\sim IEPC STORMWATER REVIEW COMMENTS IN ORANGE BOXES WITH BLACK TEXT

ABBREVIATIONS

ARCH ARCHITECT

ASS'Y ASSEMBL'

BLVD BOULEVARD

ENGINEERS

BOX BASE

BOUNDARY

BOTTOM OF WALL

CURB & GUTTER CABLE TELEVISION

TRANSPORTATION

CONCRETE BOX CULVERT COLORADO DEPARTMENT OF

CUBIC FEET PER SECOND

CORRUGATED METAL PIPE

COMPLETE IN PLACE

CATCH BASIN

CUBIC FOOT

CENTER LINE

CFS

ALGEBRAIC DIFFERENCE

AMERICAN SOCIETY OF CIVIL

SADDLEHORN RANCH - FILING 4

LOCATED IN SECTION 3

TOWNSHIP 13 SOUTH, RANGE 64 WEST OF THE 6TH P.M., **EL PASO COUNTY, STATE OF COLORADO**

GRADING AND EROSION CONTROL PLANS



J·R ENGINEERING

 \circ

COUNTY ENGINEER/ECM ADMINISTRATOR

EL PASO COUNTY STATEMENT

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE

WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR

THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR

ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE

RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF

REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT

COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO

ENGINEER'S STATEMENT

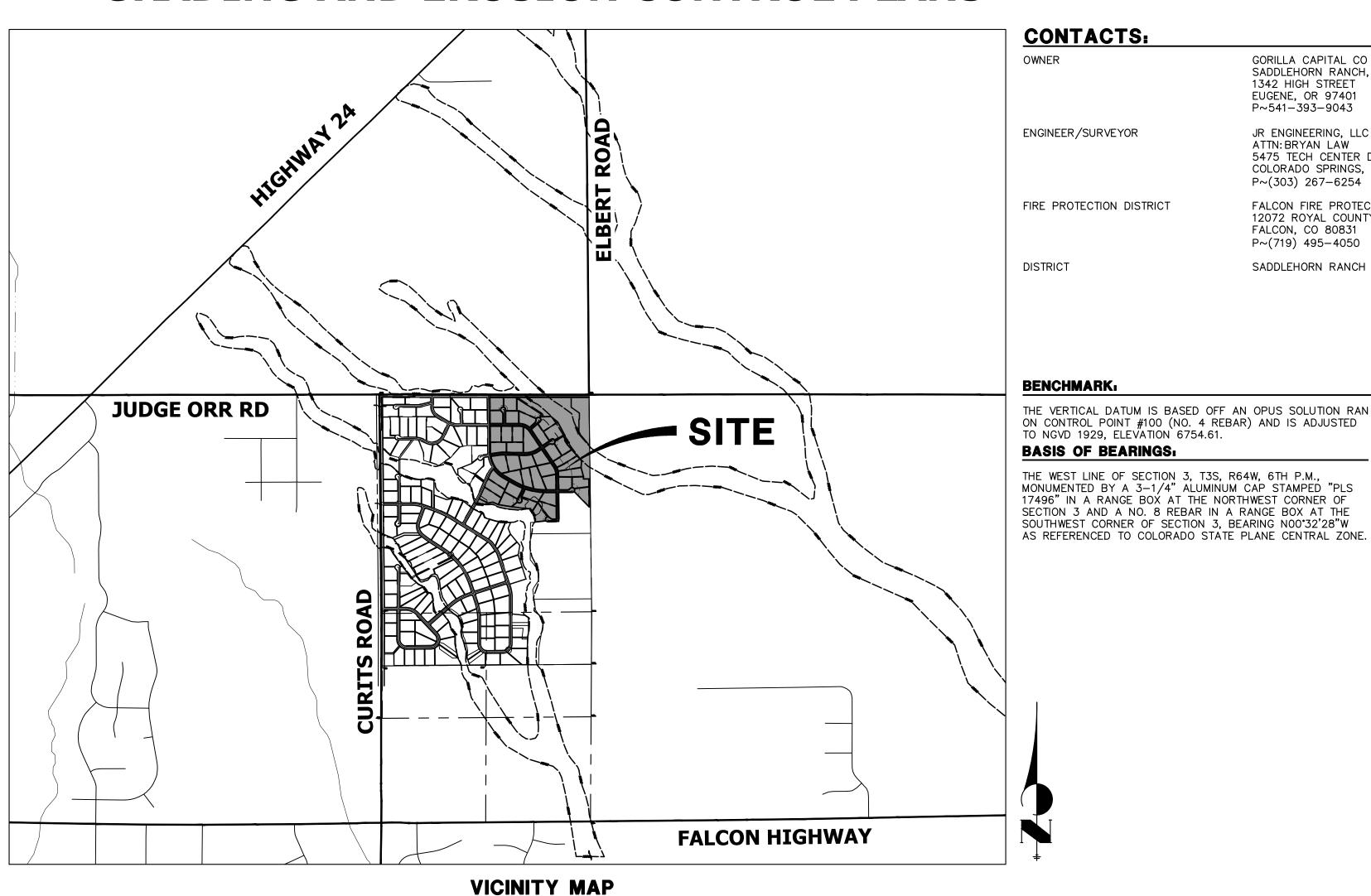
DOCUMENT.

DIRECTORS DISCRETION.

JOSHUA PALMER, P.E.

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLANS.

SHEET 1 OF 10 JOB NO. **25142.06**



SHEET INDEX

SCALE: 1" = 2000'

COVER SHEET LEGEND & NOTES TYPICAL SECTIONS

 OVERALL SITE MAP GRADING & EROSION CONTROL PLANS GRADING & EROSION CONTROL DETAILS

PROFESSIONAL ENGINEER CLEAN OUT POINT OF INTERSECTION CONC CONCRETE PKWY PARKWAY CR PROPERTY LINE CORRUGATED STEEL PIPE PROPOSED COLORADO SPRINGS UTILITIES POINT OF REVERSE CURVATURE POINT OF TANGENCY CTRB CONCRETE THRUST REDUCER PLUG VALVE BLOCK POLYVINYL CHLORIDE CUBIC YARD RADIUS DBPS DRAINAGE BASIN PLANNING RCBC REINFORCED CONCRETE BOX DRAINAGE EASEMENT REINFORCED CONCRETE PIPE DIAMETER ROAD RIGHT OF WAY DIP DUCTILE IRON PIPE RT **RIGHT** STEEL STE DWELLING UNITS SQUARE FOOT ENERGY GRADE LINE STORM SEWER SQUARE YARD EDGE OF ASPHALT SY-IN SQUARE YARD INCH TB THRUST BLOCK EPC EL PASO COUNTY ERCP ELLIPTICAL RCP TOP BACK OF CURB ESMT EASEMENT TOP BACK OF WALK EST **ESTIMATE** TELEPHONE ΕX EXISTING FINAL DEVELOPMENT PLAN TOP OF ASPHALT TOA FINAL DRAINAGE REPORT TOB TOP OF BOX TOC FES TOP OF CURB OR CONCRETE FLARED END SECTION FINISHED FLOOR ELEVATION TOP OF FOUNDATION TOP OF PIPE FINISHED GRADE TOP OF WALL FIRE HYDRANT FLOWLINE TYPICAL UDFCD URBAN DRAINAGE AND FLOOD FILING FO FIBER OPTIC CABLE CONTROL DISTRICT GB GRADE BREAK UTILITY EASEMENT U&DE UTILITY & DRAINAGE EASEMENT GAS EASEMENT GEOGRAPHIC INFORMATION UNDERGROUND ELECTRIC VCP VITRIFIED CLAY PIPE SYSTEM VERTICAL POINT OF CURVATURE GAS LINE GLOBAL POSITIONING SYSTEM VERTICAL POINT OF GATE VALVE INTERSECTION HOT BITUMINOUS PAVEMENT VERTICAL POINT OF TANGENCY HC VEHICLE TRACKING CONTROL HANDICAP HIGH DEFLECTION COUPLING WEST HIGH DENSITY POLYETHYLENE WATER LINE HYDRAULIC GRADE LINE WATER MAIN HOT MIX ASPHALT WATER RESOURCES HOA HOME OWNERS ASSOCIATION DEPARTMENT HIGH POINT WATER SURFACE HR WATER SURFACE ELEVATION HOUR

WTR WATER

YEAR

YR

INTERSECTION

IRRIGATION

LINEAR FOOT

LOW POINT

LUMP SUM LEFT

MAXIMUM

MANHOLE

LOMR LETTER OF MAP REVISION

MOISTURE DENSITY

MDDP MASTER DEVELOPMENT

DRAINAGE PLAN

MOUNTABLE SIDEWALK

NRCP NON-REINFORCED CONCRETE

OVERHEAD ELECTRIC

POINT OF CURVATURE

POINT OF COMPOUND

POINT OF CURB RETURN

PRELIMINARY DEVELOPMENT

OVERHEAD UTILITY

OFFICIAL DEVELOPMENT PLAN

KICK (THRUST) BLOCK

LANDSCAPE EASEMENT

INVERT

POUND

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

IRRIGATION EASEMENT

OWNER/DEVELOPER STATEMENT

THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

JOHN HELMICK GORILLA CAPITAL CO SADDLEHORN RANCH, LLC PCD FILE NO. XXX-XX-XXX GORILLA CAPITAL C

EUGENE, OR 97401

DATE

SADDLEHORN RANCH, LLC

5475 TECH CENTER DRIVE, SUITE 235

COLORADO SPRINGS, CO 80919

12072 ROYAL COUNTY DOWN ROAD

SADDLEHORN RANCH METRO DISTRICT

1342 HIGH STREET

EUGENE, OR 97401

P~541-393-9043

ATTN: BRYAN LAW

P~(303) 267-6254

FALCON, CO 80831

P~(719) 495-4050

JR ENGINEERING, LLC

COLORADO P.E. 25043

BRYAN T. LAW, P.E. FOR AND ON BEHALF OF JR ENGINEERING, LLC

LAYER LINETYPE LEGEND **GRADING AND EROSION CONTROL STANDARD NOTES** UTILITIES LEGEND EXISTING **PROPOSED** EXISTING PROPOSED 1. CONSTRUCTION MAY NOT COMMENCE UNTIL A CONSTRUCTION PERMIT IS OBTAINED FROM PLANNING AND COMMUNITY DEVELOPMENT AND A PRECONSTRUCTION CONFERENCE IS HELD WITH PLANING AND COMMUNITY DEVELOPMENT INSPECTIONS. PHASE LINE STORM SEWER 2. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, MATCH LINE CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER **MANHOLE** THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS. SECTION LINE STORM INLET BOUNDARY LINE NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND PROPERTY LINE AREA INLET - SQUARE REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE EASEMENT LINE AREA INLET - ROUND CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED. AND RIGHT OF WAY FLARED END SECTION R.O.W. A LINE 4. A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE CENTERLINE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED CITY LIMITS EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD. WIRE FENCE ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL CHAIN LINK FENCE SANITARY SEWER THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A WOOD FENCE PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY LINE MARKER Mkr San^C CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH MASONRY FENCE SERVICE MARKER GUARDRAIL CLEAN-OUT CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS CONC. BARRIER TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE MANHOLE W/ DIRECTIONAL INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE. CABLE TV FLOW ARROW 7. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE ELECTRIC OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION WATER LINE FIBER OPTIC IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE LINE MARKER GAS MAIN CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION SERVICE MARKER CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN. IRRIGATION MAIN FIRE HYDRANT OIL/PETRO. MAIN TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS. FIRE CONNECTION OVERHEAD UTILITY MANHOLE 9. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED SANITARY SEWER WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM BEND STORM DRAIN VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION BLOW-OFF VALVE TELEPHONE CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE. WELL WATER MAIN 10. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY RAW WATER LINE METER PROPOSED CHANGES THAT AFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION. SWALE/WATERWAY FLOWLINE VALVE 11. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL **REDUCER** EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO DIVERSION DITCH THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. THRUST BLOCK DIVERSION CHANNEL PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE CROSS STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED. MAJOR DRAINAGE BASIN PLUG W/ THRUST BLOCK MINOR DRAINAGE BASIN 12. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES TEE TOP OF SLOPE SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF REVERSE ANCHOR COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND TOE OF SLOPE VEGETATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S). ANODE EDGE OF WATER 13. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND. AIR & VACUUM THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION INDEX CONTOUR VALVE ASSEMBLY AND THE DISCHARGE OF SEDIMENT OFF SITE. **TRANSMISSION** INTERMEDIATE CONTOUR 14. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER BLOW-OFF ASSEMBLY SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS. INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GAS LINE GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM. MARKER DEPRESSION CONT. (INTER) 15. DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE. SERVICE MARKER TOP OF CUTS 16. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1. TOE OF FILLS VALVE 17. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN CUT AND FILL LINE ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING PLUG ______ SF _____ SF ____ SF ___ SF ____ SF ___ SF ____ SF ___ SF ____ SF ___ SF __ SF ___ SF ___ SF __ SF ___ SF __ SF ___ SF __ SF ___ SF __ SF ___ SF __ SF __ SF ___ SF __ SF __ SF __ SF ___ SF __ SILT FENCE MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE. TEE 100 YEAR FLOODPLAIN 18. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, DRY UTILITIES 500 YEAR FLOODPLAIN UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES. CABLE TV MARKER FLOODWAY 19. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE BASE FLOOD ELEVATION CABLE TELEVISION PEDESTAL **^** CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY. ELECTRIC MARKER EDGE OF WETLANDS 20. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, ELECTRIC SERVICE MARKER SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE STONE WALL SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT. ELECTRICAL PEDESTAL 1.00%_ 21. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT STORMWATER FLOW ARROWS ELECTRICAL METER QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE ELECTRICAL MANHOLE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS. FIBER-OPTIC MARKER 22. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS IRRIGATION PEDESTAL PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED. TELEPHONE MARKER Mkr TO 23. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS TELEPHONE PEDESTAL SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY TELEPHONE MANHOLE SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER UTILITY POLE 24. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH **GUY ANCHOR** APPROVED SEDIMENT CONTROL MEASURES. GUY POLE 25. OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY. 26. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS. 27. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES. 28. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED

TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

WATER QUALITY CONTROL DIVISION

4300 CHERRY CREEK DRIVE SOUTH

WQCD - PERMITS

DENVER, CO 80246-1530 ATTN: PERMITS UNIT

29. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. ON APRIL 24, 2020 AND SHALL

30. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR

STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS

BE CONSIDERED A PART OF THESE PLANS. THIS REPORT CAN BE FOUND IN PCD FILE NO: SP-19-006.

December 5th, per the Soils & Geology Report cover sheet.

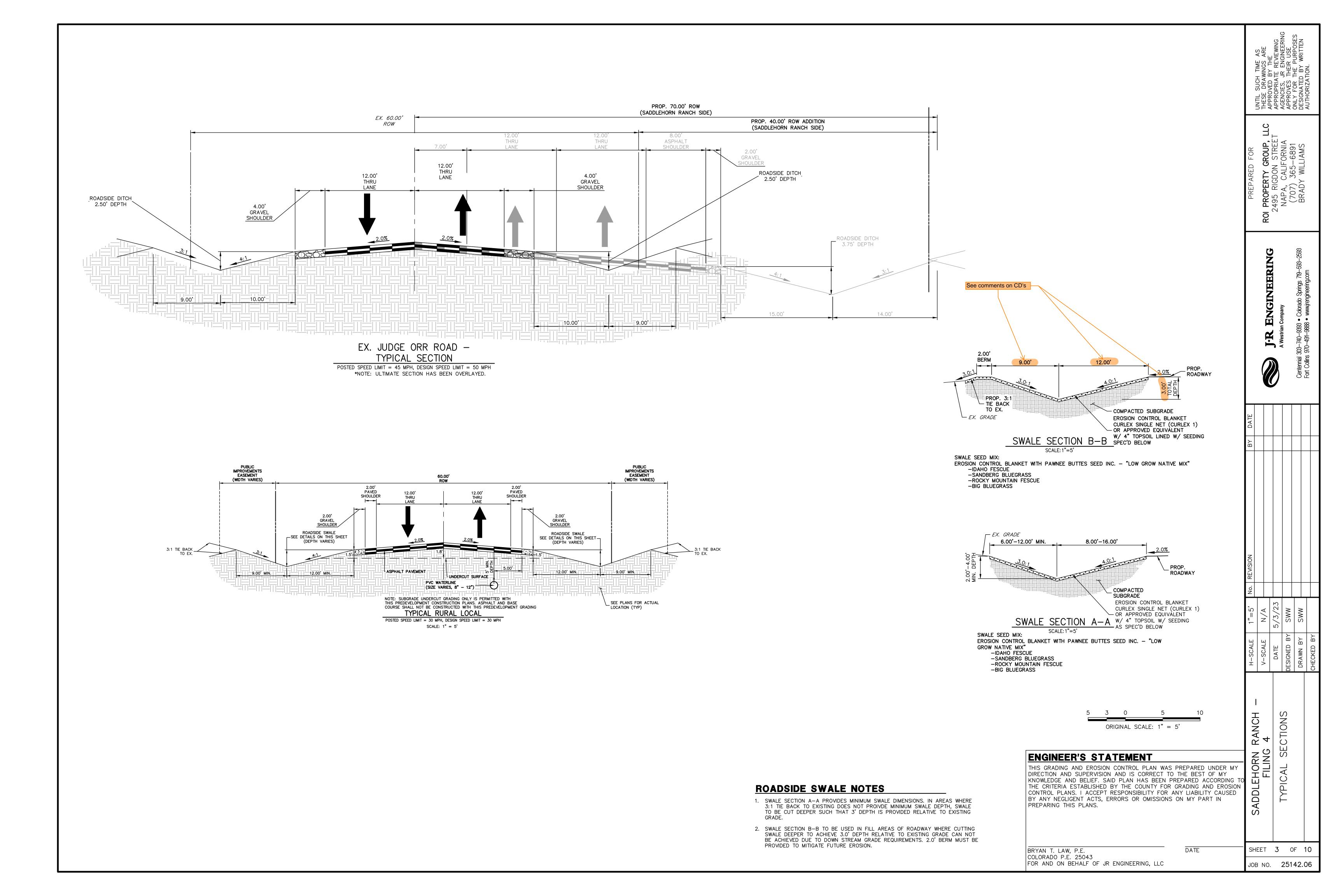
ENGINEER'S STATEMENT

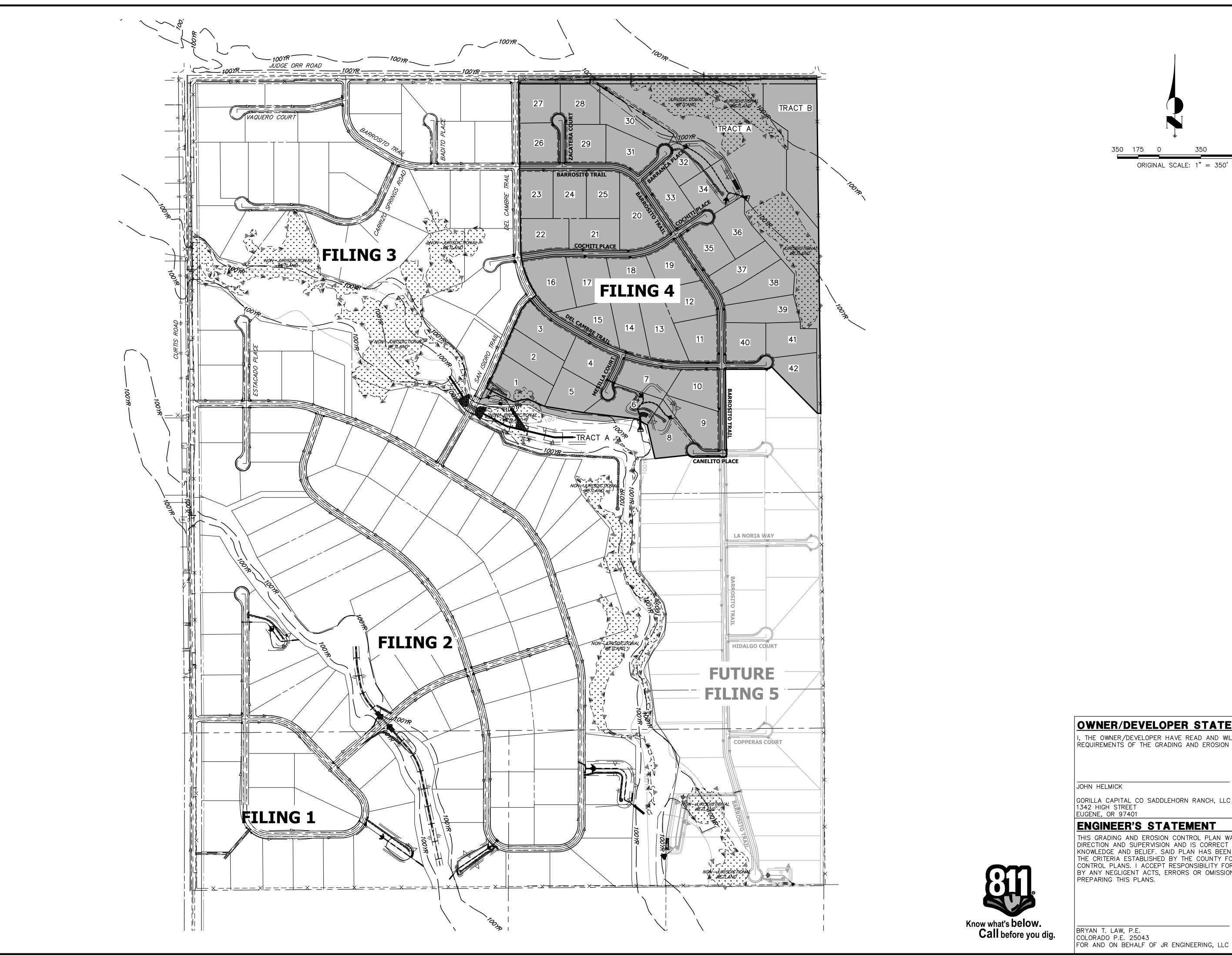
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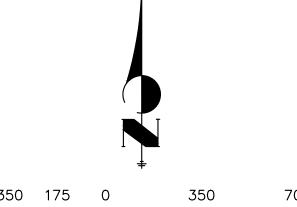
BRYAN T. LAW, P.E.

COLORADO P.E. 25043
FOR AND ON BEHALF OF JR ENGINEERING, LLC

JOB NO. 25142.06







OWNER/DEVELOPER STATEMENT

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

GORILLA CAPITAL CO SADDLEHORN RANCH, LLC 1342 HIGH STREET EUGENE, OR 97401 **ENGINEER'S STATEMENT**

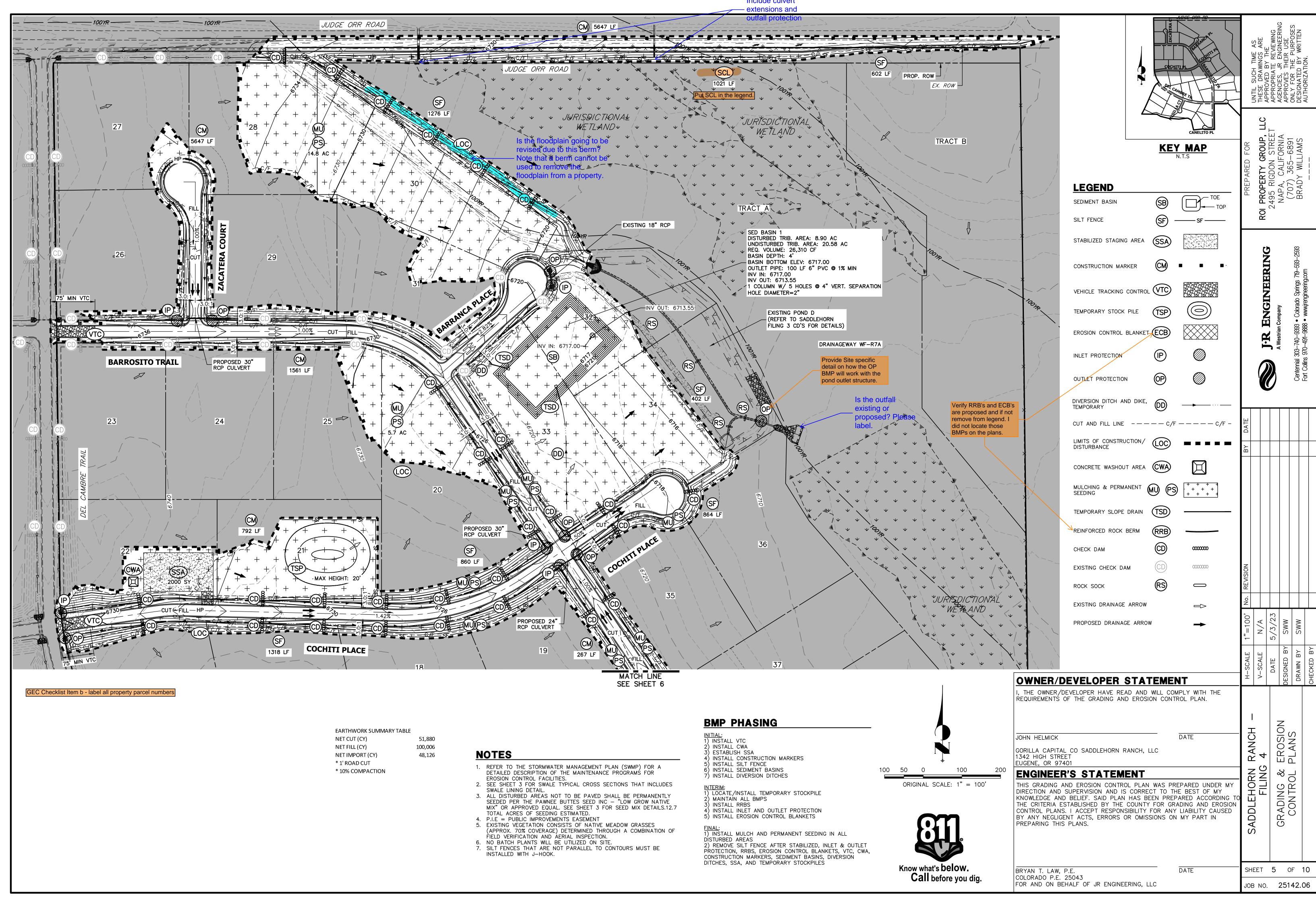
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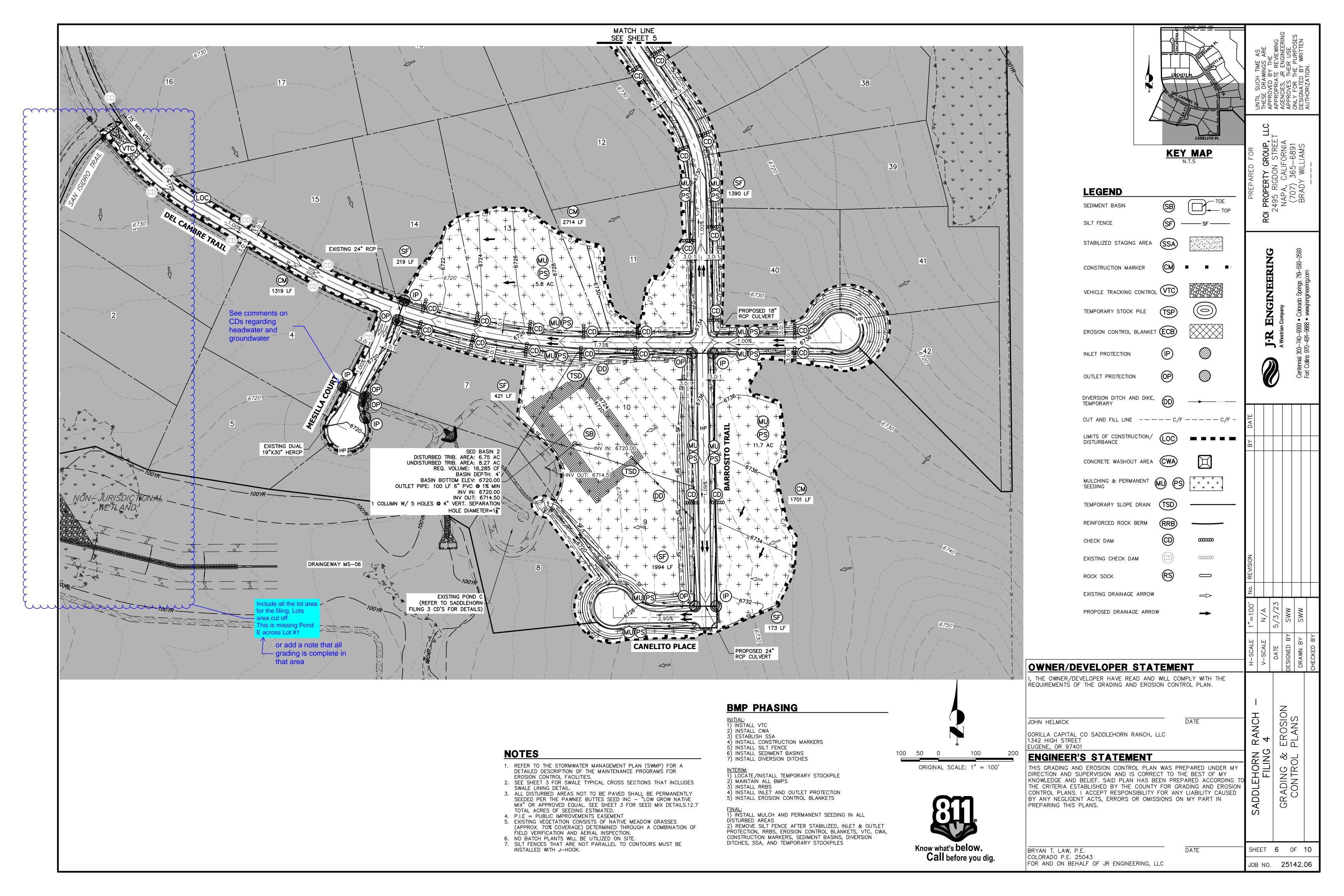
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BRYAN T. LAW, P.E.	
COLORADO P.E. 25043	
FOR AND ON BEHALF OF JR ENGINEERING, LLC	

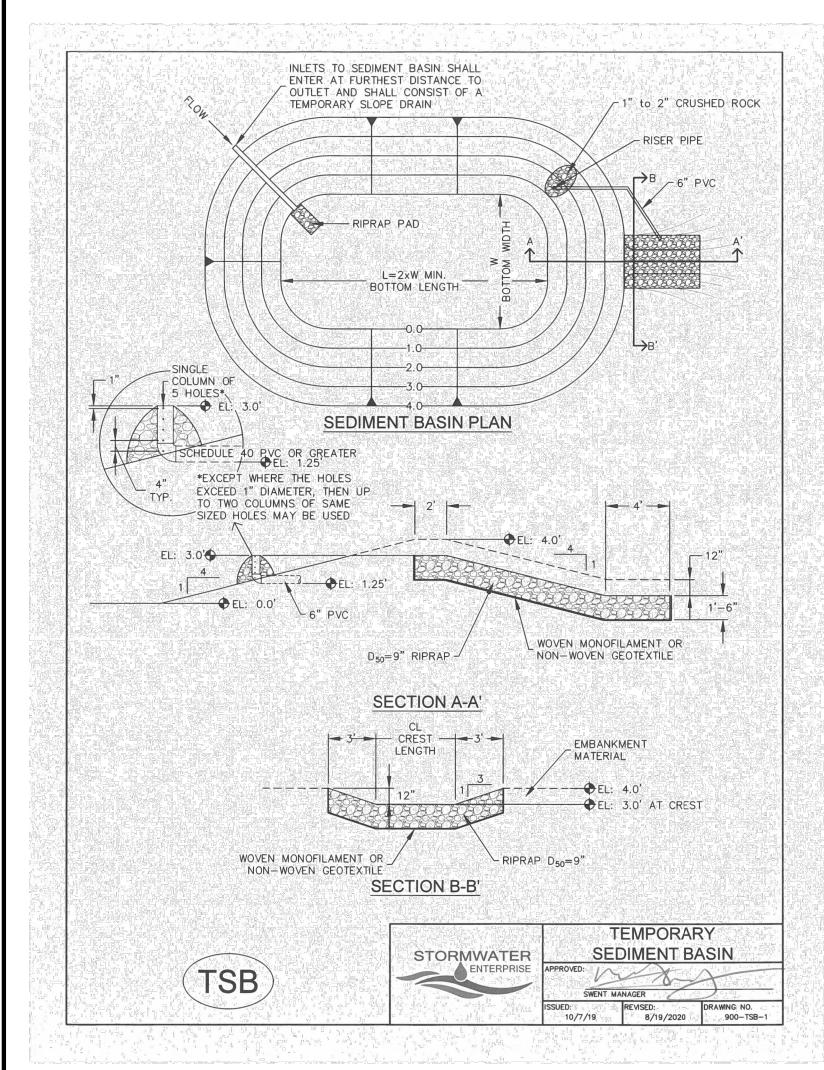
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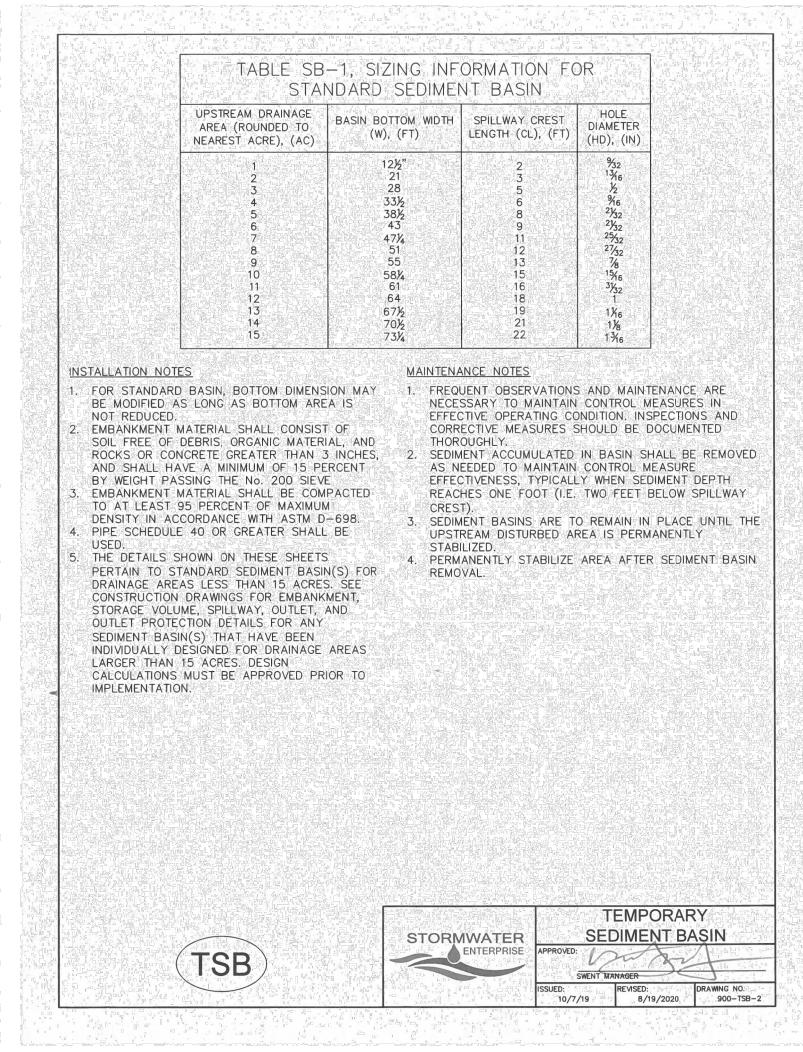
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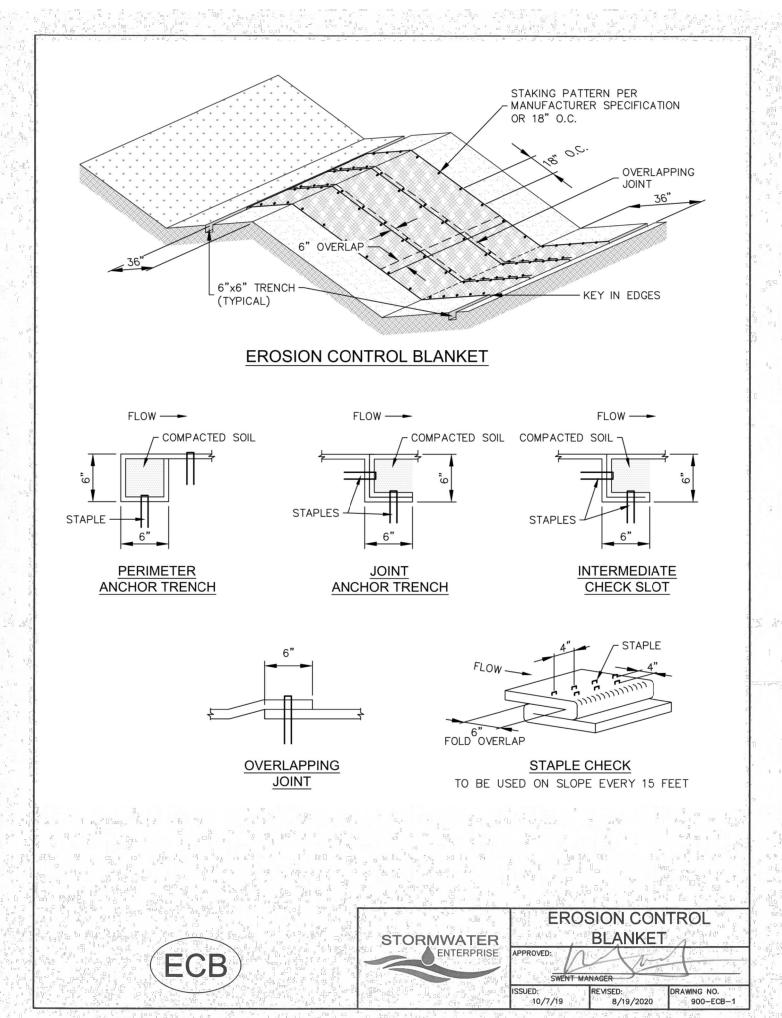
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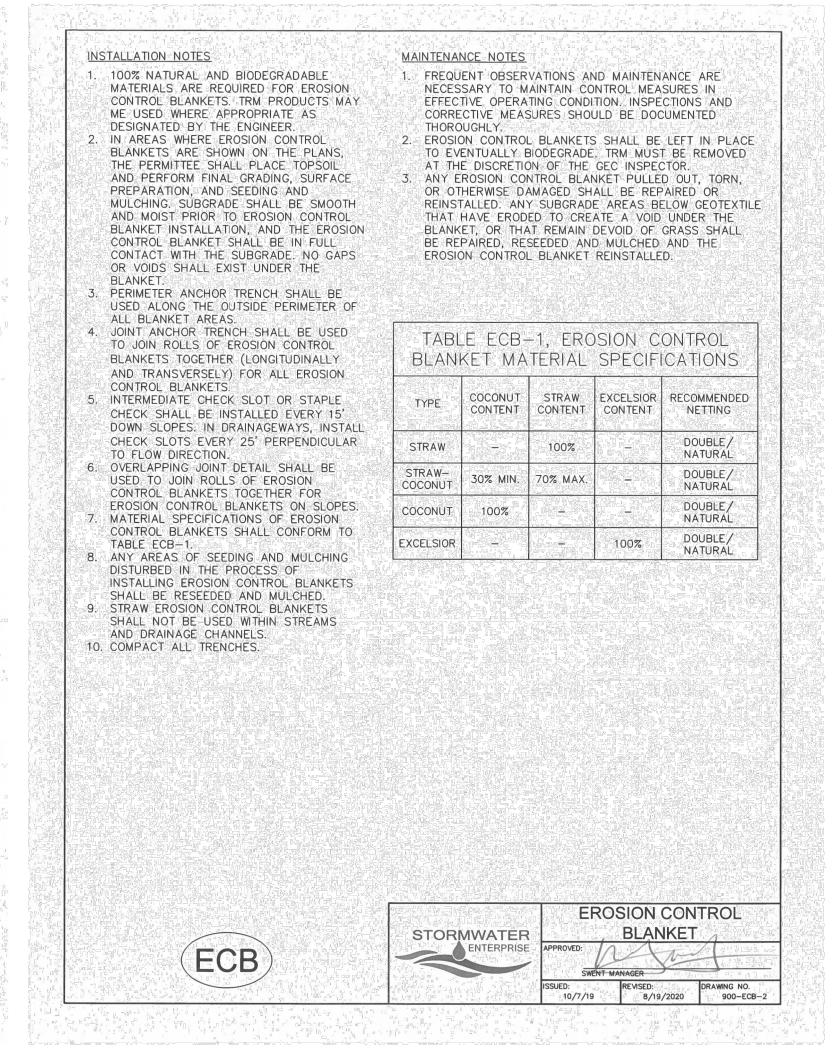


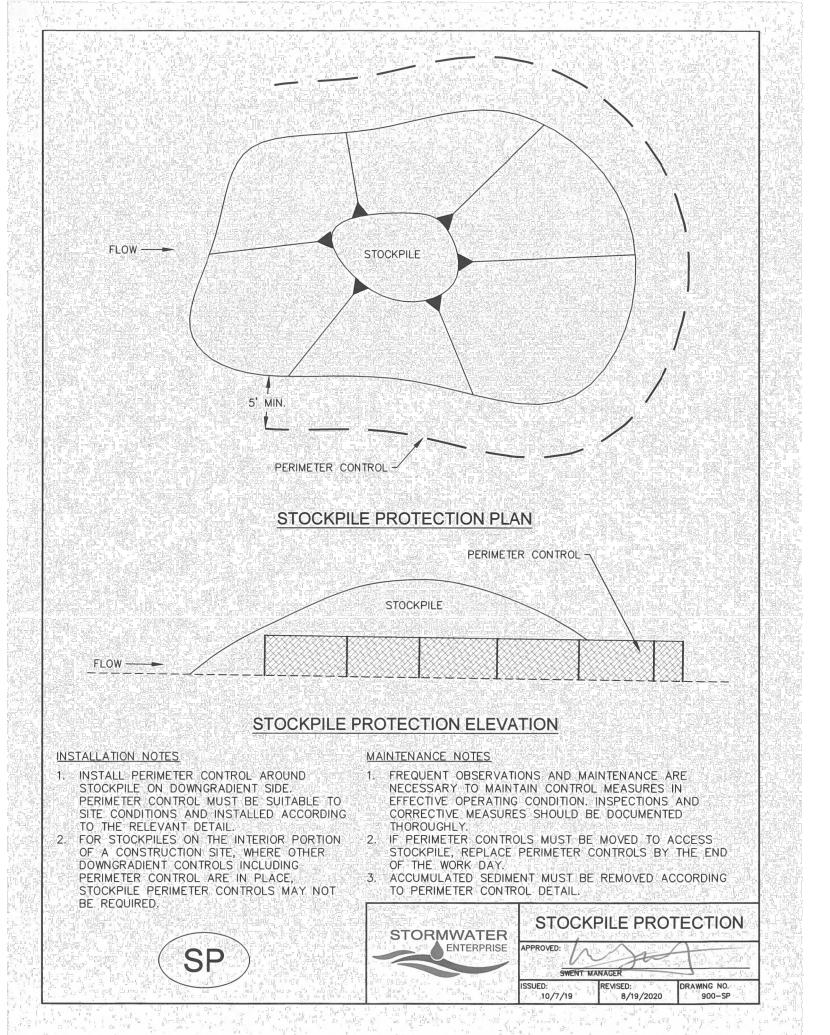


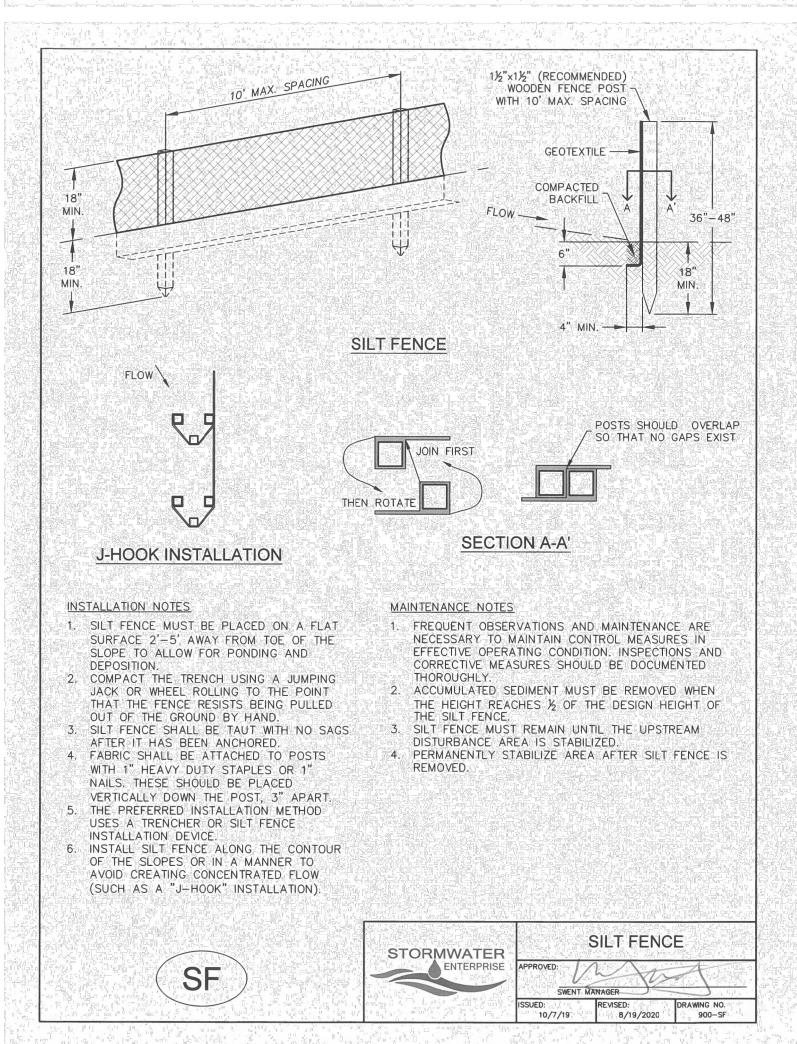














PROPERTY GROUP, 12495 RIGDON STREET NAPA, CALIFORNIA (707) 365-6891 BRADY WILLIAMS

trian Company

-9393 • Colorado Springs 719–593–2593



No. REVISION							
No							
A/N		¥ /N	5/3/23	SWW	MMO	7	
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NEEDIO OTATEMENT

FOR AND ON BEHALF OF JR ENGINEERING, LLC

BRYAN T. LAW, P.E. COLORADO P.E. 25043

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLANS.

Know what's below.

Call before you dig.

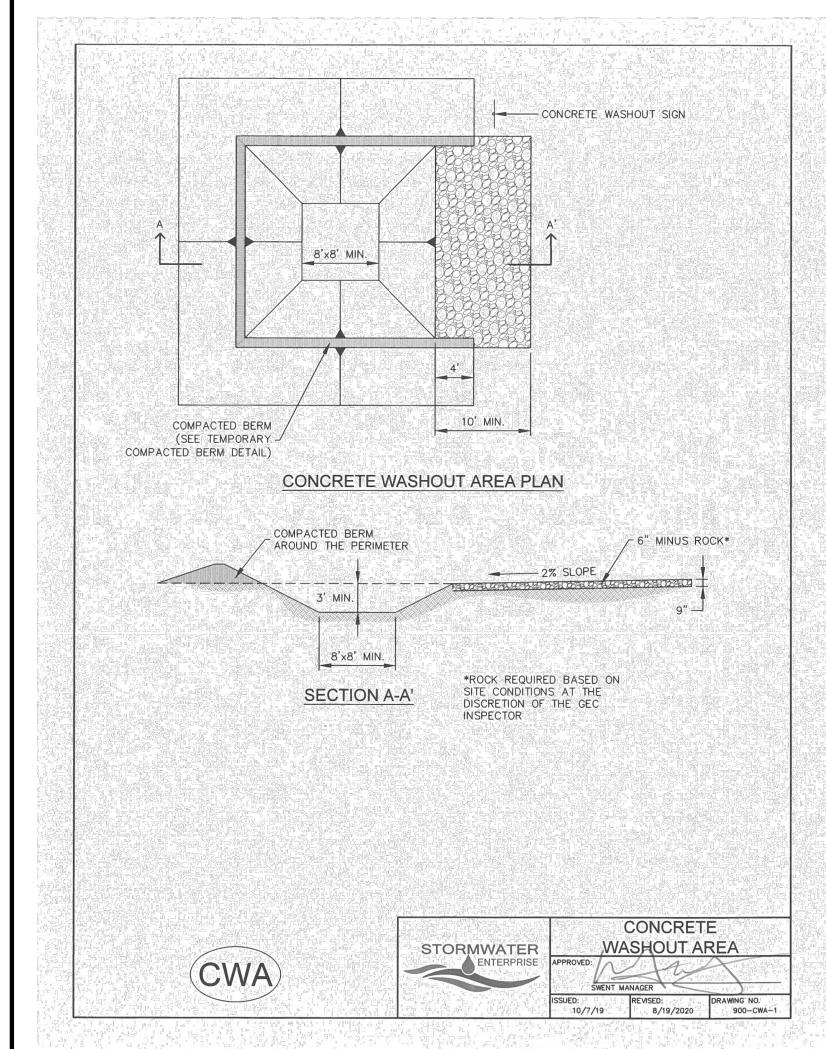
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GRADING & EF

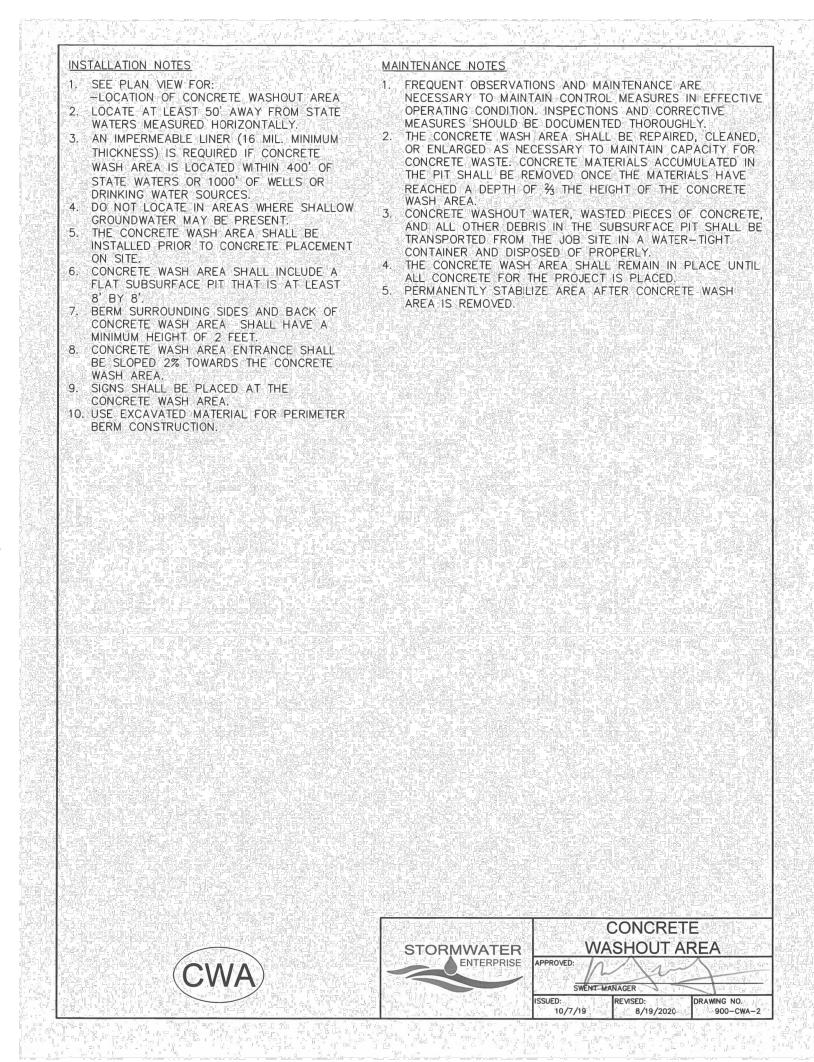
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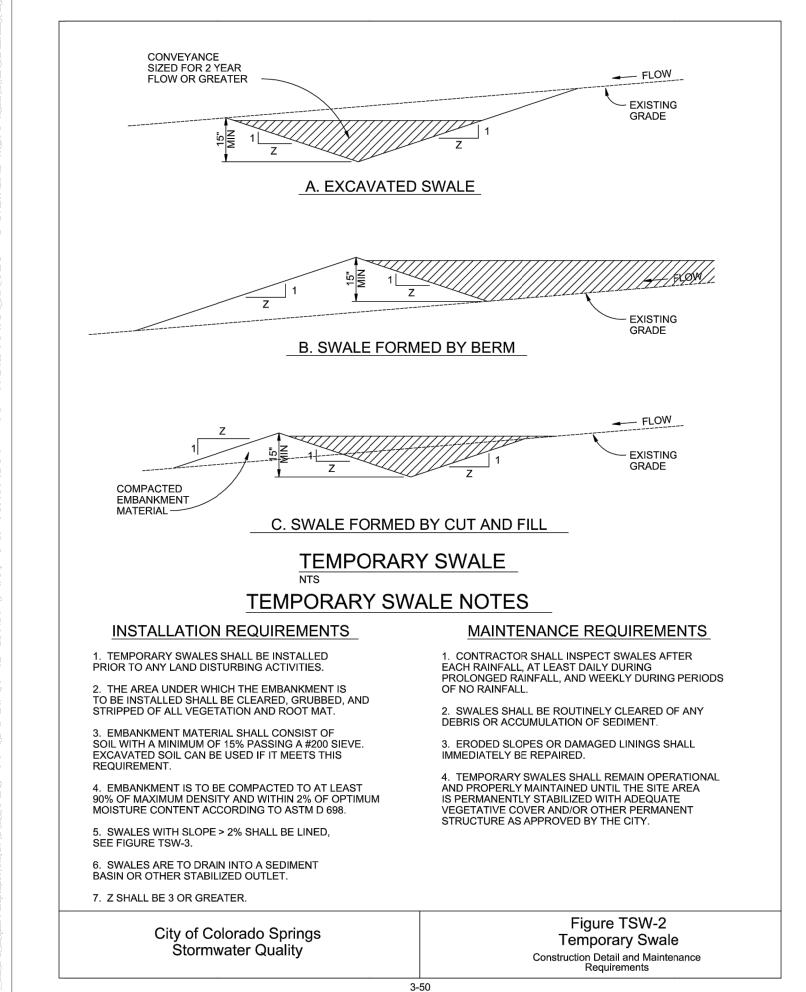
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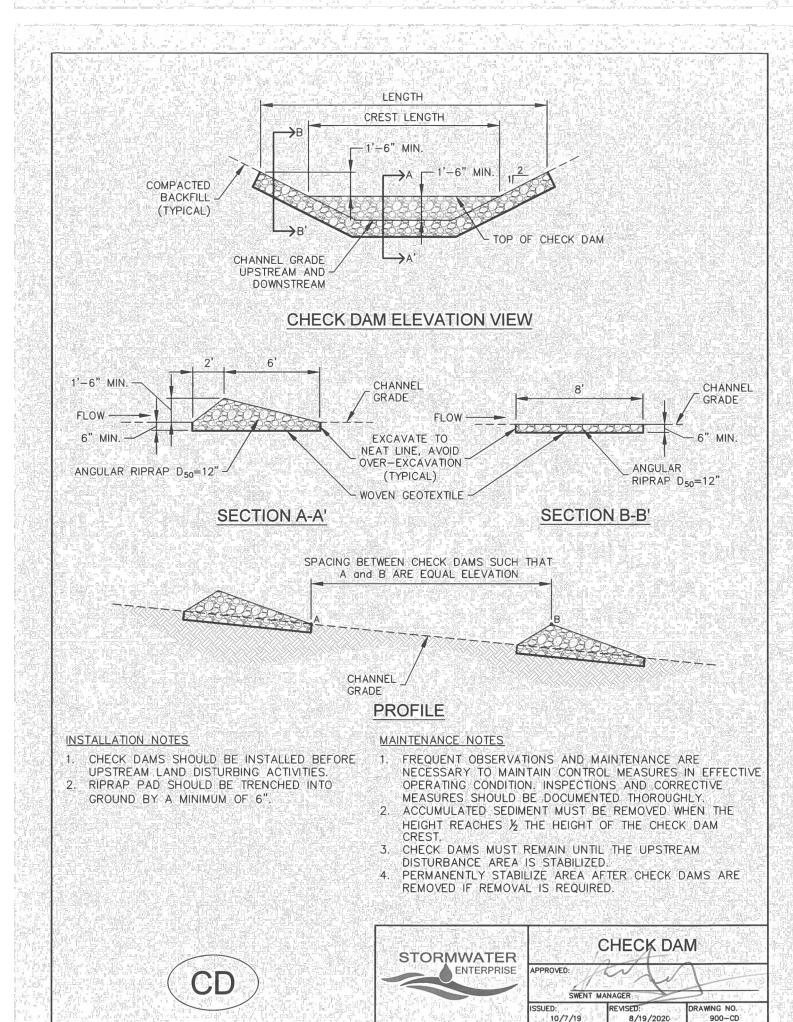
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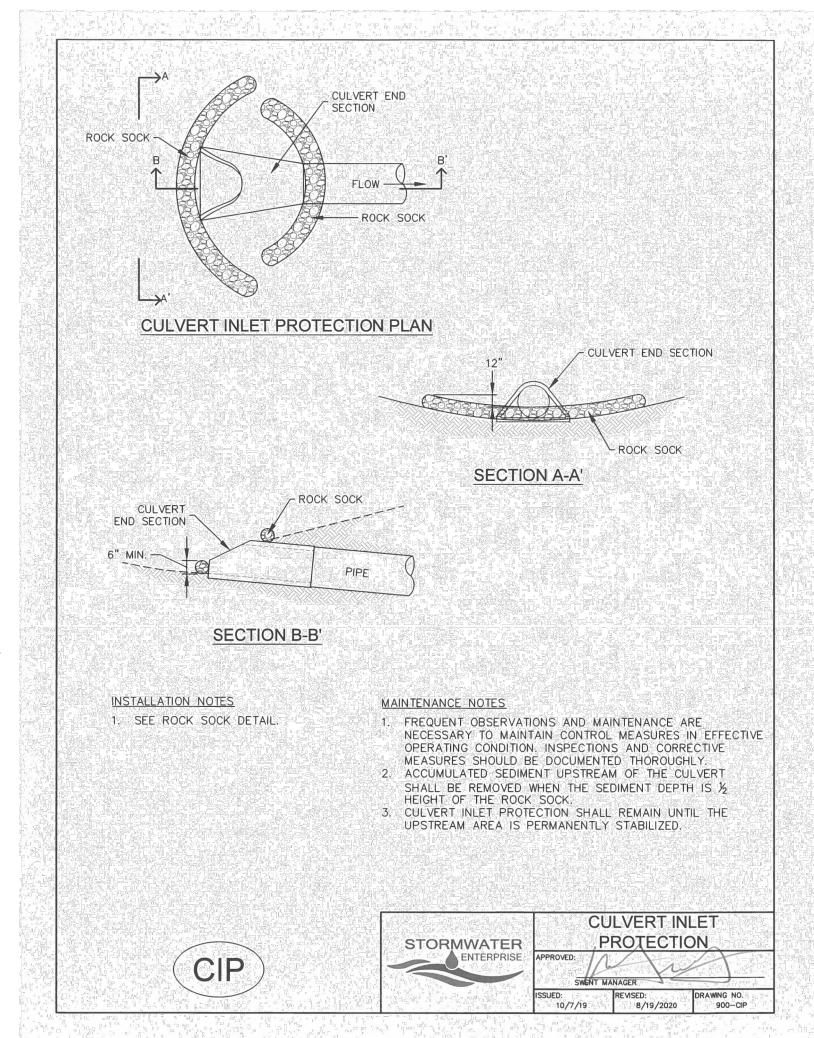
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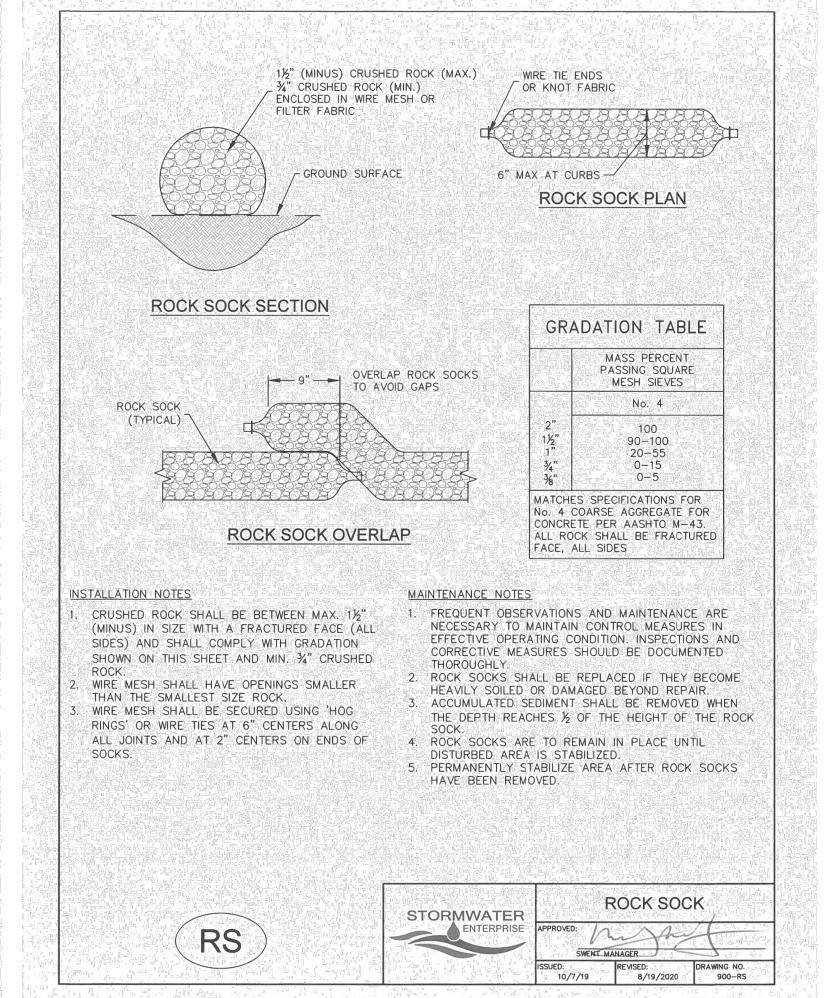














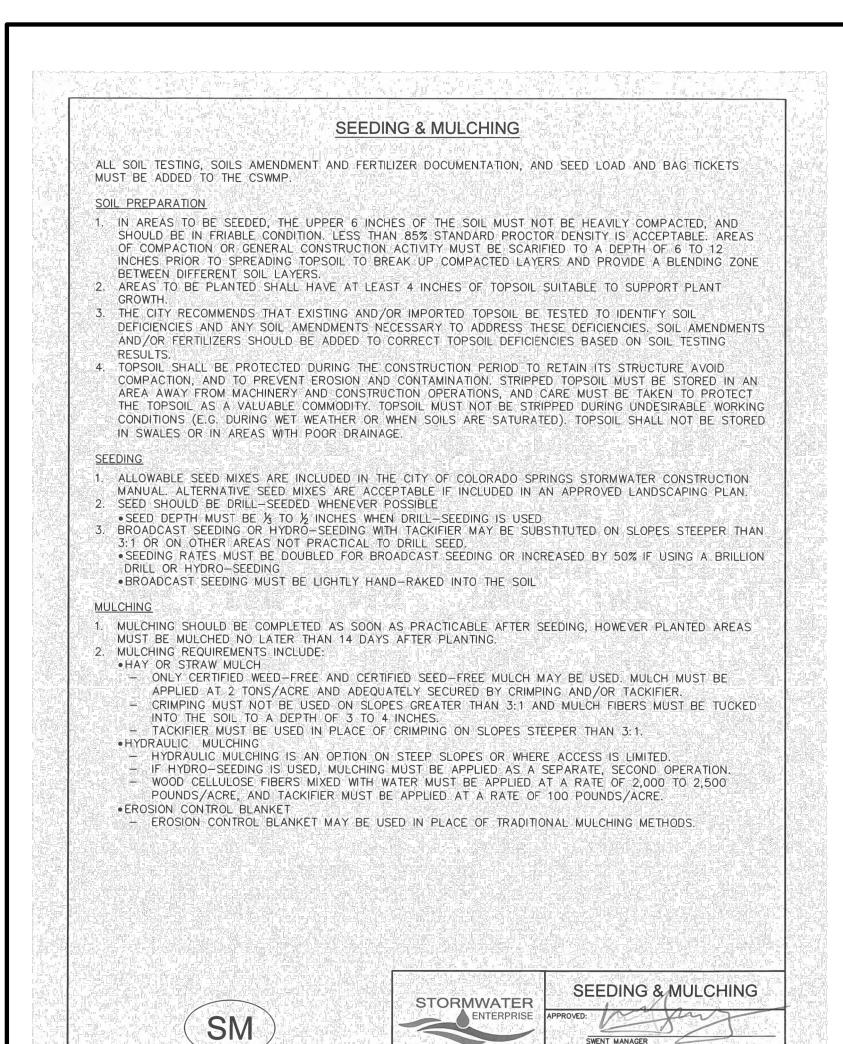
ENGINEER'S STATEMENT

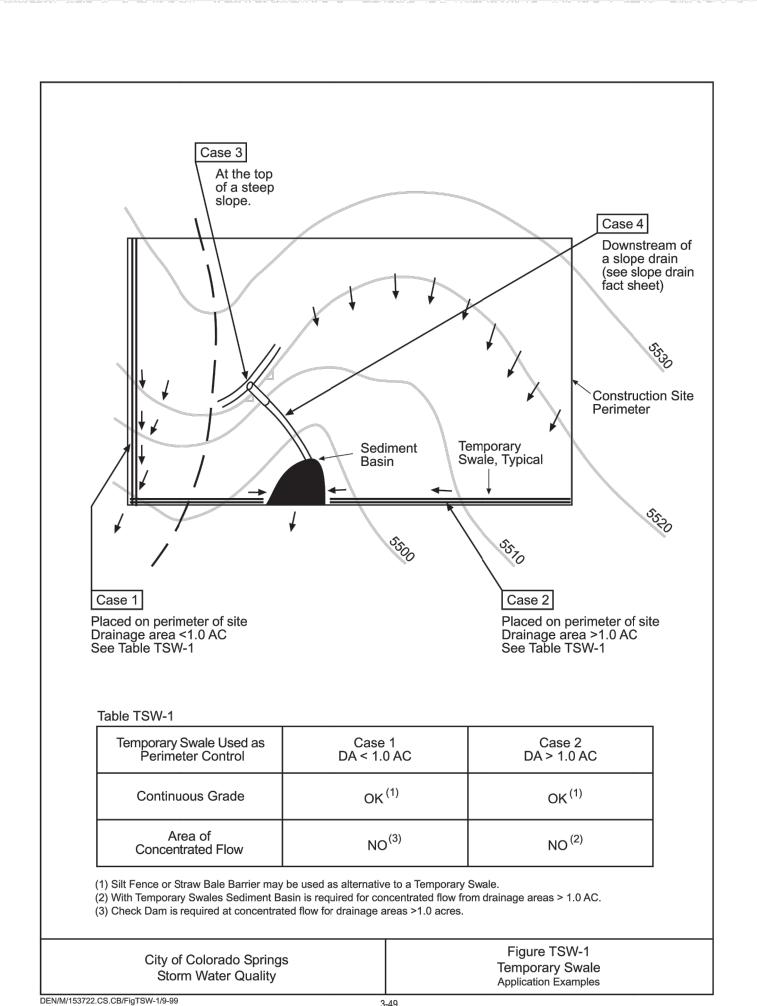
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BRYAN T. LAW, P.E.	DATE
COLORADO P.E. 25043	
FOR AND ON BEHALF OF JR ENGINEERING, LLC	

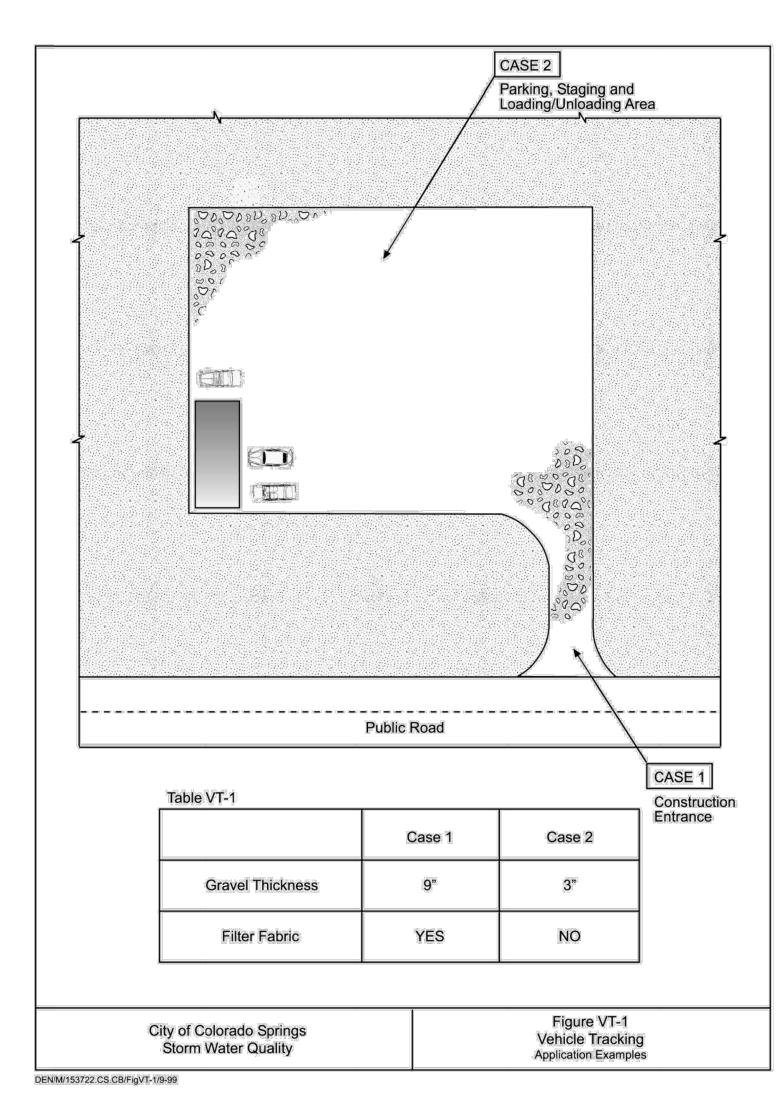
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SHEET **8** OF **10** JOB NO. **25142.06**





8/19/2020



FLOW EXISTING **GRADE** A. EROSION CONTROL FABRIC 2%<SLOPE<5% AND VELOCITY < 8 FPS FLOW 12" THICK RIPRAP TYPE "VL" SLOPE>5% OR VELOCITY >8 FPS **SWALE LINING** SWALE LINING NOTES INSTALLATION REQUIREMENTS MAINTENANCE REQUIREMENTS . REFER TO THE EROSION CONTROL BLANKETS 1. CONTRACTOR SHALL INSPECT SWALE LININGS FACTSHEET FOR PROPER INSTALLATION OF EROSION AFTER EACH RAINFALL, AT LEAST DAILY DURING CONTROL FABRIC LINING. PROLONGED RAINFALL AND WEEKLY DURING PERIODS OF NO RAINFALL 2. SWALES WITH EASILY EROSIVE SOILS AND SLOPES LESS THAN 2%, SHALL BE LINED WITH EROSION 2. DAMAGED LININGS SHALL IMMEDIATELY BE CONTROL FABRIC 3. VELOCITIES FOR EROSION CONTROL FABRICS 3. REFER TO THE EROSION CONTROL BLANKETS SHALL NOT EXCEED 8 FPS. SWALES WITH VELOCITIES FACTSHEET FOR PROPER MAINTENANCE GREATER THAN 8 FPS SHALL BE LINED WITH RIP RAP. 4. DISPLACED RIPRAP OR COARSE AGGREGATE IS TO BE REPLACED AS SOON AS POSSIBLE. 5. SWALE LININGS ARE TO REMAIN IN PLACE AND BE PROPERLY MAINTAINED UNTIL THE TEMPORARY SWALE IS REMOVED.

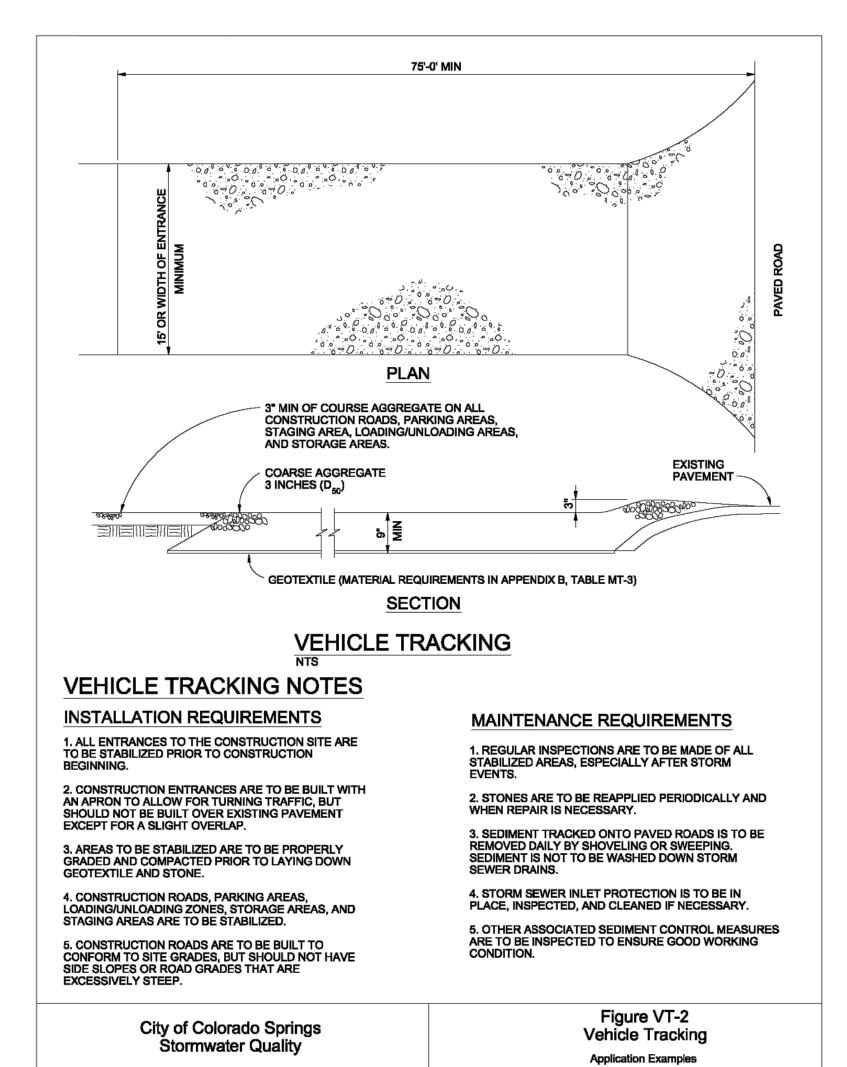
City of Colorado Springs

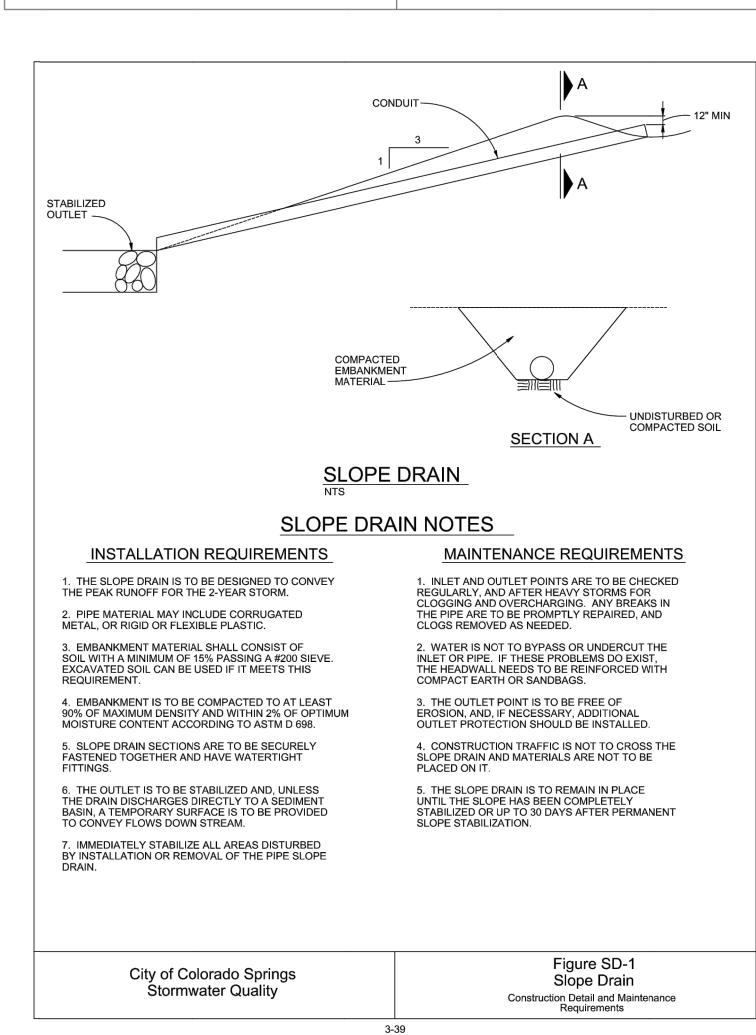
Stormwater Quality

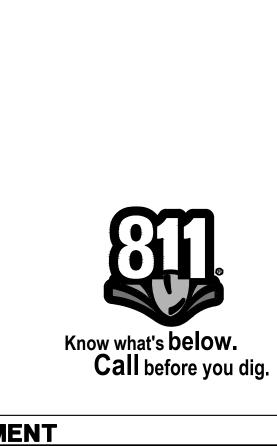
Figure TSW-3

Swale Linings

Construction Detail and Maintenance







ENGINEER'S STATEMENT

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SHEET 9 OF 10 JOB NO. **25142.06** **SM-6**

STABILIZED STAGING AREA MAINTENANCE NOTES

5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.

6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE

NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

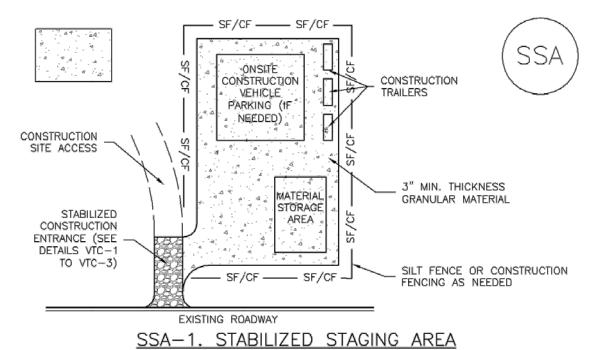
GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION,

USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR

OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)



STABILIZED STAGING AREA INSTALLATION NOTES

1. SEE PLAN VIEW FOR -LOCATION OF STAGING AREA(S).

-CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.

2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.

3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE. 4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR

5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT

SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK. 6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT

STABILIZED STAGING AREA MAINTENANCE NOTES

FENCE AND CONSTRUCTION FENCING.

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

November 2010

Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3

SSA-4

Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Temporary Outlet Protection (TOP) EC-8

EXTEND RIPRAP TO HEIGHT OF CULVERT OR NORMAL CHANNEL DEPTH, WHICHEVER IS LESS

TEMPORARY OUTLET PROTECTION PLAN $D = 2 \times D50$ NON-WOVEN KEY IN TO 2 x D50

SECTION A

	TABLE OP-1. TEMPORARY OUTLET PROTECTION SIZING TABLE					
	PIPE DIAMETER, Do (INCHES)	DISCHARGE, Q (CFS)	APRON LENGTH, La (FT)	RIPRAP D50 DIAMETER MIN (INCHES)		
	8	2.5 5	5 10	4 6		
	12	5 10	10 13	4 6		
	18	10 20 30 40	10 16 23 26	6 9 12 16		
•	24	30 40 50 60	16 26 26 30	9 9 12 16		

OP-1. TEMPORARY OUTLET PROTECTION

Temporary Outlet Protection (TOP)

EC-8

TEMPORARY OUTLET PROTECTION INSTALLATION NOTES

 SEE PLAN VIEW FOR
 -LOCATION OF OUTLET PROTECTION. -DIMENSIONS OF OUTLET PROTECTION.

2. DETAIL IS INTENDED FOR PIPES WITH SLOPE \le 10%, ADDITIONAL EVALUATION OF RIPRAP SIZING AND OUTLET PROTECTION DIMENSIONS REQUIRED FOR STEEPER SLOPES.

3. TEMPORARY OUTLET PROTECTION INFORMATION IS FOR OUTLETS INTENDED TO BE UTILIZED LESS THAN 2 YEARS.

TEMPORARY OUTLET PROTECTION INSPECTION AND MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

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(DETAILS ADAPTED FROM AURORA, COLORADO AND PREVIOUS VERSION OF VOLUME 3, NOT AVAILABLE IN AUTOCAD)

ENGINEERIN

: EROSION DETAILS

RADING & CONTROL

Know what's below. Call before you dig.

ENGINEER'S STATEMENT

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DDL

SHEET 10 OF 10 DATE JOB NO. **25142.06**

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