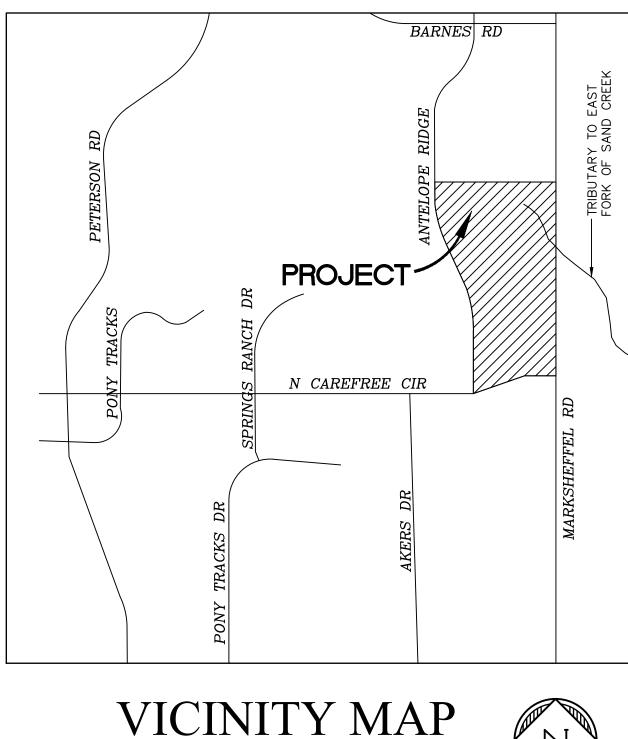
WINDERMERE EROSION CONTROL AND STORMWATER QUALITY PLAN E 1/2 OF SECTION 29,T13S, R65W OF THE 6TH P.M. EL PASO COUNTY, COLORADO

AGENCY CONTACTS

<u>COUNTY</u>	EL PASO COUNTY PLANNING & COMMUNITY DEVELOPMENT KARI PARSONS, PROJECT MANAGER/PLANNER II 2880 INTERNATIONAL CIRCLE, SUITE 110 COLORADO SPRINGS, CO 80910 (719) 520–6300	ELECTRIC	MOUNTAIN VIEW ELECTRIC ASSOCIATION LES ULFERS 11140 E. WOODMEN ROAD FALCON, CO 80831 (719) 495–2283
<u>FIRE</u>	CIMARRON HILLS FIRE DEPARTMENT STEVE CONNER, FIRE CHIEF 1835 TUSKEGEE PL COLORADO SPRINGS, CO 80915 (719)591–0960	<u>GAS</u>	COLORADO SPRINGS UTILITIES TODD STURTEVANT 1521 HANCOCK EXPRESSWAY COLORADO SPRINGS, CO 80947 (719) 668–3556
<u>WATER</u>	CHEROKEE METROPOLITAN DISTRICT JONATHON SMITH, SUPERINTENDENT OF WATER & WASTEWATER 6250 PALMER PARK BLVD COLORADO SPRINGS, CO 80915 (719) 597–5080	<u>TELEPHONE</u>	CENTURY LINK PATTY MOORE (719) 636–6096 (LOCATORS) (719) 597–8418 AT&T (LOCATORS) (710) 675–7674
<u>WASTEWATER</u>	CHEROKEE METROPOLITAN DISTRICT JONATHON SMITH, SUPERINTENDENT OF WATER & WASTEWATER 6250 PALMER PARK BLVD COLORADO SPRINGS, CO 80915 (719) 597–5080	<u>CABLE</u>	(LOCATORS) (719) 635–3674 COMCAST DALE STEWART 213 N. UNION BLVD COLORADO SPRINGS, CO 80909

ESTIMATED COST OF TEMPORARY + PERMANENT BMPs INCLUDING INSTALLATION AND MAINTENANCE UNTIL FINAL STABILIZATION (FINAL + INTERIM STAGE)

Description	Quantity	Units		Cost		Total	% Complete	
SECTION 1 - GRADING AND EROSION CON	TROL (Construe	ction and I	Permar	nent BMP	s)			
* Earthwork								
less than 1,000; \$5,300 min		CY	\$	8.00	=	\$ -		\$
1,000-5,000; \$8,000 min		CY	\$	6.00	=	\$ -		\$
5,001-20,000; \$30,000 min		CY	\$	5.00	=	\$ -		\$
20,001-50,000; \$100,000 min		CY	\$	3.50	=	\$ -		\$
50,001-200,000; \$175,000 min	140,000	CY	\$	2.50	=	\$ 350,000.00	100.00%	\$
greater than 200,000; \$500,000 min		CY	\$	2.00	=	\$ -		\$
* Permanent Seeding (inc. noxious weed mgmnt.)	15	AC	\$	828.00	=	\$ 12,420.00		\$
* Mulching		AC	\$	777.00	=	\$ -		\$
* Permanent Erosion Control Blanket		SY	\$	6.20	=	\$ -		\$
* Permanent Pond/BMP Construction		CY	\$	21.00	=	\$ -		\$
* Permanent Pond/BMP (spillway)	2	EA	\$ 15	5,000.00	=	\$ 30,000.00		\$
* Permanent Pond/BMP (outlet structure)	2	EA	\$ 12	2,000.00	=	\$ 24,000.00		\$
Safety Fence		LF	\$	3.10	=	\$ -		\$
Temporary Erosion Control Blanket		SY	\$	3.10	=	\$ -		\$
Vehicle Tracking Control	2	EA	\$ 2	2,453.00	=	\$ 4,906.00	100.00%	, \$
Silt Fence	3,470	LF	\$	2.60	=	\$ 9,022.00	100.00%	, \$
Temporary Seeding	52	AC	\$	650.00	=	\$ 33,800.00		\$
Temporary Mulch	52	AC	\$	777.00	=	\$ 40,404.00		\$
Erosion Bales	90	EA	\$	26.00	=	\$ 2,340.00	100.00%	\$
Erosion Logs/Straw Waddle		LF	\$	5.20	=	\$ -		\$
Rock Check Dams		EA	\$	518.00	=	\$ -		\$
Inlet Protection	15	EA	\$	173.00	=	\$ 2,595.00	20.00%	, \$
Sediment Basin	3	EA	\$	1,824.00	=	\$ 5,472.00	100.00%	, \$
Concrete Washout Basin	1	EA	\$	932.00	=	\$ 932.00	100.00%	, \$
Riprap rundown	1	EA	\$ 10	0,000.00	=	\$ 10,000.00		\$
[insert items not listed but part of construction plans]					=	\$ -		\$
	A INTENA NCE (35%	of Const	ruction	BMPs)	=	\$ 38,314.85		\$
^t - Subject to defect w arranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)		Sectio	on 1 S	ubtotal	=	\$ 564,205.85		\$



NOT TO SCALE



Remaining

12,420.00

30,000.00

24,000.00

33,800.00

40,404.00

-

2,076.00

-

10,000.00

191,014.85

-

(719) 442-4733

STRUCTURAL FILL

DURING EARTHWORK BALANCING ACROSS THE SITE, AREAS TO RECEIVE STRUCTURAL FILL SHOULD HAVE TOPSOIL, ORGANIC MATERIAL, OR DEBRIS REMOVED. LOOSE, WET SOILS, ESPECIALLY THOSE FROM NOTED DRAINAGE AREAS, SHOULD BE EXCAVATED TO DRY SOLID MATERIAL, STOCKPILED AND EVALUATED FOR SUITABILITY OF RE-USE AS STRUCTURAL FILL. IF SOLI IS FOUND TO BE UNSUITABLE AS STRUCTURAL FILL, IT MAY STILL BE SUITABLE AS BACKFILL IN NON-STRUCTURAL APPLICATIONS.

STRUCTURAL FILL COMPOSED OF ON-SITE SOILS SHOULD CONSIST OF GRANULAR, NIL TO LOW-EXPANSIVE MATERIAL. IF CLAYSTONE IS ELECTED TO BE RE-USED IT SHOULD BE THOROUGHLY PROCESSED, MOISTURE CONDITIONED AND BLENDED WITH SAND SOIL. FILL SHOULD BE SPREAD ACROSS THE SITE AND PLACED IN EVEN LOOSE LIFTS NOT EXCEEDING 10-INCHES, MOISTURE CONDITIONED TO FACILITATE COMPACTION (USUALLY WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT), AND COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROTOR TEST, ASTM D-698. THE MATERIALS SHOULD BE SPREAD AND COMPACTED BY MECHANICAL MEANS.

STRUCTURAL FILL PLACED ON SLOPES SHOULD BE BENCHED INTO THE SLOPE. MAXIMUM BENCH HEIGHTS SHOULD NOT EXCEED 4 FEET, AND BENCH WIDTHS SHOULD BE WIDE ENOUGH TO ACCOMMODATE COMPACTION EQUIPMENT. MATERIALS USED FOR STRUCTURAL FILL SHOULD BE APPROVED BY RMG PRIOR TO USE. STRUCTURAL FILL SHOULD NOT BE PLACED ON FROZEN SUBGRADE OR ALLOWED TO FREEZE DURING MOISTURE CONDITIONING AND PLACEMENT.

BENCHMARK

ELEVATIONS ARE BASED ON COLORADO SPRINGS UTILITIES FACILITIES INFORMATION SYSTEM (FIMS), A 2" ALUMINUM CAP STAMPED "BLT100" IN SE CORNER OF CATCH BASIN ON EAST SIDE OF ANTELOPE RIDGE DRIVE 1500'± NORTH OF NORTH CAREFREE CIR., WITH AN ELEVATION OF 6607.03 (NGVD 29).

LEGAL DESCRIPTION THE EAST HALF OF SECTION 29, TOWNSHIP 13 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO.

FLOODPLAIN STATEMENT

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) PANEL #08041C0543 G (DECEMBER 7, 2018) THE PROJECT SITE IS WITHIN A DESIGNATED ZONE X AREA DESCRIBED AS "AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN".

TIMING

ANTICIPATED STARTING AND COMPLETION TIME PERIOD OF SITE GRADING: WINTER/SPRING 2021-SUMMER/FALL 2021 AREAS

TOTAL AREA OF THE SITE TO BE CLEARED, EXCAVATED OR GRADED: APPROXIMATELY 54.9 ACRES

RECEIVING WATERS

SOILS

HYDROLOGIC TYPE A: TRUCKTON SANDY LOAM

38,314.85

EXISTING SITE IS UNDEVELOPED AND COVERED WITH NATIVE GRASSES

10 TIM D. MCCONNELL P.E.# 33797

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

JEFF MARK OWNER

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.

JENNIFER IRVINE, P.E. COUNTY ENGINEER

VEGETATION

SHEET INDEX

EC01	COVER SHEET
EC02	NOTES
EC03	INITIAL/INTERIM GEC PLAN
EC04	FINAL GEC PLAN
EC05	EROSION CONTROL DETAILS
EC06	EROSION CONTROL DETAILS
EC07	EROSION CONTROL DETAILS
PD-1	NORTH POND OUTLET STRUCTURE DETAILS
PD-2	SOUTH POND OUTLET STRUCTURE DETAILS
FB	POND FOREBAY DETAILS

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.

O Maulle	2-7-22	
NELL	DATE	

OWNER'S STATEMEN

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2-7-22	
DATE	

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.

> APPROVED Engineering Department

> > 04/04/2022 3:25:50 PM

sdniikam

EPC Planning & Communit

Development Departmen

-	PREPARED) BY:
	DREXEL, BARR Engineers • Su 3 SOUTH 7TH S COLORADO SPGS, COL CONTACT: TIM D. Mcc (719)260-08 BOULDER • COLORADO SPI	ITVEYOTS STREET LORADO 80905 CONNELL, P.E. 87
ł	CLIEN	
		DHUIS PANY
	212 N. WAHSATCH COLORADO SPRINGS (719) 635–3 CONTACT: JEFF	, CO 80903 3200
	AERE ON CONTROL	FEL ROAD , COLORADO
	WINDERMERE GRADING & EROSION CONTR	N. MARKSHEFFEL ROAD EL PASO COUNTY, COLORADO
	<u>G</u> RAJ	
	ISSUE	DATE
	ISSUE INITIAL ISSUE LATEST ISSUE	2/21/19 2/7/22
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	ISSUE INITIAL ISSUE LATEST ISSUE DESIGNED BY: DRAWN BY: CHECKED BY: FILE NAME: 2118	2/21/19 2/7/22 SBN SBN TDM 7-01ECCV
	ISSUE INITIAL ISSUE LATEST ISSUE DESIGNED BY: DRAWN BY: CHECKED BY:	2/21/19 2/7/22 SBN SBN 7DM 7-01ECCV MY DIRECT AND ON
	ISSUE INITIAL ISSUE LATEST ISSUE DESIGNED BY: DRAWN BY: CHECKED BY: FILE NAME: 2118 PREPARED UNDER SUPERVISION FOR BEHALF O	2/21/19 2/7/22 SBN SBN TDM 7-01ECCV MY DIRECT AND ON F L & CO.
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	ISSUE INITIAL ISSUE LATEST ISSUE DESIGNED BY: DRAWN BY: CHECKED BY: FILE NAME: 2118 PREPARED UNDER SUPERVISION FOR BEHALF O DREXEL, BARREL DREXEL, BARREL DREXEL, BARREL DREXEL, BARREL	2/21/19 2/7/22 SBN SBN TDM 7-01ECCV MY DIRECT AND ON F L & CO.

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OF 10

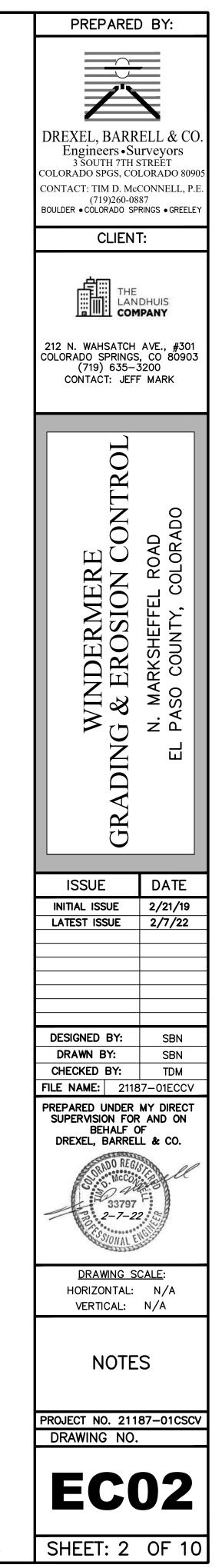
COUNTY FILE NO.: SF2126

STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS

- 1. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF SITE WATERS, INCLUDING WETLANDS.
- 2. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- 3. A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON-SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- 4. ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL BMPS AS INDICATED ON THE GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- 5. CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- 6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
- 7. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
- 8. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- 9. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- 10. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
- 11. COMPACTION OF SOIL MUST BE PREVENTED 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, UNCONTAMINATED GROUNDWATER 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. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- 16. 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.
- 17. 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. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- 18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- 19. 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.
- 20. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- 21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ON-SITE 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.

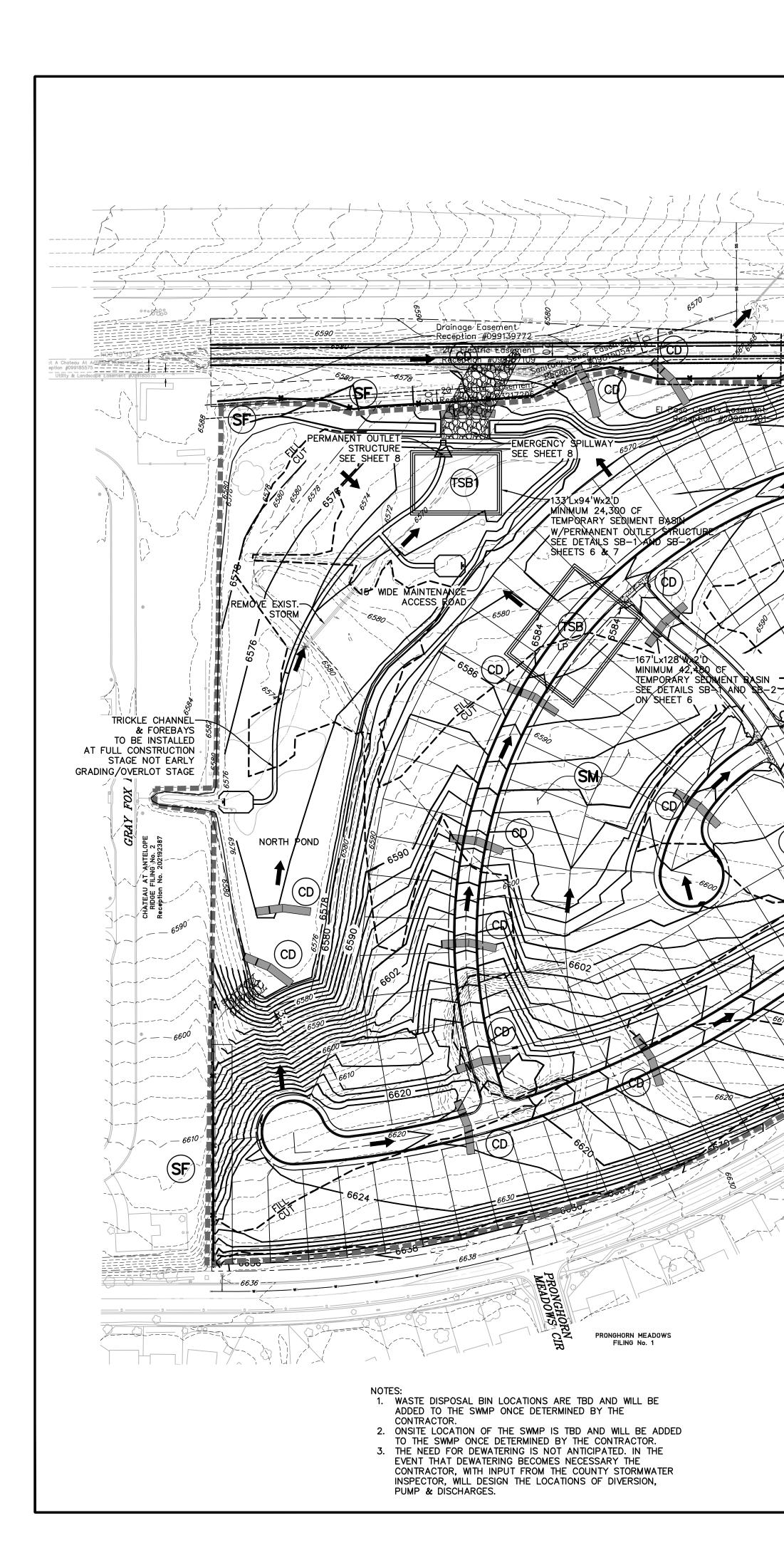
22. B	JLK STORAGE	OF ALLOWE	D PETROLE	UM PROD	JCTS OR	OTHER	ALLOWED	LIQUID C	HEMICALS	IN EXCES	S OF 55	
G	ALLONS SHALL	REQUIRE	ADEQUATE S	SECONDAR	Y CONTAI	NMENT	PROTECTIO	N TO COI	NTAIN ALI	_ SPILLS O	N-SITE AN	D
T) PREVENT AN	Y SPILLED	MATERIALS	FROM EN	TERING S	STATE W	ATERS, AN	Y SURFAC	E OR SL	JBSURFACE	STORM	
D	RAINAGE SYSTE	M OR OTH	ER FACILITIE	ES.			-					

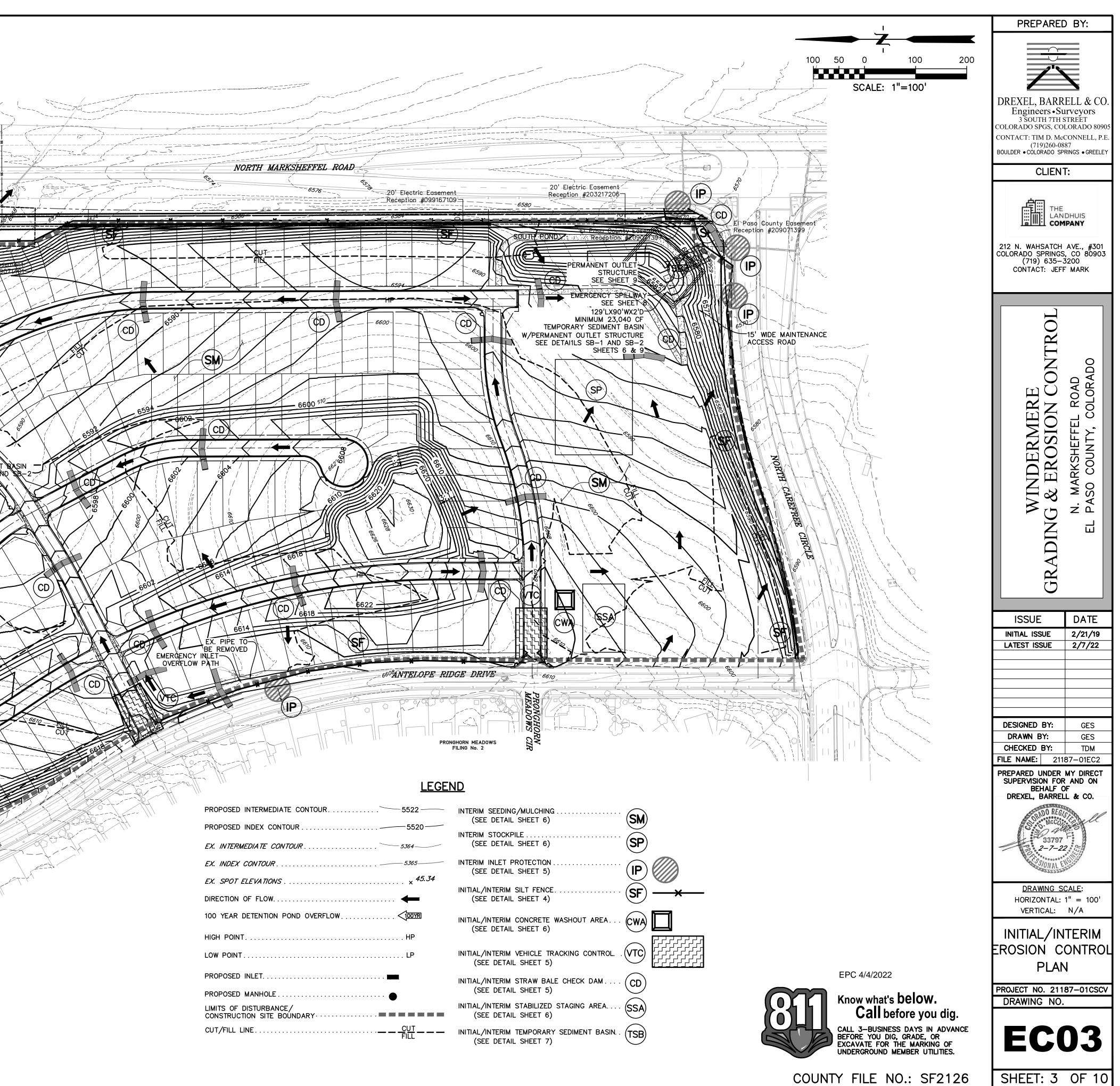
- 23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- 24. OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE 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.
- 25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- 26. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- 27. A WATER SOURCE SHALL BE AVAILABLE ON-SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- 28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY RMG ENGINEERS, OCTOBER 26, 2020 AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- 29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1)ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN(SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:
- 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



EPC 4/4/2022

COUNTY FILE NO .: SF2126

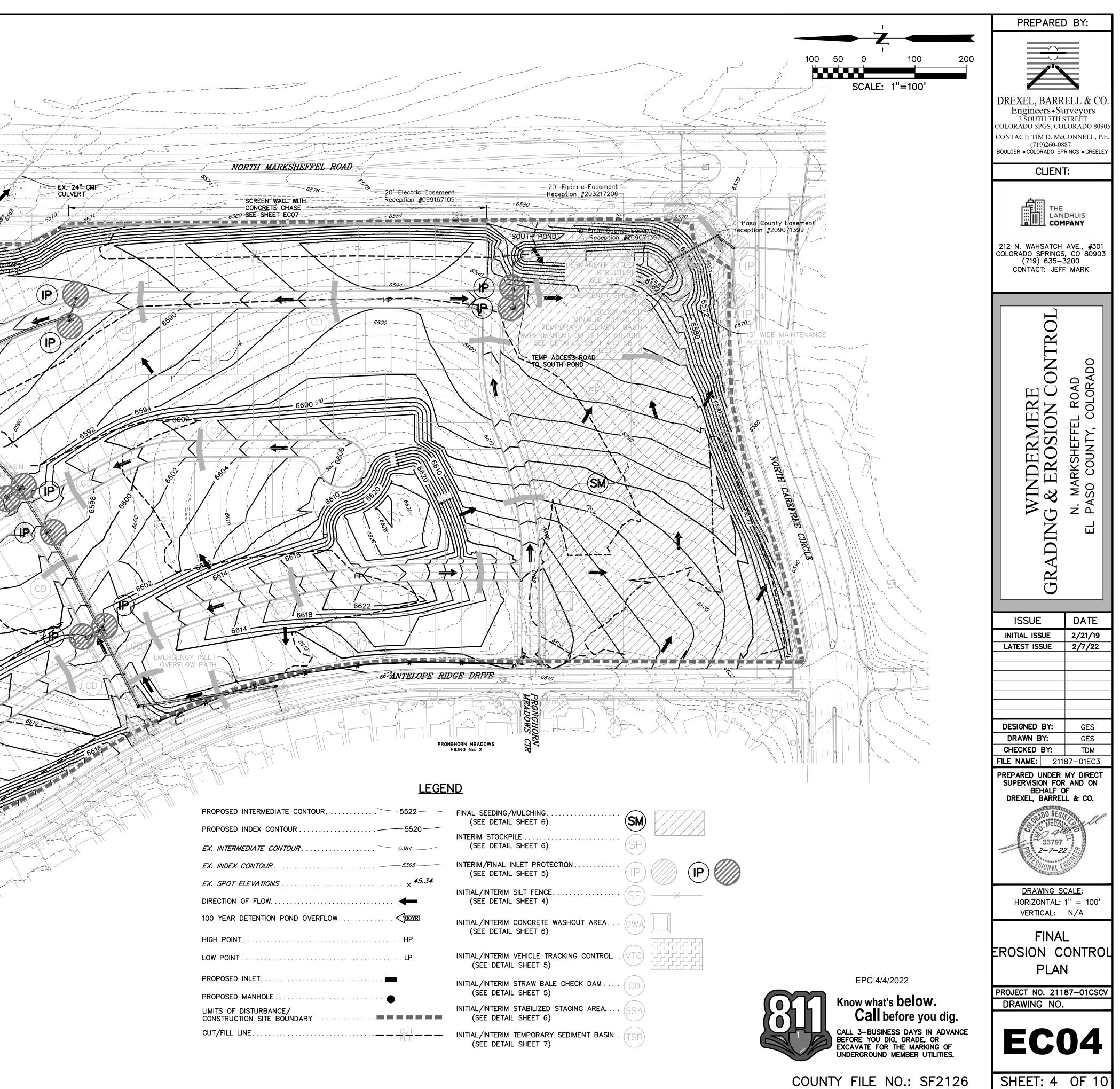




PROPOSED INTERMEDIATE CONTOUR.	- 5522
PROPOSED INDEX CONTOUR	—5520——
EX. INTERMEDIATE CONTOUR	- 5364
EX. INDEX CONTOUR	— 5365———
EX. SPOT ELEVATIONS	· · × ^{45.34}
DIRECTION OF FLOW	←
100 YEAR DETENTION POND OVERFLOW	
HIGH POINT.	HP
LOW POINT	
	LP
LOW POINT	LP
LOW POINT	LP
LOW POINT	LP

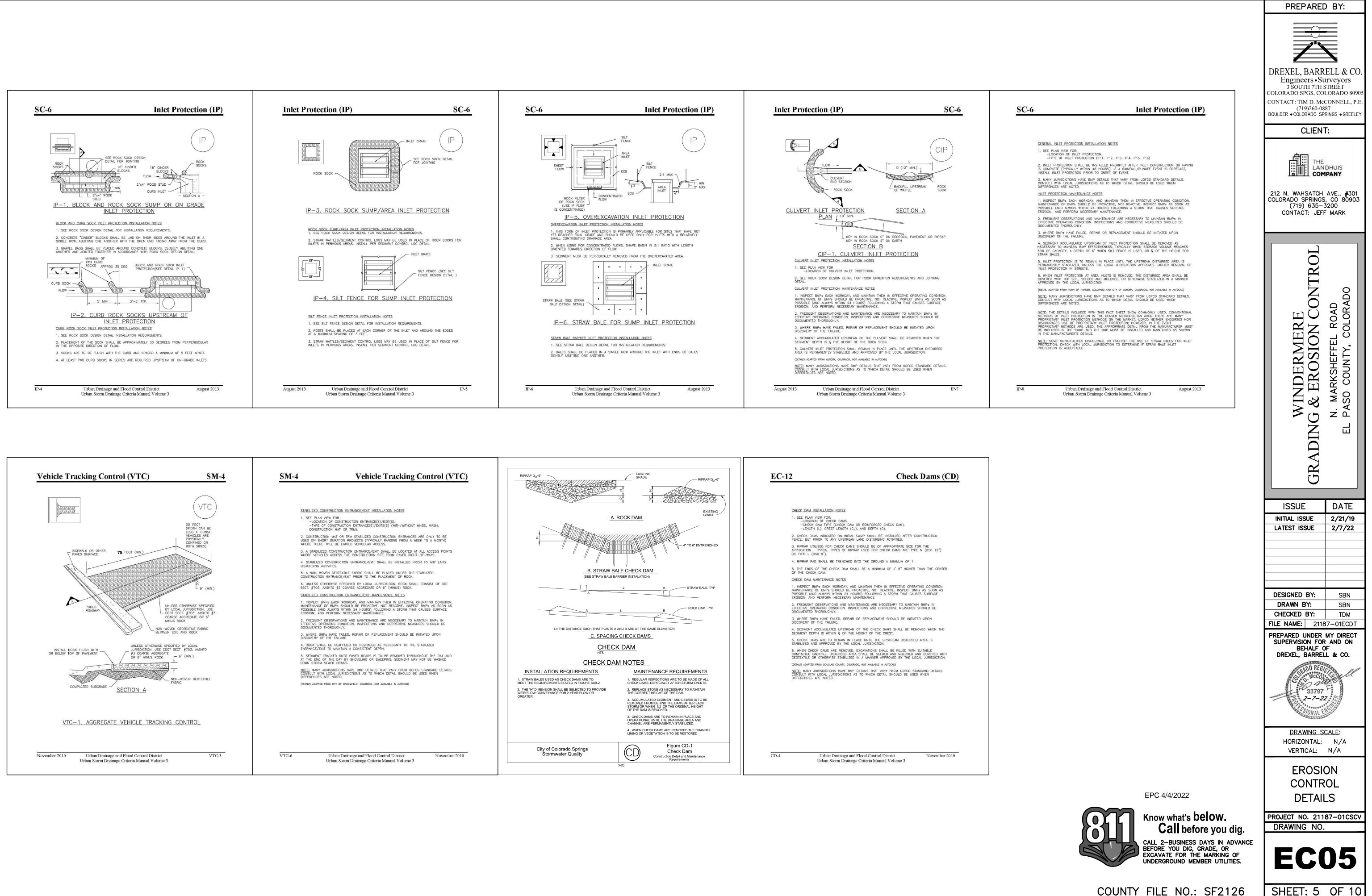
TERIM SEEDING/MULCHING (SEE DETAIL SHEET 6)
TERIM STOCKPILE
TERIM INLET PROTECTION (SEE DETAIL SHEET 5)
ITIAL/INTERIM SILT FENCE
ITIAL/INTERIM CONCRETE WASHOUT AREA (SEE DETAIL SHEET 6)
ITIAL/INTERIM VEHICLE TRACKING CONTRO (SEE DETAIL SHEET 5)

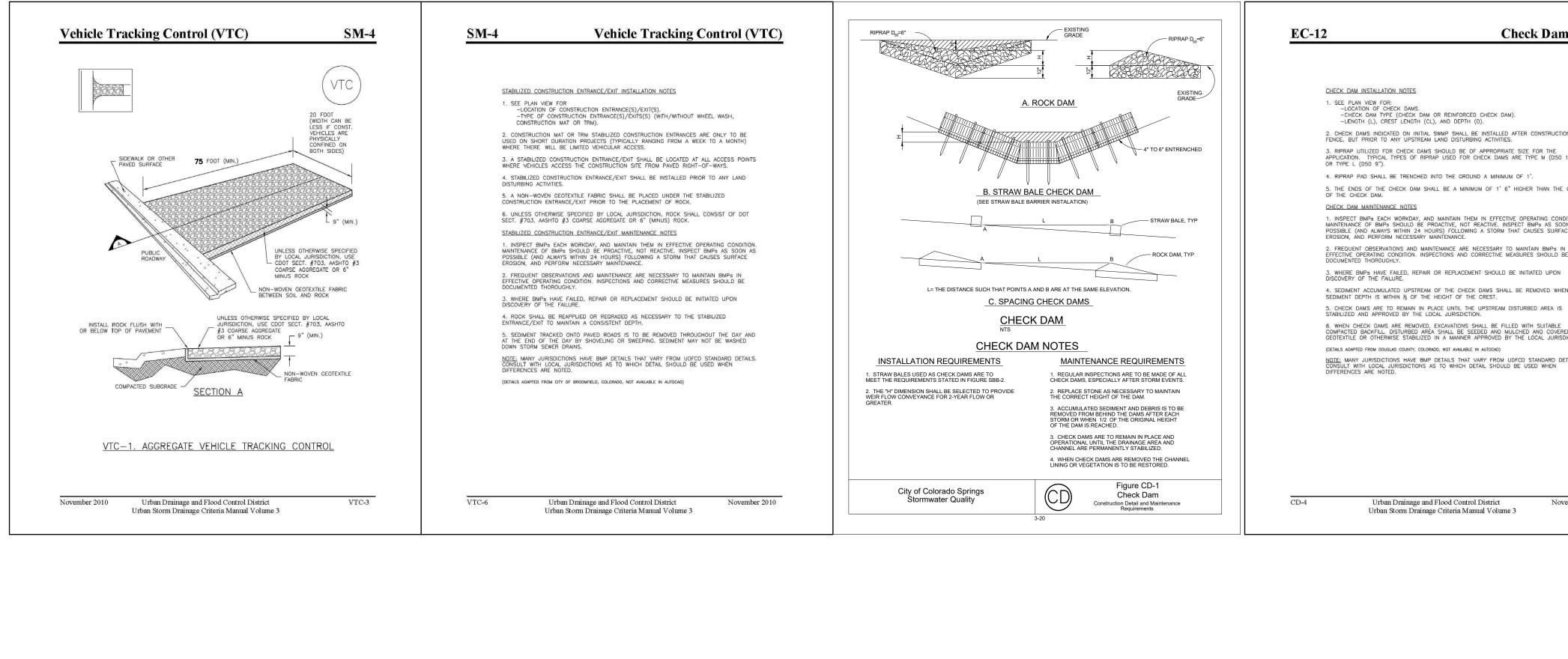


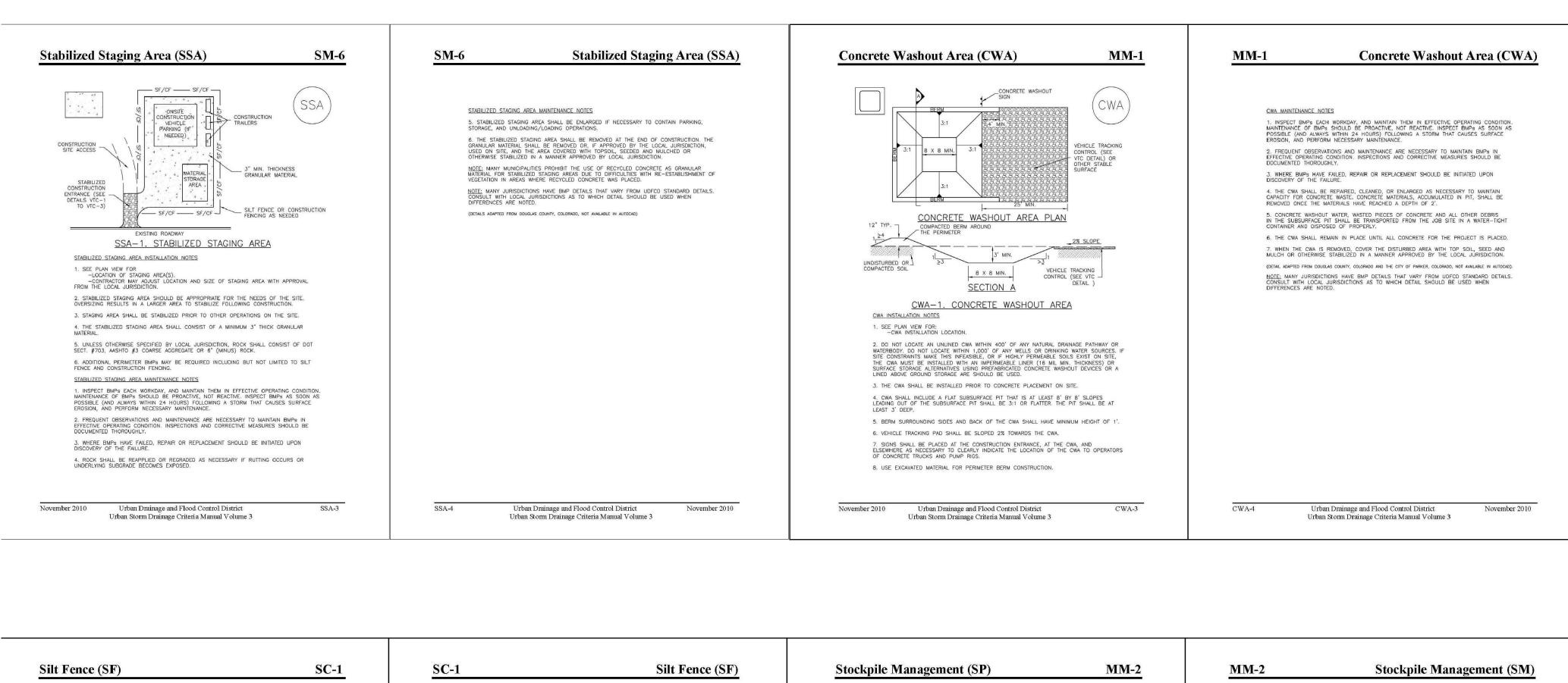


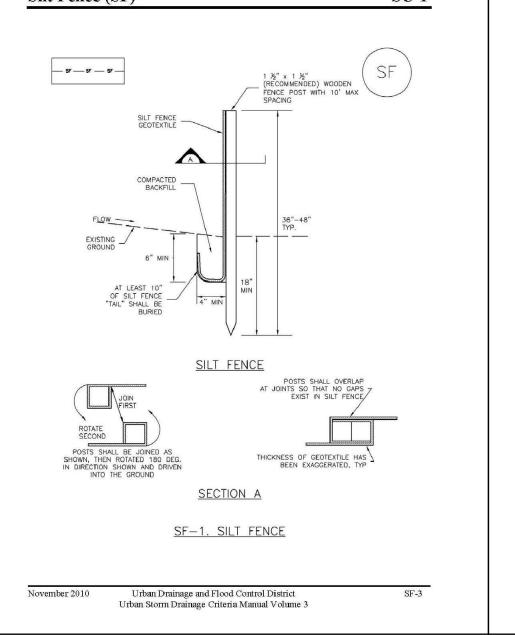
PROPOSED INTERMEDIATE CONTOUR	— 5522 ———
PROPOSED INDEX CONTOUR	
EX. INTERMEDIATE CONTOUR	- 5364
EX. INDEX CONTOUR	5365
EX. SPOT ELEVATIONS	× ^{45.34}
DIRECTION OF FLOW	. 🗲
100 YEAR DETENTION POND OVERFLOW	
HIGH POINT.	HP
LOW POINT	LP
PROPOSED INLET.	
PROPOSED MANHOLE	D
LIMITS OF DISTURBANCE/ CONSTRUCTION SITE BOUNDARY	
CUT/FILL LINE	- CUT

FINAL SEEDING/MULCHING
INTERIM STOCKPILE
INTERIM/FINAL INLET PROTECTION
INITIAL/INTERIM SILT FENCE
INITIAL/INTERIM CONCRETE WASHOUT AREA (SEE DETAIL SHEET 6)
INITIAL/INTERIM VEHICLE TRACKING CONTRO (SEE DETAIL SHEET 5)

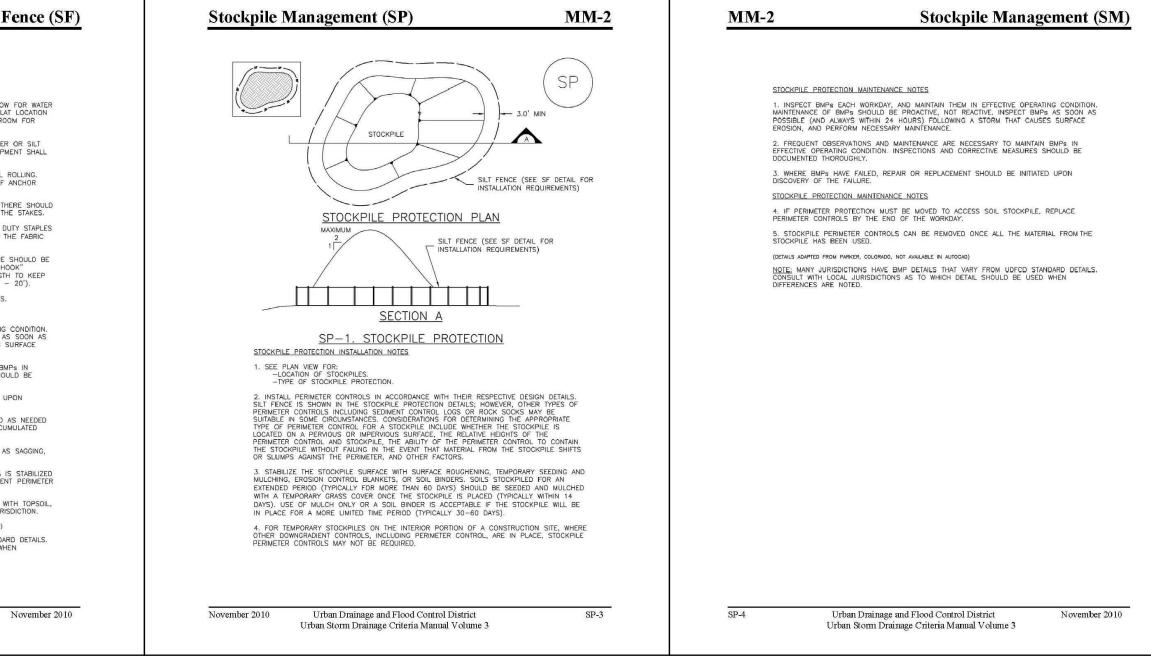








 SILT FENCE INSTALLATION NOTES 1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO PONDING, SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN AT LEAST SEVERAL FEET (2–5 FT) FROM THE TOE OF THE SLOPE TO ALL PONDING AND DEPOSITION. 2. A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TREFENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR BE USED. 3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY V COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED ON TRENCH BY HAND. 4. SILT FENCE SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED ON TRENCH BY HAND. 4. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAK BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED 5. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HE OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" AL DOWN THE STAKE. 6. AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT TURNED PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 7. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACT SILT FENCE HAINTENANCE NOTES 1. INSPECT BMPS EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPEI MAINTENANCE OF BMPS SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BY SHOULD AROUND THE END OF THE SILT FENCE (TYPICALLY DESTRVATIONS AND MAINTENANCE. 2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY MAINTENANCE. 3. WHERE BMPS HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITID THEOR TO ANY AND LABER THAT CALEROSION, AND PERFORM NECESSARY MAINTENANCE. 4. SEDIMENTS IS APPROXIMATELY 6". 5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, S TEARING, OR COLLAPSE. 6. SILT FENCE STALL BE THERE WEAR THERE ARE SIGNS OF WEAR, S TEARING, OR COLLAPSE. 	
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 SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQU SEDIMENT CONTROL BMP. 	AREA I QUIVALEN
7. WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVE SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCA	ERED W
(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, NOT AVAILABLE IN AU	
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD S CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE US DIFFERENCES ARE NOTED.	STANDAR



TEMPORARY SEEDING NOTES

1. SOIL IS TO BE CONDITIONED FOR PLANT GROWTH BY APPLYING TOPSOIL, FERTILIZER OR LIME. 2. SOIL IS TO BE TILLED IMMEDIATELY PRIOR TO APPLYING SEEDS. COMPACT SOILS ESPECIALLY NEED TO BE LOOSENED.

3. SEEDBED DEPTH IS TO BE 4 INCHES FOR SLOPES FLATTER THAN 2:1 AND 1 INCH FOR SLOPES STEEPER THAN 2:1.

4. ANNUAL GRASSES LISTED IN THE TABLE BELOW ARE TO BE USED FOR TEMPORARY SEEDING. SEED MIXES ARE NOT TO CONTAIN ANY NOXIOUS WEED SEEDS INCLUDING RUSSIAN OR CANADIAN THISTLE, KNAPWEED, PURPLE LOOSESTRIFE, EUROPEAN BINDWEED, JOHNSON GRASS, AND LEAFY SPURGE.

5. THE TABLE BELOW ALSO PROVIDES REQUIREMENTS FOR SEEDING RATES, SEEDING DATES, AND PLANTING DEPTHS FOR THE APPROVED TYPES OF ANNUAL GRASSES.

6. SEEDING IS TO BE APPLIED USING MECHANICAL TYPE DRILLS EXCEPT WHERE SLOPES ARE STEEP OR ACCESS IS LIMITED THEN HYDRAULIC SEEDING MAY BE USED. 7. ALL SEEDED AREAS ARE TO BE MULCHED.

8. IF HYDRAULIC SEEDING IS USED THEN HYDRAULIC MULCHING SHALL BE DONE SEPARATELY TO AVOID SEEDS BECOMING ENCAPSULATED IN THE MULCH.

MULCHING NOTES

INSTALLATION REQUIREMENTS

1. MATERIAL USED FOR MULCH CAN BE CERTIFIED CLEAN, WEED-AND SEED-FREE LONG STEMMED FIELD OR MARSH HAY, OR STRAW OF OATS, BARLEY, WHEAT, RYE, OR TRITICALE CERTIFIED BY THE COLORADO DEPARTMENT OF AGRICULTURE WEED FREE FORAGE CERTIFICATION PROGRAM.

2. HYDRAULIC MULCHING MATERIAL SHALL CONSIST OF VIRGIN WOOD FIBER MANUFACTURED FROM CLEAN WHOLE WOOD CHIPS. WOOD CHIPS CANNOT CONTAIN ANY GROWTH OR GERMINATION INHIBITORS OR BE PRODUCED FROM RECYCLED MATERIAL.

3. MULCH IS TO BE APPLIED EVENLY AT A RATE OF 2 TONS PER ACRE.

4. MULCH IS TO BE ANCHORED EITHER BY CRIMPING (TUCKING MULCH FIBERS 4 INCHES INTO THE SOIL), USING NETTING (USED ON SMALL AREAS WITH STEEP SLOPES) OR WITH A TACKIFIER. 5. HYDRAULIC MULCHING AND TACKIFIERS ARE NOT TO BE USED IN THE PRESENCE OF FREE SURFACE WATER.

MAINTENANCE REQUIREMENTS

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL MULCHED AREAS.

2. MULCH IS TO BE REPLACED IMMEDIATELY IN THOSE AREAS IT HAS BEEN REMOVED, AND IF NECESSARY THE AREA SHOULD BE RESEEDED.

SEEDING PLAN

NATIVE SEEDING MIX

SOIL PREPARATION, FERTILIZER, SEEDING, MULCHING AND MULCH TACKIFIER WILL BE REQUIRED FOR DISTURBED AREAS EXCLUDING THE RIGHT-OF-WAYS.

THE FOLLOWING TYPES AND RATES SHALL BE USED:

COMMON NAME	SCIENTIFIC NAME	LBS PLS/ACRE
SAND BLUESTEM V. ELIDA WESTERN WHEATGRASS V. ARRIBA SIDEOATS GRAMA V. VAUGHN GALLETA V. VIVA (CARYOPSIS) LITTLE BLUESTEM V. PASTURA PRARIE SANDREED V. GASHEN SWITCHGRASS V. NEBR 28 BLANKETFLOWER PRARIE CONEFLOWER BLUE FLAX OATS WINTER WHEAT	ANDROPOGON HALLII PASCOPYRUM SMITHII BOUTELOUA CURTIPENDULA HILARIA JAMESII SCHIZACHYRIUM SCOPARIUM CALAMOVILFA LONGIFOLIA PANICUM VIRGATUM GAILLARDIA ARISTATA RATIBIDA COLUMINIFERA LINUM LEWISII AVENA SATIVA TRITICUM AESTIVUM	2.0 7.0 4.0 1.0 3.0 2.0 1.0 1.0 0.5 1.0 3.0 3.0
TOTAL/POUNDS/ACRE		28.5

FERTILIZER	RATE PER ACRE
NITROGEN	27
PHOSPHORUS (P205)	69

SEEDING APPLICATION: DRILL SEED 0.25"-0.5" INTO TOPSOIL. AREA NOT ACCESSIBLE TO A DRILL SEEDER AND SLOPES STEEPER THAN 2:1 SHALL BE HAND BROADCAST AT DOUBLE THE ABOVE SEED RATE AND RAKED AT 1/4 TO 1/2 INTO THE TOPSOIL.

MULCHING APPLICATION: 1 1/2 TONS CERTIFIED WEED FREE NATIVE HAY PER ACRE MECHANICALLY CRIMED IN TOPSOIL IN COMBINATION WITH AN ORGANIC MULCH TACKIFIER.



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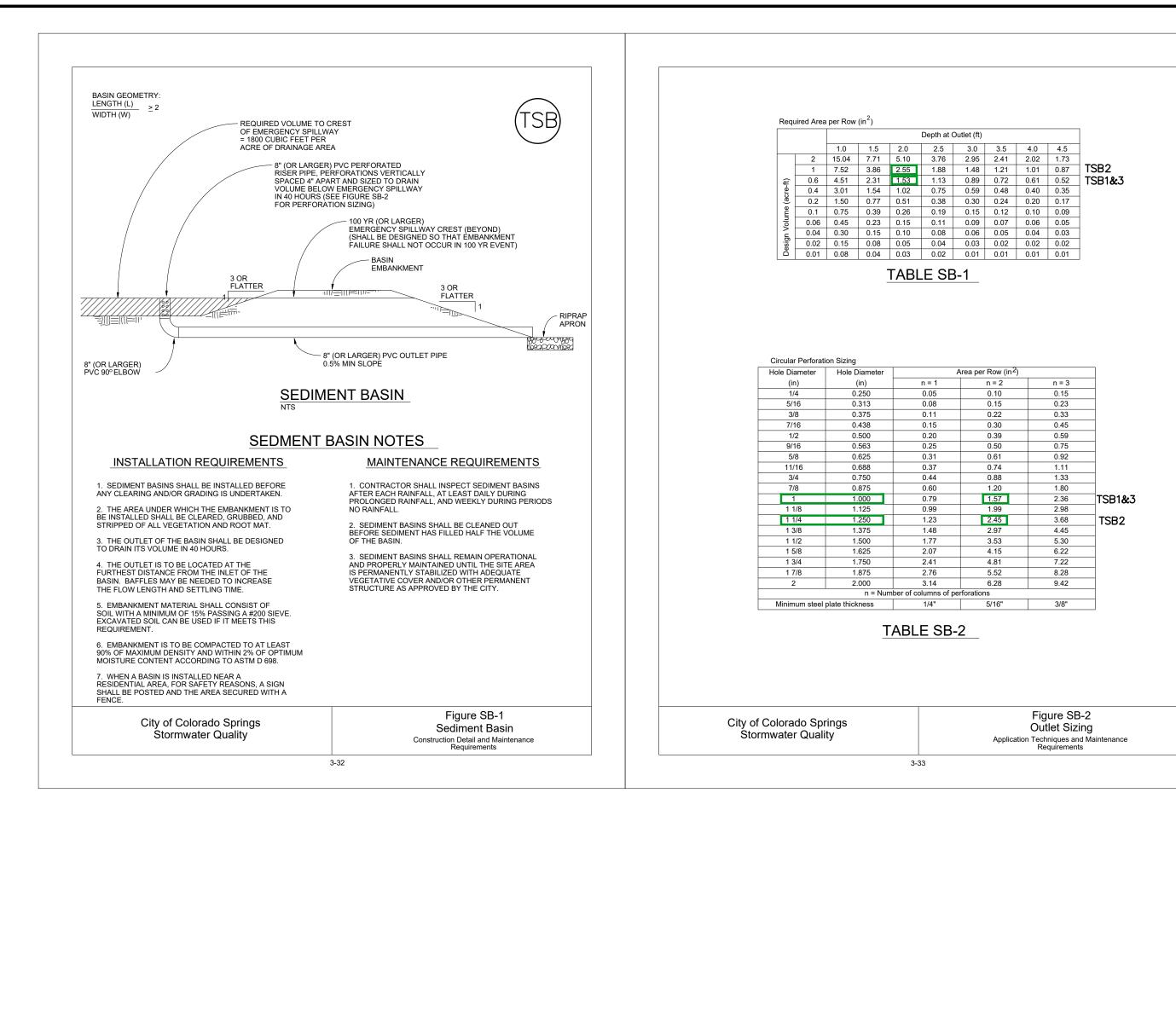
what's below.	
Call before you dig.	
2-BUSINESS DAYS IN ADVANCE YOU DIG, GRADE, OR	
ATE FOR THE MARKING OF GROUND MEMBER UTILITIES. COUNTY	FIL

PREPARED BY: \frown DREXEL, BARRELL & CO. Engineers • Surveyors 3 SOUTH 7TH STREET COLORADO SPGS, COLORADO 80903 CONTACT: TIM D. McCONNELL, P.E (719)260-0887 BOULDER • COLORADO SPRINGS • GREELEY CLIENT: THE LANDHUIS COMPANY 212 N. WAHSATCH AVE., #301 COLORADO SPRINGS, CO 80903 (719) 635–3200 CONTACT: JEFF MARK IO ONTR Ο \Box ERMERE COSION CO \mathbf{O} \circ ш **—** Ζ S OU ER N X Ō 0 ≥v ≥[₽] ΖL K 5 ISSUE DATE INITIAL ISSUE 2/21/19 LATEST ISSUE 2/7/22 DESIGNED BY: SBN DRAWN BY: SBN CHECKED BY: TDM FILE NAME: 21187-01ECDT PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO. DRAWING SCALE: HORIZONTAL: N/A VERTICAL: N/A EROSION CONTROL DETAILS PROJECT NO. 21187-01CSCV DRAWING NO. **EC06**

SHEET: 6 OF 10

_E NO.: SF2126

EPC 4/4/2022



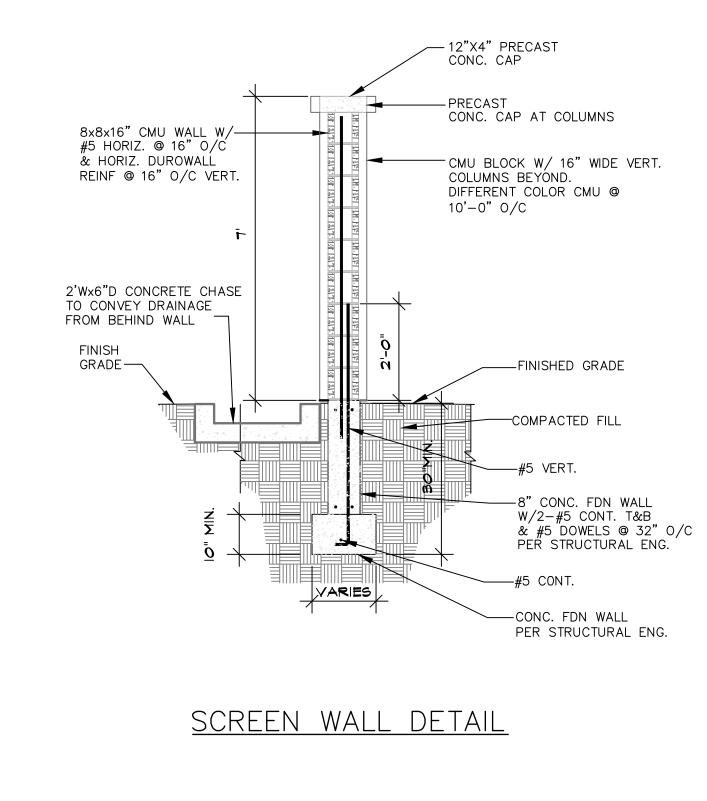
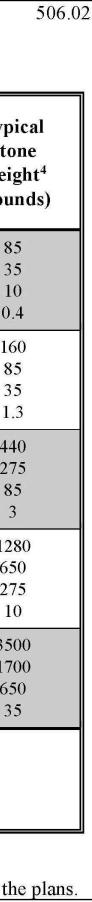


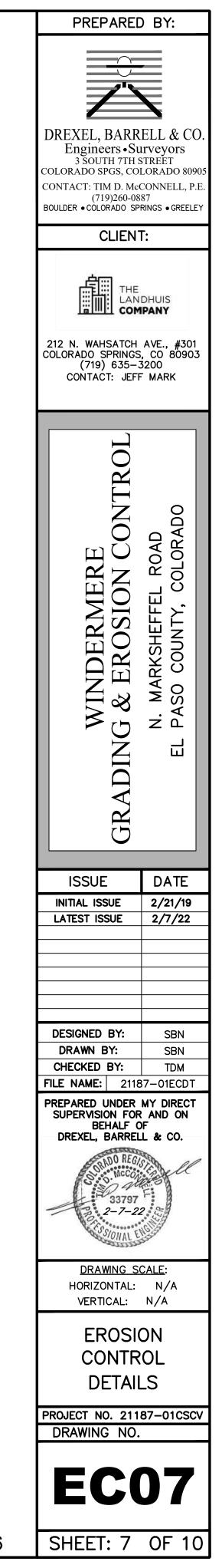
Table 506-2					
Pay	Item Stone Size d50 ¹ (Inches)	Percent of Material Smaller Than Typical Stone ²	Typical Stone Dimensions ³ (Inches)	Typ Sto Wei (Pou	
Riprap	6	70-100 50-70 35-50 2-10	12 9 6 2	8 3 1 0	
Riprap	9	70-100 50-70 35-50 2-10	15 12 9 3	1 8 3 1	
Riprap	12	70-100 50-70 35-50 2-10	21 18 12 4	4 2 8	
Riprap	18	100 50-70 35-50 2-10	30 24 18 6	12 6 2 1	
Riprap	24	100 50-70 35-50 2-10	42 33 24 9	35 17 6 3	

³equivalent spherical diameter

⁴based on a specific gravity = 2.5

Nominal stone size and total thickness of the riprap shall be as shown on the plans. CDOT SECTION 506 REQUIREMENTS APPLY







Call before you dig. CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

EPC 4/4/2022

COUNTY FILE NO .: SF2126

