

<u>SERVICE</u>	<u>ENTITY</u>	<u>P.O.C.</u>
OWNER:	JOVENCHI-II LLC 4779 N. ACADEMY BLVD. COLORADO SPRINGS, CO 80918	(719) 491-2158
CONTRACTOR:	CONSTRUCTION MANAGEMENT & CONSULTING, INC P.O. BOX 7207 COLORADO SPRINGS, CO 80933	(719) 528-5999
CIVIL ENGINEER:	MATRIX DESIGN GROUP 2435 RESEARCH PARKWAY, SUITE 300 COLORADO SPRINGS, CO 80920	(719) 575-0100
GAS:	COLORADO SPRINGS UTILITIES 111 SOUTH CASCADE AVENUE COLORADO SPRINGS, CO 80903	(719) 448-4800
ELECTRIC:	COLORADO SPRINGS UTILITIES 111 SOUTH CASCADE AVENUE COLORADO SPRINGS, CO 80903	(719) 448-4800
TELEPHONE COMPANY:	XFINITY/COMCAST 5910 BARNES ROAD COLORADO SPRINGS, CO 80922	(800) 934-6489
FIRE DEPARTMENT:	CIMARRON HILLS FIRE DEPARTMENT 1885 PETERSON RD. COLORADO SPRINGS, COLORADO, 80915	(719) 591-0960
WATER RESOURCES:	WASTEWATER: CHEROKEE METROPOLITAN DISTRICT 6250 PALMER PARK BOULEVARD COLORADO SPRINGS, COLORADO 80915 WATER: CHEROKEE METROPOLITAN DISTRICT 6250 PALMER PARK BOULEVARD COLORADO SPRINGS, COLORADO 80915	(719) 597-5080 (719) 597-5080
SURVEYOR:	MATRIX DESIGN GROUP 2435 RESEARCH PARKWAY, SUITE 300 COLORADO SPRINGS, COLORADO 80920	(719) 575-0100

PETERSON ROAD

MEADOWBROOK PKWY

HWY 24

PROJECT SITE

N

SITE MAP
1"=500'

SHEET INDEX		
SHEET NUMBER	SHEET TITLE	SHEET DISCRPTION
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4	GEC01	INITIAL GRADING & EROSION CONTROL PLANS (SHEET 1 OF 2)
5	GEC02	INITIAL GRADING & EROSION CONTROL PLANS (SHEET 2 OF 2)
6	GEC03	INTERIM GRADING & EROSION CONTROL PLANS (SHEET 1 OF 2)
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10	ECD01	GRADING & EROSION CONTROL DETAILS (SHEET 1 OF 4)
11	ECD02	GRADING & EROSION CONTROL DETAILS (SHEET 2 OF 4)
12	ECD03	GRADING & EROSION CONTROL DETAILS (SHEET 3 OF 4)
13	ECD04	GRADING & EROSION CONTROL DETAILS (SHEET 4 OF 4)

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 PLAN.

DATE: _____

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

DATE: _____

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 COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/ OR ACCURACY OF THIS DOCUMENT.

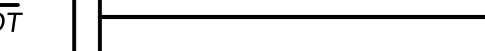
FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

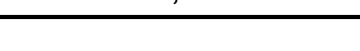
IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF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

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

DATE _____

REFERENCE DRAWINGS	##	##	##	##
X-MDQ22x34	##	##	##	##
X-1382-EKVVIC MAP	##	##	##	##
X-1382-PR-SITE	##	##	##	##
X-1382-EX-MAP	##	##	##	##
No.	DATE	DESCRIPTION		BY
REVISIONS				
COMPUTER FILE MANAGEMENT				
FILE NAME: S:\24.1382.003 Peterson Road and Meadowbrook Parkway Overall Development\500 CADD\504 Plan Sets\Construction Plans\GEC Plan\TS01.dwg				
CTB FILE: Matrix.ctb				
PLOT DATE: August 23, 2024 8:37:29 AM				
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.				

BENCHMARK: NGS MONUMENT R76, BEING MONUMENTED BY A STANDARD U.S. COAST AND GEODETIC SURVEY BENCHMARK DISK SET IN THE TOP OF CONCRETE POST, STAMPED R 76 1935. ELEVATION WAS ESTABLISHED BY G.P.S OBSERVATIONS AND IS REFERENCED TO NAVD88. ELEVATION = 6,289.86 FEET.		<div>PREPARED BY: </div>
BASIS OF BEARING: REFERENCED TO THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 8, TOWNSHIP 14 SOUTH, RANGE 65 WEST, BEING MONUMENTED AT THE SOUTHWEST CORNER OF SECTION 8 BY A 3-1/4" ALUMINUM CAP IN RANGEBOX "LS 22573", AND AT THE WEST QUARTER CORNER OF SECTION 8 BY A 3-1/4" BRASS CAP STAMPED "BLM US DEPT INTERIOR", ASSUMED TO BEAR NORTH 00°23'14" WEST, A DISTANCE OF 2,641.77 FEET.		

SEAL	<div></div>							
CIMARRON HILLS SOUTHEAST FILING NO. 1								
GRADING AND EROSION CONTROL PLANS EL PASO COUNTY, COLORADO								
TITLE SHEET								
DESIGNED BY: MDF DRAWN BY: KGI CHECKED BY: JAO	<table><tr><th colspan="2">SCALE</th></tr><tr><td>HORIZ</td><td>N/A</td></tr><tr><td>VERT.</td><td>N/A</td></tr></table>	SCALE		HORIZ	N/A	VERT.	N/A	DATE ISSUED: AUGUST 2024 SHEET 1 OF 13 DRAWING No. TS01
SCALE								
HORIZ	N/A							
VERT.	N/A							

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 STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
3. A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) 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 "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GRADING EROSION CONTROL PLANS. 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. BEST MANAGEMENT PRACTICES 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 BEST MANAGEMENT PRACTICES 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 GRADING AND EROSION CONTROL APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT

ABBREVIATIONS

ASSY	ASSEMBLY	DEFL	DEFLECT	INV	INVERT	RED	REDUCER
BOP	BOTTOM OF PIPE	DIP	DUCTILE IRON PIPE	LT	LEFT OF CENTER LINE	RSNTS	MJ RESTRAINT
BOV	BLOWOFF ASSEMBLY	EL	ELEVATION	MIN	MINIMUM		(i.e. MEGALUG)
	AND VALVE	EX	EXISTING	MJ	MECHANICAL JOINT	RT	RIGHT OF
BOW	BACK OF WALL	FLG	FLANGE	N.S.E.W	NORTH.SOUTH.EAST.WEST		CENTER LINE
CPLNG.	COUPLING	FH	FIRE HYDRANT	PL	PROPERTY LINE	SHLDR	SHOULDER
(INS.)	(INSULATING)	GPM	GALLONS PER MINUTE	PSI	POUNDS PER SQUARE INCH	SJ	SLIP JOINT
(RED.)	(REDUCING)	GRD BRK	V.P.I. GRADE BREAK	PVC	POLYVINYL CHLORIDE PIPE	SL	SLEEVE
(STR.)	(STRAIGHT)	HD	HIGH DEFLECTION	RCP	REINFORCED CONCRETE PIPE	SS	SANITARY SEWER
CRA	CONCRETE REVERSE ANCHOR	HORIZ	HORIZONTAL			STA	STATION
		HYD ASSY	INCLUDES FIRE HYDRANT, LATERAL, VALVE, TIE RODS, AND REVERSE ANCHOR.			STS	STORM SEWER
CTRB	CONCRETE THRUST REACTION BLOCK					TOP	TOP OF PIPE
						TOW	TOP OF WALL
CMD	CHEROKEE METROPOLITAN DISTRICT					TYP	TYPICAL
						WL	WATER LINE

STRUCTURES MUST BE APPROVED BY THE ENGINEER OF RECORD ADMINSTRATOR 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 IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
13. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER 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 GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
14. 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.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
16. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN.
17. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED.
18. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
19. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS 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.
20. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL

SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.

21. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
22. 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.
23. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
24. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
25. 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.
26. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY CTL THOMPSON DATED JULY 2024.
27. 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:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL DIVISION
WQCD - PERMITS
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246-1530
ATTN: PERMITS UNIT

28. NO NOTABLE VEGETATION ONSITE, ONLY NATIVE GRASSES AND SHRUBS.

29. NO GRADING OR DISTURBANCE SHALL OCCUR WITHIN THE 100-YR FLOODPLAIN UNTIL PERMITTING IS ACQUIRED.

NRCS SOIL SURVEY FOR EL PASO COUNTY

SOIL ID NO.	SOIL TYPE	HYDROLOGIC CLASSIFICATION
8	BLAKELAND LOAMY SAND (1%-9% SLOPES)	A
10	BLENDON SANDY LOAM (0%-3% SLOPES)	B

TIMING

ANTICIPATED STARTING AND COMPLETION TIME PERIOD OF SITE GRADING:
MAY 2025 THRU SEPTEMBER 2025

EXPECTED DATE ON WHICH THE FINAL STABILIZATION WILL BE COMPLETED:
MAY 2026

AREAS

TOTAL DISTURBED AREA: 9.62 ACRES

RECEIVING WATERS

SAND CREEK (ULTIMATE)

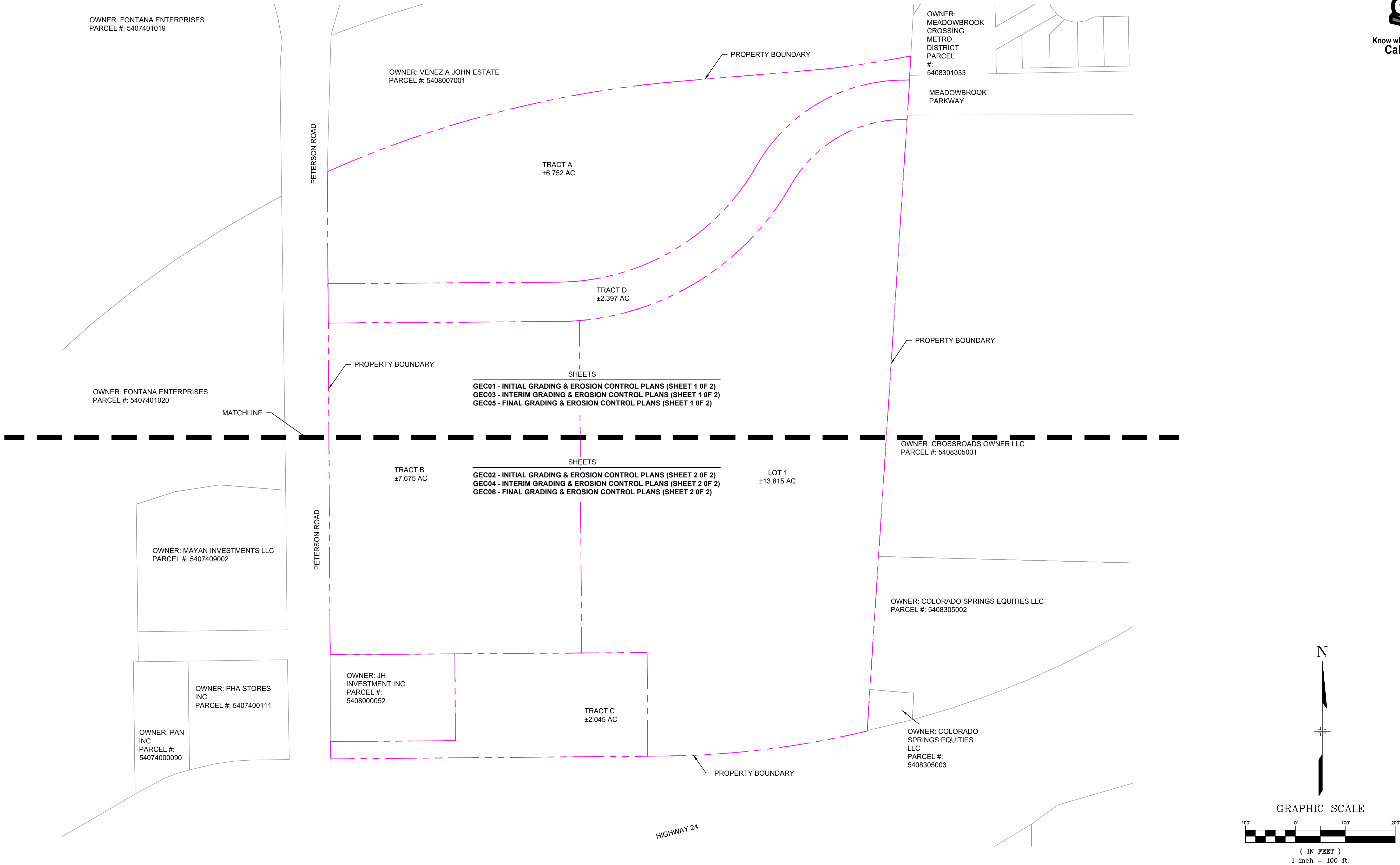


Know what's below.
Call before you dig.

NPDES NOTES:

1. THE CONTRACTOR SHALL REMOVE ALL SEDIMENT, MUD, AND CONSTRUCTION DEBRIS THAT MAY ACCUMULATE IN THE FLOWLINES AND PUBLIC RIGHTS OF WAYS AS A RESULT OF THIS CONSTRUCTION PROJECT. SAID REMOVAL SHALL BE CONDUCTED IN A TIMELY MANNER, OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO ADJACENT WATERWAYS, WETLANDS, ETC., RESULTING FROM WORK DONE AS PART OF THIS PROJECT.
3. THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM ENTERING THE STORM SEWER SYSTEM DURING ALL DEMOLITION, EXCAVATION, TRENCHING, BORING, GRADING OR OTHER CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT.
4. A LAYER OF SUITABLE MULCH SHALL BE APPLIED TO ALL DISTURBED PORTIONS OF THE SITE WITHIN 21 DAYS OF THE COMPLETION OF GRADING. SAID MULCH SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE AND SHALL BE TACKED OR FASTENED BY AN APPROVED METHOD SUITABLE FOR THE TYPE OF MULCH USED. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THEN SIXTY (60) DAYS SHALL ALSO BE SEEDED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMP'S SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED.
5. THE CONTRACTOR SHALL LOCATE, INSTALL, AND MAINTAIN ALL EROSION CONTROL AND WATER QUALITY "BEST MANAGEMENT PRACTICES" AS INDICATED IN THE APPROVED CONSTRUCTION ACTIVITIES STORMWATER MANAGEMENT PLAN. BMP'S SHALL BE MAINTAINED AND KEPT IN GOOD REPAIR FOR THE DURATION OF THIS PROJECT.
6. AT A MINIMUM, THE CONTRACTOR SHALL INSPECT, AND KEEP A LOG OF, ALL BMP'S WEEKLY AND AFTER SIGNIFICANT PRECIPITATION EVENTS. ALL NECESSARY MAINTENANCE AND REPAIR SHALL BE COMPLETED IN A TIMELY MANNER. ACCUMULATED SEDIMENT AND DEBRIS SHALL BE REMOVED FROM A BMP WHEN THE SEDIMENT LEVEL REACHES ONE-HALF THE HEIGHT OF THE BMP, OR, AT ANY TIME THAT SEDIMENT OR DEBRIS ADVERSELY IMPACTS THE FUNCTIONING OF THE BMP.
7. THE CONTRACTOR SHALL PROPERLY COVER ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO OR EXPORTED FROM THIS SITE TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORT WITHIN PUBLIC RIGHTS OF WAY.
8. THE USE OF REBAR, STEEL STAKES, OR STEEL FENCE POSTS TO STAKE DOWN STRAW OR HAY BALES; OR TO SUPPORT SILT FENCING USED AS AN EROSION CONTROL MEASURE; IS PROHIBITED. THE USE OF OSHA APPROVED COLORED WARNING CAPS ON REBAR OR FENCE POSTS USED WITH EROSION CONTROL MEASURES IS NOT ACCEPTABLE.
9. SOILS THAT WILL BE STOCKPILED FOR MORE THAN 30 DAYS SHALL BE MULCHED AND SEEDED WITH A TEMPORARY OR PERMANENT GRASS COVER WITHIN 21 DAYS OF STOCKPILE CONSTRUCTION. IF STOCKPILES ARE LOCATED WITHIN 100 FEET OF A DRAINAGEWAY, ADDITIONAL SEDIMENT CONTROLS SUCH AS TEMPORARY DIKES OR SILT FENCE SHALL BE REQUIRED.
10. MODIFICATION OF AN ACTIVE EROSION AND SEDIMENT CONTROL PERMIT BY THE CONTRACTOR SHALL REQUIRE TIMELY NOTIFICATION OF AND APPROVAL BY THE APPROPRIATE AGENCY. TERMINATION OF AN ACTIVE EROSION AND SEDIMENT CONTROL PERMIT UPON COMPLETION OF THE PROJECT REQUIRES NOTIFICATION OF AND APPROVAL.
11. UNLESS CONFINED IN THE SPECIFIED CONCRETE WASHOUT AREA, THE CLEANING OF CONCRETE TRUCK DELIVERY CHUTES IS PROHIBITED AT THE JOB SITE. THE DISCHARGE OF WATER CONTAINING WASTE CEMENT TO THE STORM SEWER SYSTEM IS PROHIBITED.
12. THE CONTRACTOR SHALL PROTECT ALL STORM SEWER FACILITIES ADJACENT TO ANY LOCATION WHERE PAVEMENT CUTTING OPERATIONS INVOLVING WHEEL CUTTING, SAW CUTTING OR ABRASIVE WATER JET CUTTING ARE TO TAKE PLACE. THE DISCHARGE OF ANY WATER CONTAMINATED BY WASTE PRODUCTS FROM CUTTING OPERATIONS TO THE STORM SEWER SYSTEM IS PROHIBITED. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL WASTE PRODUCTS GENERATED BY SAID CUTTING OPERATIONS ON A DAILY BASIS.

REFERENCE DRAWINGS X-MDG22x34 X-1382-EX-VIC MAP X-1382-PR-SITE X-1382-EX-MAP	##	##	##		##
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	No.	DATE		DESCRIPTION	BY
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				COMPUTER FILE MANAGEMENT	
				FILE NAME: S:\24.1382.003 Peterson Road and Meadowbrook Parkway Overall Development\500 CADD\504 Plan Sets\Construction Plans\GEC Plan\TS01.dwg	
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PREPARED BY: Matrix Excellence by Design					
SEAL					
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FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 24.1382.003					
DESIGNED BY:	MDF	SCALE		DATE ISSUED:	AUGUST 2024
DRAWN BY:	KGI	HORIZ	N/A	DRAWING No.	GN01
CHECKED BY:	JAO	VERT.	N/A	SHEET	2 OF 13



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BENCHMARK: NGS MONUMENT R76, BEING MONUMENTED BY A STANDARD U.S. COAST AND GEODETIC SURVEY BENCHMARK DISK SET IN THE TOP OF CONCRETE POST, STAMPED R 76 1935. ELEVATION WAS ESTABLISHED BY G.P.S OBSERVATIONS AND IS REFERENCED TO NAVD88. ELEVATION = 6,289.86 FEET.				
BASIS OF BEARING: REFERENCED TO THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 8, TOWNSHIP 14 SOUTH, RANGE 65 WEST, BEING MONUMENTED AT THE SOUTHWEST CORNER OF SECTION 8 BY A 3-1/4" ALUMINUM CAP IN RANGEBOX "LS 22573", AND AT THE WEST QUARTER CORNER OF SECTION 8 BY A 3-1/4" BRASS CAP STAMPED "BLM US DEPT INTERIOR", ASSUMED TO BEAR NORTH 00°23'14" WEST, A DISTANCE OF 2,641.77 FEET.				
PREPARED BY: <div>Matrix</div> <div>Excellence by Design</div>				
SEAL <div>PRELIMINARY</div> <div>THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE</div>				
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 24.1382.003				
DESIGNED BY:	MDF	SCALE		DATE ISSUED:
DRAWN BY:	KGI	HORIZ	N/A	AUGUST 2024
CHECKED BY:	JAO	VERT.	N/A	3 OF 13
DRAWING No.				MAP01
CIMARRON HILLS SOUTHEAST FILING NO. 1				
GRADING AND EROSION CONTROL PLANS EL PASO COUNTY, COLORADO				
SHEET KEY				

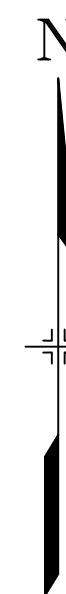


Know what's below.
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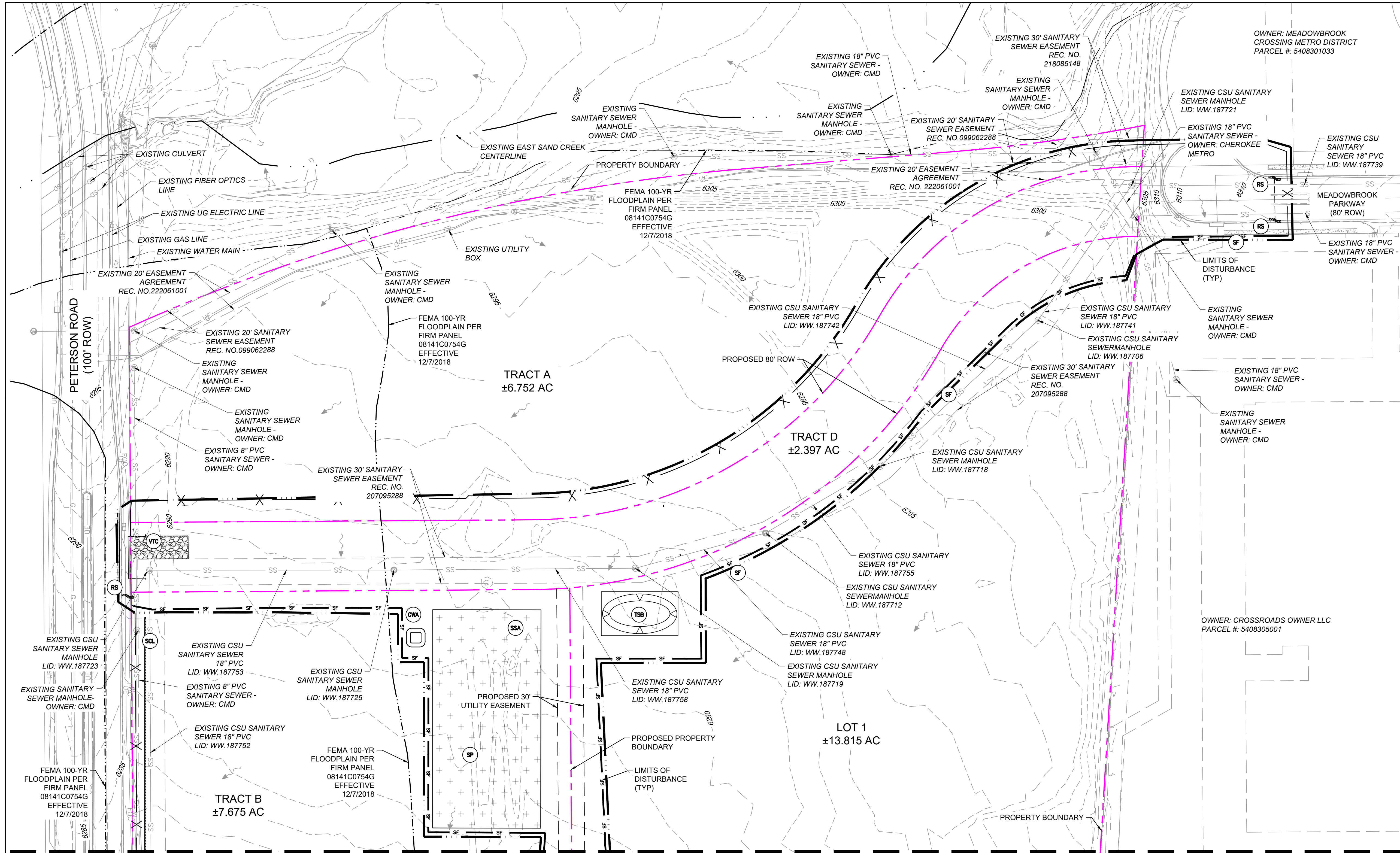
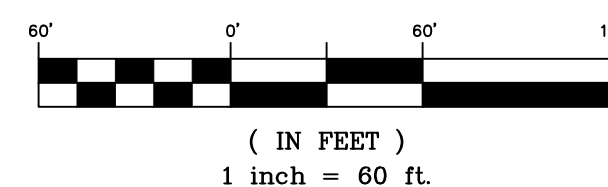
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EROSION CONTROL LEGEND

- SF SILT FENCE
- SCL SEDIMENT CONTROL LOG
- VTC VEHICLE TRACKING CONTROL
- CWA CONCRETE WASHOUT
- SSA STOCKPILE PROTECTION / STABILIZED STAGING AREA
- RS ROCK SOCK
- TSB TEMPORARY SEDIMENT BASIN
- 5975 EXISTING CONTOURS
- EXISTING OVERLAND FLOW
- LIMITS OF DISTURBANCE/ CONSTRUCTION SITE BOUNDARY
- CONSTRUCTION FENCING
- PROPERTY BOUNDARY
- FLOODPLAIN BOUNDARY
- EXISTING WATER MAIN
- EXISTING SANITARY SEWER MAIN
- EXISTING UNDERGROUND ELECTRIC
- EXISTING GAS
- EXISTING FIBER OPTICS
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER MANHOLE



GRAPHIC SCALE



MATCHLINE SHEET GEC02-INITIAL GRADING & EROSION CONTROL PLANS (SHEET 2 OF 2)

CCM SEQUENCING	
INITIAL	SILT FENCE, CONSTRUCTION FENCE, VEHICLE TRACKING CONTROL, SEDIMENT CONTROL LOGS, ROCK SOCKS, STOCKPILE LOCATION, STAGING AREA LOCATION, TEMP SEDIMENT BASINS, CONCRETE WASHOUT
INTERIM	INLET PROTECTION, EROSION CONTROL BLANKETS, PERMANENT SEDIMENT BASIN
FINAL	MULCHING AND SEEDING

REFERENCE DRAWINGS

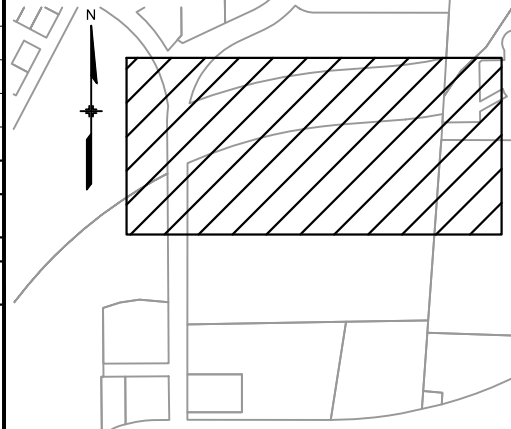
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X-1382-EX-MAP
X-MD022x34
X-1382-PR-SITE
X-1382-EX-UTIL
X-1382-EX-FEMA MAP
X-1382-PR-UTIL

No.	DATE	DESCRIPTION	BY
##	##	##	##
##	##	##	##
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COMPUTER FILE MANAGEMENT

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SHEET KEY



BENCHMARK:
NGS MONUMENT R76, BEING MONUMENTED BY A STANDARD U.S. COAST AND GEODETIC SURVEY BENCHMARK DISK SET IN THE TOP OF CONCRETE POST, STAMPED R 76 1935. ELEVATION WAS ESTABLISHED BY G.P.S OBSERVATIONS AND IS REFERENCED TO NAVD88. ELEVATION = 6,289.86 FEET.

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PREPARED BY:



SEAL

PRELIMINARY

THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 24.1382.003

CIMARRON HILLS SOUTHEAST FILING NO. 1

GRADING AND EROSION CONTROL PLANS
EL PASO COUNTY, COLORADO

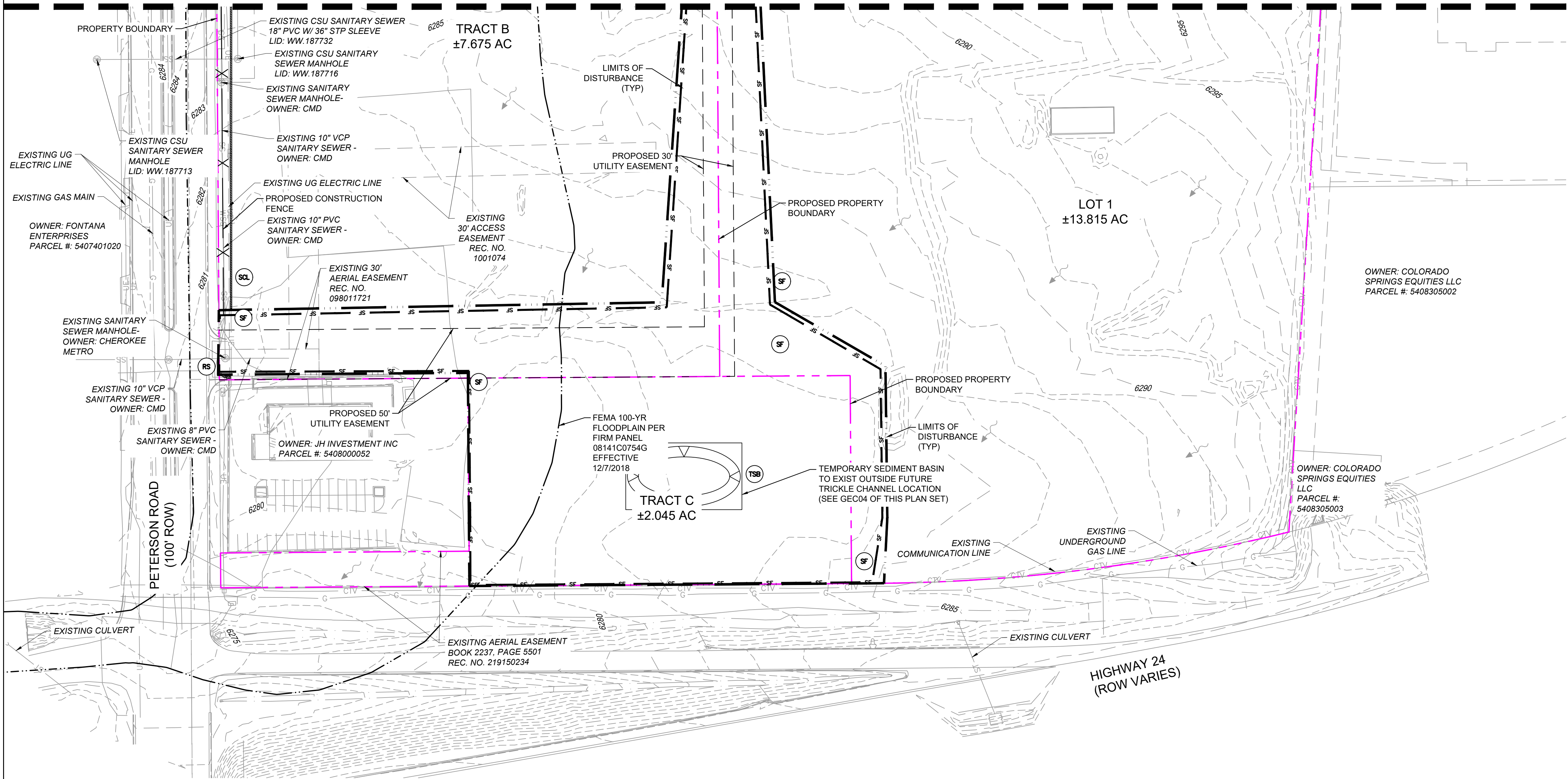
INITIAL GRADING & EROSION CONTROL PLANS (SHEET 1 OF 2)

DESIGNED BY:	MDJ	SCALE	DATE ISSUED:	AUGUST 2024	DRAWING No.
CHECKED BY:	JAO	HORIZ. VERT.	N/A N/A	SHEET	4 OF 13
					GEC01



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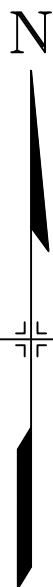
MATCHLINE SHEET GEC01-INITIAL GRADING & EROSION CONTROL PLANS (SHEET 1 OF 2)



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EROSION CONTROL LEGEND

- SF SILT FENCE
- SCL SEDIMENT CONTROL LOG
- VTC VEHICLE TRACKING CONTROL
- CWA CONCRETE WASHOUT
- SP SSA STOCKPILE PROTECTION / STABILIZED STAGING AREA
- RS ROCK SOCK
- TSB TEMPORARY SEDIMENT BASIN
- EXISTING CONTOURS
- EXISTING OVERLAND FLOW
- LIMITS OF DISTURBANCE/ CONSTRUCTION SITE BOUNDARY
- CONSTRUCTION FENCING
- PROPERTY BOUNDARY
- FLOODPLAIN BOUNDARY
- EXISTING WATER MAIN
- EXISTING SANITARY SEWER MAIN
- EXISTING UNDERGROUND ELECTRIC
- EXISTING GAS
- EXISTING FIBER OPTICS
- EXISTING COMMERCIAL LINE
- EXISTING SANITARY SEWER MANHOLE



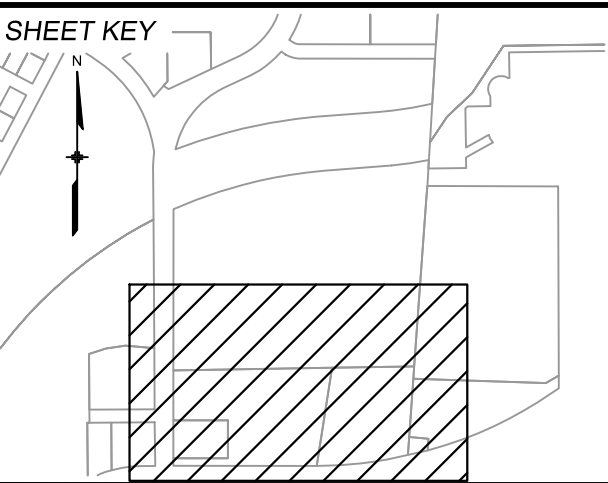
GRAPHIC SCALE



(IN FEET)
1 inch = 60 ft.

CCM SEQUENCING	
INITIAL	SILT FENCE, CONSTRUCTION FENCE, VEHICLE TRACKING CONTROL, SEDIMENT CONTROL LOGS, ROCK SOCKS, STOCKPILE LOCATION, STAGING AREA LOCATION, TEMP SEDIMENT BASINS
INTERIM	INLET PROTECTION, EROSION CONTROL BLANKETS, PERMANENT SEDIMENT BASIN
FINAL	MULCHING AND SEEDING

REFERENCE DRAWINGS			
X-1382-EX-SITE X-1382-EX-MAP X-MD022x34 X-1382-PR-SITE X-1382-EX-UTIL X-1382-EX-FEMA MAP X-1382-PR-UTIL	##	##	##
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REVISIONS			
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SEAL

PRELIMINARY
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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 24.1382.003

CIMARRON HILLS SOUTHEAST FILING NO. 1

GRADING AND EROSION CONTROL PLANS
EL PASO COUNTY, COLORADO

INITIAL GRADING & EROSION CONTROL
PLANS (SHEET 2 OF 2)

DESIGNED BY:	MDF	SCALE	DATE ISSUED:	AUGUST 2024	DRAWING No.
DRAWN BY:	KGI	HORIZ	N/A		
CHECKED BY:	JAO	VERT.	N/A	SHEET	5 OF 13
					GEC02



Know what's below.
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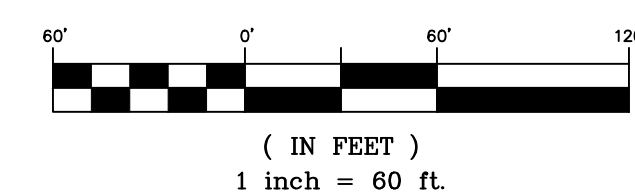
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EROSION CONTROL LEGEND

- SF SILT FENCE
- ECB EROSION CONTROL BLANKET
- SCL SEDIMENT CONTROL LOG
- VTC VEHICLE TRACKING CONTROL
- CWA CONCRETE WASHOUT
- SSA STOCKPILE PROTECTION / STABILIZED STAGING AREA
- IP INLET PROTECTION
- RS ROCK SOCK
- TSB TEMPORARY SEDIMENT BASIN
- HP LP HIGH POINT / LOW POINT
- PROPOSED CONTOURS
- EXISTING CONTOURS
- DRAINAGE SWALE
- SLOPE LABEL
- OVERLAND FLOW
- LIMITS OF DISTURBANCE/ CONSTRUCTION SITE BOUNDARY
- CONSTRUCTION FENCING
- OVERFLOW ROUTE
- PROPERTY BOUNDARY
- PROPOSED STORM DRAIN STRUCTURES
- EXISTING OVERLAND FLOW
- FLOODPLAIN BOUNDARY
- EXISTING WATER MAIN
- EXISTING SANITARY SEWER MAIN
- EXISTING UNDERGROUND ELECTRIC
- EXISTING GAS
- EXISTING FIBER OPTICS
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER MANHOLE

N

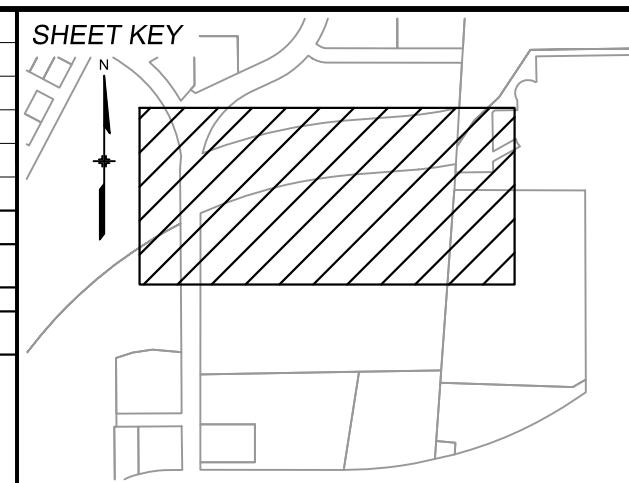
GRAPHIC SCALE



- NOTE:
- REFER TO (SD01-SD04) CONSTRUCTION DRAWINGS FOR STORM SEWER DESIGN
 - APPLY 4" OF TOPSOIL AND SEEDING TO SURFACE BEFORE EROSION CONTROL BLANKET INSTALLED

CCM SEQUENCING	
INITIAL	SILT FENCE, CONSTRUCTION FENCE, VEHICLE TRACKING CONTROL, SEDIMENT CONTROL LOGS, ROCK SOCKS, STOCKPILE LOCATION, STAGING AREA LOCATION, TEMP SEDIMENT BASINS
INTERIM	INLET PROTECTION, EROSION CONTROL BLANKETS, PERMANENT SEDIMENT BASIN
FINAL	MULCHING AND SEEDING

REFERENCE DRAWINGS				DESCRIPTION	BY
	No.	DATE		REVISIONS	
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PLOT DATE: August 23, 2024 8:38:03 AM					
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NGS MONUMENT R76, BEING MONUMENTED BY A STANDARD U.S. COAST AND GEODETIC SURVEY BENCHMARK DISK SET IN THE TOP OF CONCRETE POST, STAMPED R 76 1935. ELEVATION WAS ESTABLISHED BY G.P.S OBSERVATIONS AND IS REFERENCED TO NAVD88. ELEVATION = 6,289.86 FEET.

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SEAL

PRELIMINARY
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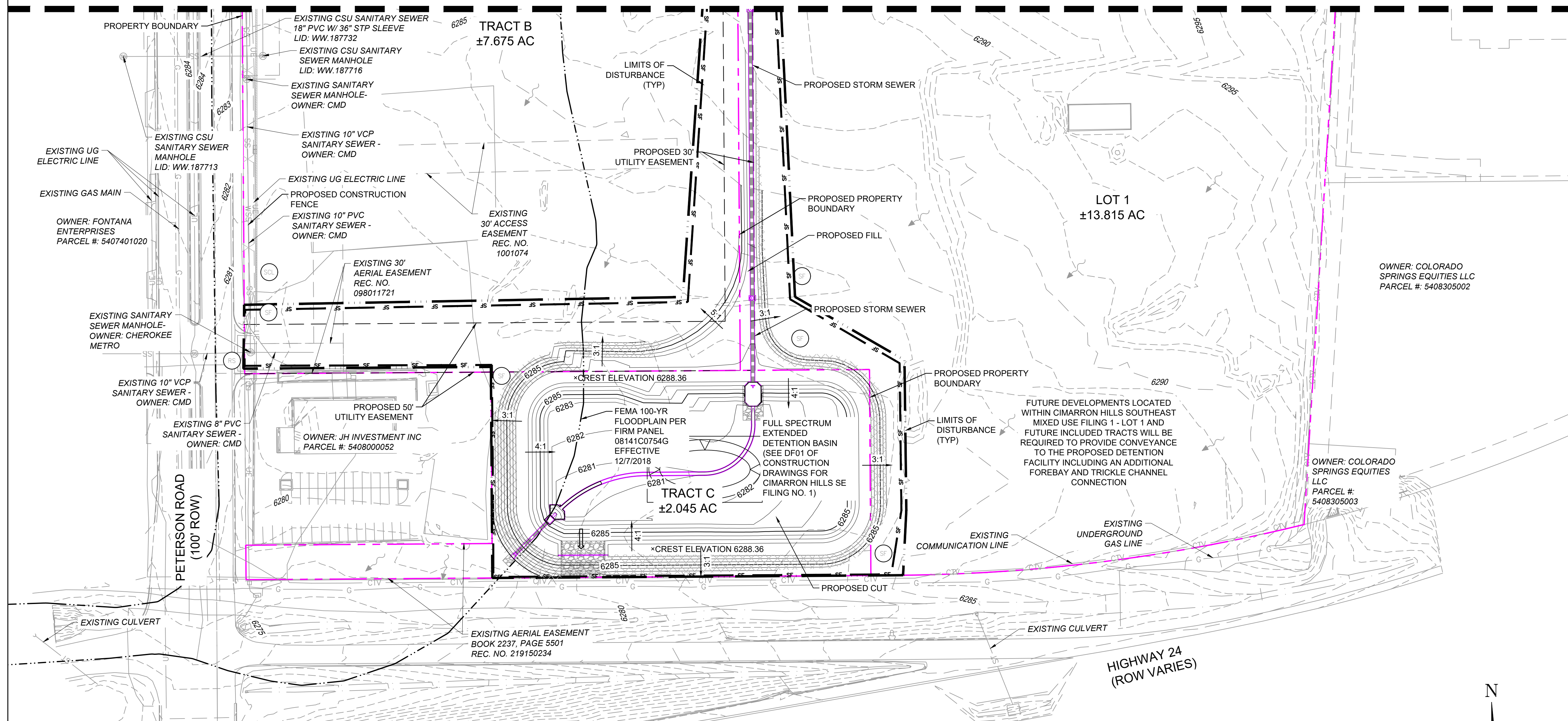
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 24.1382.003

CIMARRON HILLS SOUTHEAST FILING NO. 1			
GRADING AND EROSION CONTROL PLANS EL PASO COUNTY, COLORADO			
INTERIM GRADING & EROSION CONTROL PLANS (SHEET 1 OF 2)			
DESIGNED BY: MDF	SCALE: HORIZ	DATE ISSUED: AUGUST 2024	DRAWING No. GEC03
CHECKED BY: JAO	VERT. N/A	SHEET 6 OF 13	



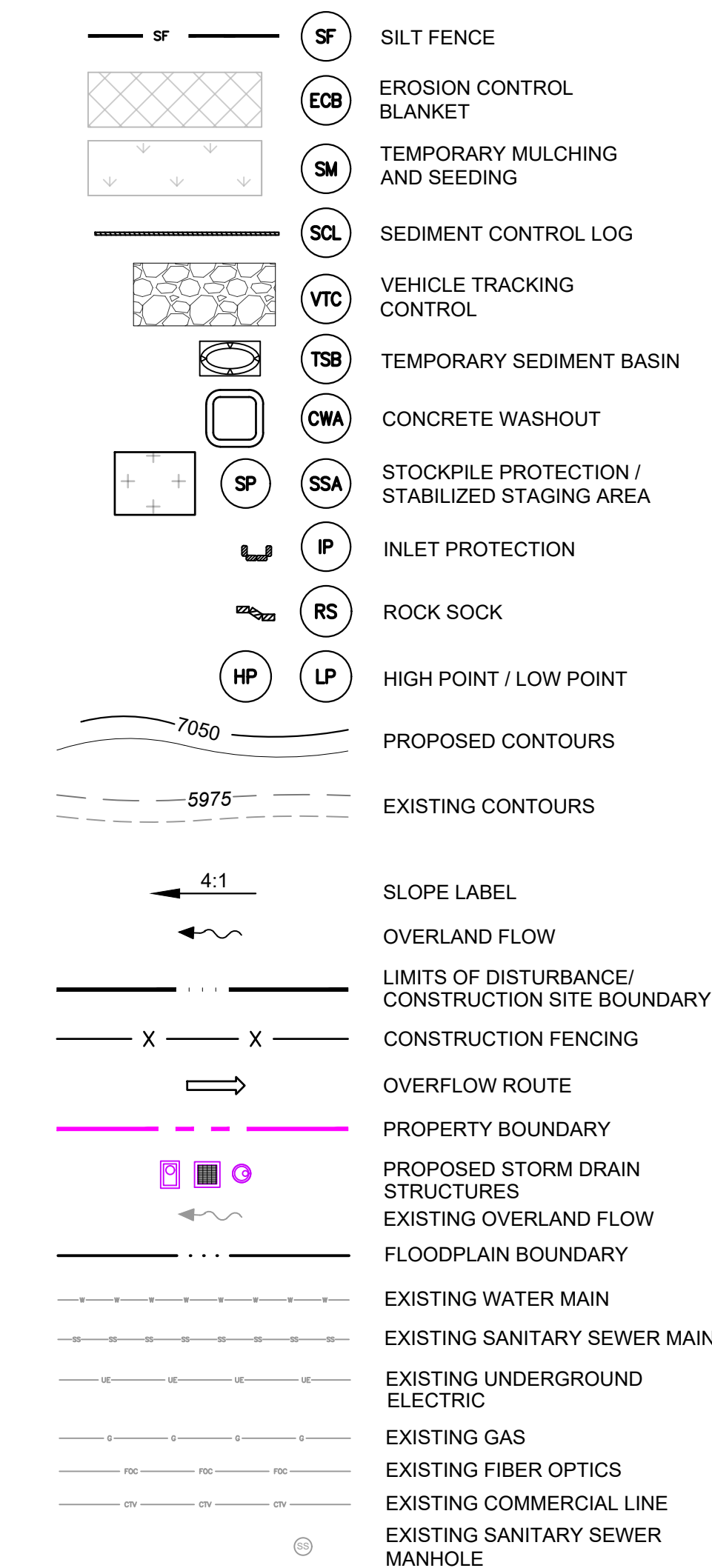
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MATCHLINE SHEET GEC03-INTERIM GRADING & EROSION CONTROL PLANS (SHEET 1 OF 2)



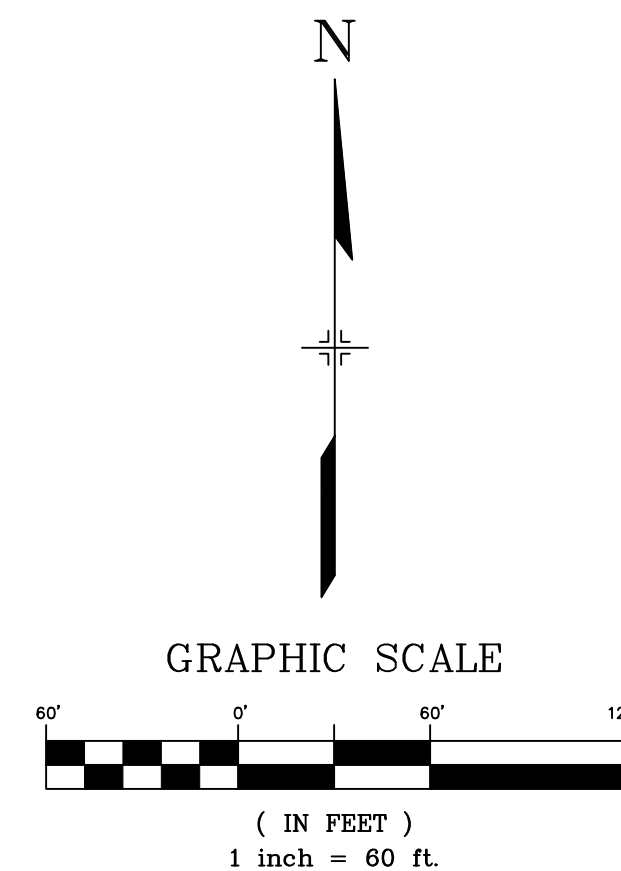
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EROSION CONTROL LEGEND

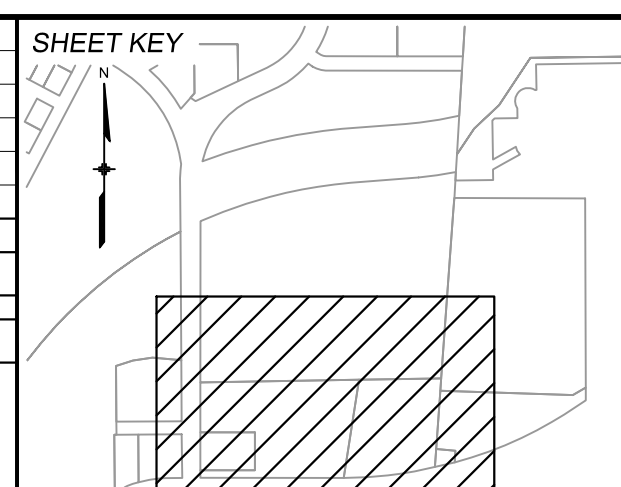


- NOTE:
- REFER TO (SD01-SD04) CONSTRUCTION DRAWINGS FOR STORM SEWER DESIGN
 - APPLY 4" OF TOPSOIL AND SEEDING TO SURFACE BEFORE EROSION CONTROL BLANKET INSTALLED

CCM SEQUENCING	
INITIAL	SILT FENCE, CONSTRUCTION FENCE, VEHICLE TRACKING CONTROL, SEDIMENT CONTROL LOGS, ROCK SOCKS, STOCKPILE LOCATION, STAGING AREA LOCATION, TEMP SEDIMENT BASINS
INTERIM	INLET PROTECTION, EROSION CONTROL BLANKETS, PERMANENT SEDIMENT BASIN
FINAL	MULCHING AND SEEDING



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PREPARED BY:
Matrix
Excellence by Design

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PRELIMINARY
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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 24.1382.003

CIMARRON HILLS SOUTHEAST FILING NO. 1
GRADING AND EROSION CONTROL PLANS
EL PASO COUNTY, COLORADO
INTERIM GRADING & EROSION CONTROL PLANS (SHEET 2 OF 2)
DESIGNED BY: MDF
DRAWN BY: KGI
CHECKED BY: JAO
SCALE: HORIZ. 1" = 60'
VERT. N/A
DATE ISSUED: AUGUST 2024
SHEET 7 OF 13
DRAWING No. GEC04



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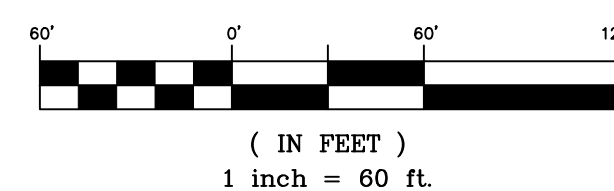
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EROSION CONTROL LEGEND

- SF SILT FENCE
- ECB EROSION CONTROL BLANKET
- SM TEMPORARY MULCHING AND SEEDING
- SCL SEDIMENT CONTROL LOG
- VTC VEHICLE TRACKING CONTROL
- TBS TEMPORARY SEDIMENT BASIN
- CWA CONCRETE WASHOUT
- SSA STOCKPILE PROTECTION / STABILIZED STAGING AREA
- IP INLET PROTECTION
- RS ROCK SOCK
- HP HP HIGH POINT / LOW POINT
- LP LP LOW POINT / HIGH POINT
- PROPOSED CONTOURS
- EXISTING CONTOURS
- SLOPE LABEL
- OVERLAND FLOW
- LIMITS OF DISTURBANCE/ CONSTRUCTION SITE BOUNDARY
- CONSTRUCTION FENCING
- OVERFLOW ROUTE
- PROPERTY BOUNDARY
- PROPOSED STORM DRAIN STRUCTURES
- EXISTING OVERLAND FLOW
- FLOODPLAIN BOUNDARY
- EXISTING WATER MAIN
- EXISTING SANITARY SEWER MAIN
- EXISTING UNDERGROUND ELECTRIC
- EXISTING GAS
- EXISTING FIBER OPTICS
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER MANHOLE

N

GRAPHIC SCALE



MATCHLINE SHEET GEC06-FINAL GRADING & EROSION CONTROL PLANS (SHEET 2 OF 2)

NOTE:

- REFER TO (SD01-SD04) CONSTRUCTION DRAWINGS FOR STORM SEWER DESIGN
- APPLY 4" OF TOPSOIL AND SEEDING TO SURFACE BEFORE EROSION CONTROL BLANKET INSTALLED

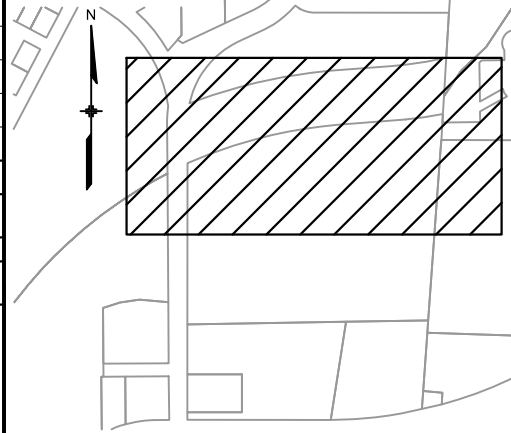
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INTERIM	INLET PROTECTION, EROSION CONTROL BLANKETS, PERMANENT SEDIMENT BASIN
FINAL	MULCHING AND SEEDING

REFERENCE DRAWINGS

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X-1382-EX-MAP
X-MD022234
X-1382-PR-SITE
X-1382-EX-UTIL
X-1382-EX-FEMA MAP
X-1382-PR-UTIL

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CTB FILE: Matrix.ctb				
PLOT DATE: August 23, 2024 8:38:13 AM				
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SHEET KEY



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PREPARED BY:



SEAL

PRELIMINARY
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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 24.1382.003

CIMARRON HILLS SOUTHEAST FILING NO. 1

GRADING AND EROSION CONTROL PLANS
EL PASO COUNTY, COLORADO

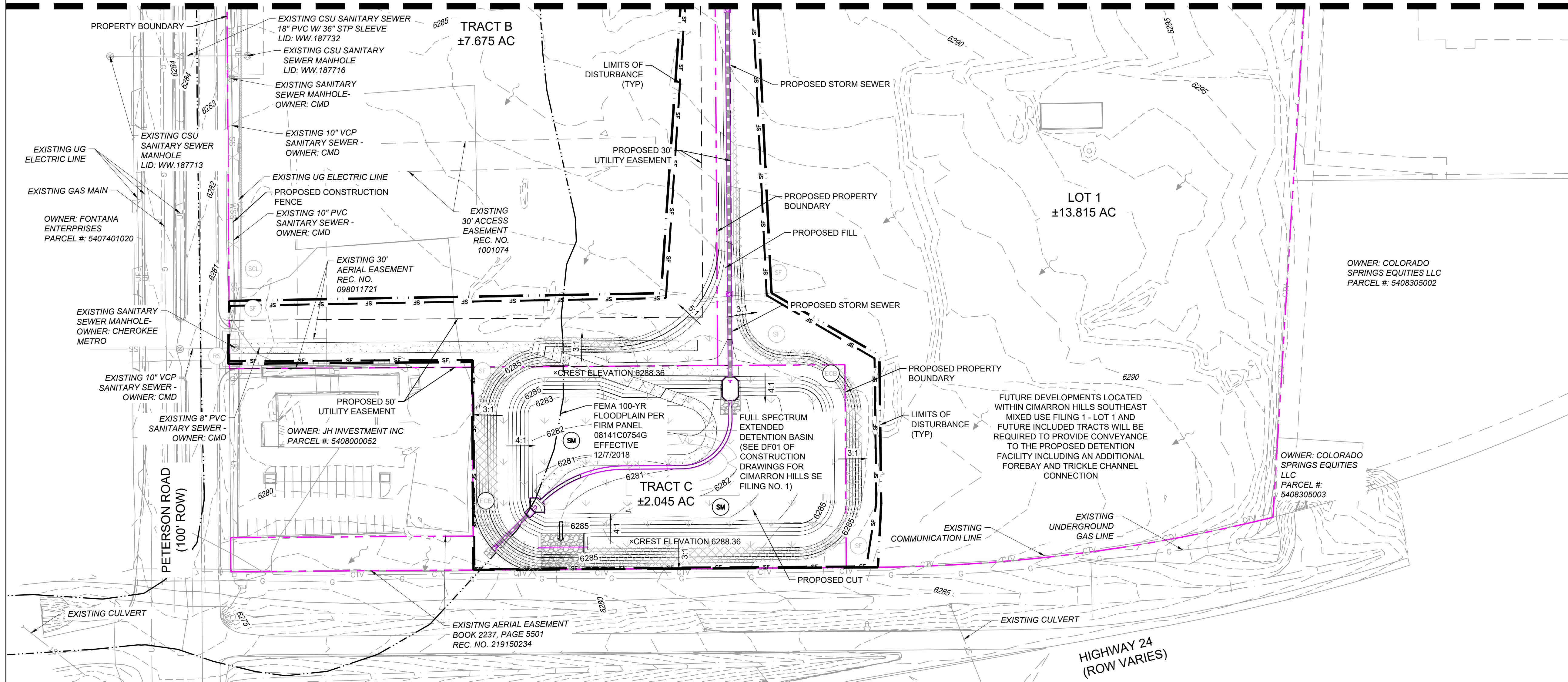
FINAL GRADING & EROSION CONTROL
PLANS (SHEET 1 OF 2)

DESIGNED BY: MDF SCALE: HORIZ 1" = 60' DATE ISSUED: AUGUST 2024 DRAWING No: GEC05
CHECKED BY: JAO VERT. N/A SHEET 8 OF 13



Know what's below.
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MATCHLINE SHEET GEC05-FINAL GRADING & EROSION CONTROL PLANS (SHEET 1 OF 2)



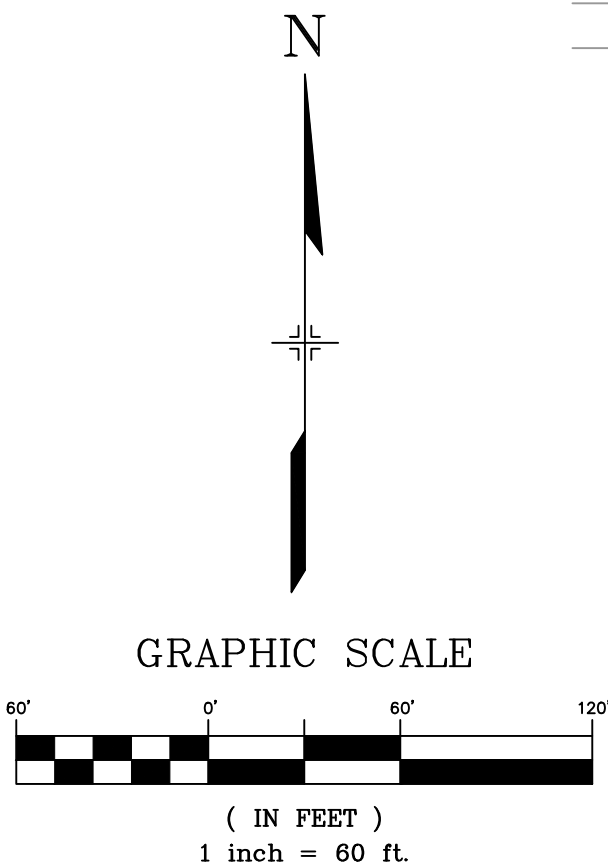
THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THEIR FAILURE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

EROSION CONTROL LEGEND

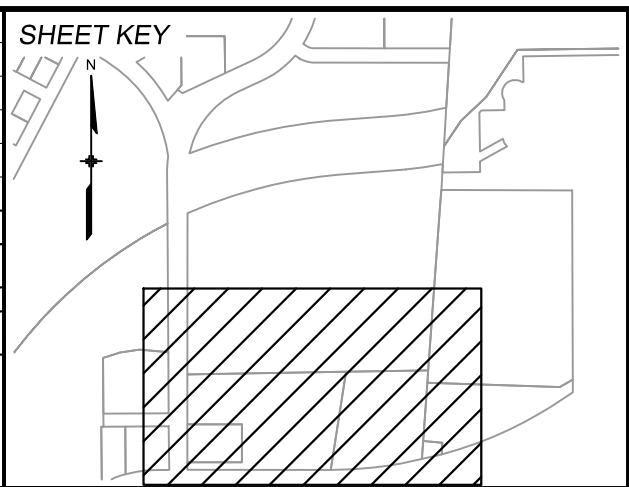
- SF SILT FENCE
- ECB EROSION CONTROL BLANKET
- SM TEMPORARY MULCHING AND SEEDING
- SCL SEDIMENT CONTROL LOG
- VTC VEHICLE TRACKING CONTROL
- SP STOCKPILE PROTECTION / STABILIZED STAGING AREA
- SSA STOCKPILE PROTECTION / STABILIZED STAGING AREA
- RS ROCK SOCK
- PROPOSED CONTOURS
- EXISTING CONTOURS
- SLOPE LABEL
- OVERLAND FLOW
- LIMITS OF DISTURBANCE/ CONSTRUCTION SITE BOUNDARY
- CONSTRUCTION FENCING
- OVERFLOW ROUTE
- PROPERTY BOUNDARY
- PROPOSED STORM DRAIN STRUCTURES
- EXISTING OVERLAND FLOW
- FLOODPLAIN BOUNDARY
- EXISTING WATER MAIN
- EXISTING SANITARY SEWER MAIN
- EXISTING UNDERGROUND ELECTRIC
- EXISTING GAS
- EXISTING FIBER OPTICS
- EXISTING COMMUNICATION LINE
- EXISTING SANITARY SEWER MANHOLE

- NOTE:
- REFER TO (SD01-SD04) CONSTRUCTION DRAWINGS FOR STORM SEWER DESIGN
 - APPLY 4" OF TOPSOIL AND SEEDING TO SURFACE BEFORE EROSION CONTROL BLANKET INSTALLED

CCM SEQUENCING	
INITIAL	SILT FENCE, CONSTRUCTION FENCE, VEHICLE TRACKING CONTROL, SEDIMENT CONTROL LOGS, ROCK SOCKS, STOCKPILE LOCATION, STAGING AREA LOCATION, TEMP SEDIMENT BASINS
INTERIM	INLET PROTECTION, EROSION CONTROL BLANKETS, PERMANENT SEDIMENT BASIN
FINAL	MULCHING AND SEEDING



REFERENCE DRAWINGS	##	##	##	DESCRIPTION	BY
	No.	DATE	##		
X-1382-EX-SITE X-1382-EX-MAP X-MD022x34 X-1382-PR-SITE X-1382-EX-UTIL X-1382-EX-FEMA MAP X-1382-PR-UTIL					
COMPUTER FILE MANAGEMENT					
FILE NAME: S:\24.1382.003 Peterson Road and Meadowbrook Parkway Overall Development\500 CADD\504 Plan Sets\Construction Plans\GEC Plan\GEC01.dwg					
CTB FILE: Matrix.ctb					
PLOT DATE: August 23, 2024 8:38:17 AM					
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.					



BENCHMARK:
NGS MONUMENT R76, BEING MONUMENTED BY A STANDARD U.S. COAST AND GEODETIC SURVEY BENCHMARK DISK SET IN THE TOP OF CONCRETE POST, STAMPED R 76 1935. ELEVATION WAS ESTABLISHED BY G.P.S. OBSERVATIONS AND IS REFERENCED TO NAVD88. ELEVATION = 6,289.86 FEET.

BASIS OF BEARING:
REFERENCED TO THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 8, TOWNSHIP 14 SOUTH, RANGE 65 WEST, BEING MONUMENTED AT THE SOUTHWEST CORNER OF SECTION 8 BY A 3-1/4" ALUMINUM CAP IN RANGEBOX "LS 22573", AND AT THE WEST QUARTER CORNER OF SECTION 8 BY A 3-1/4" BRASS CAP STAMPED "BLM US DEPT INTERIOR", ASSUMED TO BEAR NORTH 00°23'14" WEST, A DISTANCE OF 2,641.77 FEET.



SEAL

PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 24.1382.003

CIMARRON HILLS SOUTHEAST FILING NO. 1

GRADING AND EROSION CONTROL PLANS
EL PASO COUNTY, COLORADO

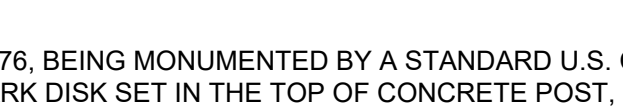
FINAL GRADING & EROSION CONTROL
PLANS (SHEET 2 OF 2)

DESIGNED BY:	MDJ	SCALE:	DATE ISSUED:	AUGUST 2024	DRAWING No.
DRAWN BY:	KGI	HORIZ.	1" = 60'		
CHECKED BY:	JAO	VERT.	N/A	SHEET	9 OF 13


GEC06



REFERENCE DRAWINGS X-MD022x34	##	##	##	##
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	REVISIONS			
	COMPUTER FILE MANAGEMENT			
	FILE NAME: S124.1382.003 Peterson Road and Meadowbrook Parkway Overall Development\500 CADD\504 Plan Sets\Construction Plans\GEC Plan\ECD01.dwg CTB FILE: Matrix.ctb PLOT DATE: August 23, 2024 8:38:40 AM THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

			
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BENCHMARK: NGS MONUMENT R76, BEING MONUMENTED BY A STANDARD U.S. COAST AND GEODETIC SURVEY BENCHMARK DISK SET IN THE TOP OF CONCRETE POST, STAMPED R 76 1935. ELEVATION WAS ESTABLISHED BY G.P.S OBSERVATIONS AND IS REFERENCED TO NAVD88. ELEVATION = 6,289.86 FEET.			
BASIS OF BEARING: REFERENCED TO THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 8, TOWNSHIP 14 SOUTH, RANGE 65 WEST, BEING MONUMENTED AT THE SOUTHWEST CORNER OF SECTION 8 BY A 3-1/4" ALUMINUM CAP IN RANGEBOX "LS 22573", AND AT THE WEST QUARTER CORNER OF SECTION 8 BY A 3-1/4" BRASS CAP STAMPED "BLM US DEPT INTERIOR", ASSUMED TO BEAR NORTH 00°23'14" WEST, A DISTANCE OF 2,641.77 FEET.			

PREPARED BY: 			
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SEAL <div>PRELIMINARY THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE</div>			
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 24.1382.003			
DESIGNED BY: MDF		SCALE	
DRAWN BY: KGI		HORIZ N/A	
CHECKED BY: JAO		VERT. N/A	
DATE ISSUED: AUGUST 2024		SHEET 10 OF 13	
DRAWING No. ECD01			

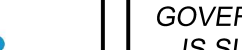
CIMARRON HILLS SOUTHEAST FILING NO. 1			
GRADING AND EROSION CONTROL PLANS EL PASO COUNTY, COLORADO			
GRADING & EROSION CONTROL DETAILS (SHEET 1 OF 4)			



Know what's below.
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<div><div>Stockpile Management (SP)</div><div>MM-2</div><div><p>SP-1. STOCKPILE PROTECTION</p><p>STOCKPILE PROTECTION INSTALLATION NOTES</p><ol style="list-style-type: none">SEE PLAN VIEW FOR:<ul style="list-style-type: none">LOCATION OF STOCKPILES.TYPE OF STOCKPILE PROTECTION.INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS. HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A REFURBISHED OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOIL STOCKPILES FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNSTREAM CONTROLS INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.</div><div><div>November 2010</div><div>Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3</div><div>SP-3</div></div></div>	<div><div>MM-2</div><div>Stockpile Management (SM)</div><div><p>STOCKPILE PROTECTION MAINTENANCE NOTES</p><ol style="list-style-type: none">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.FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.<p>STOCKPILE PROTECTION MAINTENANCE NOTES</p><ol style="list-style-type: none">IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.<p>(DETAILS ADAPTED FROM PAPER, COLORADO, NOT AVAILABLE IN ARTICLES)</p><p>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.</p></div><div><div>SP-4</div><div>Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3</div><div>November 2010</div></div></div>	<div><div>Stockpile Management (SP)</div><div>MM-2</div><div><p>SP-2. MATERIALS STAGING IN ROADWAY</p><p>MATERIALS STAGING IN ROADWAYS INSTALLATION NOTES</p><ol style="list-style-type: none">SEE PLAN VIEW FOR:<ul style="list-style-type: none">LOCATION OF MATERIAL STAGING AREAS.CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.FEATURES MUST BE INSTALLED PRIOR TO EXCAVATION, EARTHWORK OR DELIVERY OF MATERIALS.MATERIALS MUST BE STATIONED ON THE POLY LINER. ANY INCIDENTAL MATERIALS DEPOSITED ON PAVED SURFACE OR ALONG CURB LINE MUST BE CLEANED UP PROMPTLY.POLY LINER AND TARP COVER SHOULD BE OF SUFFICIENT THICKNESS TO PREVENT DAMAGE OR LOSS OF INTEGRITY.SAND BAGS MAY BE SUBSTITUTED TO ANCHOR THE COVER TARP OR PROVIDE BERMING UNDER THE BERM LINES.FEATURE IS NOT INTENDED FOR USE WITH WET MATERIAL THAT WILL BE DRAINING AND/OR SPREADING OUT ON THE POLY LINER OR FOR DENSIFICATION MATERIALS.THIS FEATURE CAN BE USED FOR:<ul style="list-style-type: none">UTILITY REPAIRS.WEEK-LONG STAGING LOCATIONS AND OPTIONS ARE LIMITED.OTHER LIMITED APPLICATION AND SHORT DURATION STAGING.</div><div><div>November 2010</div><div>Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3</div><div>SP-5</div></div></div>	<div><div>MM-2</div><div>Stockpile Management (SM)</div><div><p>MATERIALS STAGING IN ROADWAYS MAINTENANCE NOTES</p><ol style="list-style-type: none">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.FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.INSPECT PVC PIPE ALONG CURB LINE FOR CLOSING AND DEBRIS. REMOVE OBSTRUCTIONS PROMPTLY.CLEAN MATERIAL FROM PAVED SURFACES BY SWEEPING OR VACUUMING.<p>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.</p><p>(DETAILS ADAPTED FROM PAPER, COLORADO)</p></div><div><div>SP-6</div><div>Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3</div><div>November 2010</div></div></div>	<div><div>Stabilized Staging Area (SSA)</div><div>SM-6</div><div><p>SSA-1. STABILIZED STAGING AREA</p><p>STABILIZED STAGING AREA INSTALLATION NOTES</p><ol style="list-style-type: none">SEE PLAN VIEW FOR:<ul style="list-style-type: none">LOCATION OF STAGING AREAS.CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OPERATING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. 7003, ASPHALT #3 CORSE AGGREGATE OR 8" (MINUS) ROCK.ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.<p>STABILIZED STAGING AREA MAINTENANCE NOTES</p><ol style="list-style-type: none">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.FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.ROCK SHALL BE REAPPLIED OR REGRANDED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.</div><div><div>November 2010</div><div>Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3</div><div>SSA-3</div></div></div>	<div><div>SM-6</div><div>Stabilized Staging Area (SSA)</div><div><p>STABILIZED STAGING AREA MAINTENANCE NOTES</p><ol style="list-style-type: none">STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.THE STABILIZED STAGING AREA SHALL BE REWORKED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE AND THE AREA COVERED WITH TOPSOIL, SEEDS AND MULCHES OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.<p>NOTE: MANY JURISDICTIONS PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.</p><p>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.</p><p>(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN ARTICLES)</p></div><div><div>SSA-4</div><div>Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3</div><div>November 2010</div></div></div>
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<div><div>SC-6</div><div>Inlet Protection (IP)</div><div><p>IP-3. Rock Sock Inlet Protection for Sump/Area Inlet</p><p>IP-4. Silt Fence Inlet Protection for Sump/Area Inlet</p><p>IP-5. Over-excavation Inlet Protection</p><p>IP-6. Straw Bale Inlet Protection for Sump/Area Inlet</p><p>CIP-1. Culvert Inlet Protection</p><p>Proprietary inlet protection devices should be installed in accordance with manufacturer specifications.</p><p>More information is provided below on selecting inlet protection for sump and on-grade locations.</p><p>Inlets Located in a Sump</p><p>When applying inlet protection in sump conditions, it is important that the inlet continue to function during larger runoff events. For curb inlets, the maximum height of the protective barrier should be lower than the top of the curb opening to allow overflow into the inlet during larger storms without excessive localized flooding. If the inlet protection height is greater than the curb elevation, particularly if the filter becomes clogged with sediment, runoff will not enter the inlet and may bypass it, possibly causing localized flooding, public safety issues, and downstream erosion and damage from bypassed flows.</p><p>Area inlets located in a sump setting can be protected through the use of silt fence, concrete block and rock socks (on paved surfaces), sediment control log/straw wattles embedded in the adjacent soil and checked around the area inlet (on pervious surfaces), over-excavation around the inlet, and proprietary products providing equivalent functions.</p><p>Inlets Located on a Slope</p><p>For curb and gutter inlets on paved sloping streets, block and rock sock inlet protection is recommended in conjunction with curb socks in the gutter leading to the inlet. For inlets located along unpaved roads, also see the Check Dam Fact Sheet.</p><p>Maintenance and Removal</p><p>Inspect inlet protection frequently. Inspection and maintenance guidance includes:</p><ul style="list-style-type: none">Inspect for tears that can result in sediment directly entering the inlet, as well as result in the contents of the BMP (e.g., gravel) washing into the inlet.Check for improper installation resulting in untreated flows bypassing the BMP and directly entering the inlet or bypassing to an unprotected downstream inlet. For example, silt fence that has not been properly tensioned around the inlet can result in flows under the silt fence and directly into the inlet.Look for displaced BMPs that are no longer protecting the inlet. Displacement may occur following larger storm events that wash away or reposition the inlet protection. Traffic or equipment may also crush or displace the BMP.Monitor sediment accumulation upgradient of the inlet protection.</div><div><div>IP-2</div><div>Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3</div><div>August 2013</div></div></div>	<div><div>Inlet Protection (IP)</div><div>SC-6</div><div><ul style="list-style-type: none">Remove sediment accumulation from the area upstream of the inlet protection, as needed to maintain BMP effectiveness, typically when it reaches no more than half the storage capacity of the inlet protection. For silt fence, remove sediment when it accumulates to a depth of no more than 6 inches. Remove sediment accumulation from the area upstream of the inlet protection as needed to maintain the functionality of the BMP.Proprietary inlet protection devices should be inspected and maintained in accordance with manufacturer specifications. If proprietary inlet insert devices are used, sediment should be removed in a timely manner to prevent devices from breaking and spilling sediment into the storm drain.<p>Inlet protection must be removed and properly disposed of when the drainage area for the inlet has reached final stabilization.</p></div><div><div>August 2013</div><div>Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3</div><div>IP-3</div></div></div>	<div><div>SC-6</div><div>Inlet Protection (IP)</div><div><p>IP-1. BLOCK AND ROCK SOCK SUMP OR ON-GRADE INLET PROTECTION</p><p>BLOCK AND CURB SOCK INLET PROTECTION INSTALLATION NOTES</p><ol style="list-style-type: none">SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.CONCRETE "CINDER" BLOCKS SHALL BE Laid ON THEIR SIDES AROUND THE INLET IN A SINGLE ROW, ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB.GRAVEL BAGS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.</div><div><div>IP-4</div><div>Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3</div><div>August 2013</div></div></div>	<div><div>Inlet Protection (IP)</div><div>SC-6</div><div><p>IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION</p><p>ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES</p><ol style="list-style-type: none">SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.CONCRETE "CINDER" BLOCKS SHALL BE Laid ON THEIR SIDES AROUND THE INLET IN A SINGLE ROW, ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB.GRAVEL BAGS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.</div><div><div>IP-4</div><div>Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3</div><div>August 2013</div></div></div>	<div><div>Inlet Protection (IP)</div><div>SC-6</div><div><p>IP-4. SILT FENCE FOR SUMP INLET PROTECTION</p><p>SILT FENCE INLET PROTECTION INSTALLATION NOTES</p><ol style="list-style-type: none">SEE SILT FENCE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.POSTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MINIMUM SPACING OF 3 FEET.STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF SILT FENCE FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.</div><div><div>IP-5</div><div>Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3</div><div>August 2013</div></div></div>	<div><div>SC-6</div><div>Inlet Protection (IP)</div><div><p>IP-6. STRAW BALE FOR SUMP INLET PROTECTION</p><p>STRAW BALE BARRIER INLET PROTECTION INSTALLATION NOTES</p><ol style="list-style-type: none">SEE STRAW BALE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.BALES SHALL BE PLACED IN A SINGLE ROW AROUND THE INLET WITH ENDS OF BALES TIGHTLY ABUTTING ONE ANOTHER.</div><div><div>IP-6</div><div>Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3</div><div>August 2013</div></div></div>
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REFERENCE DRAWINGS					<div><div>SHEET KEY</div></div>
X-MD22x34	##	##	##	##	
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No.	DATE	DESCRIPTION		BY	
REVISIONS					
COMPUTER FILE MANAGEMENT					
FILE NAME: S:\24.1382.003 Peterson Road and Meadowbrook Parkway Overall Development\500 CADD\504 Plan Sets\Construction Plans\GEC Plan\EC01.dwg					
CTB FILE: Matrix.ctb					
PLOT DATE: August 23, 2024 8:38:46 AM					
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PREPARED BY:  Matrix Excellence by Design					
SEAL					
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FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 24.1382.003					
DESIGNED BY: MDF	SCALE		DATE ISSUED: AUGUST 2024	DRAWING No. ECD02	
DRAWN BY: KGI	HORIZ	N/A			
CHECKED BY: JAO	VERT.	N/A	SHEET 11 OF 13		



Know what's below.
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Temporary and Permanent Seeding (TS/PS) EC-2

Seeding dates for the highest success probability of perennial species along the Front Range are generally in the spring from April through early May and in the fall after the first of September until the ground freezes. If the area is irrigated, seeding may occur in summer months, as well. See Table TS/PS-3 for appropriate seeding dates.

Table TS/PS-1. Minimum Drill Seeding Rates for Various Temporary Annual Grasses

Species* (Common name)	Growth Season	Pounds of Pure Live Seed (PLS)/acre ²	Planting Depth (inches)
1. Oats	Cool	25 - 30	1 - 2
2. Spring wheat	Cool	25 - 35	1 - 2
3. Spring barley	Cool	25 - 35	1 - 2
4. Annual ryegrass	Cool	10 - 15	½
5. Millet	Warm	3 - 15	½ - ¾
6. Sudangrass	Warm	5 - 10	½ - ¾
7. Sorghum	Warm	5 - 10	½ - ¾
8. Winter wheat	Cool	20 - 35	1 - 2
9. Winter barley	Cool	20 - 35	1 - 2
10. Winter rye	Cool	20 - 35	1 - 2
11. Triticale	Cool	25 - 40	1 - 2

* Successful seeding of annual grass resulting in adequate plant growth will usually produce enough dead-plant residue to provide protection from wind and water erosion for an additional year. This assumes that the cover is not disturbed or moved closer than 3 inches.

Hydraulic seeding may be substituted for drilling only where slopes are steeper than 3:1 or where access limitations exist. When hydraulic seeding is used, hydraulic mulching should be applied as a separate operation, when practical, to prevent the seeds from being encapsulated in the mulch.

² See Table TS/PS-3 for seeding dates. Irrigation, if consistently applied, may extend the use of cool season species during the summer months.

³ Seeding rates should be doubled if seed is broadcast, or increased by 50 percent if done using a Bellillon Drill or by hydraulic seeding.

EC-2 Temporary and Permanent Seeding (TS/PS)

Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses

Common* Name	Botanical Name	Growth Season ²	Growth Form	Seeds/ Pound	Pounds of PLS/acre
Alkali Soil Seed Mix					
Alkali warden	<i>Sporobolus airoides</i>	Cool	Bunch	1,750,000	0.25
Basin wildrye	<i>Elymus cinereus</i>	Cool	Bunch	165,000	2.5
Solar steambank wheatgrass	<i>Agropyron repens</i> 'Soda'	Cool	Sod	170,000	2.5
Jose tall wheatgrass	<i>Agropyron elongatum</i> 'Jose'	Cool	Bunch	79,000	7.0
Airiba western wheatgrass	<i>Agropyron smithii</i> 'Airiba'	Cool	Sod	110,000	5.5
Total					17.75
Fertile Loamy Soil Seed Mix					
Epibrium crested wheatgrass	<i>Agropyron cristatum</i> 'Epibrium'	Cool	Sod	175,000	2.0
Dural hard fescue	<i>Festuca ovina</i> 'duraeoides'	Cool	Bunch	565,000	1.0
Lincoln smooth brome	<i>Bromus inermis</i> 'levis	Cool	Sod	130,000	3.0
Solar steambank wheatgrass	<i>Agropyron repens</i> 'Soda'	Cool	Sod	170,000	2.5
Airiba western wheatgrass	<i>Agropyron smithii</i> 'Airiba'	Cool	Sod	110,000	7.0
Total					15.5
High Water Table Soil Seed Mix					
Meadow foxtail	<i>Alopecurus pratensis</i>	Cool	Sod	900,000	0.5
Redtop	<i>Agrostis alba</i>	Warm	Open sod	5,000,000	0.25
Reed canarygrass	<i>Phalaris arundinacea</i>	Cool	Sod	68,000	0.5
Lincoln smooth brome	<i>Bromus inermis</i> 'levis	Cool	Sod	130,000	3.0
Puttiferer crestedgrass	<i>Panicum virgatum</i>	Warm	Sod	389,000	1.0
Albar tall wheatgrass	<i>Agropyron elongatum</i> 'Albar'	Cool	Bunch	79,000	5.5
Total					10.75
Transition Turf Seed Mix³					
Redburn Canadian bluegrass	<i>Poa compressa</i> 'Redburn'	Cool	Sod	2,500,000	0.5
Dural hard fescue	<i>Festuca ovina</i> 'duraeoides'	Cool	Bunch	565,000	1.0
Citation perennial ryegrass	<i>Lolium perenne</i> 'Citation'	Cool	Sod	247,000	3.0
Lincoln smooth brome	<i>Bromus inermis</i> 'levis	Cool	Sod	130,000	3.0
Total					7.5

Temporary and Permanent Seeding (TS/PS) EC-2

Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses (cont.)

Common Name	Botanical Name	Growth Season ²	Growth Form	Seeds/ Pound	Pounds of PLS/acre
Sandy Soil Seed Mix					
Blue grama	<i>Bouteloua gracilis</i>	Warm	Sod-forming bunchgrass	825,000	0.5
Camper little bluestem	<i>Schizachyrium scoparium</i> 'Camper'	Warm	Bunch	240,000	1.0
Prairie sandreed	<i>Calamagrostis longifolia</i>	Warm	Open sod	274,000	1.0
Sand dropseed	<i>Sporobolus cynosuroides</i>	Cool	Bunch	5,200,000	0.25
Vaughn's sideoats grama	<i>Bouteloua curtipendula</i> 'Vaughn'	Warm	Sod	191,000	2.0
Airiba western wheatgrass	<i>Agropyron smithii</i> 'Airiba'	Cool	Sod	110,000	5.5
Total					10.25
Heavy Clay, Rocky Foothill Seed Mix					
Epibrium crested wheatgrass ⁴	<i>Agropyron cristatum</i> 'Epibrium'	Cool	Sod	175,000	1.5
Oake intermediate wheatgrass	<i>Agropyron intermedium</i> 'Oake'	Cool	Sod	115,000	5.5
Vaughn's sideoats grama ⁵	<i>Bouteloua curtipendula</i> 'Vaughn'	Warm	Sod	191,000	2.0
Lincoln smooth brome	<i>Bromus inermis</i> 'levis	Cool	Sod	130,000	3.0
Airiba western wheatgrass	<i>Agropyron smithii</i> 'Airiba'	Cool	Sod	110,000	5.5
Total					17.5

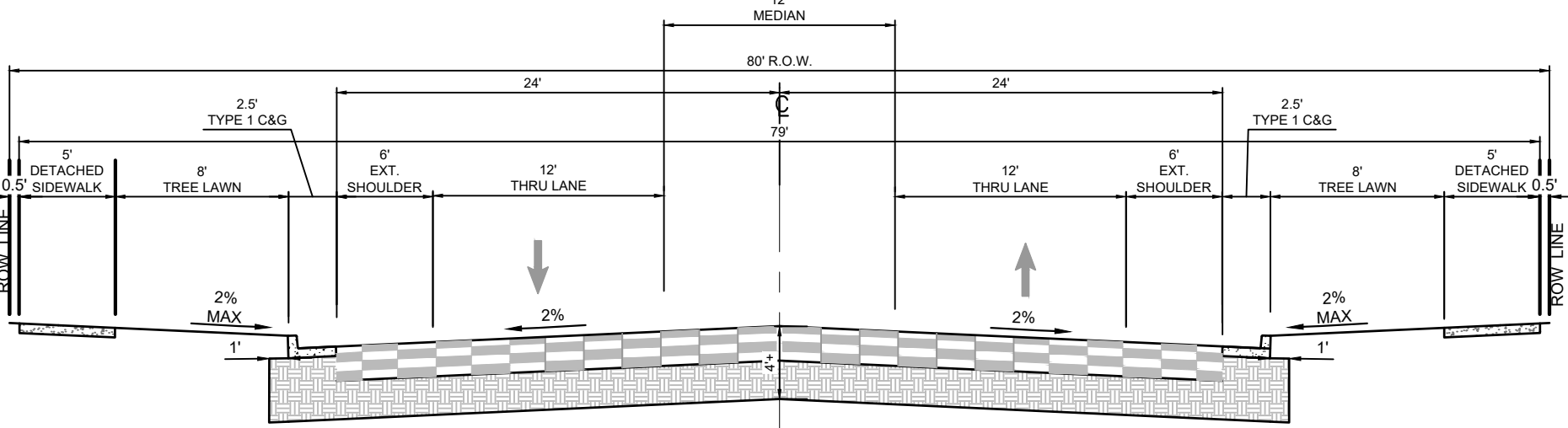
² All of the above seeding mixes and rates are based on drill seeding followed by crimped straw mulch. These rates should be doubled if seed is broadcast and should be increased by 50 percent if the seeding is done using a Bellillon Drill or is applied through hydraulic seeding. Hydraulic seeding may be substituted for drilling only where slopes are steeper than 3:1. If hydraulic seeding is used, hydraulic mulching should be done as a separate operation.

³ See Table TS/PS-3 for seeding dates.

⁴ If site is to be irrigated, the transition turf seed rates should be doubled.

⁵ Crested wheatgrass should not be used on slopes steeper than 6:1 to 1:1.

⁶ Can substitute 0.5 lbs PLS of blue grama for the 2.0 lbs PLS of Vaughn's sideoats grama.



COLLECTOR WITH NO PARKING

35 MPH POSTED, 40 MPH DESIGN

NOT TO SCALE

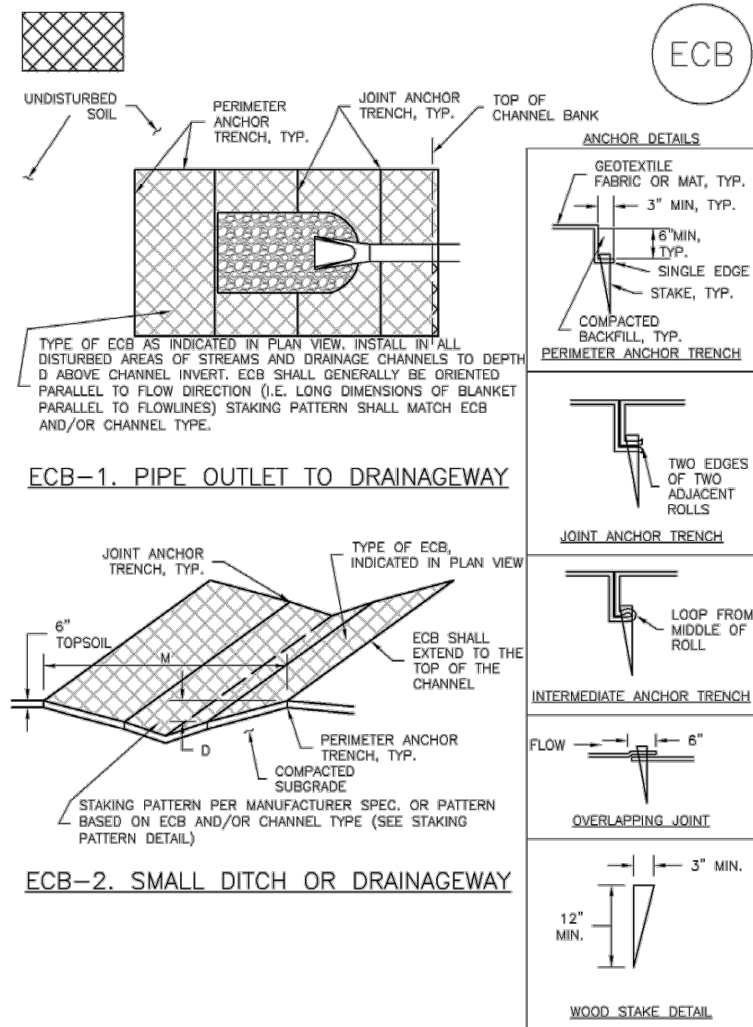
MEADOWBROOK PKWY

June 2012 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3 TS/PS-3

TS/PS-4 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3 June 2012

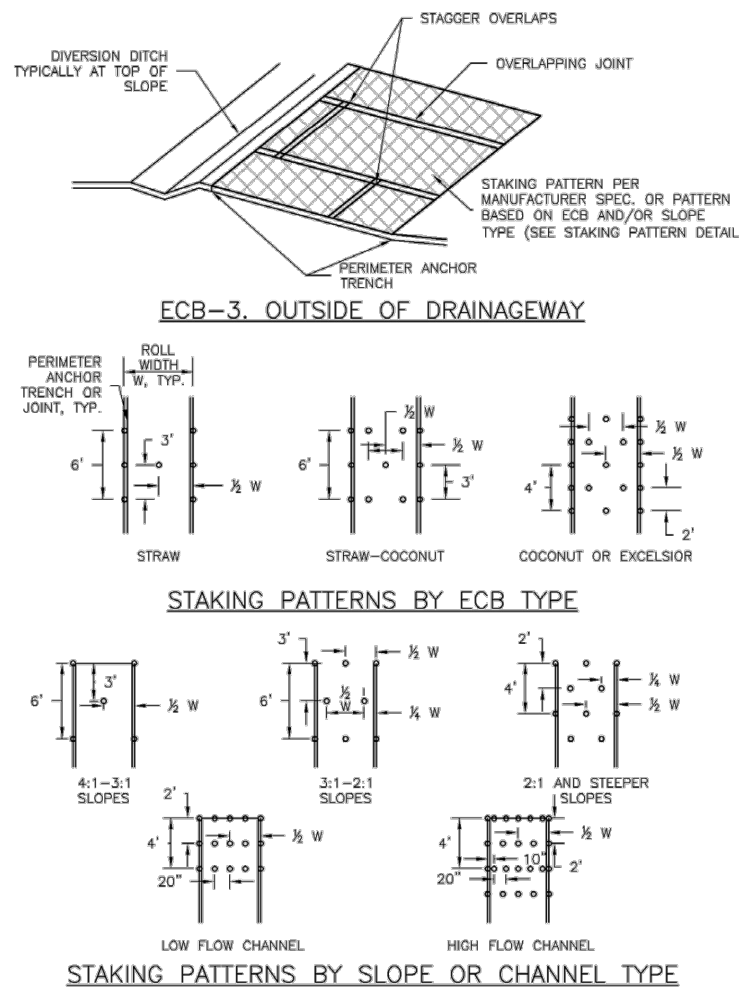
June 2012 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3 TS/PS-5

EC-6 Rolled Erosion Control Products (RECP)



RECP-6 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3 November 2010

Roller Erosion Control Products (RECP) EC-6



November 2010 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3 RECP-7

EC-6 Rolled Erosion Control Products (RECP)

EROSION CONTROL BLANKET INSTALLATION NOTES

- SEE PLAN VIEW FOR:
- LOCATION OF ECB.
- TYPE OF ECB (STRAW, STRAW-COCOONUT, COCONUT, OR EXCLESIOR).
- AREA, A, IN SQUARE YARDS OF EACH TYPE OF ECB.
- 100% NATURAL AND BIODEGRADABLE MATERIALS ARE PREFERRED FOR RECPs, ALTHOUGH SOME JURISDICTIONS MAY ALLOW OTHER MATERIALS IN SOME APPLICATIONS.
- IN AREAS WHERE ECBs ARE SHOWN ON THE PLANS, THE PERIMETER SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING AND MULCHING. SURFACING SHALL BE SMOOTH AND MOIST PRIOR TO ECB INSTALLATION AND THE ECB SHALL BE IN FULL CONTACT WITH SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET.
- PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL BLANKET AREAS.
- JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL ECBs EXCEPT STRAW WHICH MAY USE AN OVERLAPPING JOINT.
- INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF ROLL LENGTH FOR COCONUT AND EXCLESIOR ECBs.
- OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER FOR ECBs ON SLOPES.
- MATERIAL SPECIFICATIONS OF ECBs SHALL CONFORM TO TABLE ECB-1.
- ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING ECBs SHALL BE RESEEDED AND MULCHED.
- DETAILS ON DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION WILL GOVERN IF DIFFERENT FROM THOSE SHOWN HERE.

TABLE ECB-1. ECB MATERIAL SPECIFICATIONS				
TYPE	COCONUT CONTENT	STRAW CONTENT	EXCLESIOR CONTENT	RECOMMENDED NETTING**
STRAW*	-	100%	-	DOUBLE/ NATURAL
STRAW- COCONUT	30% MIN	70% MAX	-	DOUBLE/ NATURAL
COCONUT	100%	-	-	DOUBLE/ NATURAL
EXCLESIOR	-	-	100%	DOUBLE/ NATURAL

*STRAW MUST BE ONLY THE FIRST SURFACE OF STRAW THAT REMAINS EXPOSED.
**ALTERNATE NETTING MAY BE ACCEPTABLE IN SOME JURISDICTIONS.

RECP-8 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3 November 2010

Roller Erosion Control Products (RECP) EC-6

EROSION CONTROL BLANKET MAINTENANCE NOTES

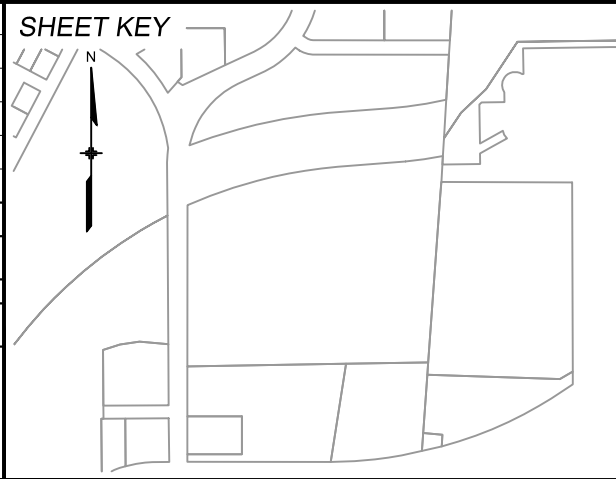
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ECBs SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUESTED TO BE REMOVED BY THE LOCAL JURISDICTION.
- ANY ECB PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REPLACED. ANY SUBGRADE AREAS BELOW THE VEGETATION THAT HAVE EXPOSED TO CREEPED A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE ECB REINSTALLED.

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.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

November 2010 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3 RECP-9

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



BENCHMARK:
NGS MONUMENT R76, BEING MONUMENTED BY A STANDARD U.S. COAST AND GEODETIC SURVEY BENCHMARK DISK SET IN THE TOP OF CONCRETE POST, STAMPED R 76 1935. ELEVATION WAS ESTABLISHED BY G.P.S OBSERVATIONS AND IS REFERENCED TO NAVD88. ELEVATION = 6,289.86 FEET.

BASIS OF BEARING:
REFERENCED TO THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 8, TOWNSHIP 14 SOUTH, RANGE 65 WEST, BEING MONUMENTED AT THE SOUTHWEST CORNER OF SECTION 8 BY A 3-1/4" ALUMINUM CAP IN RANGEBOX "LS 22573", AND AT THE WEST QUARTER CORNER OF SECTION 8 BY A 3-1/4" BRASS CAP STAMPED "BLM US DEPT INTERIOR", ASSUMED TO BEAR NORTH 00°23'14" WEST, A DISTANCE OF 2,641.77 FEET.



SEAL

PRELIMINARY
THIS DRAWING HAS NOT
BEEN APPROVED BY
GOVERNING AGENCIES AND
IS SUBJECT TO CHANGE

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 24.1382.003

CIMARRON HILLS SOUTHEAST FILING NO. 1

GRADING AND EROSION CONTROL PLANS
EL PASO COUNTY, COLORADO

GRADING & EROSION CONTROL DETAILS
(SHEET 3 OF 4)

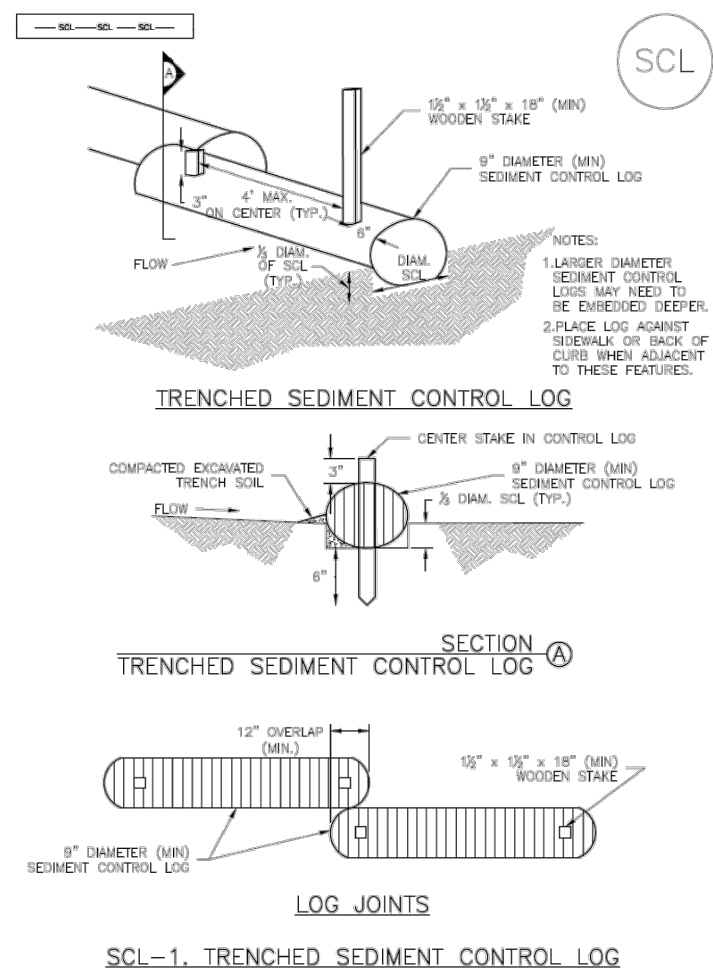
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Know what's below.
Call before you dig.

Sediment Control Log (SCL)

SC-2

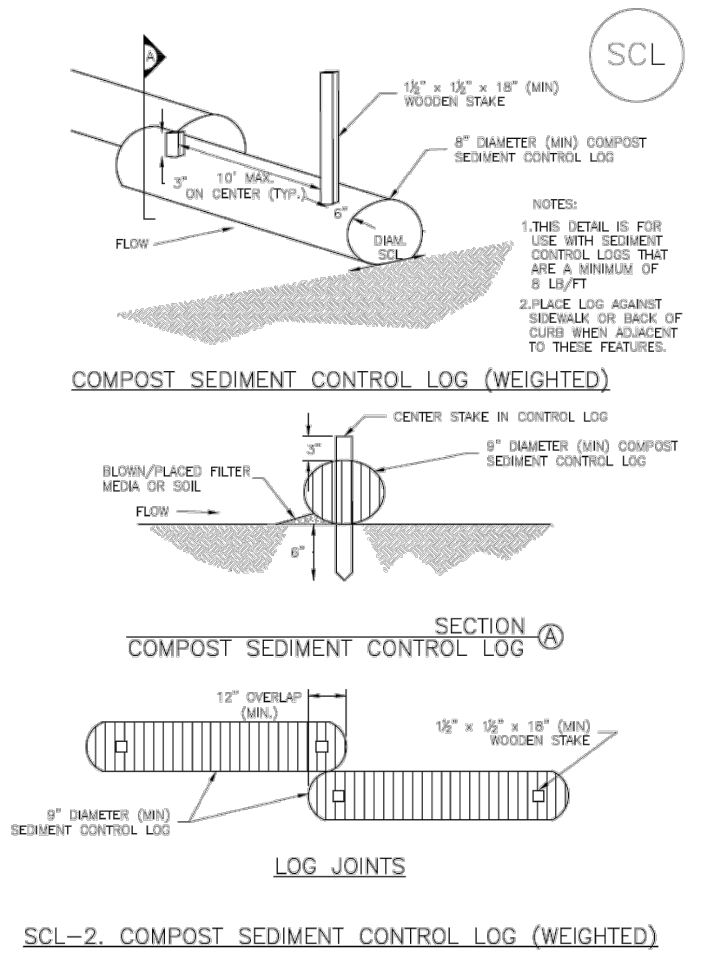


November 2015 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

SC1-3

SC-2

Sediment Control Log (SCL)

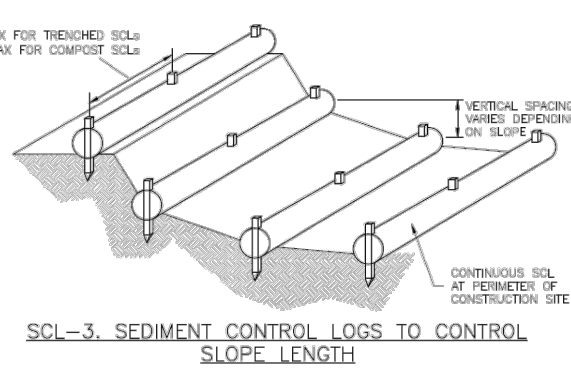


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SC1-4

Sediment Control Log (SCL)

SC-2



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Urban Storm Drainage Criteria Manual Volume 3

SC1-5

SC-2

Sediment Control Log (SCL)

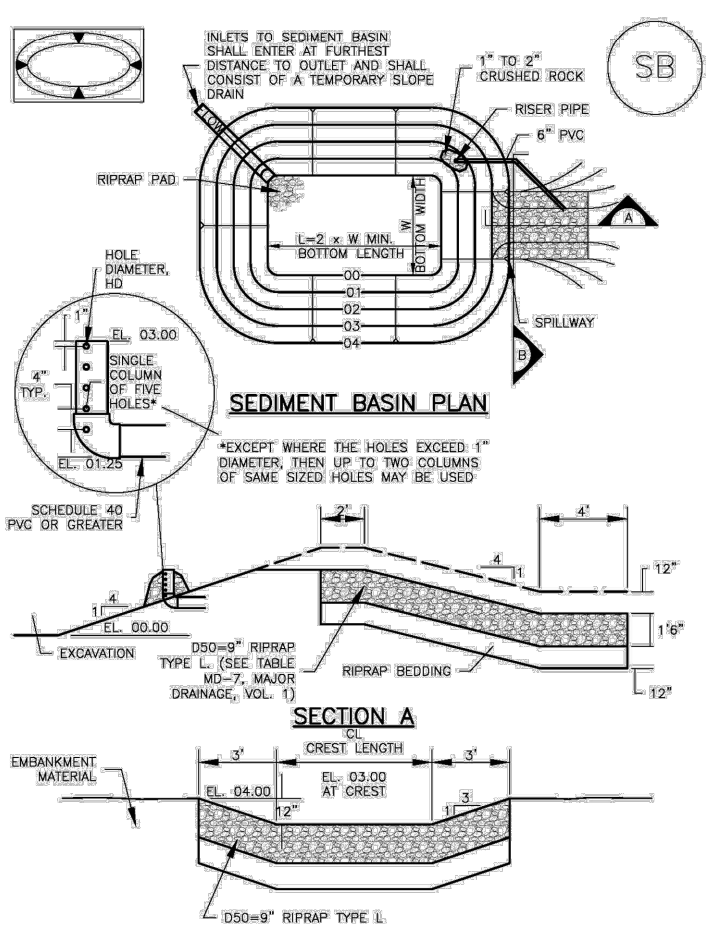
- SEDIMENT CONTROL LOG INSTALLATION NOTES**
- SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS.
 - SEDIMENT CONTROL LOGS THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY UPSTREAM LAND-DEVELOPING ACTIVITIES.
 - SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSDOR OR COCOONUT FIBER, AND SHALL BE FREE OF ANY NOXIOUS WEED SEEDS OR DEFECTS INCLUDING RIPS, HOLES AND GRASSWE WEAR.
 - SEDIMENT CONTROL LOGS MAY BE USED AS SMALL CHECK DAMS IN DITCHES AND SWALES. HOWEVER, THEY SHOULD NOT BE USED IN PERMANENT STREAMS.
 - IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO A DEPTH OF APPROXIMATELY 1/3 OF THE DIAMETER OF THE LOG. IF TRENCHING TO THIS DEPTH IS NOT FEASIBLE AND/OR DESIRABLE, SHORT TERM INSTALLATION WITH LOGS NOT TO DAMAGE LANDSCAPE, A LESSER TRENCHING DEPTH MAY BE ACCEPTABLE WITH MORE ROBUST STRAWING COMPOST LOGS THAT ARE 8' DIA/FT. DO NOT NEED TO BE TRENCHED.
 - THE UPWALL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL OR FILTER MATERIAL THAT IS FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE TIGHTLY COMPACTED INTO THE SHAPE OF A RIGHT TRIANGLE USING A SHOVEL OR WEIGHTED LAWN ROLLER OR BLOWN IN PLACE.
 - FOLLOW MANUFACTURERS' GUIDANCE FOR STAKING. IF MANUFACTURERS' INSTRUCTIONS DO NOT SPECIFY SPACING, STAKES SHALL BE PLACED ON 4' CENTERS AND EMBEDDED A MINIMUM OF 6" INTO THE GROUND. 3" OF THE STAKE SHALL PROTRUDE FROM THE TOP OF THE LOG. STAKES THAT ARE BROKEN PRIOR TO INSTALLATION SHALL BE REPLACED. COMPOST LOGS SHOULD BE STAKED 10' ON CENTER.
- SEDIMENT CONTROL LOG MAINTENANCE NOTES**
- 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.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOG SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/3 OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
 - SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION/COMPOST FROM COMPOST LOGS MAY BE LEFT IN PLACE AS LONG AS BAGS ARE REMOVED AND THE AREA SEEDED. IF DISTURBED AREAS EXIST AFTER REMOVAL, THEY SHALL BE COVERED WITH TOP SOIL, SEEDS AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
- (DETAILS ADAPTED FROM TOWN OF FRANK, COLORADO, JEFFERSON COUNTY, COLORADO, DOUGLAS COUNTY, COLORADO, AND CITY OF DENVER, COLORADO. NOT APPLICABLE IN AIRBORNE.)
- NOTE:** MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM LISTED STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

November 2015 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

SC1-6

Sediment Basin (SB)

SC-7



August 2013 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

SB-5

SC-7

Sediment Basin (SB)

TABLE SB-1. SIZING INFORMATION FOR STANDARD SEDIMENT BASIN				
Upstream Drainage Area (Drainage to nearest acre), (ac)	Basin Bottom Width (W), (ft)	Spillway Crest Length (CL), (ft)	Hole Diameter (HD), (in)	
1	12 1/2	3	3/4	
2	21	5	1 1/4	
3	28	6	1 3/4	
4	33 1/2	7	1 3/4	
5	38 1/2	8	1 3/4	
6	43 1/2	9	1 3/4	
7	47 1/2	10	1 3/4	
8	51	11	1 3/4	
9	55 1/2	12	1 3/4	
10	59 1/2	13	1 3/4	
11	63 1/2	14	1 3/4	
12	67 1/2	15	1 3/4	
13	71 1/2	16	1 3/4	
14	75 1/2	17	1 3/4	
15	79 1/2	18	1 3/4	

- SEDIMENT BASIN INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
-LOCATION OF SEDIMENT BASIN.
-TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN).
-FOR STANDARD BASIN, BOTTOM WIDTH W, CREST LENGTH CL, AND HOLE DIAMETER HD.
-FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISE/HEIGHT H, NUMBER OF COLUMNS N, HOLE DIAMETER HD AND PIPE DIAMETER D.
 - FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
 - SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DEVELOPING ACTIVITY THAT RELIES ON OR BAINS AS A STORMWATER CONTROL.
 - EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE CROCKETS THAT ARE 1/2 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
 - EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
 - PIPE SCH 40 OR GREATER SHALL BE USED.
 - THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASINS. FOR DRAINAGE AREAS LESS THAN 15 ACRES, SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASINS THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

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Urban Storm Drainage Criteria Manual Volume 3

SB-6

Sediment Basin (SB)

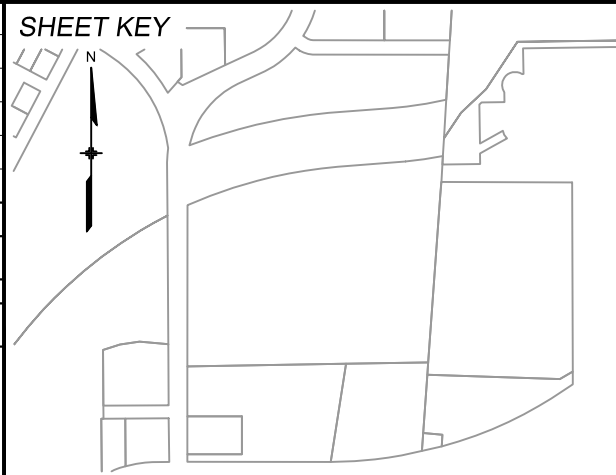
SC-7

- SEDIMENT BASIN MAINTENANCE NOTES**
- 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.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EFFECTIVENESS. TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E., TWO FEET BELOW THE SPILLWAY CREST).
 - SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION.
 - WHEN SEDIMENT BASINS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDS AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.
- (DETAILS ADAPTED FROM BOULDER COUNTY, COLORADO)
- NOTE:** MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM LISTED STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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SB-7

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CTB FILE: Matrix.ctb				
PLOT DATE: August 23, 2024 8:38:55 AM				
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.				



BENCHMARK:
NGS MONUMENT R76, BEING MONUMENTED BY A STANDARD U.S. COAST AND GEODETIC SURVEY BENCHMARK DISK SET IN THE TOP OF CONCRETE POST, STAMPED R 76 1935. ELEVATION WAS ESTABLISHED BY G.P.S OBSERVATIONS AND IS REFERENCED TO NAVD88. ELEVATION = 6,289.86 FEET.

BASIS OF BEARING:
REFERENCED TO THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 8, TOWNSHIP 14 SOUTH, RANGE 65 WEST, BEING MONUMENTED AT THE SOUTHWEST CORNER OF SECTION 8 BY A 3-1/4" ALUMINUM CAP IN RANGEBOX "LS 22573", AND AT THE WEST QUARTER CORNER OF SECTION 8 BY A 3-1/4" BRASS CAP STAMPED "BLM US DEPT INTERIOR", ASSUMED TO BEAR NORTH 00°23'14" WEST, A DISTANCE OF 2,641.77 FEET.



SEAL				CIMARRON HILLS SOUTHEAST FILING NO. 1			
				GRADING AND EROSION CONTROL PLANS EL PASO COUNTY, COLORADO			
				GRADING & EROSION CONTROL DETAILS (SHEET 3 OF 4)			