INDEX OF SHEETS

TS01 GN01 GN02 GEC01-GEC06 ECN01-ECN02

TITLE SHEET KEY MAP
GENERAL NOTES
GRADING & EROSION CONTROL PLAN
DETAILS

SHEET No. 01 02 03 04-09 10-11

DESCRIPTION

REVISIONS

FILE NAME: S:\22.886.076 Hay Creek-Forest Manor-O'Leary Properties\500 CADD\504 Plan Sets\Construction Plans\GEC Plan\TS01.dwg

HAY CREEK VALLEY EL PASO COUNTY, COLORADO **FINAL GRADING & EROSION CONTROL PLANS**

EPC STORMWATER REVIEW COMMENTS IN ORANGE BOXES WITH BLACK TEXT

No. DATE

CTB FILE: Matrix.ctb

PLOT DATE: 9/22/2023 2:32 PM

COMPUTER FILE MANAGEMENT

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

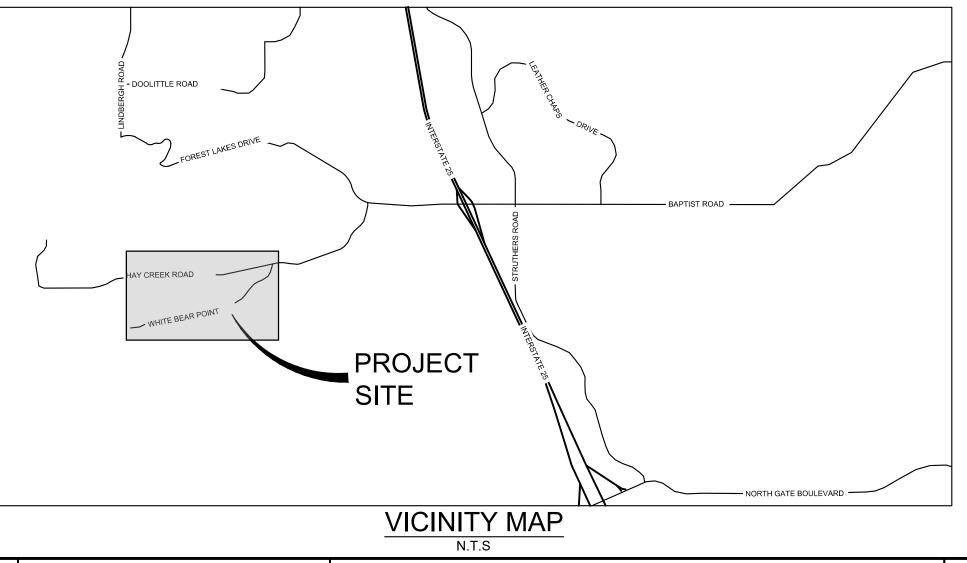
Hay Creek BFEs

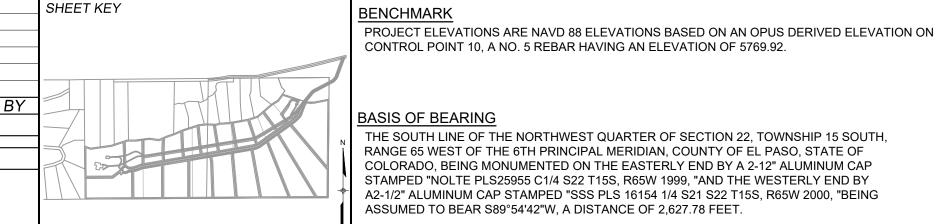
OWNER/DEVELOPER VIEW HOMES, INC.	
555 MIDDLE CREEK PARKWAY, SU COLORADO SPRINGS, CO 80921 TIM BUSCHAR, (719)-382-9433	
CIVIL ENGINEER MATRIX DESIGN GROUP 2435 RESEARCH PARKWAY, SUITE COLORADO SPRINGS, CO 80920 (719)-575-0100	Ξ 300
ELECTRIC MOUNTAIN VIEW ELECTRIC ASSOC 15706 JACKSON CREEK PARKWAY MONUMENT, CO 80132 GINA PERRY, (719) 494-2636	
GAS BLACK HILLS ENERGY 105 S VICTORIA AVENUE PUEBLO, CO 81003 (800) 303-0752	
ENGINEERING EL PASO COUNTY PUBLIC WORKS 3275 AKERS DRIVE COLORADO SPRINGS, CO 80922 (719) 520-6460	S DEPARTMENT
TRAFFIC EL PASO COUNTY PUBLIC WORKS 3275 AKERS DRIVE COLORADO SPRINGS, CO 80922 (719) 520-6460	S DEPARTMENT
DRAINAGE EL PASO COUNTY PUBLIC WORKS 3275 AKERS DRIVE COLORADO SPRINGS, CO 80922 (719) 520-6460	S DEPARTMENT
FIRE DEPARTMENT MONUMENT FIRE DISTRICT 16055 OLD FOREST POINT, SUITE MONUMENT, CO 80132 (719)-484-0911	102
REFERENCE DRAWINGS	
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6.066-EX-MAP-1 122-01 Hay Creek Road BNDY 6-ALTA-SURVEY NO DATE	

SEPTEMBER 2023



SITE MAP 1" = 500'





BASIS OF BEARING THE SOUTH LINE OF THE NORTHWEST QUARTER OF SECTION 22, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, BEING MONUMENTED ON THE EASTERLY END BY A 2-12" ALUMINUM CAP STAMPED "NOLTE PLS25955 C1/4 S22 T15S, R65W 1999, "AND THE WESTERLY END BY A2-1/2" ALUMINUM CAP STAMPED "SSS PLS 16154 1/4 S21 S22 T15S, R65W 2000, "BEING ASSUMED TO BEAR S89°54'42"W, A DISTANCE OF 2,627.78 FEET.



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



OWNER/DEVELOPER'S STATEMENT:

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

NAME

DATE

TIM BUSCHAR, (719)-382-9433 VIEW HOMES, INC. 555 MIDDLE CREEK PARKWAY, SUITE 500 COLORADO SPRINGS, CO 80921

DESIGN 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 PLAN.

DATE:

JEFFREY A. ODOR , PE #39265 FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.

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 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 DIRECTOR'S DISCRETION.

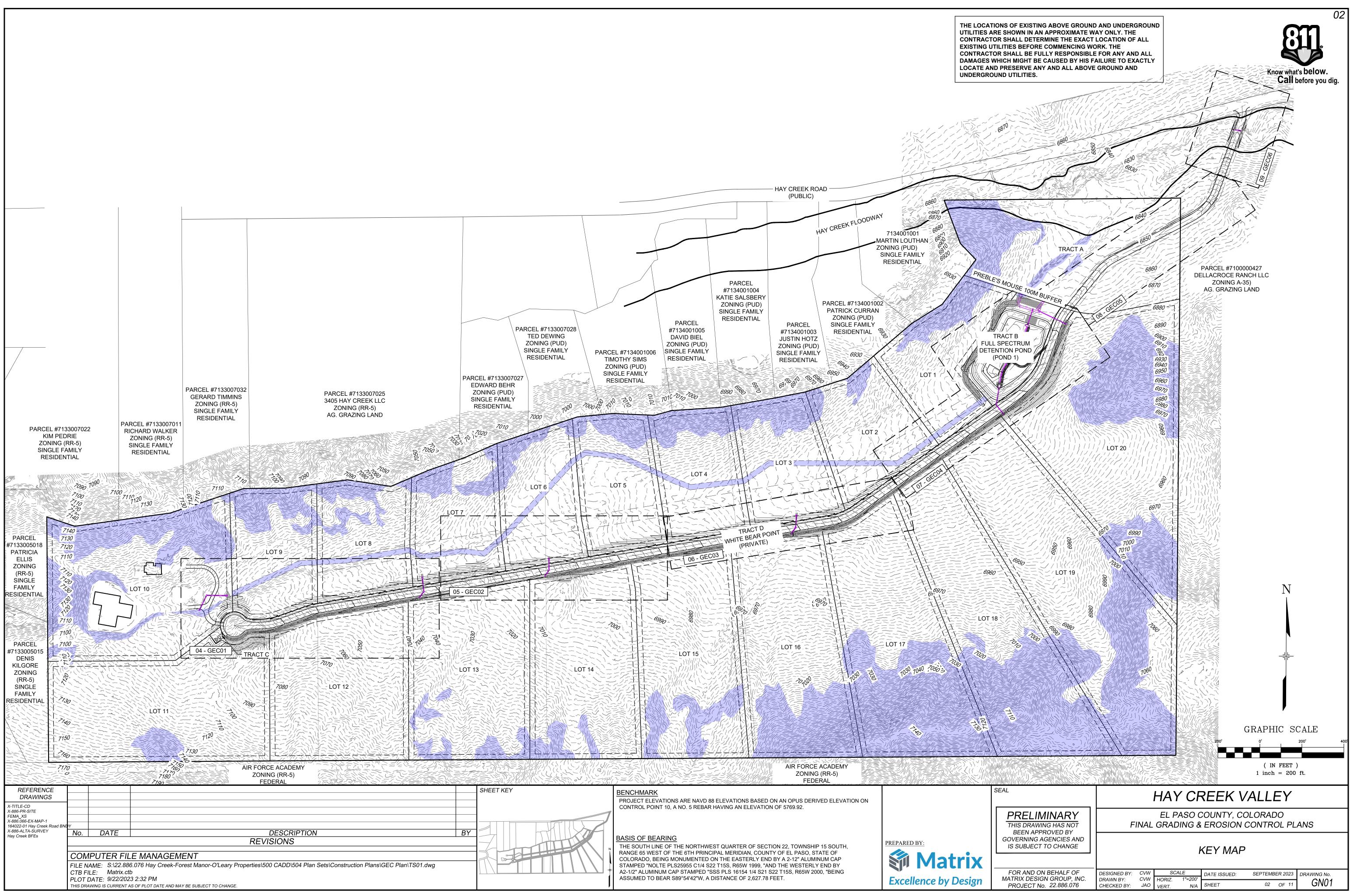
JOSHUA PALMER, P.E. COUNTY ENGINEER / ECM ADMINISTRATOR

DATE

Add text:

EPC's EDARP File Number: SF2324

SEAL HAY CREEK VALLEY PRELIMINARY EL PASO COUNTY, COLORADO FINAL GRADING & EROSION CONTROL PLANS THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE TITLE SHEET FOR AND ON BEHALF OF CVW SCALE SEPTEMBER 2023 DRAWING No. DESIGNED BY: DATE ISSUED: MATRIX DESIGN GROUP, INC. CVW HORIZ. DRAWN BY: N/A TS01 N/A SHEET 01 OF 11 PROJECT No. 22.886.076 CHECKED BY: JAO VERT



GENERAL CONSTRUCTION NOTES:

- 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.
- 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 13. CONCRETE WASH WATER SHALL BE CONTAINED AND DIS 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.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER 14. DURING DEWATERING OPERATIONS OF UNCONTAMINA 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 15. EROSION CONTROL BLANKETING OR OTHER PROTECTIV AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- 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. 17. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED
- 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.
- 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 19. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR 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 20. THE QUANTITY OF MATERIALS STORED ON THE PROJECT STORMWATER MANAGEMENT PLAN.
- 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.
- 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 22. BULK STORAGE OF ALLOWED PETROLEUM PRODUCT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- 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 23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWA 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 24. OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPI 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 S PROTECTED FROM SEDIMENTATION DURING CONSTRU FINAL STABILIZATION IS ACHIEVED. IF COMPACTION P NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS FOR INFILTRATION AND VEGETATION CONTROL MEASU LOOSENED PRIOR TO INSTALLATION OF THE CONTROL ME

- 12. ANY TEMPORARY OR PERMANENT FACILITY DES CONSTRUCTED FOR THE CONVEYANCE OF STORMWA THROUGH, OR FROM THE EARTH DISTURBANCE AREA STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROS DISCHARGE OF SEDIMENT OFF SITE.
- ACCORDANCE WITH THE SWMP. NO WASH WATE DISCHARGED TO OR ALLOWED TO ENTER STATE WATER ANY SURFACE OR SUBSURFACE STORM DRAINAGE FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LO AREA WHERE SHALLOW GROUNDWATER MAY BE PRESEN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
- WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPR DEWATERING PERMIT IS IN PLACE.
- SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- 16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMO WASTES FROM THE CONSTRUCTION SITE FOR ACCORDANCE WITH LOCAL AND STATE REGULATORY RE NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATE OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DISCHARGED AT THE SITE.
- IN THE STREET, ALLEY, OR OTHER PUBLIC WAY ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PL MEASURES MAY BE REQUIRED BY EL PASO COUNTY EN DEEMED NECESSARY, BASED ON SPECIFIC COND CIRCUMSTANCES.
- 18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-S MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLE PROPERLY DISPOSED OF IMMEDIATELY.
- OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SE AND SAND THAT MAY ACCUMULATE IN ROADS, STORM OTHER DRAINAGE CONVEYANCE SYSTEMS AND APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- LIMITED. AS MUCH AS PRACTICAL. TO THAT QUANTITY PERFORM THE WORK IN AN ORDERLY SEQUENCE. AL STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERL THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MAN LABELS.
- 21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE STORMWATER ARE TO BE STORED OR USED ON PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS WRITING BY THE ECM ADMINISTRATOR. IN GRANTING AI THE USE OF SUCH CHEMICAL(S), SPECIAL COND MONITORING MAY BE REQUIRED.
- ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GAI REQUIRE ADEQUATE SECONDARY CONTAINMENT PRC CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLE FROM ENTERING STATE WATERS. ANY SURFACE OR STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROV CONTROL MEASURES.
- "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, AR AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADD 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.**

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HALL ALSO BE 25. JCTION UNTIL	ALL CONSTRUC				E ONLY AT	<u>N</u>
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,	38	JARRE-TECC (8%-65% SL	DLOTE COMPL OPES)	EX E	3	
D OR STORED , UNLESS IN AN. CONTROL	71	PRING COAF (3%-8% SLC	RSE SANDY LO PES)	AM E	3	8.
IGINEERING IF DITIONS AND	93	TOMAH-CRO (8%-15% SLC	WFOOT COMF OPES)	PLEX E	3	
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I DRAINS AND STORMWATER	<u>JULY 20</u>			dales.		11
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	AN	NCRETE REVERSE	HORIZ HYD ASSY	HORIZONTAL INCLUDES FIRE HYDRAN		
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SITE ONLY AT NPDES NOTES

- NG EARTHWORK 2. COMPLETED, MODIFIED, OR VOIDED.
- TED START OF 3. WETLANDS, ETC., RESULTING FROM WORK DONE AS PART OF THIS PROJECT
 - 4 THIS PROJECT.
 - CONTROL MEASURES ARE IMPLEMENTED

 - DAILY BASIS.
 - PLAN.

THAN 29.99 %)

BOP BOV	BOTTOM OF PIPE		DEFLECT	INV	INVERT	RED	REDUCER
BOV		DIP	DUCTILE IRON PIPE	LT	LEFT OF CENTER LINE	RSNTS	MJ RESTRAINT
	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		SANITARY SEW
CRA	CONCRETE REVERSE	HORIZ				STA STS	STATION STORM SEWER
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	REACTION BLOCK		AND REVERSE ANOTOR.			TYP	TYPICAL
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SHEET KEY

BENCHMARK

PROJECT ELEVATIONS ARE NAVD 88 ELEVATIONS BASED ON AN OPUS DERIVED ELEVATION ON CONTROL POINT 10. A NO. 5 REBAR HAVING AN ELEVATION OF 5769.92.

BASIS OF BEARING

THE SOUTH LINE OF THE NORTHWEST QUARTER OF SECTION 22, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, BEING MONUMENTED ON THE EASTERLY END BY A 2-12" ALUMINUM CAP STAMPED "NOLTE PLS25955 C1/4 S22 T15S, R65W 1999, "AND THE WESTERLY END BY A2-1/2" ALUMINUM CAP STAMPED "SSS PLS 16154 1/4 S21 S22 T15S, R65W 2000, "BEING ASSUMED TO BEAR S89°54'42"W, A DISTANCE OF 2,627.78 FEET.



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.



Call before you dig.

THIS CONSTRUCTION ACTIVITIES STORMWATER MANAGEMENT PLAN (SWMP) HAS BEEN SUBMITTED AS PART OF AN APPLICATION FOR AN EROSION AND SEDIMENT CONTROL PERMIT FILED WITH EL PASO COUNTY

AND AS INCLUSION BY REFERENCE TO THE CDPHE CONSTRUCTION ACTIVITY PERMIT. THE SWMP IS A LIVING DOCUMENT AND ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED OF THE CONTRACTOR DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS PLAN SHALL BE THE OBLIGATION OF THE LAND OWNER AND/OR HIS SUCCESSORS OR HEIRS: UNTIL SUCH TIME AS THE PLAN IS PROPERLY

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO ADJACENT WATERWAYS,

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

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. ROUGH-CUT STREETS SHALL BE MULCHED UNLESS A LAYER OF AGGREGATE ROAD BASE OR ASPHALT PAVING IS TO BE APPLIED TO SAID ROUGH-CUT STREETS WITHIN THE 21 DAY PERIOD AFTER COMPLETION OF OVERLOT GRADING. 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

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

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.

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.

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

10. 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.

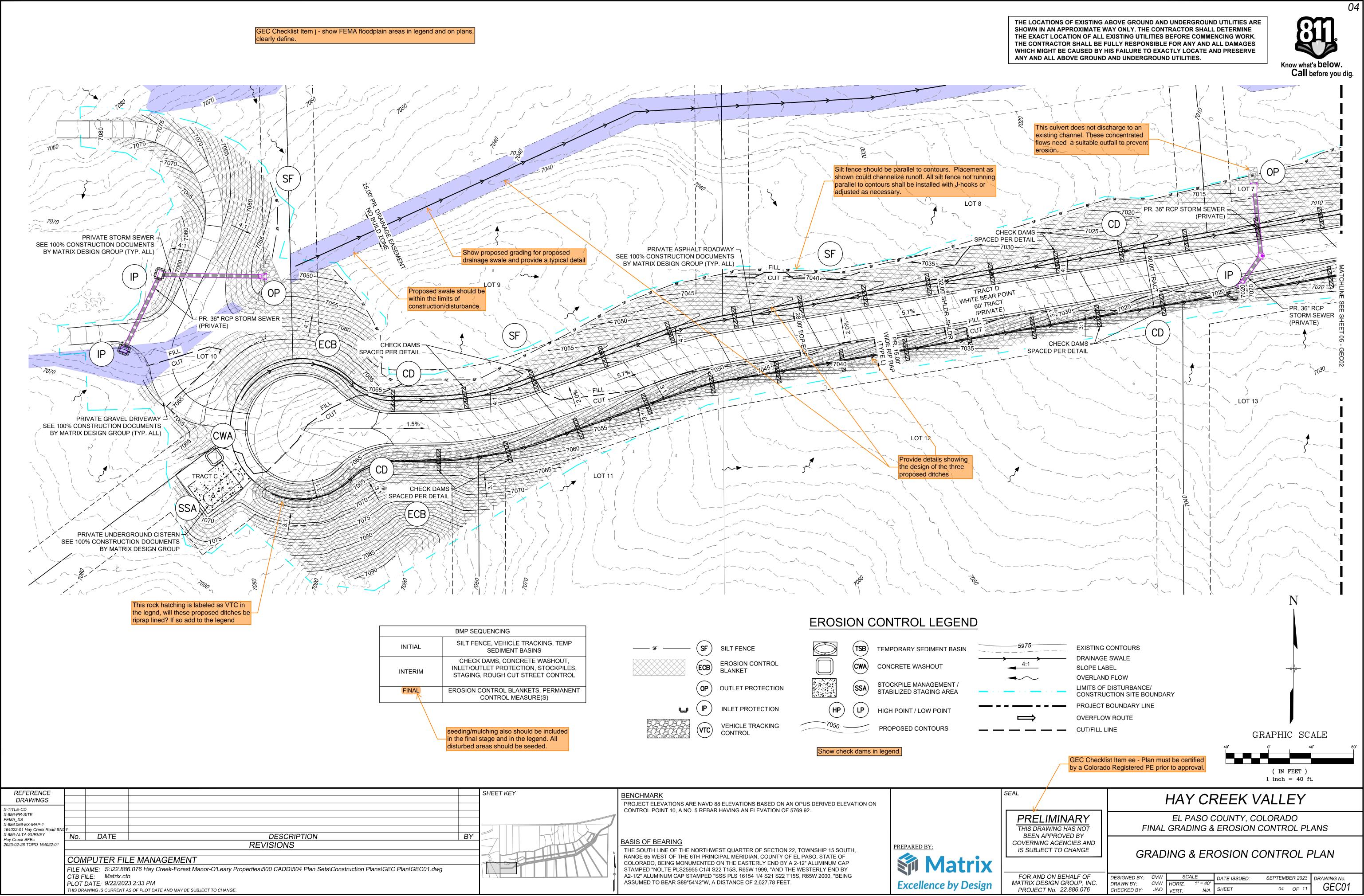
11. MODIFICATION OF AN ACTIVE EROSION AND SEDIMENT CONTROL PERMIT BY THE CONTRACTOR SHALL REQUIRE TIMELY NOTIFICATION OF AND APPROVAL BY EL PASO COUNTY. TERMINATION OF AN ACTIVE EROSION AND SEDIMENT CONTROL PERMIT UPON COMPLETION OF THE PROJECT REQUIRES NOTIFICATION OF AND APPROVAL BY EL PASO COUNTY.

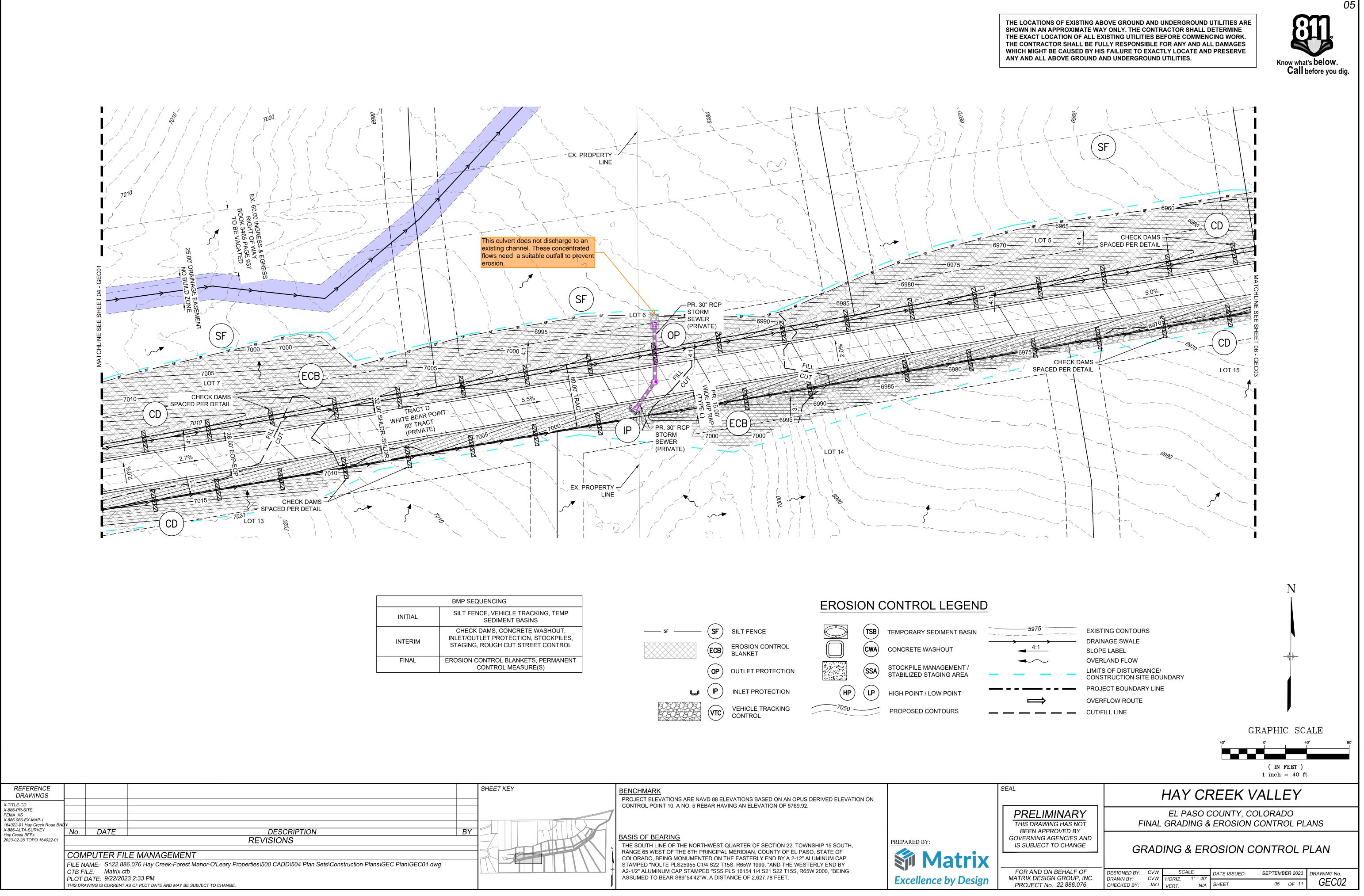
12. UNLESS CONFINED IN A PREDEFINED. BERMED CONTAINMENT AREA. THE CLEANING OF CONCRETE TRUCK DELIVERY CHUTES IS PROHIBITED AT THE JOB SITE. THE DISCHARGE OF WATER CONTAINING WASTE CEMENT TO THE STORM SEWER SYSTEM IS PROHIBITED.

13. 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

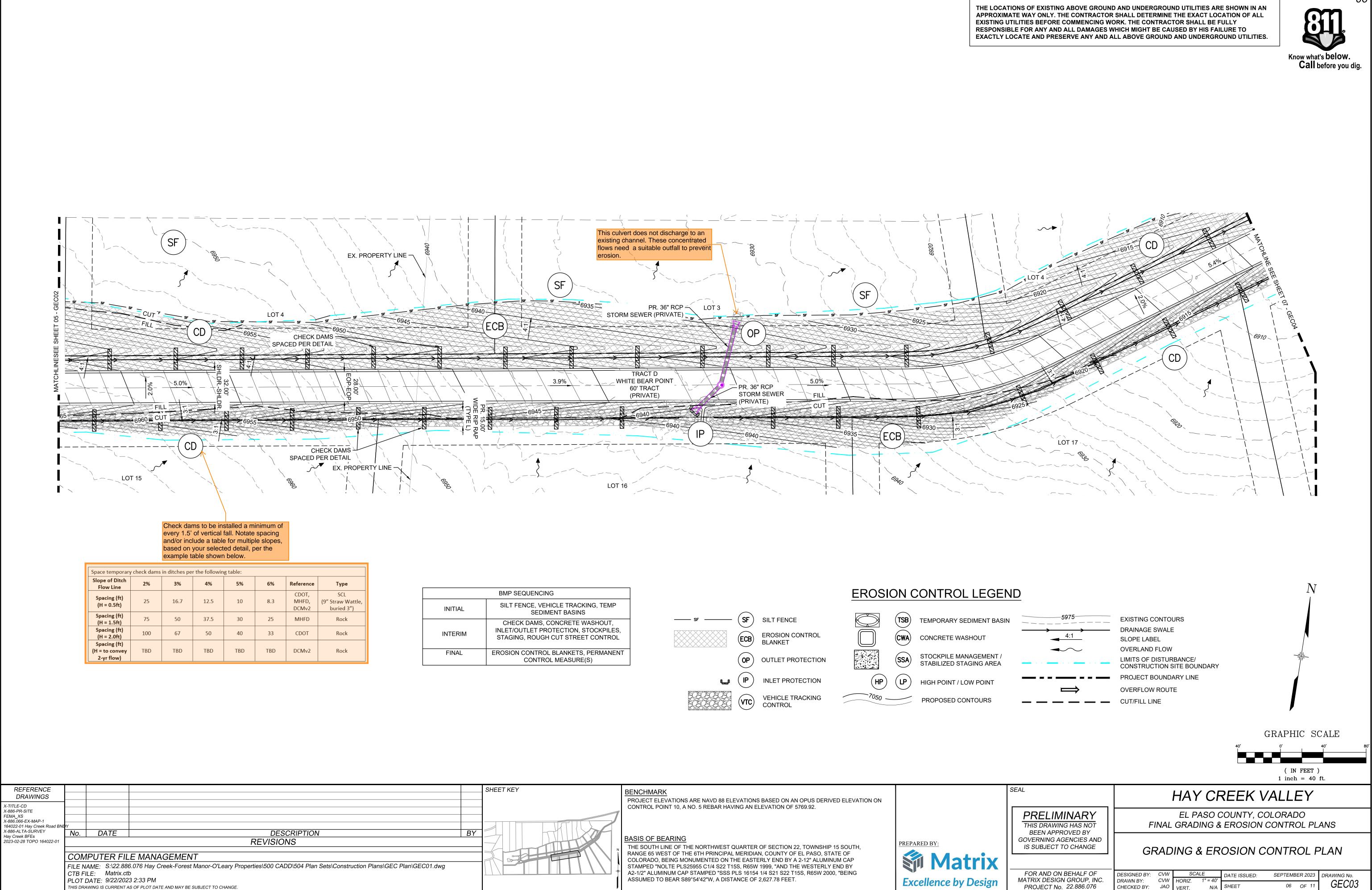
14. LOCATION OF STAGING, STORAGE, EQUIPMENT MAINTENANCE, TEMPORARY DISPOSAL, VEHICLE TRACKING CONTROL AND CONCRETE TRUCK WASHOUT AREAS WILL BE DETERMINED IN THE FIELD AT THE START OF CONSTRUCTION ACTIVITY AND DELINEATED ON THIS

SEAL	HAY CREEK VALLEY					
PRELIMINARY THIS DRAWING HAS NOT BEEN APPROVED BY	EL PASO COUNTY, COLORADO FINAL GRADING & EROSION CONTROL PLANS					
GOVERNING AGENCIES AND IS SUBJECT TO CHANGE		GEN	ERAL NO	TES		
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 22.886.076	DESIGNED BY: CVW DRAWN BY: CVW CHECKED BY: JAO	SCALE HORIZ. N/A VERT. N/A	DATE ISSUED: SHEET	SEPTEMBER 2023 03 OF 11	drawing no. GN02	



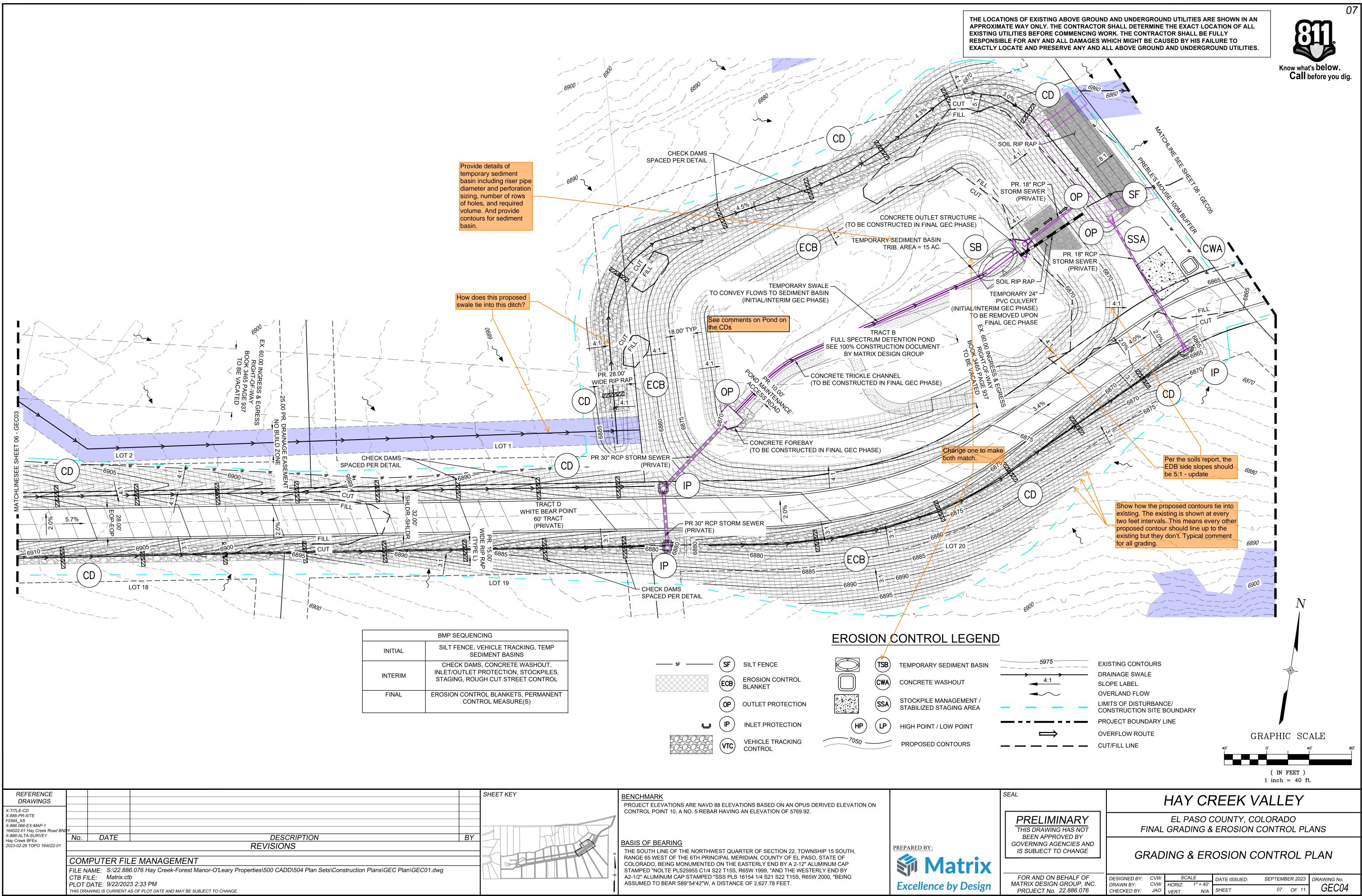


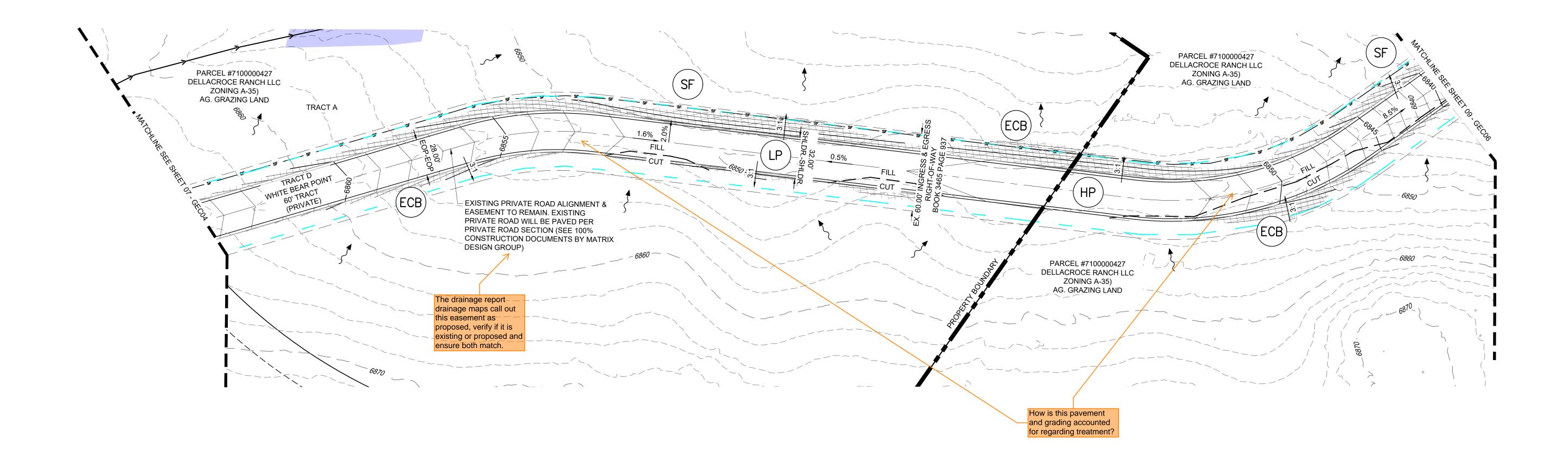
FENCE, VEHICLE TRACKING, TEMP SEDIMENT BASINS	
ECK DAMS, CONCRETE WASHOUT, /OUTLET PROTECTION, STOCKPILES, ING, ROUGH CUT STREET CONTROL	





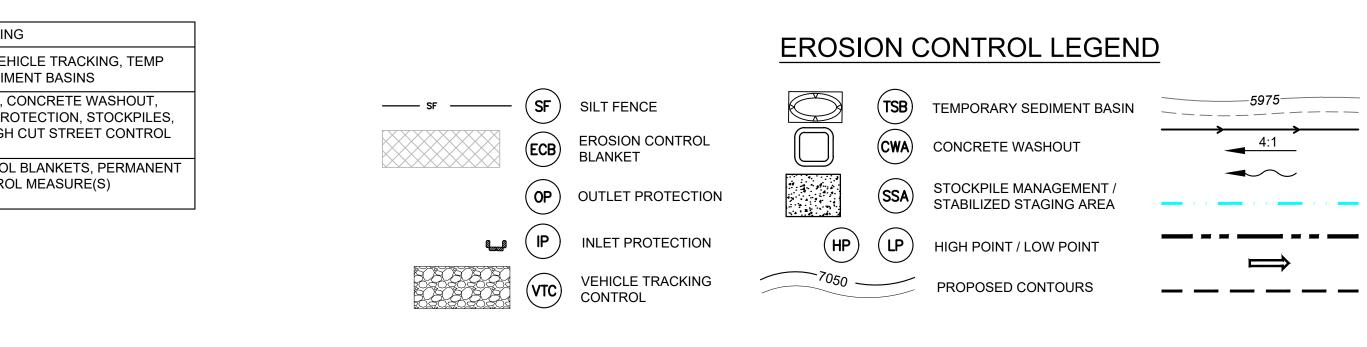
		(IN FEET) 1 inch = 40 ft.
	SEAL	HAY CREEK VALLEY
	PRELIMINARY THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE	EL PASO COUNTY, COLORADO FINAL GRADING & EROSION CONTROL PLANS
		GRADING & EROSION CONTROL PLAN
	FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.	DESIGNED BY: CVW SCALE DRAWN BY: CVW HORIZ. 1" = 40' CVSCED BY: LAO HORIZ. 1" = 40' SHEET 06 OF 11 GFC03

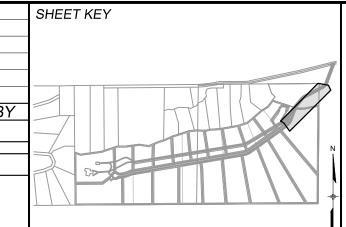




	BMP SEQUENCIN
INITIAL	SILT FENCE, VEH SEDIM
INTERIM	CHECK DAMS, C INLET/OUTLET PRO STAGING, ROUGH
FINAL	EROSION CONTROL CONTRO

REFERENCE DRAWINGS				
X-TITLE-CD				
X-886-PR-SITE FEMA_XS				
X-886.066-EX-MAP-1 164022-01 Hay Creek Road BNI	γ			
X-886-ALTA-SURVEY Hay Creek BFEs	No.	DATE	DESCRIPTION	E
2023-02-28 TOPO 164022-01			REVISIONS	
	FILE N CTB FI	AME: S:\22.88		
			S OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.	





BENCHMARK

PROJECT ELEVATIONS ARE NAVD 88 ELEVATIONS BASED ON AN OPUS DERIVED ELEVATION ON CONTROL POINT 10, A NO. 5 REBAR HAVING AN ELEVATION OF 5769.92.

BASIS OF BEARING

THE SOUTH LINE OF THE NORTHWEST QUARTER OF SECTION 22, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, BEING MONUMENTED ON THE EASTERLY END BY A 2-12" ALUMINUM CAP STAMPED "NOLTE PLS25955 C1/4 S22 T15S, R65W 1999, "AND THE WESTERLY END BY A2-1/2" ALUMINUM CAP STAMPED "SSS PLS 16154 1/4 S21 S22 T15S, R65W 2000, "BEING ASSUMED TO BEAR S89°54'42"W, A DISTANCE OF 2,627.78 FEET.



SEAL

PRELIMINARY

THIS DRAWING HAS NOT BEEN APPROVED BY

GOVERNING AGENCIES AND

IS SUBJECT TO CHANGE

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



EXISTING CONTOURS DRAINAGE SWALE SLOPE LABEL OVERLAND FLOW LIMITS OF DISTURBANCE/ CONSTRUCTION SITE BOUNDARY PROJECT BOUNDARY LINE OVERFLOW ROUTE CUT/FILL LINE



(IN FEET) 1 inch = 40 ft.

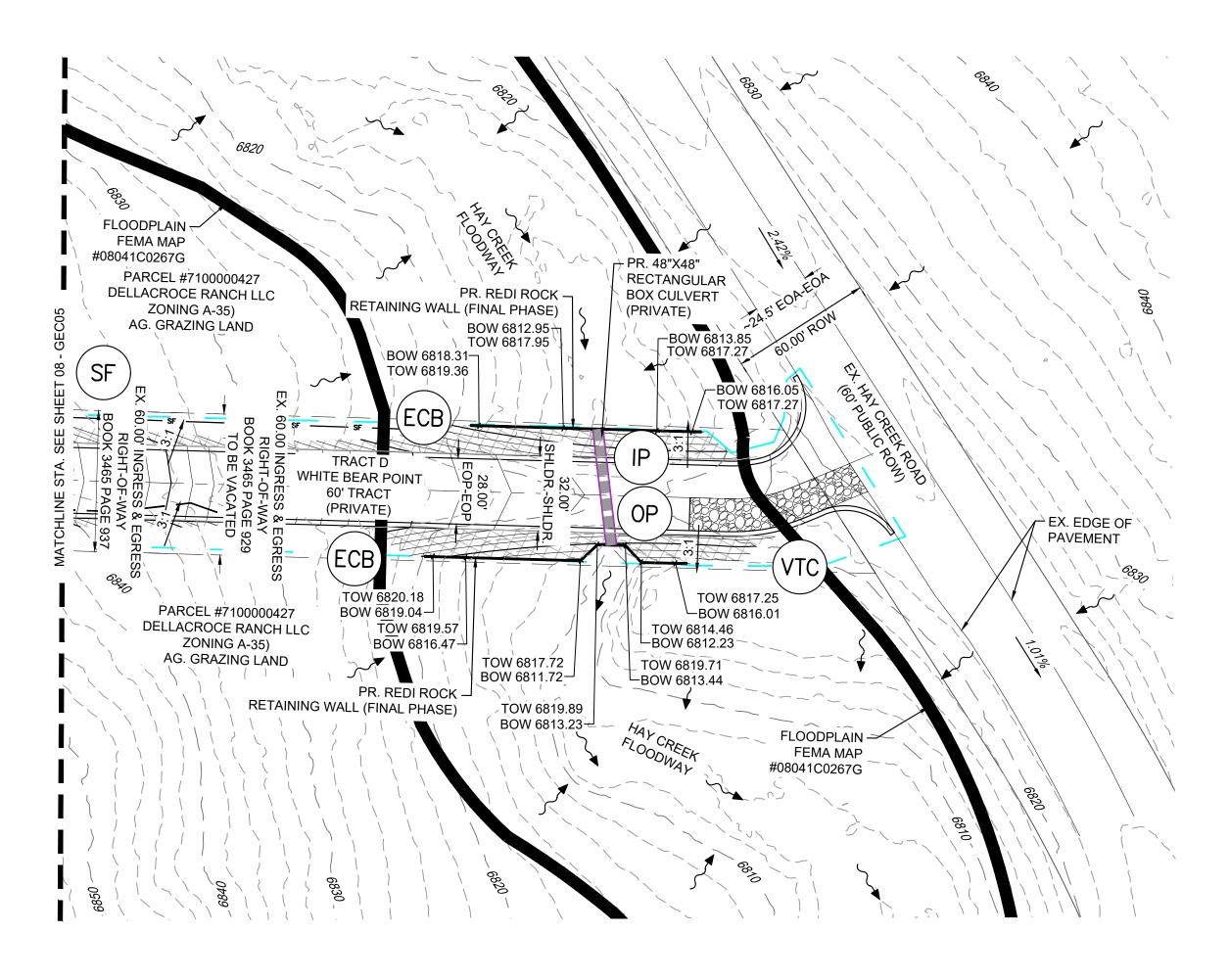
HAY CREEK VALLEY

EL PASO COUNTY, COLORADO FINAL GRADING & EROSION CONTROL PLANS

GRADING & EROSION CONTROL PLAN

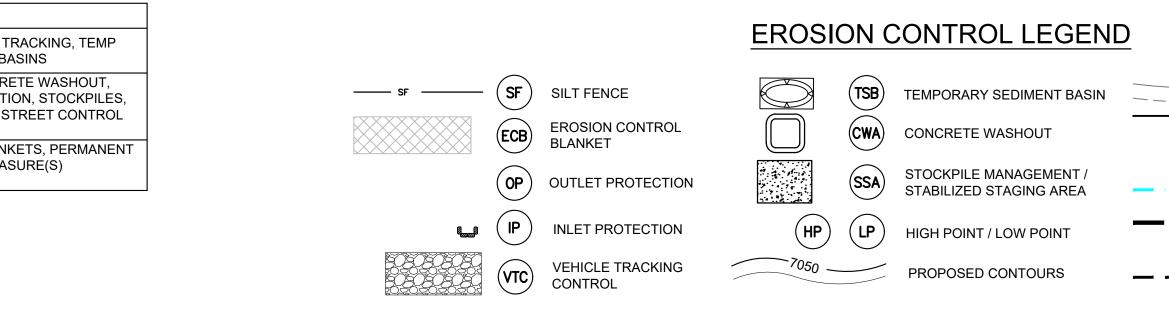
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 22.886.076	DESIGNED BY:	CVW CVW		ALE 1" = 40'	DATE ISSUED:	SEPTEMBER 2023	DRAWING No.
	DRAWN BY: CHECKED BY:	JAO	HORIZ. VERT.	N/A	SHEET	08 OF 11	GEC05

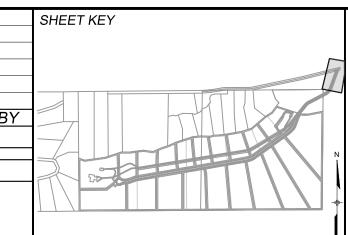
08



	BMP SEQUENCING
INITIAL	SILT FENCE, VEHICLE T SEDIMENT BA
INTERIM	CHECK DAMS, CONCRI INLET/OUTLET PROTECTI STAGING, ROUGH CUT S
FINAL	EROSION CONTROL BLANK CONTROL MEAS

REFERENCE DRAWINGS								
X-TITLE-CD X-886-PR-SITE								
FEMA_XS X-886.066-EX-MAP-1								
164022-01 Hay Creek Road BNI	γ							
X-886-ALTA-SURVEY Hay Creek BFEs	No.	DATE	DESCRIPTION	j				
2023-02-28 TOPO 164022-01			REVISIONS					
	COMPUTER FILE MANAGEMENT							
	FILE NAME: S:\22.886.076 Hay Creek-Forest Manor-O'Leary Properties\500 CADD\504 Plan Sets\Construction Plans\GEC Plan\GEC01.dwg CTB FILE: Matrix.ctb PLOT DATE: 9/22/2023 2:34 PM THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.							





BENCHMARK

PROJECT ELEVATIONS ARE NAVD 88 ELEVATIONS BASED ON AN OPUS DERIVED ELEVATION ON CONTROL POINT 10, A NO. 5 REBAR HAVING AN ELEVATION OF 5769.92.

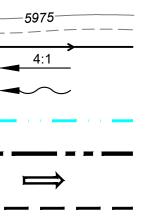
BASIS OF BEARING

THE SOUTH LINE OF THE NORTHWEST QUARTER OF SECTION 22, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, BEING MONUMENTED ON THE EASTERLY END BY A 2-12" ALUMINUM CAP STAMPED "NOLTE PLS25955 C1/4 S22 T15S, R65W 1999, "AND THE WESTERLY END BY A2-1/2" ALUMINUM CAP STAMPED "SSS PLS 16154 1/4 S21 S22 T15S, R65W 2000, "BEING ASSUMED TO BEAR S89°54'42"W, A DISTANCE OF 2,627.78 FEET.



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





EXISTING CONTOURS DRAINAGE SWALE SLOPE LABEL OVERLAND FLOW LIMITS OF DISTURBANCE/ CONSTRUCTION SITE BOUNDARY PROJECT BOUNDARY LINE OVERFLOW ROUTE CUT/FILL LINE



GRAPHIC SCALE

(IN FEET) 1 inch = 10 ft.

HAY CREEK VALLEY

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

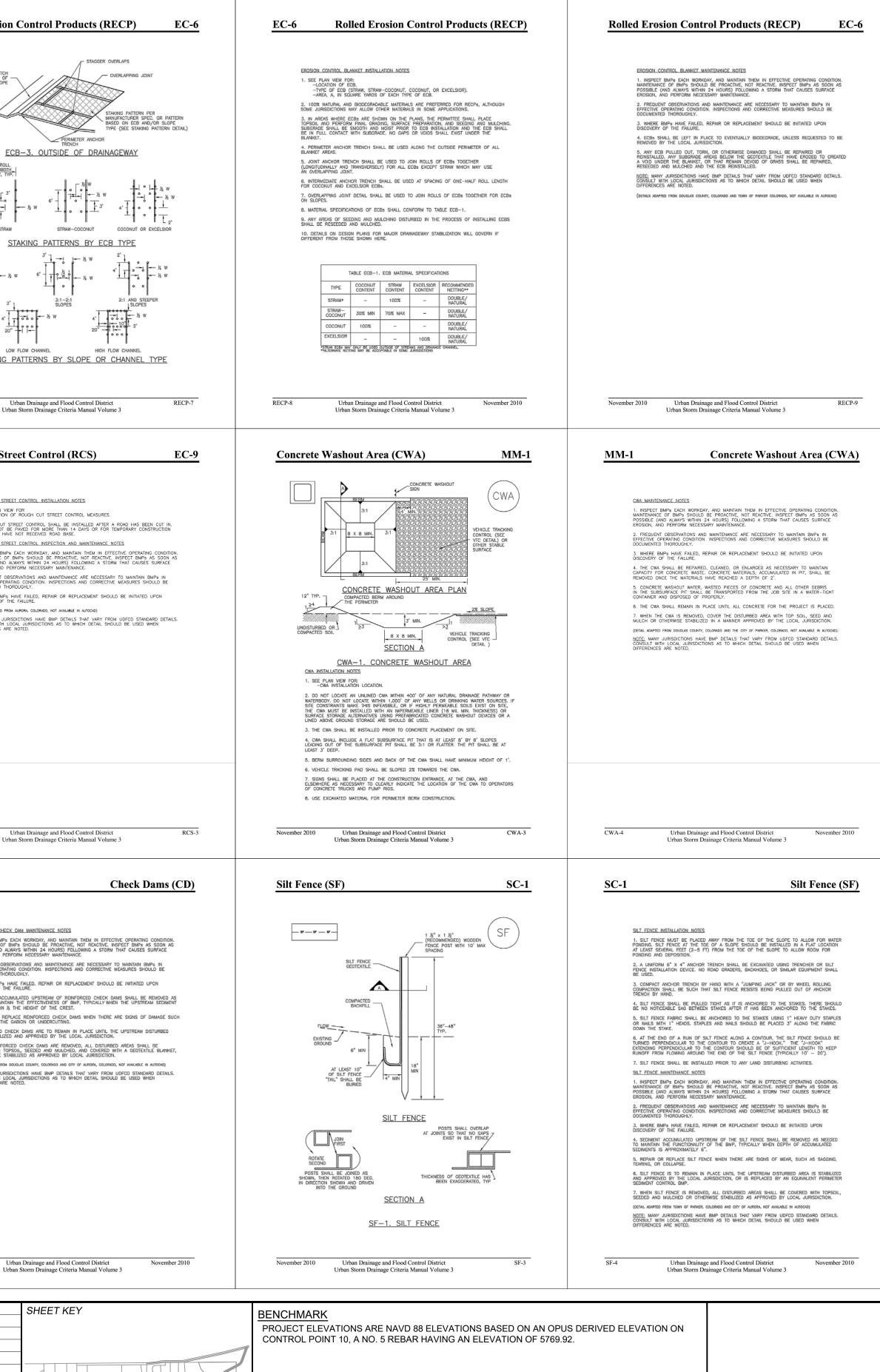
SEAL

EL PASO COUNTY, COLORADO FINAL GRADING & EROSION CONTROL PLANS

GRADING & EROSION CONTROL PLAN

MATRIX DESIGN GROUP, INC. DRAWN BY: CVW HORIZ. 1" = 40' PROJECT No. 22 886 076 CHECKED BY: JAO VERT N/A SHEET 09 OF 11 GEC06	FOR AND ON BEHALF OF	DESIGNED BY:	CVW	SCALE		DATE ISSUED:	SEPTEMBER 2023		DRAWING No.	
VERT. WA	MATRIX DESIGN GROUP, INC. PROJECT No. 22.886.076	DRAWN BY: CHECKED BY:	CVW JAO	HORIZ. VERT.	1" = 40' N/A		09	OF 11	GEC06	

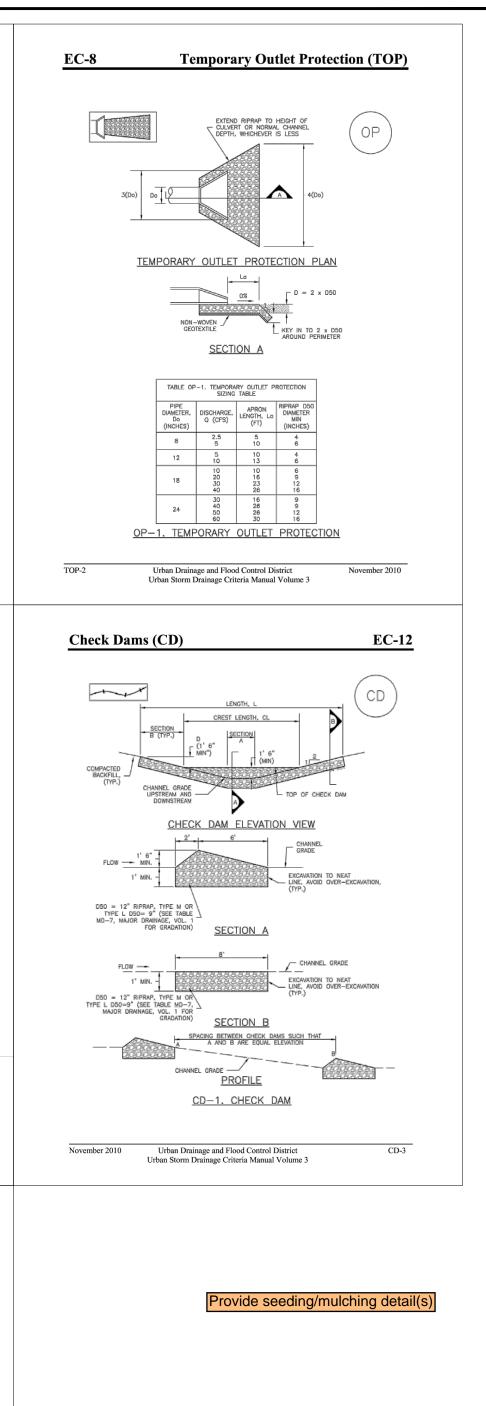
Rolled Erosion Control Products (RECP) EC-6	EC-6 Rolled Erosion Control Products (RECP)	Rolled Erosia
Staking patterns are also provided in the design details according to these factors: • ECB type		
 Slope or channel type 	UNDISTURBED SOILPERIMETERJOINT_ANCHOR TOP OF SOILANCHORTRENCH, TYPCHANNEL BANK	DIVERSION DITC TYPICALLY AT TOP O SLOP
For other types of RECPs including TRMs, these design details are intended to serve as general guidelines for design and installation; however, engineers should adhere to manufacturer's installation recommendations.	Anchor Details	, ,
aintenance and Removal		
nspection of erosion control blankets and other RECPs includes: Check for general signs of erosion, including voids beneath the mat. If voids are apparent, fill the void with suitable soil and replace the erosion control blanket, following the appropriate staking	SINGLE EDGE STAKE, TYP.	
pattern. Check for damaged or loose stakes and secure loose portions of the blanket.	TYPE OF ECE AS INDICATED IN PLAN VIEW, INSTALL IN ALL DISTURBED AREAS OF STREAMS AND DRAINAGE CHANNELS TO DEPTH D ABOVE CHANNEL INVERT. ECB SHALL GENERALLY BE ORIENTED PARALLEL TO FLOW DIRECTION (I.E. LONG DIMENSIONS OF BLANKET	PERIMETER RO ANCHOR WIL
rosion control blankets and other RECPs that are biodegradable typically do not need to be removed ter construction. If they must be removed, then an alternate soil stabilization method should be installed	PARALLEL TO FLOWLINES) STAKING PATTERN SHALL MATCH ECB	
promptly following removal. Turf reinforcement mats, although generally resistant to biodegradation, are typically left in place as a dense vegetated cover grows in through the mat matrix. The turf reinforcement mat provides long-term	ECB-1. PIPE OUTLET TO DRAINAGEWAY	6° – 6 – 1
tability and helps the established vegetation resist erosive forces.	JOINT ANCHOR TRENCH, TYP,	II " STF
	6° TOPSOIL MALE ECB SHALL EXTEND TO THE TOP OF THE	
	CHANNEL INTERMEDIATE ANCHOR TRENCH	6"
	STAKING PATTERN PER MANUFACTURER SPEC. OR PATTERN BASED ON ECB AND/OR CHAINEL TYPE (SEE STAKING <u>OVERLAPPING JOINT</u>	4:1-3:1 SLOPES
	ECB-2. SMALL DITCH OR DRAINAGEWAY	
	WOOD_STAKE_DETAIL	STAKING
November 2010 Urban Drainage and Flood Control District RECP-5 Urban Storm Drainage Criteria Manual Volume 3	RECP-6 Urban Drainage and Flood Control District November 2010 Urban Storm Drainage Criteria Manual Volume 3	November 2010 U
Femporary Outlet Protection (TOP) EC-8	EC-9 Rough Cut Street Control (RCS)	Rough Cut S
TENDODARY ANT FT ORATION WATER TANK WATER	RCS	ROUGH CUT S
TEMPORARY OUTLET PROTECTION INSTALLATION NOTES 1. SEE PLAN VIEW FOR —LOCATION OF OUTLET PROTECTION. —DIMENSIONS OF OUTLET PROTECTION.	PL	1. SEE PLAN -LOCATII 2. ROUGH CL AND WILL NO
2. DETAIL IS INTENDED FOR PIPES WITH SLOPE ≤ 10%, ADDITIONAL EVALUATION OF RIPRAP SIZING AND OUTLET PROTECTION DIMENSIONS REQUIRED FOR STEEPER SLOPES. 3. TEMPORARY OUTLET PROTECTION INFORMATION IS FOR OUTLETS INTENDED TO BE UTILIZED	EXCAVATED ROADBED CL. W = 1/2 ROADBED WIDTH W = 1/2 ROADBED WIDTH	ROADS THAT ROUGH CUT S
LESS THAN 2 YEARS. <u>TEMPORARY OUTLET PROTECTION INSPECTION AND MAINTENANCE NOTES</u> 1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION.	CL SEE TABLE RCS-1 8' MINIMUM SPACING FOR VEHICLE PASSAGE	1. INSPECT E MAINTENANCE POSSIBLE (AN EROSION, AND
MAINTENANCE OF BMPS SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPS AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.		2. FREQUENT EFFECTIVE OP DOCUMENTED 3. WHERE BM
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY. 3. WHERE BMPs HAVE FALLED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON	EARTHEN BERM(S) ROUGH CUT STREET CONTROL PLAN	3. WHERE BN DISCOVERY O (details adapted <u>NOTE:</u> MANY
DISCOVERY OF THE FAILURE. <u>NOTE:</u> 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.	PL CL W PL	CONSULT WIT DIFFERENCES
(DETAILS ADAPTED FROM AURORA, COLORADO AND PREVIOUS VERSION OF VOLUME 3, NOT AVAILABLE IN AUTOCAD)	EXCAVATED ROADBED COMPACT FULLED SOCK(S) FILLED WITH CRUSH ROCK OR COMPACTED EARTHEN BERM(S)	
	SECTION A	
	12" TO 18"	
	SECTION B TABLE RCS-1 W (FT) X (FT) TABLE RCS-2 W (FT) X (FT) SPACING (FT)	
	W (+1) X (+1) STREET SLOPE (%) SPAURU (+1) 20-30 5 2 NOT TYPICALLY NEEDED 31-40 7 3 200	
	$\begin{array}{c ccccc} 41-50 & 9 \\ \hline 51-60 & 10.5 \\ \hline 61-70 & 12 \\ \hline \end{array} \qquad \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	RCS-1. ROUGH CUT STREET CONTROL	
November 2010 Urban Drainage and Flood Control District TOP-3 Urban Storm Drainage Criteria Manual Volume 3	RCS-2 Urban Drainage and Flood Control District November 2010 Urban Storm Drainage Criteria Manual Volume 3	November 2010
C-12 Check Dams (CD)	Check Dams (CD) EC-12	<u>EC-12</u>
CHECK DAM INSTALLATION NOTES 1. SEE PLAN VIEW FOR: —LOCATION OF CHECK DAMS.	ALTERNATIVE TO STEPS ON BANKS ABOVE CREST: DEFORM GABIONS AS NECESSARY TO ALIGN TOP OF GABIONS WITH GROUND SURFACE: AVOID GAPS BETWEEN GABIONS	REINFORCED C 1. INSPECT BN MAINTENANCE (
-CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM). -LENGTH (L), CREST LENGTH (CL), AND DEPTH (D). 2. CHECK DAMS INDICATED ON INITIAL SWMP SHALL BE INSTALLED AFTER CONSTRUCTION FENCE, BUT FRIOR TO ANY UPSTREAM LAND DISTURBING ACTIVITIES.		POSSIBLE (ANI EROSION, AND 2. FREQUENT EFFECTIVE OPE
FENCE, BUT PRIOR TO ANY UPSTREAM LAND DISTURBING ACTIVITIES. 3. RIPRAP UTILIZED FOR CHECK DAMS SHOULD BE OF APPROPRIATE SIZE FOR THE APPLICATION. TYPICAL TYPES OF RIPRAP USED FOR CHECK DAMS ARE TYPE M (D50 12") OR TYPE L (D50 9").	MAA, SICP HEGHT 1'6' 1' <u>6'</u> TYP (1'6'' MIN)	EFFECTIVE OF DOCUMENTED 3. WHERE BM DISCOVERY OF
4. RIPRAP PAD SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1'. 5. THE ENDS OF THE CHECK DAM SHALL BE A MINIMUM OF 1' 6" HIGHER THAN THE CENTER	COMPACTED HOG RINGS MIN. BURY CONFILED GABION BACKFILL HOG RINGS DEPTH 1'6" ADJACENT GABION	4. SEDIMENT NEEDED TO MA DEPTH IS WITH
OF THE CHECK DAM. <u>CHECK DAM MAINTENANCE NOTES</u> 1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION, MAINTENANCE OF EARLS, CHARTER AND REMATIVE INSPECT BHPs AS SOON AS	REINFORCED CHECK DAM ELEVATION VIEW	5. REPAIR OR AS HOLES IN 6. REINFORCE AREA IS STAB
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 INCESSARY MAINTENANCE. 2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE INCESSARY TO MAINTAIN BMPS IN	1.6° 1.6° 1.6° 1.6° Min	7. WHEN REIN COVERED WITH OR OTHERWISI
2.FFECTIVE OPERATING SAIDS AND MUNITERVALE AND CORRECTIVE MEASURES SHOLD BE DOCUMENTED THOROUGHLY. 3. WHERE BMPS HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.	COMPACTED BACKFILL	(DETAIL ADAPTED NOTE: MANY CONSULT WIT DIFFERENCES
4. SEDIMENT ACCUMULATED UPSTREAM OF THE CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS WITHIN 3_2 OF THE HEIGHT OF THE CREST.	COMPACTED BACKFILL GEOTEXTILE BLANKET	DIFFERENCES
5. CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION. 6. WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACKFILL, DISTURBED AREA SHALL BE SEEDED AND MULCHED AND COVERED WITH	1. SEE PLAN VIEW FOR: -LOCATIONS OF CHECK DAMS. -CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM).	
GEOTEXTILE OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION. (DEIMLS ADAPTED FROM DOUGLAS COUNTY, COLORIDO, NOT AVAILABLE IN AUTOCAD) NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS.	-LENGTH (L), CREST LENGTH (CL), AND DEPTH (D). 2. CHECK DAMS INDICATED ON THE SWMP SHALL BE INSTALLED PRIOR TO AN UPSTREAM LAND-DISTURBING ACTIVITIES.	
COLES WART SURFAULTIONS HAVE BUT DEVILS THAT YART FROM DUPUT STANDARD DETWILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.	3. REINFORCED CHECK DAMS, GABIONS SHALL HAVE GALVANIZED TWISTED WIRE NETTING WITH A MAXIMUM OPENING DIMENSION OF 4½" AND A MINIMUM WIRE THICKNESS OF 0.10". WIRE "HOG KINGS" AT 4" SPACING OR OTHER APPROVED MEANS SHALL BE USED AT ALL GABION SEAMS AND TO SECURE THE GABION TO THE ADJACENT SECTION.	
	4. THE CHECK DAM SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1' 6". 5. GEOTEXTILE BLANKET SHALL BE PLACED IN THE REINFORCED CHECK DAM TRENCH EXTENDING A MINIMUM OF 1' 6" ON BOTH THE UPSTREAM AND DOWNSTREAM SIDES OF THE	
	EXTENDING A MINIMUM OF 1' 6" ON BOTH THE UPSTREAM AND DOWNSTREAM SIDES OF THE REINFORCED CHECK DAM. CD-2. REINFORCED CHECK DAM	
	CO 2. REINI ONOLO UTILON DAMI	
CD-4 Urban Drainage and Flood Control District November 2010 Urban Storm Drainage Criteria Manual Volume 3	November 2010 Urban Drainage and Flood Control District CD-5 Urban Storm Drainage Criteria Manual Volume 3	CD-6
RENCE		
Creek Road BNDY		
IAP-1 Creek Road BNDY RVEY NO. DATE	DESCRIPTION REVISIONS	E



BASIS OF BEARING

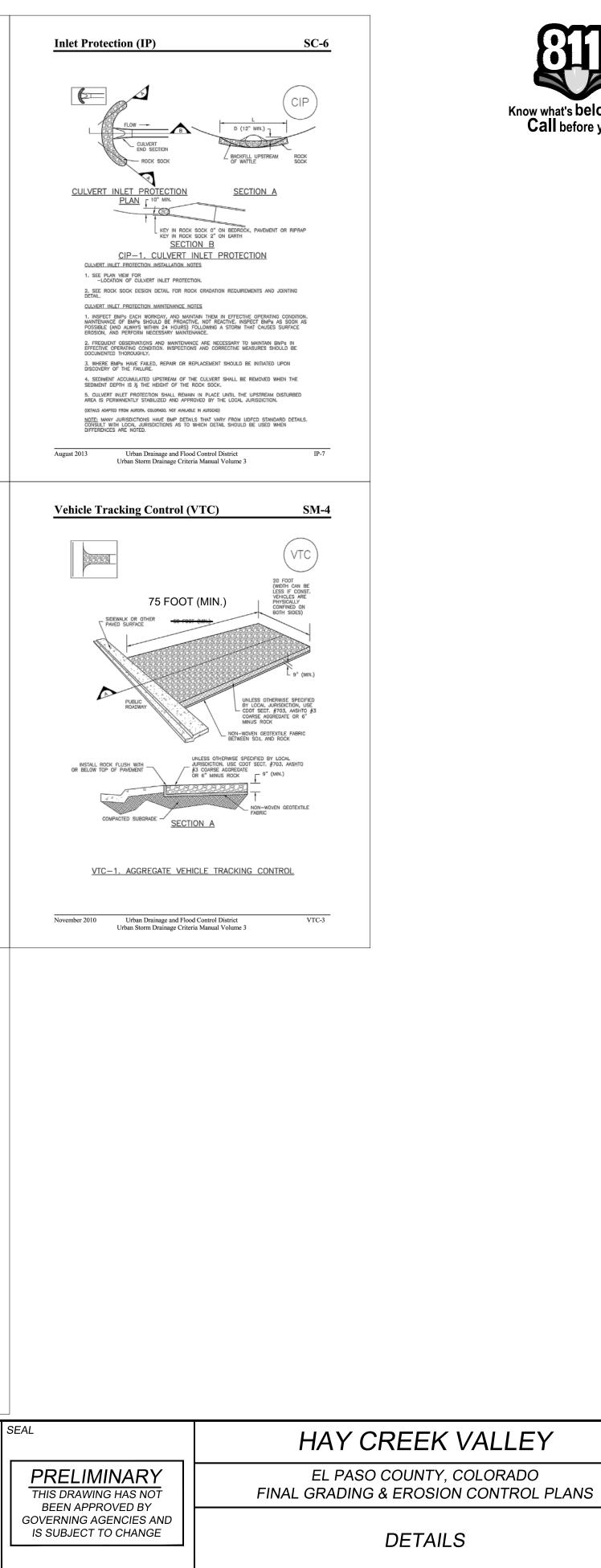
THE SOUTH LINE OF THE NORTHWEST QUARTER OF SECTION 22, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, BEING MONUMENTED ON THE EASTERLY END BY A 2-12" ALUMINUM CAP STAMPED "NOLTE PLS25955 C1/4 S22 T15S, R65W 1999, "AND THE WESTERLY END BY A2-1/2" ALUMINUM CAP STAMPED "SSS PLS 16154 1/4 S21 S22 T15S, R65W 2000, "BEING ASSUMED TO BEAR S89°54'42"W, A DISTANCE OF 2,627.78 FEET.

SEAL HAY CREEK VALLEY PRELIMINARY EL PASO COUNTY, COLORADO FINAL GRADING & EROSION CONTROL PLANS THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND PREPARED BY: IS SUBJECT TO CHANGE DETAILS Matrix FOR AND ON BEHALF OF SCALE DESIGNED BY: CVW SEPTEMBER 2023 DRAWING No. DATE ISSUED: **Excellence by Design** MATRIX DESIGN GROUP, INC. CVW HORIZ. DRAWN BY: N/A ECN01 N/A SHEET 10 OF 11 CHECKED BY: JAO VERT. PROJECT No. 22.886.076





SC-6 Inlet Protection (IP)	Inlet Protection (IP) SC-6	SC-6	Inlet Protection (IP)	Inlet Protection (IP)	SC-6	SC-6	Inlet Protection (IP)
 IP-3. Rock Sock Inlet Protection for Sump/Area Inlet IP-4. Silt Fence Inlet Protection for Sump/Area Inlet IP-5. Over-excavation Inlet Protection IP-6. Straw Bale Inlet Protection for Sump/Area Inlet CIP-1. Culvert Inlet Protection Propriety inlet protection devices should be installed in accordance with manufacturer specifications. More information is provided below on selecting inlet protection for sump and on-grade locations. Inlets Located in a Sump 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 bound te cessive localized flooding. If the inlet protection height is greater than the curb elevation, particularly if the filter 	 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. Propriety 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. Inlet protection must be removed and properly disposed of when the drainage area for the inlet has reached final stabilization. 		SEE ROCK SOCK DESIGN DETAIL FOR JOINTING IS" CINDER 16" CINDER BLOCKS FLOW 2"x4" WOOD STUD 2"x4" WOOD STUD	ROCK SOCK SUMP/AREA INI	INLET GRATE	SC-6 Intel Protection (IP)	
nes clogged with sediment, runoff will not enter the inlet and may bypass it, possibly causing ized flooding, public safety issues, and downstream erosion and damage from bypassed flows. inlets located in a sump setting can be protected through the use of silt fence, concrete block and socks (on paved surfaces), sediment control logs/straw wattles embedded in the adjacent soil and ed around the area inlet (on pervious surfaces), over-excavation around the inlet, and proprietary tets providing equivalent functions. s Located on a Slope urb and gutter inlets on paved sloping streets, block and rock sock inlet protection is recommended njunction with curb socks in the gutter leading to the inlet. For inlets located along unpaved roads, see the Check Dam Fact Sheet. intenance and Removal et inlet protection frequently. Inspection and maintenance guidance includes: nspect for tears that can result in sediment directly entering the inlet, as well as result in the contents f the BMP (e.g., gravel) washing into the inlet. For example, silt fence that has not been roperly trenched around the inlet can result in flows under the silt fence and directly into the inlet. .ook for displaced BMPs that are no longer protecting the inlet. Displacement may occur following arger storm events that wash away or reposition the inlet protection. Traffic or equipment may also rush or displace the BMP. Monitor sediment accumulation upgradient of the inlet protection.		1. SEE ROCK SOCK 2. CONCRETE "CIND SINGLE ROW, ABUTT 3. GRAVEL BAGS SH ANOTHER AND JOINT URB SOCK FLOW IP-2. CURB ROCK SOCK 1. SEE ROCK SOCK 1. SEE ROCK SOCK 2. PLACEMENT OF I IN THE OPPOSITE D 3. SOCKS ARE TO D	SOCK INLET PROTECTION INSTALLATION NOTES IS DESIGN DETAIL FOR INSTALLATION REQUIREMENTS. ERF BLOCKS SHALL BE LAID ON THEIR SIDES AROUND THE INLET IN A ING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB. HALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTING ONE TED TODETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL. INIMUM OF MO CURB OCKS APPROX 30 DEG. BLOCK AND ROCK SOCK INLET 5' MIN	Index sock sump/area indet protection installation is 1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION RED 2. STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USE INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTR INTERS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTR ID-4. SILT FENCE FOR SUMP IN SILT FENCE INLET PROTECTION INSTALLATION NOTES 1. SEE SILT FENCE DESIGN DETAIL FOR INSTALLATION RED A MAXIMUM SPACING OF 3 FEET. 3. STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USE INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTR	D. IN PLACE OF ROCK SOCKS FOR INLET GRATE SILT FENCE (SEE SILT FENCE DESIGN DETAIL) ULET PROTECTION JIREMENTS. LET AND AROUND THE EDGES D. IN PLACE OF SILT FENCE FOR	2. WHEN USING FOR CONCEN ORIENTED TOWARDS DIRECTION 3. SEDIMENT MUST BE PERIO STRAW BALE (SEE STRAW BALE DESIGN DETAIL) IP-6. STRAW BALE STRAW BALE BARRIER INLET F 1. SEE STRAW BALE DESIGN	TECTION IS PRIMARILY APPLICABLE FOR SITES THAT HAVE NOT ND SHOULD BE USED ONLY FOR INLETS WITH A RELATIVELY E AREA. TRATED FLOWS, SHAPE BASIN IN 2:1 RATIO WITH LENGTH
Urban Drainage and Flood Control District August 2013 Urban Storm Drainage Criteria Manual Volume 3	August 2013 Urban Drainage and Flood Control District IP-3 Urban Storm Drainage Criteria Manual Volume 3		ban Drainage and Flood Control District August 2013 an Storm Drainage Criteria Manual Volume 3	August 2013 Urban Drainage and Flood Control Distri Urban Storm Drainage Criteria Manual Volu			ge and Flood Control District August 2013 rainage Criteria Manual Volume 3
<page-header><page-header><section-header><section-header><list-item><list-item><list-item><section-header><section-header><list-item><list-item><list-item><list-item><list-item><section-header><list-item><list-item><list-item><list-item><list-item><list-item><section-header></section-header></list-item></list-item></list-item></list-item></list-item></list-item></section-header></list-item></list-item></list-item></list-item></list-item></section-header></section-header></list-item></list-item></list-item></section-header></section-header></page-header></page-header>	<page-header><page-header><section-header><section-header><text><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></text></section-header></section-header></page-header></page-header>		NLETS TO SEDIMENT BASIN SHALL ENTER AT FURTHEST DISTANCE TO OUTLET AND SHALL ORNST OF A TEMPORARY SLOPE BRAN AD THE STORE AT SUBJECT OF A TEMPORARY SLOPE ORNST OF A TEMPORARY SLOPE OF PRO- BRAN BOTTOM LENSTH HE AND SHALL CRUSHED ROCK BRAN BOTTOM LENSTH HE ADDRESS OF A TEMPORARY SLOPE OF PRO- BOTTOM LENSTH HE ADDRESS OF A TEMPORARY SLOPE OF A T	<text><section-header><section-header><section-header><section-header><section-header><section-header><section-header><list-item><list-item><list-item></list-item></list-item></list-item></section-header></section-header></section-header></section-header></section-header></section-header></section-header></text>	Hote Diameter Diameter <t< td=""><td>MAINTENANCE OF BMR'S SHOLL POSSIBLE (AND ALWAYS WITHI EROSION, AND PERFORM NECL 2. FREQUENT OBSERVATIONS / EFFECTIVE OPERATING COMDIT DOCUMENTED THOROUGHLY. 3. WHERE BMPS HAVE FAILED, JISCOVERY OF THE FAILURE. 4. SEDIMENT ACCUMULATED IN EFFECTIVENESS, TYPICALLY WH BELOW THE SPILLWAY CREST). 5. SEDIMENT BASINS AFE TO IS STABLIZED AND BASINS AF WITH TOPSOL, SEEDED AND M LOCAL JURISDICTION.</td><td>NOTES DAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. D BE PROACTIVE, NOT REACTIVE, INSPECT BMPs AS SOON AS N 24 HOURS) FOLOWING A STORM THAT CAUSES SURFACE SSARY MAINTENANCE. NOT MAINTENANCE. NIN MAINTENANCE ARE NECESSARY TO MAINTAIN BMPS IN ON. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON I BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EN SEDIMENT DEPTH REACHES ONE FOOT (I.E., TWO FEET REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA VER IS ACCEPTED BY THE LOCAL JURISDICTION. HE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED MULCHED OR OTHERWISE STABILIZED AS APPROVED BY</td></t<>	MAINTENANCE OF BMR'S SHOLL POSSIBLE (AND ALWAYS WITHI EROSION, AND PERFORM NECL 2. FREQUENT OBSERVATIONS / EFFECTIVE OPERATING COMDIT DOCUMENTED THOROUGHLY. 3. WHERE BMPS HAVE FAILED, JISCOVERY OF THE FAILURE. 4. SEDIMENT ACCUMULATED IN EFFECTIVENESS, TYPICALLY WH BELOW THE SPILLWAY CREST). 5. SEDIMENT BASINS AFE TO IS STABLIZED AND BASINS AF WITH TOPSOL, SEEDED AND M LOCAL JURISDICTION.	NOTES DAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. D BE PROACTIVE, NOT REACTIVE, INSPECT BMPs AS SOON AS N 24 HOURS) FOLOWING A STORM THAT CAUSES SURFACE SSARY MAINTENANCE. NOT MAINTENANCE. NIN MAINTENANCE ARE NECESSARY TO MAINTAIN BMPS IN ON. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON I BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EN SEDIMENT DEPTH REACHES ONE FOOT (I.E., TWO FEET REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA VER IS ACCEPTED BY THE LOCAL JURISDICTION. HE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED MULCHED OR OTHERWISE STABILIZED AS APPROVED BY
Urban Drainage and Flood Control District August 2013 Urban Storm Drainage Criteria Manual Volume 3	SB-4 Urban Drainage and Flood Control District August 2013 Urban Storm Drainage Criteria Manual Volume 3		Urban Drainage and Flood Control District SB-5 an Storm Drainage Criteria Manual Volume 3	SB-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volt			age and Flood Control District SB-7 rainage Criteria Manual Volume 3
Vehicle Tracking Control (VTC)	Vehicle Tracking Control (VTC) SM-4 Image: Control (VTC) Image: Control (VTC) Image: Control (VTC) Image: Control (VTC)	1. SEE PLAN VIEW -LOCATION OF -TYPE OF CON CONSTRUCTION	CONSTRUCTION ENTRANCE(S)/EXIT(S). VSTRUCTION ENTRANCE(S)/EXITS(S) (WITH/WITHOUT WHEEL WASH, MAT OR TRM).		SM-6	STORAGE, AND UNLOADING/LOAD 6. THE STABILIZED STAGING ARE GRANULAR MATERIAL SHALL BE	IALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING,
PROTOCORRETE PRACH TY DUT CONTRACT PRACH WASH RACK THE PRACE PRACH THE PRACE THE PR		USED ON SHORT DI WHERE THERE WILL 3. A STABILIZED CO WHERE VEHICLES AC 4. STABILIZED CONS DISTURBION ACTIVITI 5. A NON-WOVEN C CONSTRUCTION ENTF 6. UNLESS OTHERWI SECT. #703, AASITT STABILIZED CONSTRU- STABILIZED CONSTRU- POSSIBLE (AND AUX EROSION, AND PERF 2. FREQUENT OBSE EFFECTIVE OPERATIN DOCUMENTED THOR 3. WHERE BMPS HA DISCOVERY OF THE 4. ROCK SHALL BE ENTRANCE/EXIT TO 5. SEDIMENT TRACK AT THE END OF THE DOWN STORM SEWEN NOTE: MANY JURISD CONSULT WITH LOCK	SECTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED RANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK. ISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT 0 #3 COARSE AGGREGATE OR 6" (MINUS) ROCK. UCTION ENTRANCE/EXIT. MAINTENANCE. NOTES ACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MPS SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS WAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE FORM NECESSARY MAINTENANCE. RWATIONS AND MAINTENANCE. ARE RECEIVE MEASURES SHOULD BE DUGHLY. WE FALLED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON FALUER. RECAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED MAINTAIN A CONSISTENT DEPTH. EO ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND E DAY BY SHOVELING OR SWEEPING, SEDIMENT MAY NOT BE WASHED R ORAINS, HOVELING OR SWEEPING, SEDIMENT MAY NOT BE WASHED R ORAINS, HOVELING OR SWEEPING, SEDIMENT MAY NOT BE WASHED R ORAINS, HOVELING OR SWEEPING, SEDIMENT MAY NOT BE WASHED R ORAINS, HOWE BMP DETAILS THAT VARY FROM UDFOD STANDARD DETAILS. AL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE INDIC DETAILS.	 STABILIZED CONSTRUCTION ENTRANCE (SEE DETAILS VIC-J) ENTRIN COMPACE ENTRANCE (SEE DETAILS VIC-J) ENTRIN COMPACE ENTRIN COMPARISHING CONTINNIC AND MAINTENANCE ENTRIN COMPACE ENT	GING AREA WITH APPROVAL THE NEEDS OF THE SITE, WING CONSTRUCTION. ERATIONS ON THE SITE. AUM 3" THICK GRANULAR DCK SHALL CONSIST OF DOT ROCK. 3 BUT NOT LIMITED TO SILT FFECTIVE OPERATING CONDITION. E. INSPECT BMP9 AS SOON AS DRM THAT CAUSES SURFACE NRY TO MAINTAIN BMP9 IN IVE MEASURES SHOULD BE	OTHERWISE STÄBILIZED IN A MAI NOTE: MANY MUNICIPALITIES PRO MATERIAL FOR STABILIZED STAGI VEGETATION IN AREAS WHERE R NOTE: MANY JURISDICTIONS HAW	NNER APPROVED BY LOCAL JURISDICTION. DHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR NG AREAS DUE TO DIFFICULTES WITH RE-ESTABLISHMENT OF ECYCLED CONCRETE WAS PLACED. E BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. IONS AS TO WHICH DETAIL SHOULD BE USED WHEN
TC-4 Urban Drainage and Flood Control District November 2010 Urban Storm Drainage Criteria Manual Volume 3	November 2010 Urban Drainage and Flood Control District VTC-5 Urban Storm Drainage Criteria Manual Volume 3		rban Drainage and Flood Control District November 2010 an Storm Drainage Criteria Manual Volume 3	November 2010 Urban Drainage and Flood Control Distri Urban Storm Drainage Criteria Manual Volu			ge and Flood Control District November 2010 rainage Criteria Manual Volume 3
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A Road BNDY EY NO. DATE COMPUTER FILE MANAGEMENT FILE NAME: S:\22.886.076 Hay Creek-Forest Manol CTB FILE: Matrix.ctb PLOT DATE: 9/22/2023 2:33 PM THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT	DESCRIPTION REVISIONS r-O'Leary Properties\500 CADD\504 Plan Sets\Construction Plans\GEC Pla	BY		BASIS OF BEARING THE SOUTH LINE OF THE NORTHWEST OF RANGE 65 WEST OF THE 6TH PRINCIPAL COLORADO, BEING MONUMENTED ON TH STAMPED "NOLTE PLS25955 C1/4 S22 T15 A2-1/2" ALUMINUM CAP STAMPED "SSS P ASSUMED TO BEAR S89°54'42"W, A DISTA	MERIDIAN, COUNTY OF EL PA HE EASTERLY END BY A 2-12" 55, R65W 1999, "AND THE WES LS 16154 1/4 S21 S22 T155, R6	ASO, STATE OF ALUMINUM CAP STERLY END BY	PREPARED BY: Matrix Excellence by Design



FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 22.886.076



HAY CREEK VALLEY

DESIGNED BY:CVWSCALEDATE ISSUED:DRAWN BY:CVWHORIZ.N/ACHECKED BY:JAOVERT.N/A SEPTEMBER 2023 DRAWING No. ECN02 11 OF 11