

THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.



**OWNER'S STATEMENT:** 

THE OWNER WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

RANDY O'LEARY, PRESIDENT

DATE

**ENGINEER'S STATEMENT** 

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 REPORT

NICOLE SCHANEL, PE #52434

DATE

EL PASO COUNTY:

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF DIMENSIONS, AND/ OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/ OR ACCURACY OF THIS DOCUMENT

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

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. IF 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 DIRECTORS DISCRETION.

JENNIFER IRVINE, P.E. **COUNTY ENGINEER / ECM ADMINISTRATOR**  DATE

SEAL	TRAILS AT ASPEN RIDGE						
	FILING NO. 2 FINAL GRADING & EROSION CONTROL PLANS						
	TITLE SHEET						
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 19.886.014	DESIGNED BY: NMS DRAWN BY: CRD CHECKED BY: NMS	SCALE HORIZ. N/A VERT. N/A	DATE ISSUED: SHEET	FEBRUARY, 2020 1 <i>OF</i> 9	drawing №. TS01		

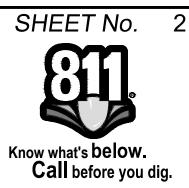
## GENERAL CONSTRUCTION NOTES:

- 1. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- 2. 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 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 CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- 3. 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 SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED 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.
- 4. ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- 5. CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- 6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION 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 CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
- 7. 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.
- 8. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM 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 CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- 9. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- 10. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.

- 11. COMPACTION OF SOIL MUST BE PREVENTED FOR INFILTRATION CONTROL MEASURES OR STABILIZATION WILL BE ACHIEVED BY VEGET DESIGNATED FOR INFILTRATION CONTROL M PROTECTED FROM SEDIMENTATION DURING FINAL STABILIZATION IS ACHIEVED. IF COMPA NOT FEASIBLE DUE TO SITE CONSTRAINTS, A FOR INFILTRATION AND VEGETATION CONTROL LOOSENED PRIOR TO INSTALLATION OF THE
- 12. ANY TEMPORARY OR PERMANENT FACILITY I CONSTRUCTED FOR THE CONVEYANCE OF S THROUGH, OR FROM THE EARTH DISTURBAN STABILIZED CONVEYANCE DESIGNED TO MIN DISCHARGE OF SEDIMENT OFF SITE.
- 13. CONCRETE WASH WATER SHALL BE CONTAIN ACCORDANCE WITH THE SWMP. NO WASH WA DISCHARGED TO OR ALLOWED TO ENTER STA ANY SURFACE OR SUBSURFACE STORM DRA FACILITIES. CONCRETE WASHOUTS SHALL NA AREA WHERE SHALLOW GROUNDWATER MAN 50 FEET OF A SURFACE WATER BODY, CREEK
- 14. DURING DEWATERING OPERATIONS OF UNCO WATER MAY BE DISCHARGED ON SITE, BUT S IN THE FORM OF SURFACE RUNOFF UNLESS DEWATERING PERMIT IS IN PLACE.
- 15. EROSION CONTROL BLANKETING OR OTHER SHALL BE USED ON SLOPES STEEPER THAN
- 16. CONTRACTOR SHALL BE RESPONSIBLE FOR WASTES FROM THE CONSTRUCTION SITE FO ACCORDANCE WITH LOCAL AND STATE REGUNO CONSTRUCTION DEBRIS, TREE SLASH, BU OR UNUSED BUILDING MATERIALS SHALL BE DISCHARGED AT THE SITE.
- 17. WASTE MATERIALS SHALL NOT BE TEMPORAL IN THE STREET, ALLEY, OR OTHER PUBLIC WA ACCORDANCE WITH AN APPROVED TRAFFIC MEASURES MAY BE REQUIRED BY EL PASO C DEEMED NECESSARY, BASED ON SPECIFIC C CIRCUMSTANCES.
- 18. TRACKING OF SOILS AND CONSTRUCTION DE MINIMIZED. MATERIALS TRACKED OFF-SITE S PROPERLY DISPOSED OF IMMEDIATELY.
- 19. THE OWNER/DEVELOPER SHALL BE RESPONS OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH AND SAND THAT MAY ACCUMULATE IN ROADS OTHER DRAINAGE CONVEYANCE SYSTEMS A APPURTENANCES AS A RESULT OF SITE DEV
- 20. THE QUANTITY OF MATERIALS STORED ON THE LIMITED, AS MUCH AS PRACTICAL, TO THAT Q PERFORM THE WORK IN AN ORDERLY SEQUE STORED ON-SITE SHALL BE STORED IN A NEA THEIR ORIGINAL CONTAINERS, WITH ORIGINAL LABELS.
- 21. NO CHEMICAL(S) HAVING THE POTENTIAL TO STORMWATER ARE TO BE STORED OR USED PERMISSION FOR THE USE OF SUCH CHEMICA WRITING BY THE ECM ADMINISTRATOR. IN GE THE USE OF SUCH CHEMICAL(S), SPECIAL CO MONITORING MAY BE REQUIRED.
- 22. BULK STORAGE OF ALLOWED PETROLEUM PE ALLOWED LIQUID CHEMICALS IN EXCESS OF REQUIRE ADEQUATE SECONDARY CONTAINN CONTAIN ALL SPILLS ONSITE AND TO PREVEN FROM ENTERING STATE WATERS, ANY SURFA STORM DRAINAGE SYSTEM OR OTHER FACILI
- 23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF THE CURB AND GUTTER OR DITCH EXCEPT W CONTROL MEASURES.
- 24. 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

REFERENCE DRAWINGS GEC Tlitteblock	####         ####         ####         ####         ####         ####           ####         ####         ####         ####         ####           ####         ####         ####         ####	BENCHMARK COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206	SEAL	TRAILS AT ASPEN RIDGE
	####       ####       ####         ####       ####       ####         ####       ####       ####         ####       ####       ####         No.       DATE       DESCRIPTION       BY	<ul> <li>A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD, ELEVATION - 5897.89' U.S. SURVEY FT</li> </ul>		FILING NO. 2 FINAL GRADING & EROSION CONTROL PLANS
	No.     DATE     DESCRIPTION     BY       REVISIONS       COMPUTER FILE MANAGEMENT	BASIS OF BEARING BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9,		GENERAL NOTES
	FILE NAME:       S:\19.886.014 (Trails at Aspen Ridge - F2)\100 Dwg\104 Plan Sets\Construction Plans\GEC Plan\GN01.dwg         CTB FILE:          PLOT DATE:       February 27, 2020 10:21:03 AM         THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.	TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2½" AULM. CAP PLS 17664) TO THE N¼ CORNER OF SAID SECTION 9 (3¼" AULM. CAP PLS 10377)	MATRIX DESIGN GROUP, INC.	DESIGNED BY: NMS SCALE DATE ISSUED: FEBRUARY, 2020 DRAWING No. DRAWN BY: CRD HORIZ. N/A CHECKED BY: NMS VERT. N/A SHEET 2 OF 9 GNO1

D IN AREAS DESIGNATED R WHERE FINAL ETATIVE COVER. AREAS MEASURES SHALL ALSO BE	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.		
G CONSTRUCTION UNTIL PACTION PREVENTION IS ALL AREAS DESIGNATED	25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.		
ROL MEASURES MUST BE E CONTROL MEASURE(S).	26. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.	NPD	ES NO
Y DESIGNED AND STORMWATER AROUND, ANCE AREA SHALL BE A INIMIZE EROSION AND THE	27. 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.	1.	THE C THAT I CONS <sup>-</sup> DIREC
AINED AND DISPOSED OF IN WATER SHALL BE STATE WATERS, INCLUDING RAINAGE SYSTEM OR NOT BE LOCATED IN AN AY BE PRESENT, OR WITHIN EK OR STREAM. CONTAMINATED GROUND SHALL NOT LEAVE THE SITE S AN APPROVED STATE	<ul> <li>28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY AND SHALL BE CONSIDERED A PART OF THESE PLANS.</li> <li>29. 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 CONTACT:</li> </ul>	2. 3.	THIS C SUBM FILED CONS SEDIM EROSI REQUI SUCCI VOIDE THE C ADJAC
R PROTECTIVE COVERING N 3:1.	COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT WATER QUALITY CONTROL DIVISION	4.	THE C THE S
R THE REMOVAL OF ALL OR DISPOSAL IN GULATORY REQUIREMENTS. BUILDING MATERIAL WASTES E BURIED, DUMPED, OR	WQCD - PERMITS 4300 CHERRY CREEK DRIVE SOUTH DENVER, CO 80246-1530 ATTN: PERMITS UNIT <u>NRCS SOIL SURVEY FOR EL PASO COUNTY</u>	5.	OTHEF A LAYI DAYS ACRE MULCH OR AS
ARILY PLACED OR STORED WAY, UNLESS IN C CONTROL PLAN. CONTROL COUNTY ENGINEERING IF	HYDROLOGIC <u>SOIL ID NO. SOIL TYPE CLASSIFICATION</u> 52 MANZANST CLAY LOAM C (0%-3% SLOPES)		COMP MORE MEASI ARE IN
CONDITIONS AND	<ul> <li>56 NELSON-TASSEL FINE SANDY LOAM B (3%-18% SLOPES)</li> <li>108 WILEY SILT LOAM B</li> </ul>	6.	THE C "BEST STORI
DEBRIS OFF-SITE SHALL BE E SHALL BE CLEANED UP AND	(3%-9% SLOPES)	7.	
NSIBLE FOR THE REMOVAL SH, ROCK, SEDIMENT, SOIL, DS, STORM DRAINS AND AND STORMWATER EVELOPMENT.	TIMING ANTICIPATED STARTING AND COMPLETION TIME PERIOD OF SITE GRADING:	8.	SIGNIF COMP BMP V SEDIM THE C
THE PROJECT SITE SHALL BE	MARCH 2020 THRU JULY 2020 EXPECTED DATE ON WHICH THE FINAL STABILIZATION WILL BE COMPLETED:		EXPOF RIGHT
JENCE. ALL MATERIALS EAT, ORDERLY MANNER, IN NAL MANUFACTURER'S	<u>AREAS</u> TOTAL AREA: 31.75 ACRES	9.	THE U OR TC OSHA MEASI
O BE RELEASED IN D ONSITE UNLESS ICAL(S) IS GRANTED IN GRANTING APPROVAL FOR	RECEIVING WATERS NAME OF RECEIVING WATERS FOUNTAIN CREEK (ULTIMATE)	10.	SOILS TEMPO STOCH SUCH
CONDITIONS AND PRODUCTS OR OTHER F 55 GALLONS SHALL	ENGINEER'S NOTES: THE EXISTING VEGETATION CONSISTS OF NATIVE GRASSES AND SCRUB OAK. BASED ON SITE VISITS AND A REVIEW OF AERIAL PHOTOGRAPHY, THE VEGETATIVE COVER AT ASPEN RIDGE FILING NO. 2 IS APPROXIMATELY 100%.	11.	Modif Requi Of An Requi
MENT PROTECTION TO ENT ANY SPILLED MATERIALS FACE OR SUBSURFACE ILITIES.		12.	UNLES TRUCI WAST
T OF STORMWATER FLOW IN WITH APPROVED SEDIMENT		13.	THE C PAVEN CUTTI FROM
HALL COMPLY WITH			REMO OPER/
CLEAN WATER EQUIREMENTS OF THE LAND THE ECM APPENDIX I. ALL D BY THE CONTRACTOR LOODPLAIN, 404, FUGITIVE		14.	LOCAT TRACI THE S



## OTES:

E CONTRACTOR SHALL REMOVE ALL SEDIMENT, MUD, AND CONSTRUCTION DEBRIS AT MAY ACCUMULATE IN THE FLOWLINES AND PUBLIC RIGHTS OF WAYS AS A RESULT OF THIS INSTRUCTION PROJECT. SAID REMOVAL SHALL BE CONDUCTED IN A TIMELY MANNER, OR AS ECTED BY THE ENGINEER.

S CONSTRUCTION ACTIVITIES STORMWATER MANAGEMENT PLAN (SWMP) HAS BEEN 3MITTED AS PART OF AN APPLICATION FOR AN EROSION AND SEDIMENT CONTROL PERMIT 5D WITH THE CITY OF COLORADO SPRINGS AND AS INCLUSION BY REFERENCE TO THE CDPHE NSTRUCTION ACTIVITY PERMIT. THE SWMP IS A LIVING DOCUMENT AND ADDITIONAL EROSION AND DIMENT CONTROL MEASURES MAY BE REQUIRED OF THE CONTRACTOR DUE TO UNFORESEEN DSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE QUIREMENTS OF THIS PLAN SHALL BE THE OBLIGATION OF THE LAND OWNER AND/OR HIS CCESSORS OR HEIRS; UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED, OR DED.

E CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO ACENT WATERWAYS, WETLANDS, ETC., RESULTING FROM WORK DONE AS PART OF THIS PROJECT.

CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM ENTERING STORM SEWER SYSTEM DURING ALL DEMOLITION, EXCAVATION, TRENCHING, BORING, GRADING OR IER CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT.

AYER OF SUITABLE MULCH SHALL BE APPLIED TO ALL DISTURBED PORTIONS OF THE SITE WITHIN 21 (S OF THE COMPLETION OF GRADING. SAID MULCH SHALL BE APPLIED AT A RATE OF 2 TONS PER RE AND SHALL BE TACKED OR FASTENED BY AN APPROVED METHOD SUITABLE FOR THE TYPE OF CH USED. ROUGH-CUT STREETS SHALL BE MULCHED UNLESS A LAYER OF AGGREGATE ROAD BASE ASPHALT PAVING IS TO BE APPLIED TO SAID ROUGH-CUT STREETS WITHIN THE 21 DAY PERIOD AFTER MPLETION OF OVERLOT GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR RE THEN SIXTY (60) DAYS SHALL ALSO BE SEEDED. ALL TEMPORARY SOIL EROSION CONTROL ASURES AND BMP'S SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES IMPLEMENTED.

E CONTRACTOR SHALL LOCATE, INSTALL, AND MAINTAIN ALL EROSION CONTROL AND WATER QUALITY ST MANAGEMENT PRACTICES" AS INDICATED IN THE APPROVED CONSTRUCTION ACTIVITIES ORMWATER MANAGEMENT PLAN. BMP'S SHALL BE MAINTAINED AND KEPT IN GOOD REPAIR FOR THE RATION OF THIS PROJECT.

A MINIMUM, THE CONTRACTOR SHALL INSPECT, AND KEEP A LOG OF, ALL BMP'S WEEKLY AND AFTER NIFICANT PRECIPITATION EVENTS. ALL NECESSARY MAINTENANCE AND REPAIR SHALL BE MPLETED IN A TIMELY MANNER. ACCUMULATED SEDIMENT AND DEBRIS SHALL BE REMOVED FROM A WHEN THE SEDIMENT LEVEL REACHES ONE-HALF THE HEIGHT OF THE BMP, OR, AT ANY TIME THAT IMENT OR DEBRIS ADVERSELY IMPACTS THE FUNCTIONING OF THE BMP.

CONTRACTOR SHALL PROPERLY COVER ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO OR ORTED FROM THIS SITE TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORT WITHIN PUBLIC HTS OF WAY.

E USE OF REBAR, STEEL STAKES, OR STEEL FENCE POSTS TO STAKE DOWN STRAW OR HAY BALES; TO SUPPORT SILT FENCING USED AS AN EROSION CONTROL MEASURE; IS PROHIBITED. THE USE OF HA APPROVED COLORED WARNING CAPS ON REBAR OR FENCE POSTS USED WITH EROSION CONTROL ASURES IS NOT ACCEPTABLE.

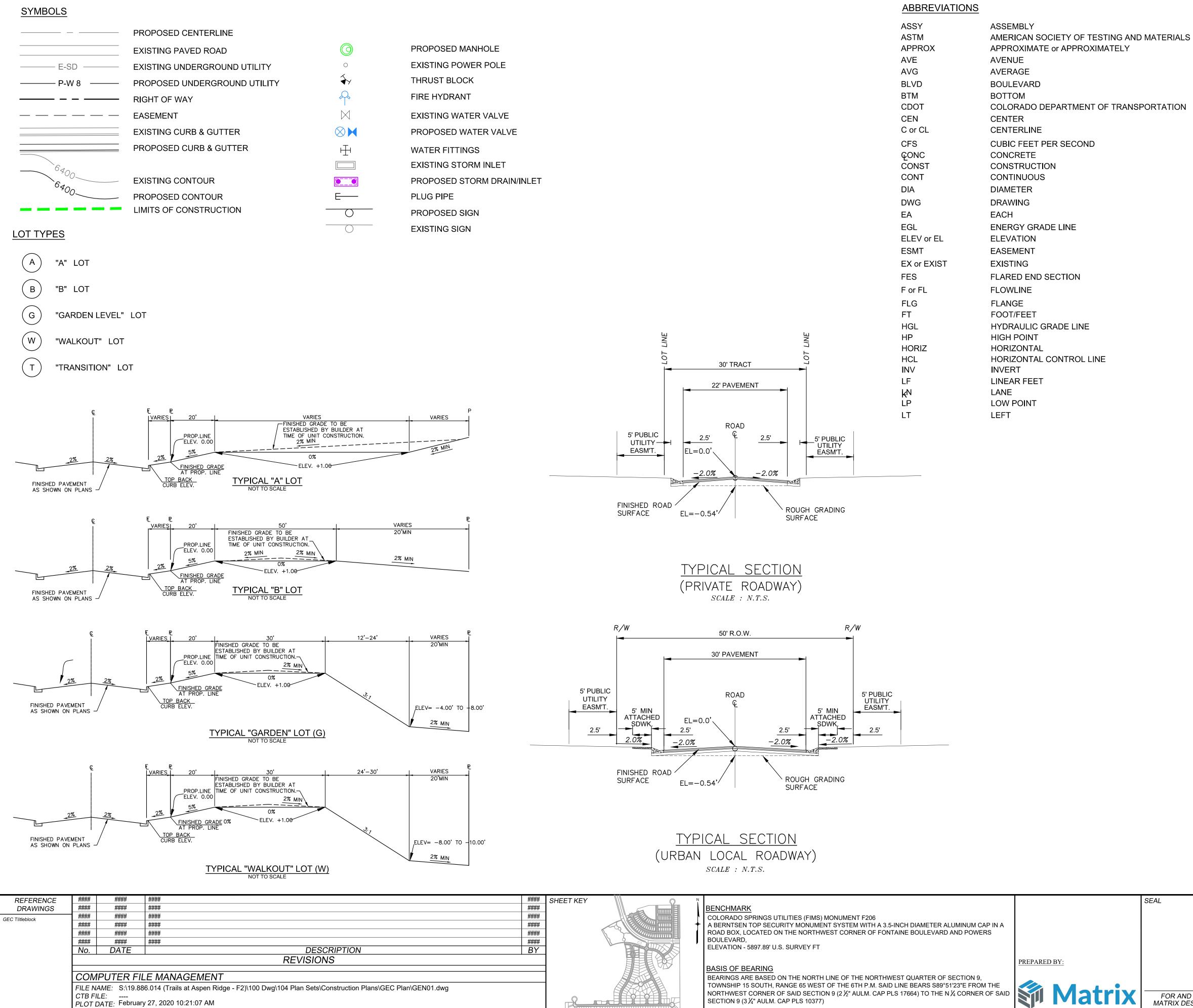
LS THAT WILL BE STOCKPILED FOR MORE THAN 30 DAYS SHALL BE MULCHED AND SEEDED WITH A MPORARY OR PERMANENT GRASS COVER WITHIN 21 DAYS OF STOCKPILE CONSTRUCTION. IF OCKPILES ARE LOCATED WITHIN 100 FEET OF A DRAINAGEWAY, ADDITIONAL SEDIMENT CONTROLS CH AS TEMPORARY DIKES OR SILT FENCE SHALL BE REQUIRED.

DIFICATION OF AN ACTIVE EROSION AND SEDIMENT CONTROL PERMIT BY THE CONTRACTOR SHALL QUIRE TIMELY NOTIFICATION OF AND APPROVAL BY THE CITY OF COLORADO SPRINGS. TERMINATION AN ACTIVE EROSION AND SEDIMENT CONTROL PERMIT UPON COMPLETION OF THE PROJECT QUIRES NOTIFICATION OF AND APPROVAL BY THE CITY OF COLORADO SPRINGS.

ESS CONFINED IN A PREDEFINED, BERMED CONTAINMENT AREA, THE CLEANING OF CONCRETE JCK DELIVERY CHUTES IS PROHIBITED AT THE JOB SITE. THE DISCHARGE OF WATER CONTAINING STE CEMENT TO THE STORM SEWER SYSTEM IS PROHIBITED.

E CONTRACTOR SHALL PROTECT ALL STORM SEWER FACILITIES ADJACENT TO ANY LOCATION WHERE (EMENT CUTTING OPERATIONS INVOLVING WHEEL CUTTING, SAW CUTTING OR ABRASIVE WATER JET TTING ARE TO TAKE PLACE. THE DISCHARGE OF ANY WATER CONTAMINATED BY WASTE PRODUCTS OM CUTTING OPERATIONS TO THE STORM SEWER SYSTEM IS PROHIBITED. THE CONTRACTOR SHALL MOVE AND PROPERLY DISPOSE OF ALL WASTE PRODUCTS GENERATED BY SAID CUTTING ERATIONS ON A DAILY BASIS.

CATION OF STAGING, STORAGE, EQUIPMENT MAINTENANCE, TEMPORARY DISPOSAL, VEHICLE ACKING CONTROL AND CONCRETE TRUCK WASHOUT AREAS WILL BE DETERMINED IN THE FIELD AT E START OF CONSTRUCTION ACTIVITY AND DELINEATED ON THIS PLAN.

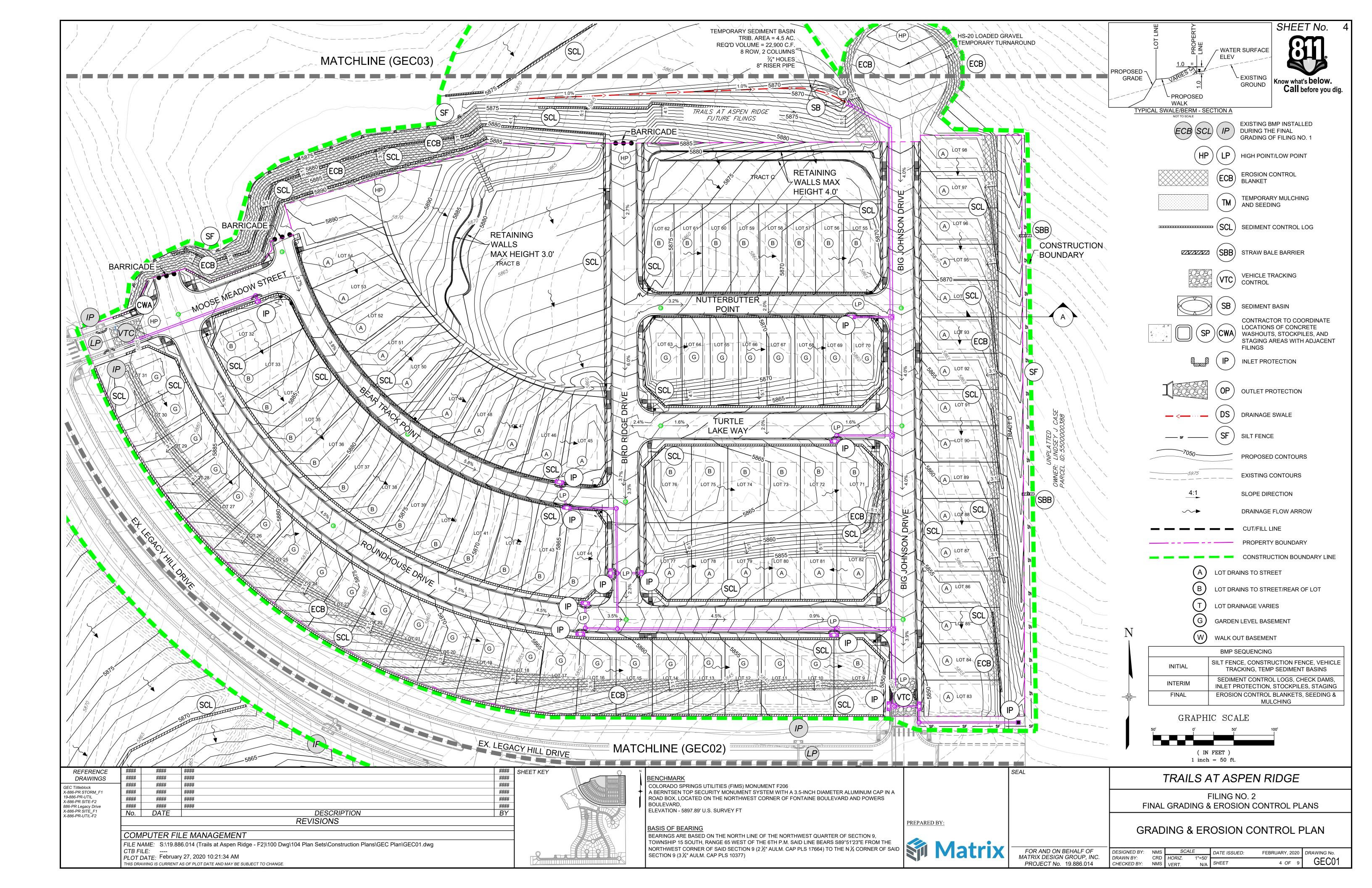


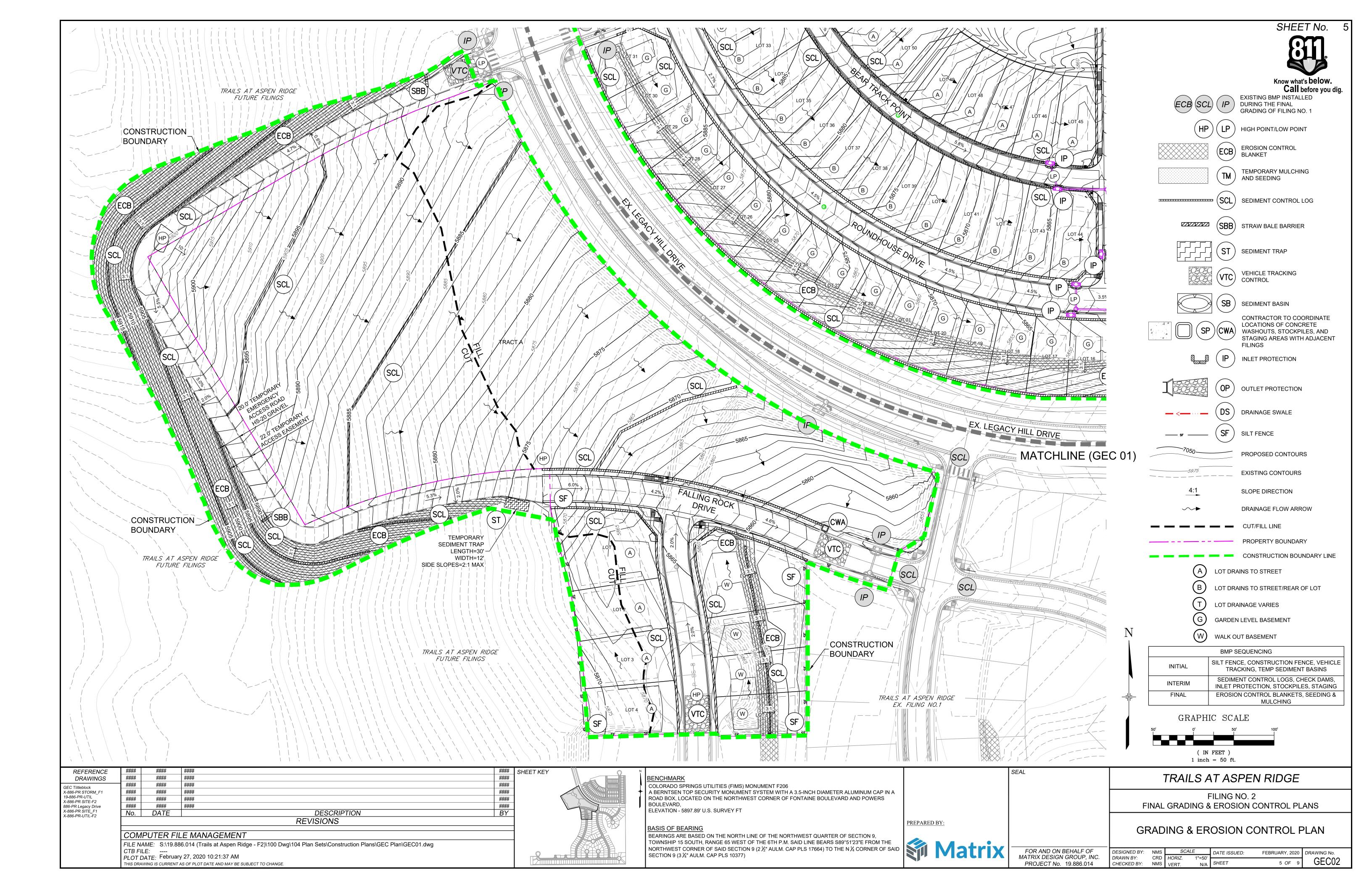
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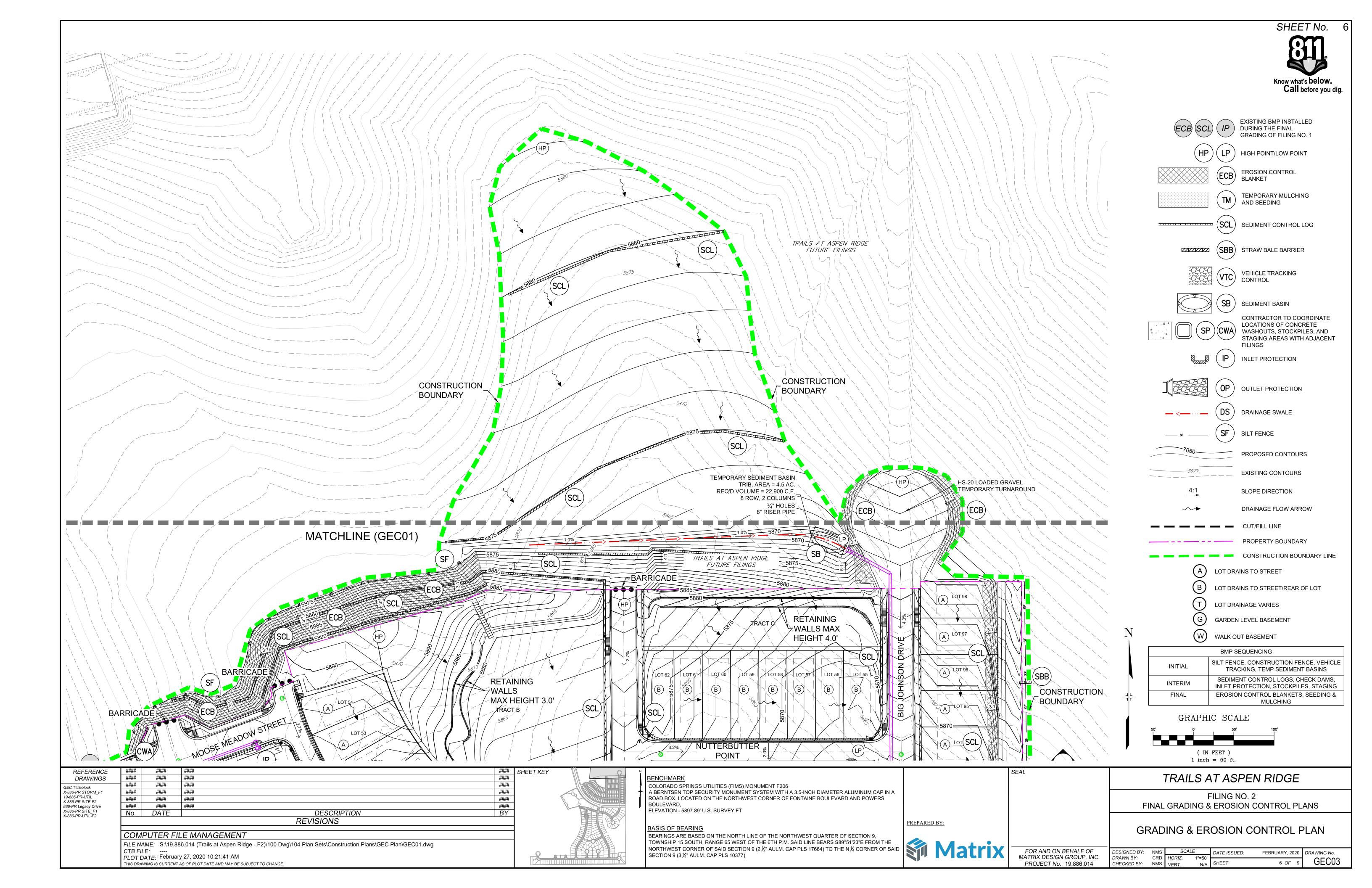
MAX MH MIN MJ NTS O/S PR PC PCC PCR ₽ or P/L PRC PΤ PVC PVI PVMT PVT RCP RED REF REQ REV ROW RT SD ST STA STD SS SW or S/W TAN TBC TYP UG UTIL VERT W w/

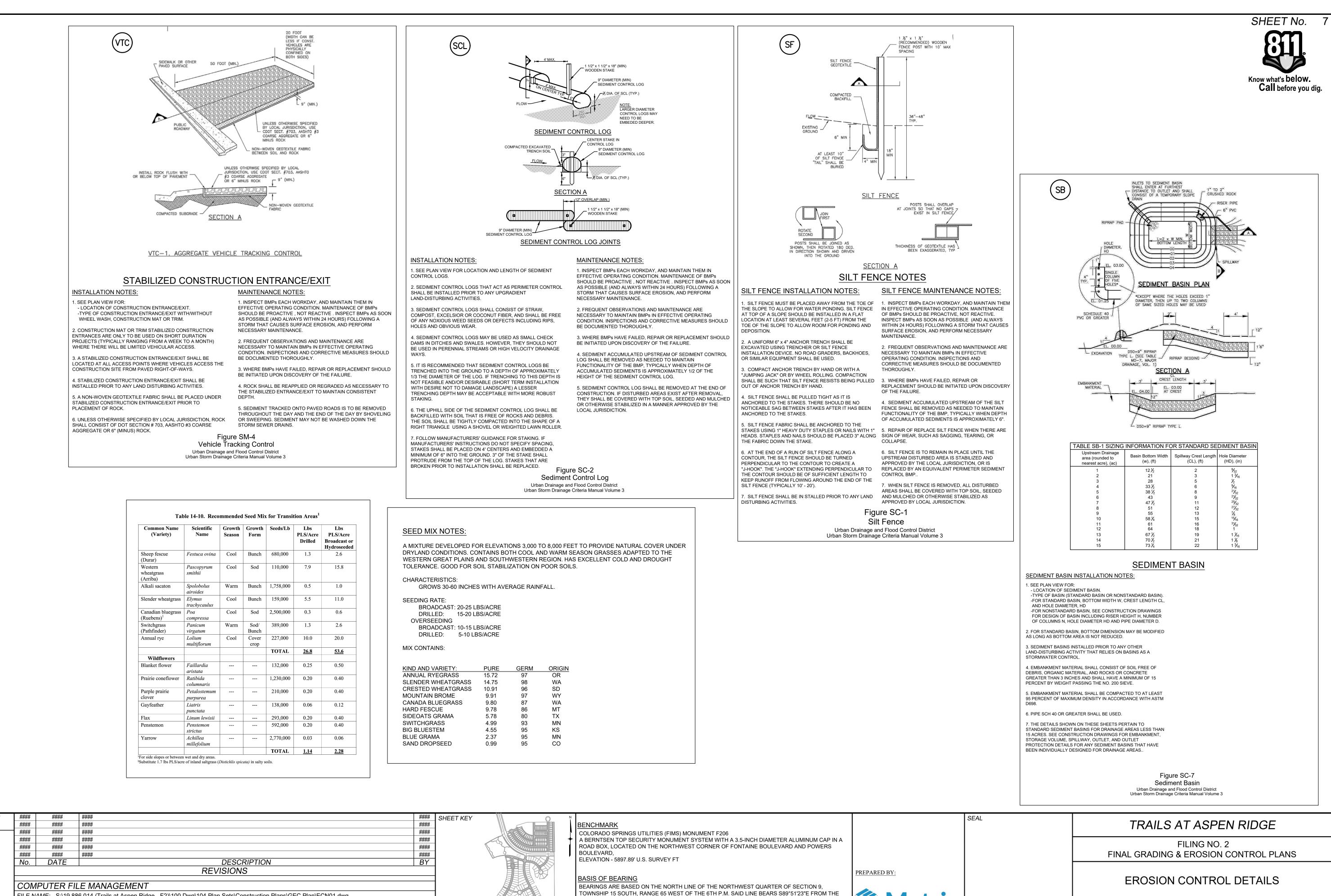
SHEET No. MAXIMUM MANHOLE MINIMUM MECHANICAL JOINT Know what's below. NOT TO SCALE Call before you dig. OFFSET PROPOSED POINT OF CURVATURE POINT OF COMPOUND CURVE POINT OF CURB RETURN PROPERTY LINE POINT OF REVERSE CURVE POINT OF TANGENCY POINT OF VERTICAL CURVE or POLYVINYL CHLORIDE POINT OF VERTICAL INTERSECTION PAVEMENT POINT OF VERTICAL TANGENT REINFORCED CONCRETE PIPE REDUCER REFERENCE REQUIRED REVISION **RIGHT-OF-WAY** RIGHT STORM SEWER STREET STATION STANDARD SANITARY SEWER SIDEWALK TANGENT TOP BACK OF CURB TYPICAL UNDERGROUND UTILITY VERTICAL WIDTH WITH

SEAL	TRAILS AT ASPEN RIDGE					
	FILING NO. 2					
	FINAL GRADING & EROSION CONTROL PLANS					
	LEG	GEND & AB	BBREVIA	ΓΙΟΝ ΝΟΤΙ	ΞS	
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.	DESIGNED BY: NMS DRAWN BY: CRD	SCALE HORIZ. N/A	DATE ISSUED:	FEBRUARY, 2020	DRAWING No.	
PROJECT No. 19.886.014	CHECKED BY: NMS	VERT. N/A	SHEET	3 OF 9	GEN01	









Common Name (Variety)	Scientific Name	Growth Season	Growth Form	Seeds/Lb	Lbs PLS/Acre Drilled	Lbs PLS/Acre Broadcast or Hydroseeded
Sheep fescue Durar)	Festuca ovina	Cool	Bunch	680,000	1.3	2.6
Vestern vheatgrass Arriba)	Pascopyrum smithii	Cool	Sod	110,000	7.9	15.8
Alkali sacaton	Spolobolus airoides	Warm	Bunch	1,758,000	0.5	1.0
Slender wheatgrass <i>Elymus trachycau</i> .		Cool	Bunch	159,000	5.5	11.0
Canadian bluegrass Ruebens) <sup>1</sup>	Poa compressa	Cool	Sod	2,500,000	0.3	0.6
Switchgrass Pathfinder)	Panicum virgatum	Warm	Sod/ Bunch	389,000	1.3	2.6
Annual rye	Lolium multiflorum	Cool	Cover crop	227,000	10.0	20.0
				TOTAL	<u>26.8</u>	<u>53.6</u>
Wildflowers						
Blanket flower	Faillardia aristata			132,000	0.25	0.50
Prairie coneflower	Ratibida columnaris			1,230,000	0.20	0.40
Purple prairie clover	Petalostemum purpurea			210,000	0.20	0.40
Gayfeather	Liatris punctata			138,000	0.06	0.12
Flax	Linum lewisii			293,000	0.20	0.40
Penstemon	Penstemon strictus			592,000	0.20	0.40
Yarrow	Achillea millefolium			2,770,000	0.03	0.06
				TOTAL	1.14	2.28

SEED
Α ΜΙΧΤΙ
DRYLAN
WESTER

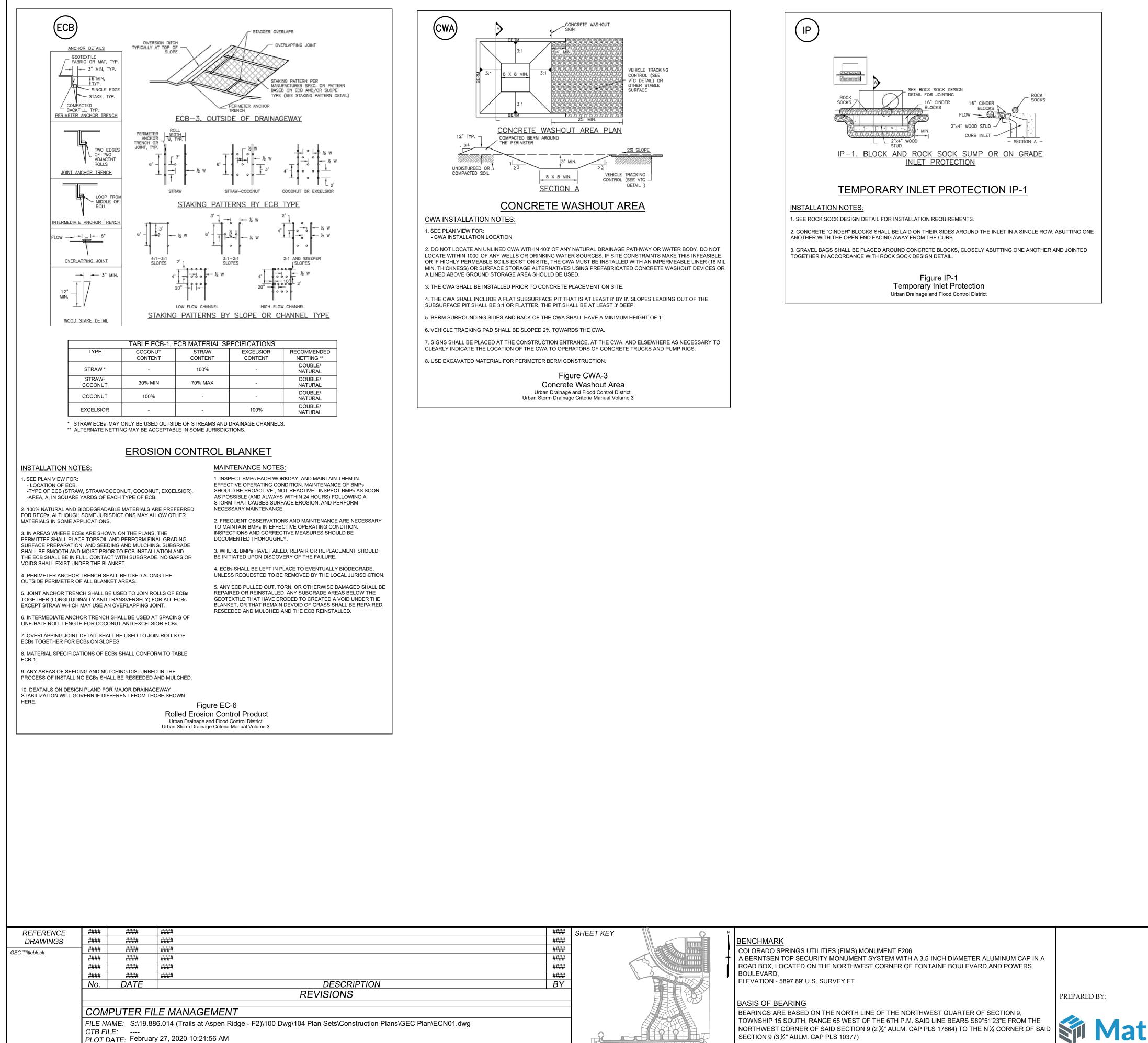
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	FILE NAME: S:\19.886.014 (Trails at Aspen Ridge - F2)\100 Dwg\104 Plan Sets\Construction Plans\GEC Plan\ECN01.dwg CTB FILE: PLOT DATE: February 27, 2020 10:21:52 AM THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.								

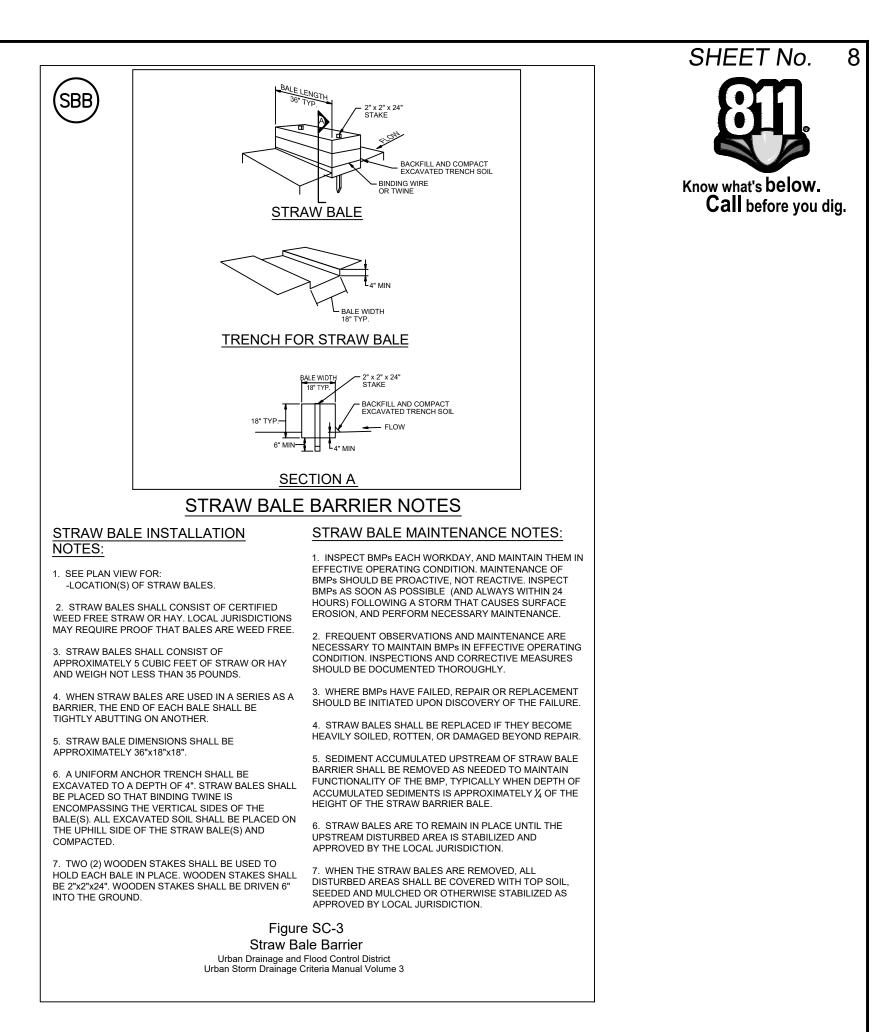
###	SHEET KEY		N			
###				BENCHMARK		
###				COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206		
###			✦	A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A		
###				ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS		
##				BOULEVARD,		
Y		BERHEN		ELEVATION - 5897.89' U.S. SURVEY FT		
-						
				BASIS OF BEARING	PREPARE	D B X:
				BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9,		
				TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE		
				NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID		<b>Matrix</b>
			-	SECTION 9 (3 ¼" AULM. CAP PLS 10377)		
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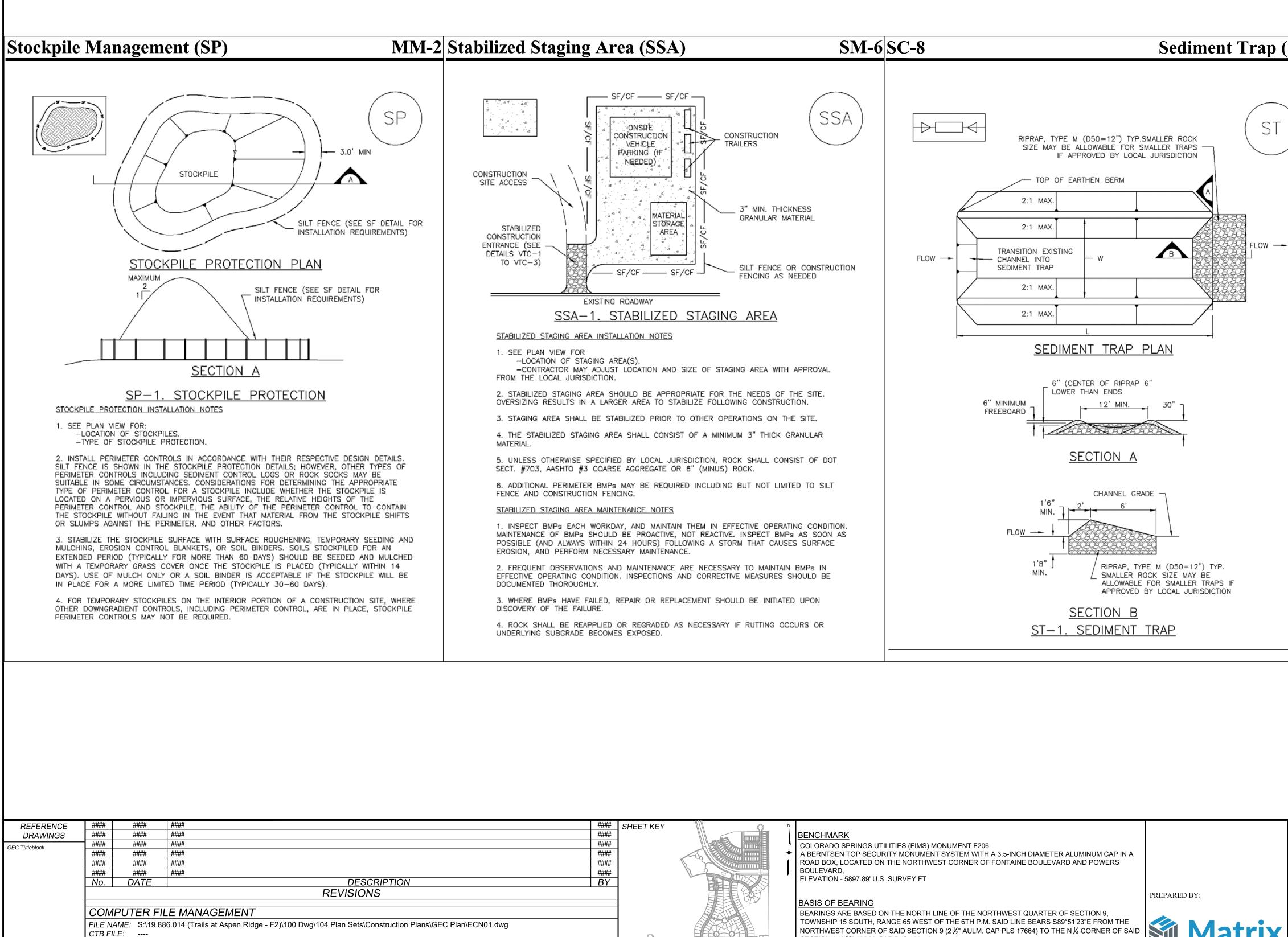
FOR AND ON BEHALF OF	DESIGNED BY:	NMS	SCALE		DATE ISSUED:	FEBRUARY, 2020	DRAWING No.
MATRIX DESIGN GROUP, INC.	DRAWN BY:	CRD	HORIZ.	N/A		- ,	
PROJECT No. 19.886.014	CHECKED BY:	NMS	VERT.	N/A	SHEET	7 OF 9	



THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

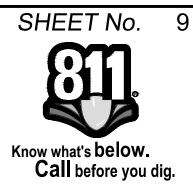
# SHEET K #	EY	BENCHMARK COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206		SEAL	TRAILS AT ASPEN RIDGE
₩ ₩ ¥#		A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD, ELEVATION - 5897.89' U.S. SURVEY FT			FILING NO. 2 FINAL GRADING & EROSION CONTROL PLANS
<u></u>		BASIS OF BEARING BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE	PREPARED BY:		EROSION CONTROL DETAILS
B		NORTHWEST CORNER OF SAID SECTION 9 (2 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)		MATRIX DESIGN GROUP, INC.	DESIGNED BY:NMSSCALEDATE ISSUED:FEBRUARY, 2020DRAWING No.DRAWN BY:CRDHORIZ.N/ASHEET8 OF 9ECNO2CHECKED BY:NMSVERT.N/ASHEET8 OF 9ECNO2





PLOT DATE: February 27, 2020 10:22:02 AM THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

#SHEET KEY #		BENCHMARK COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206 A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD, ELEVATION - 5897.89' U.S. SURVEY FT	SEAL		TRAILS AT ASPEN RIDGE			
<u>;</u> <u>+</u> <u>+</u>					FILING NO. 2 FINAL GRADING & EROSION CONTROL PLANS			
		BASIS OF BEARING BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID	PREPARED BY:		EROSION CONTROL DETAILS			
		SECTION 9 (3 ¼" AULM. CAP PLS 10377)		FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 19.886.014	DESIGNED BY:NMSSCALEDATE ISSUED:FEBRUARY, 2020DRAWING No.DRAWN BY:CRDHORIZ.N/ASHEET9 OF 9ECN03CHECKED BY:NMSVERT.N/ASHEET9 OF 9ECN03			



<ul> <li>SEDIMENT TRAP_INSTALLATION_NOTES</li> <li>1. SEE PLAN VIEW FOR: -LOCATION, LENGTH AND WIDTH OF SEDIMENT TRAP.</li> <li>2. ONLY USE FOR DRAINAGE AREAS LESS THAN 1 ACRE.</li> <li>3. SEDIMENT TRAPS SHALL BE INSTALLED PRIOR TO ANY UPGRADIENT LAND-DISTURBING ACTIVITIES.</li> <li>4. SEDIMENT TRAPS SHALL BE INSTALLED PRIOR TO ANY UPGRADIENT LAND-DISTURBING ACTIVITIES.</li> <li>5. SEDIMENT TRAP BERM SHALL BE CONSTRUCTED FROM MATERIAL FROM EXCAVATION. THE BERM SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.</li> <li>5. SEDIMENT TRAP OUTLET TO BE CONSTRUCTED OF RIPRAP, TYPE M (D50-12") TYP-SMALLER ROCK SIZE MAY BE ALLOWABLE FOR SMALLER TRAPS IF APPROVED BY LOCAL JURISDICTION.</li> <li>6. THE TOP OF THE CARTHEN BERM SHALL BE A MINIMUM OF 6" HIGHER THAN THE TOP OF THE RIPRAP OUTLET STRUCTURE.</li> <li>7. THE ENDS OF THE RIPRAP OUTLET STRUCTURE SHALL BE A MINIMUM OF 6" HIGHER THAN THE CENTER OF THE OUTLET STRUCTURE.</li> <li>SEDIMENT TRAP MAINTENANCE NOTES</li> <li>1. INSPECT BMP3 EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMP3 SHOULD BE PROACTIVE, NOT REACTIVE, INSPECT BMP3 AS SION AS POSSIBLE (NDA DLAWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE. ARE NECESSARY TO MAINTAIN BMP3 IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.</li> <li>3. WHERE BMP5 HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILED.</li> <li>4. REMOVE SEDIMENT ARCE MARE REMOVED. THE DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.</li> <li>6. WHEN SEDIMENT TRAPS ARE REMOVED. THE DISTURBED AREA SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED TIN A MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN THE SEDIMENT DEPTH REACHES ½ THE HEIGHT OF THE RIPRAP OUTLET.</li> <li>5. SEDIMENT TRAPS ARE REMOVED, THE</li></ul>	Sedi	ment Trap (ST)	SC
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<ul> <li>ROCK SIZE MAY BE ALLOWABLE FOR SMALLER TRAPS IF APPROVED BY LOCAL JÚRISDICTION.</li> <li>6. THE TOP OF THE EARTHEN BERM SHALL BE A MINIMUM OF 6" HIGHER THAN THE TOP OF THE RIPRAP OUTLET STRUCTURE.</li> <li>7. THE ENDS OF THE RIPRAP OUTLET STRUCTURE SHALL BE A MINIMUM OF 6" HIGHER THAN THE CENTER OF THE OUTLET STRUCTURE.</li> <li>SEDIMENT TRAP MAINTENANCE NOTES</li> <li>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.</li> <li>2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPS IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.</li> <li>3. WHERE BMPS HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.</li> <li>4. REMOVE SEDIMENT ACCUMULATED IN TRAP AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN THE SEDIMENT DEPTH REACHES ½ THE HEIGHT OF THE RIPRAP OUTLET.</li> <li>5. SEDIMENT TRAPS SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.</li> <li>6. WHEN SEDIMENT TRAPS ARE REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.</li> <li>(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AJTOCAD)</li> <li>NOTE; MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN</li> </ul>		BERM SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY IN ACCORDANCE WITH /	
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