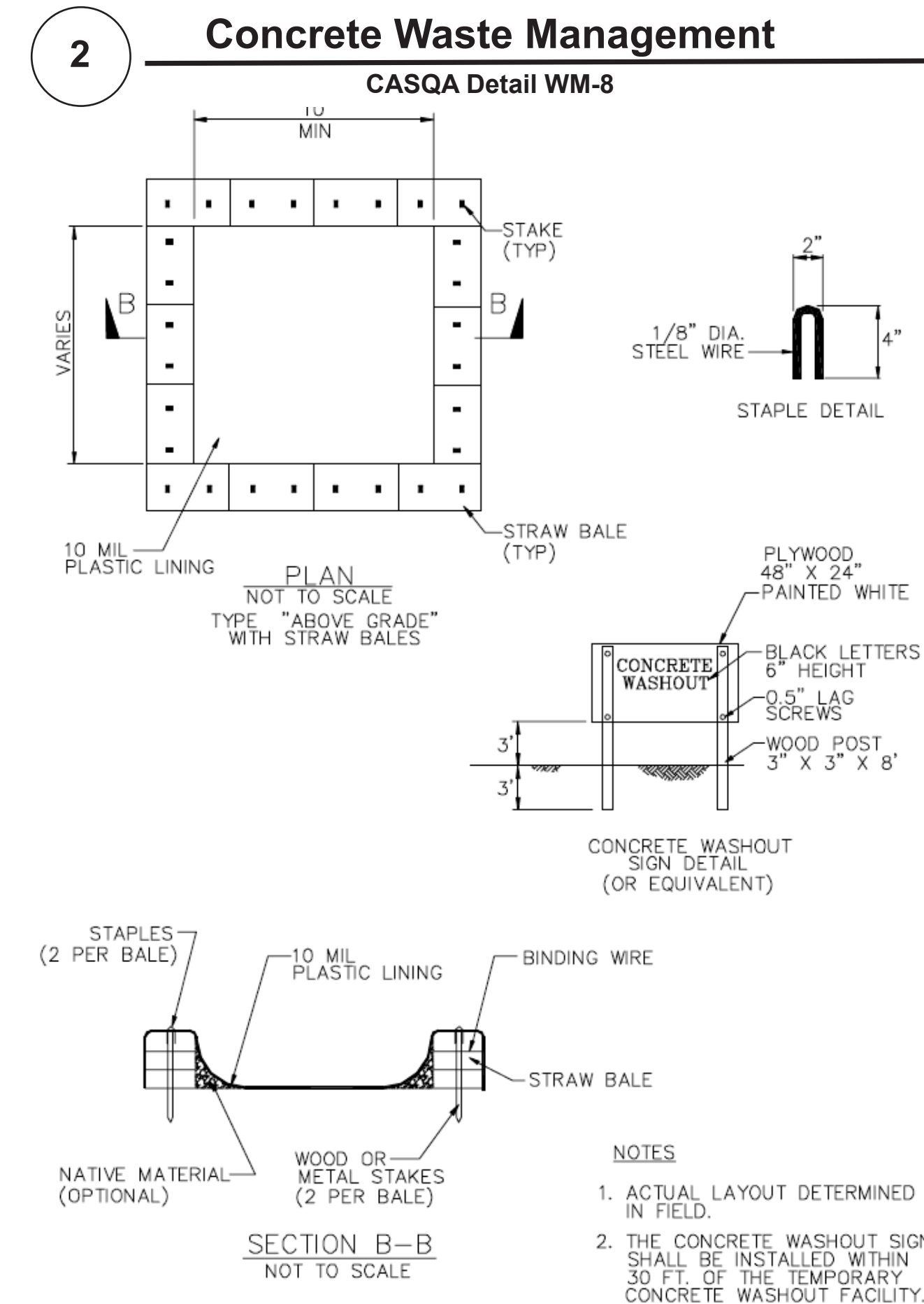
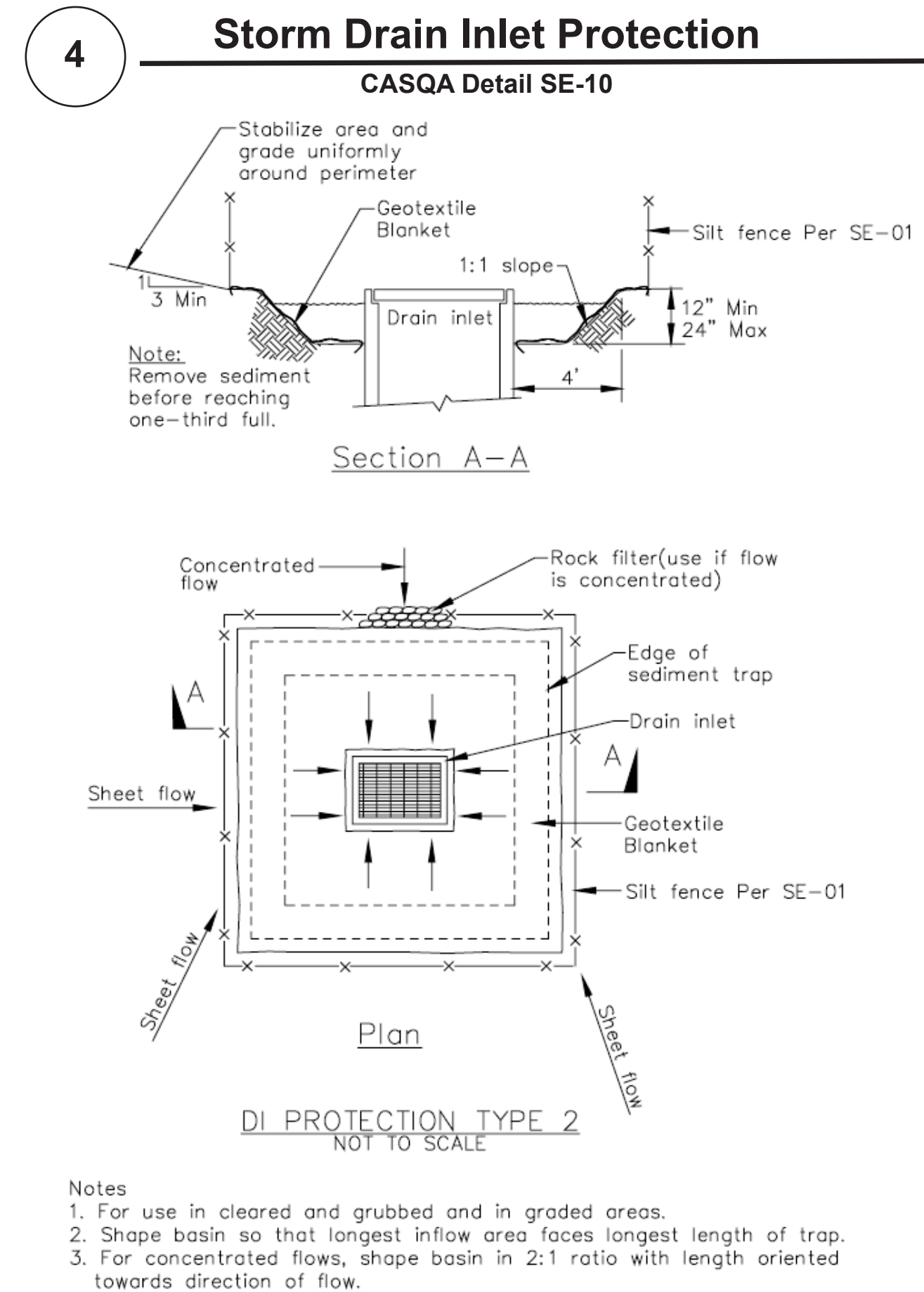
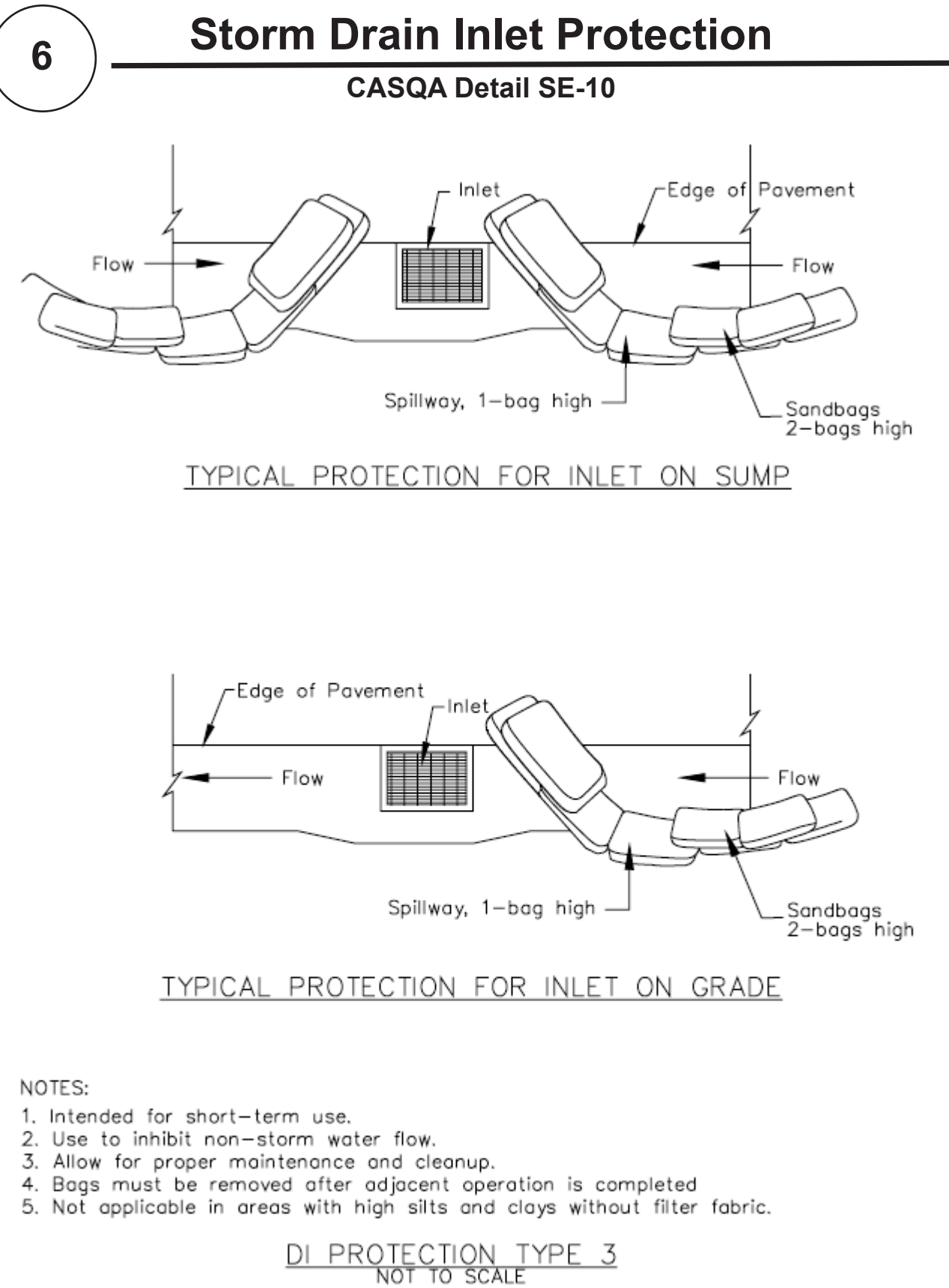
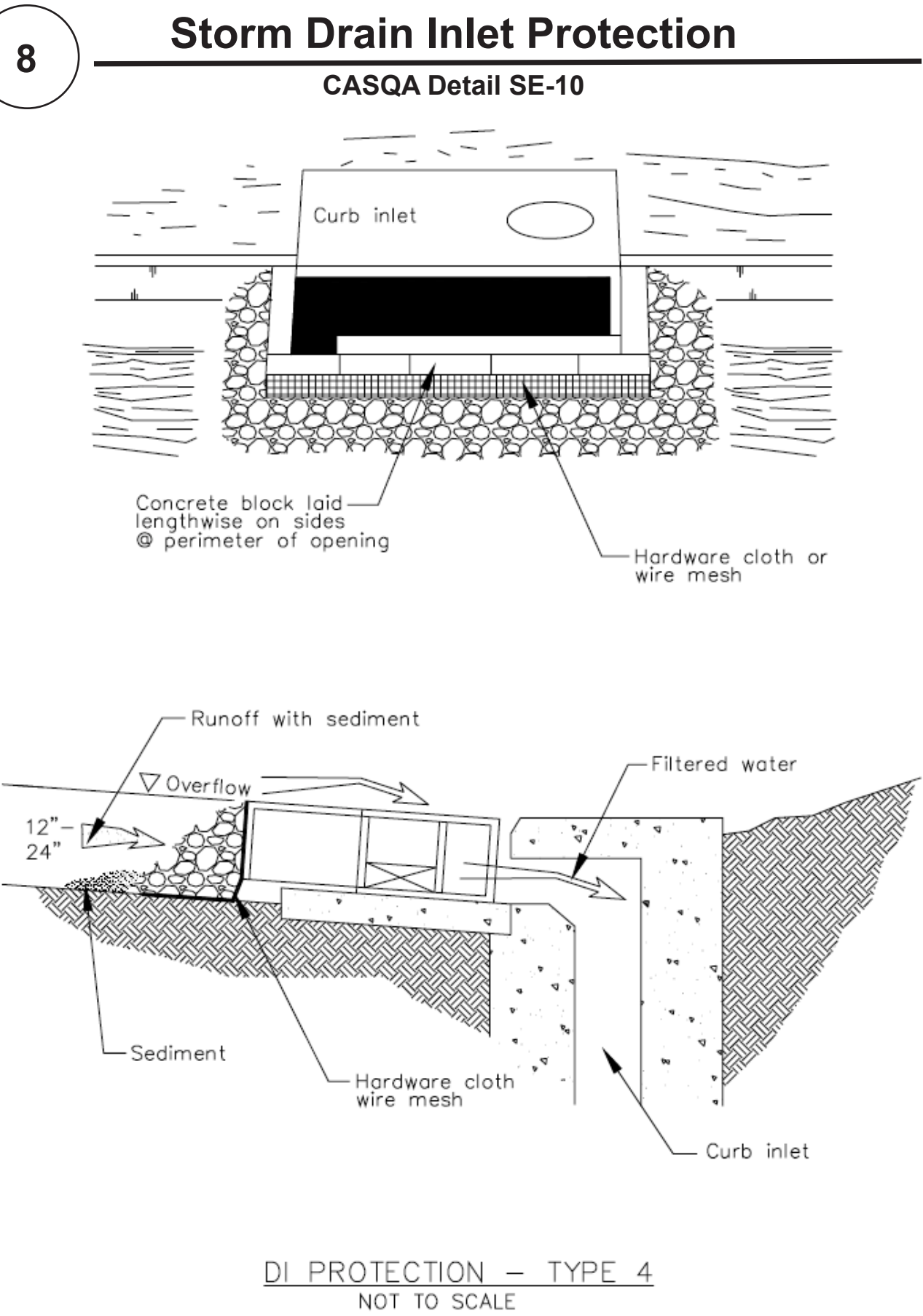
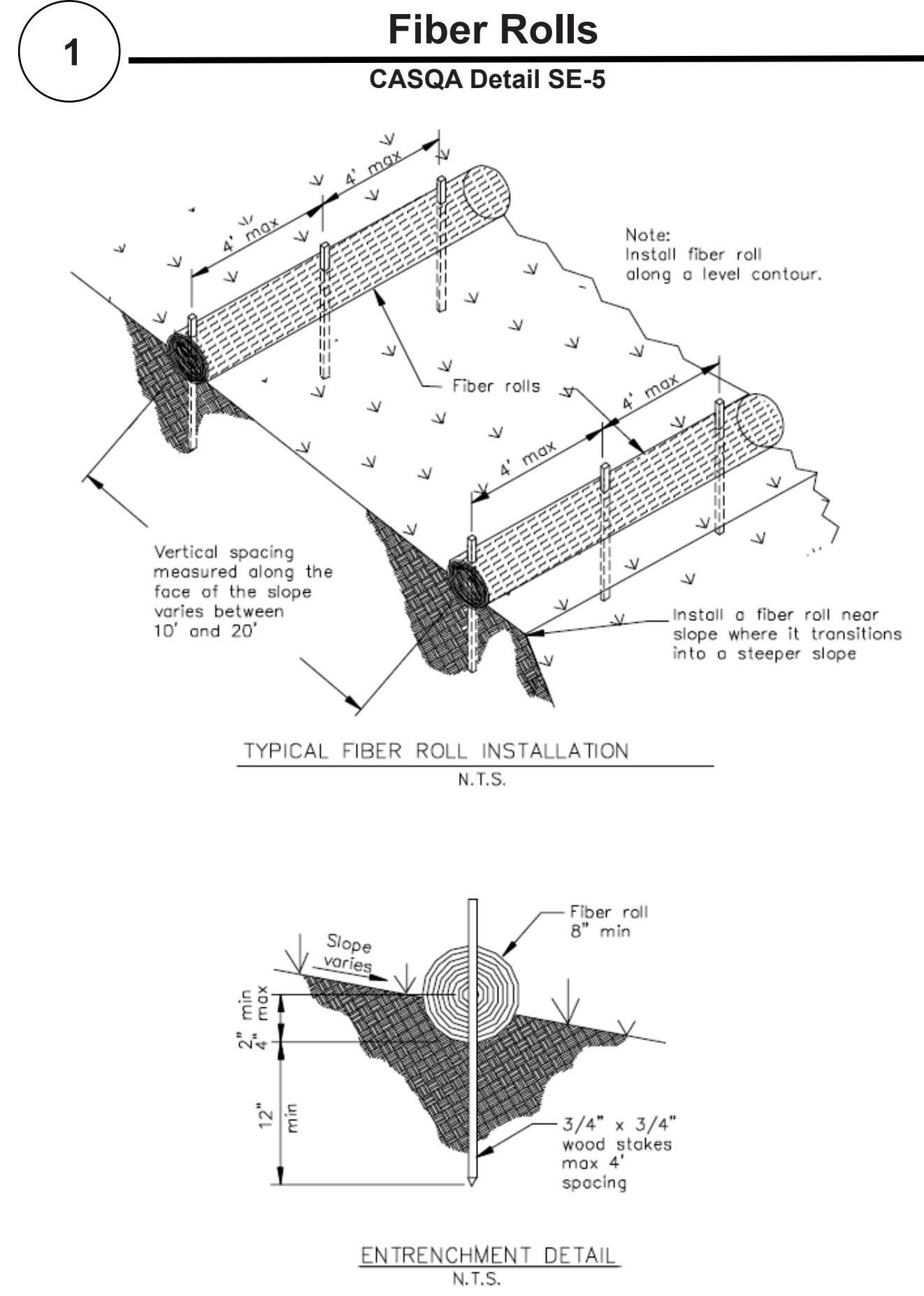
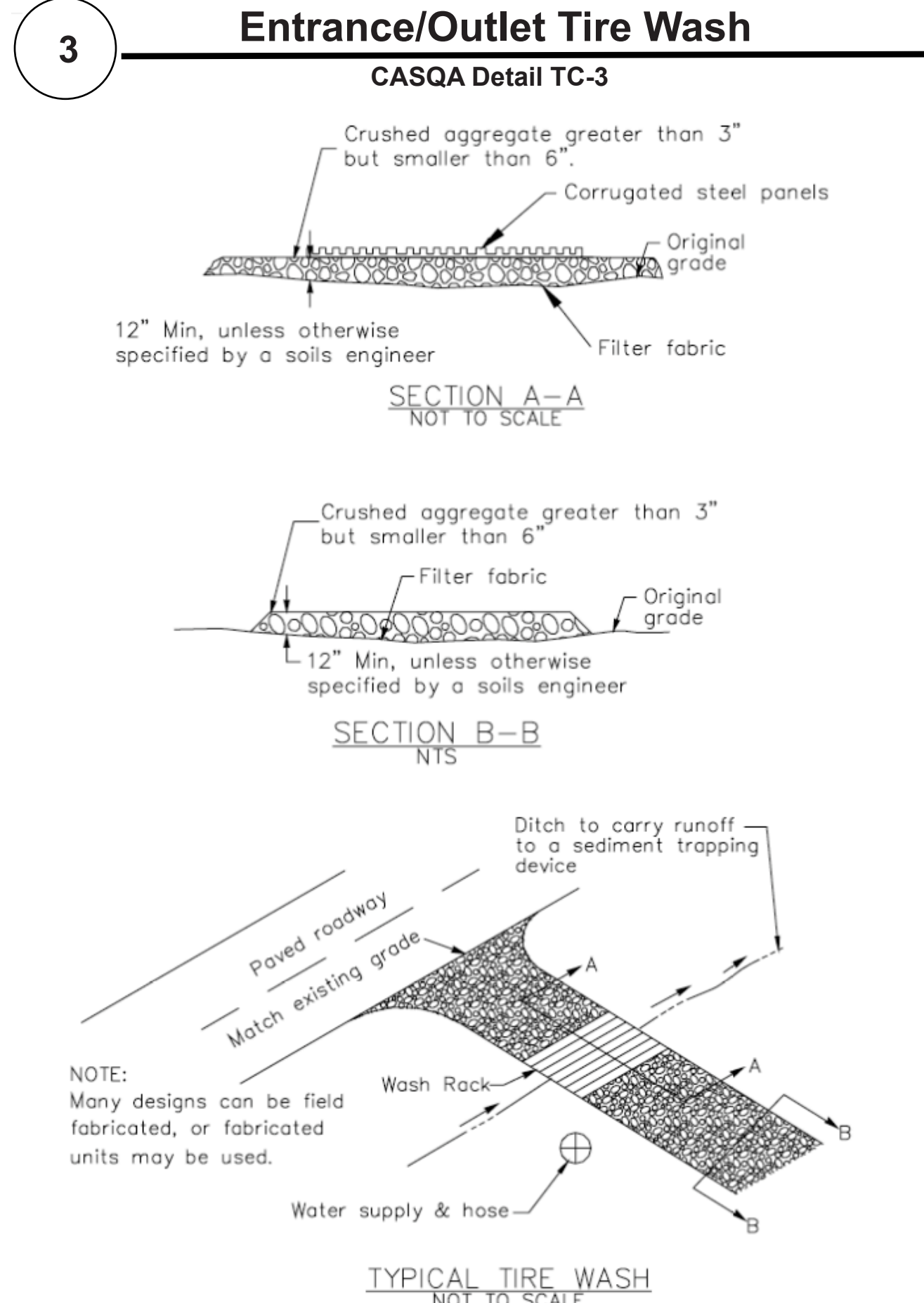
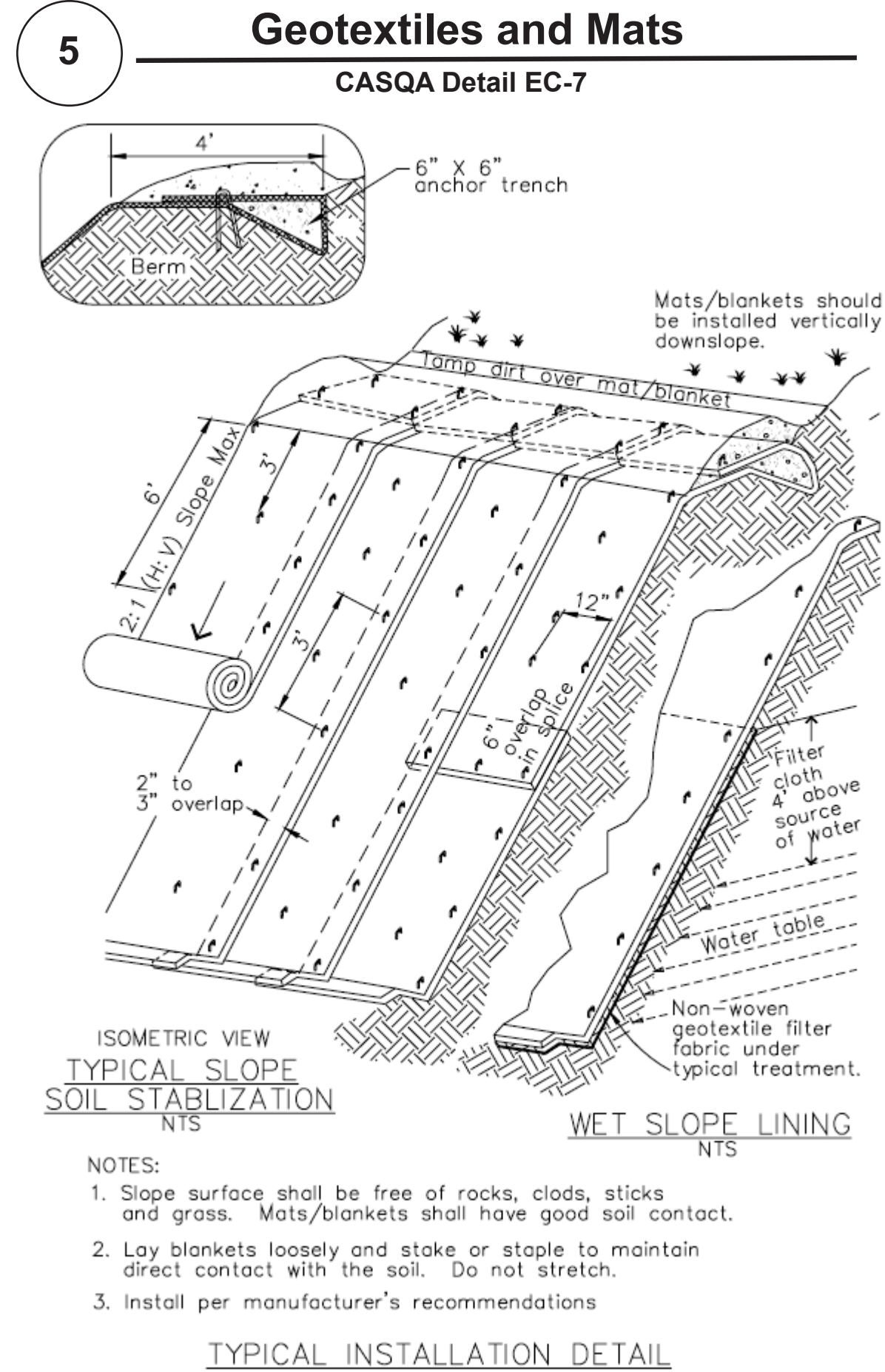
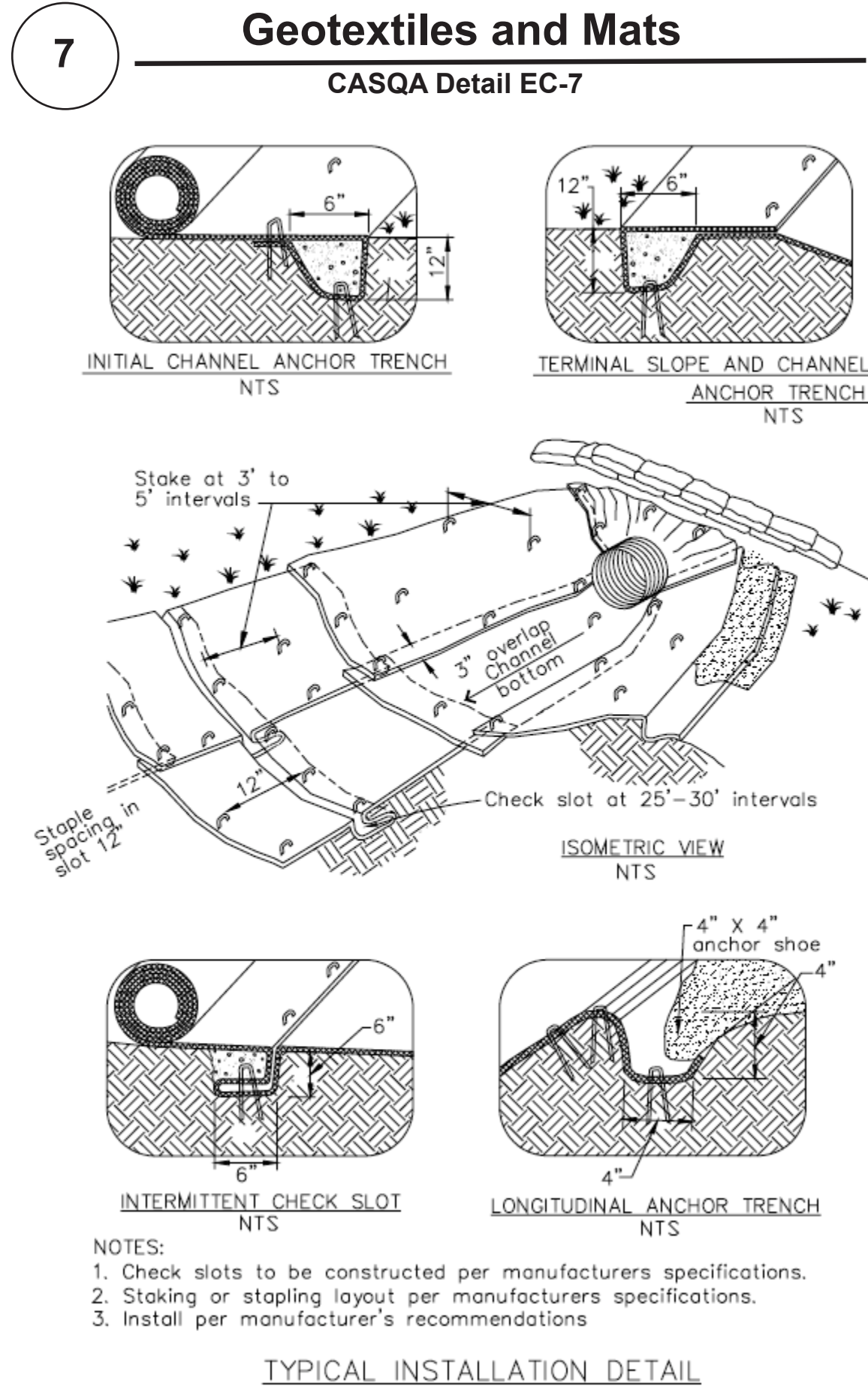


RI Engineering, Inc.
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FOR
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EROSION CONTROL PLAN

project no.
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CIVIL1.dwg

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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



BMP-2

APPLICANT: AAMIR JAMIL ROAD: PASEO ROBLES AVE COUNTY FILE NO: DEV20-1158

Project Information

RESIDENTIAL ADDITIONS

FOR

AAMIR JAMIL

2700 PASEO ROBLES AVE., SAN MARTIN, CA 95046

APN: 825-29-008

PROJECT #19-089-1