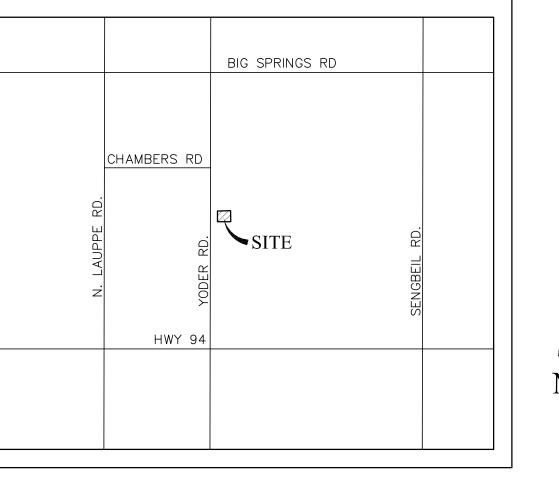
STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL	NOTES
REVISED 8/24/16 1. CONSTRUCTION MAY NOT COMMENCE UNTIL A CONSTRUCTION PERMIT IS OBTAINED FROM PLANNING AND COMMUNITY DEVELOPMENT AND A PRECONSTRUCTION CONFERENCE IS HELD WITH PLANNING AND COMMUNITY DEVELOPMENT INSPECTIONS.	
DEVELOPMENT INSPECTIONS. 2. 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 MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF SITE WATERS, INCLUDING WETLANDS. 3. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN	ADING.
3.NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.	
4.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. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED STORMWATER MANAGER, SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.	
5.ONCE THE ESQCP 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 DSD INSPECTIONS STAFF.	
6.SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 21 CALENDAR DAYS AFTER FINAL GRADING, OR FINAL EARTH DISTURBANCE, HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS SHALL ALSO BE MULCHED WITHIN 21 DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE SEEDED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMPS SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND ESTABLISHED.	XMH N
7. TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND EARTH DISTURBANCE AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES PURSUANT TO STANDARDS AND SPECIFICATION PRESCRIBED IN THE DCM VOLUME II AND THE ENGINEERING CRITERIA MANUAL (ECM) APPENDIX I.	CALHAN
8.ALL PERSONS ENGAGED IN EARTH DISTURBANCE SHALL IMPLEMENT AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BMPS IN CONFORMANCE WITH THE EROSION CONTROL TECHNICAL STANDARDS OF THE DRAINAGE CRITERIA MANUAL (DCM) VOLUME II AND IN ACCORDANCE WITH THE STORMWATER MANAGEMENT PLAN (SWMP).	
9. ALL TEMPORARY EROSION CONTROL FACILITIES INCLUDING BMPS AND ALL PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF ANY EARTH DISTURBANCE OPERATIONS, SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS, THESWMP AND THE DCM VOLUME II AND MAINTAINED THROUGHOUT THE DURATION OF THE EARTH DISTURBANCE OPERATION.	
10. ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE 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.	
11. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO LIMIT THE DISCHARGE TO A NON-EROSIVE VELOCITY.	OWNER'S STATEM
12. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.	I, THE OWNER/DEVELOPE
 13. EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1. 14. BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER 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. BMP'S MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES. 	AND EROSION CONTROL
15. VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.	MOUNTAIN VIEW ELECTRI BUSINESS NAME ADDRESS:
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.	ADDRESS: 11140 E. WOODMAN RD PEYTON, CO 80931
 17. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT. 18. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO 	EL PASO COUNTY: COUNTY PLAN REVIEW IS CRITERIA. THE COUNTY I DIMENSIONS, AND/ OR E THROUGH THE APPROVA AND/ OR ACCURACY OF
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.	FILED IN ACCORDANCE V CODE, DRAINAGE CRITER
19. NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.	JENNIFER IRVINE, P.E. COUNTY ENGINEER/ECM
20. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.	
21. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE DITCHLINE.	<u>EL PASO COUNTY</u> 1. ALL DRAINAGE A
22. INDIVIDUALS 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 INCLUDED IN THE DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.	SPECIFICATIONS OF THI MANUAL, VOLUMES 1 & 2. CONTRACTOR SHAL ALL EXISTING UTILITIES CONSTRUCTION. LOCATI
23. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.	TO CONSTRUCTION. A (UNCC).
24. PRIOR TO ACTUAL CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.25. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.	3. CONTRACTOR SHAL CONTROL PLAN, THE STO REPORT, AND THE APPR
26. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY CTL-THOMPSON AND SHALL BE CONSIDERED A PART OF THESE PLANS.	THE JOB SITE AT ALL T A. EL PASO COUNTY E B. CITY OF COLORADO
27. AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 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	C. COLORADO DEPART AND BRIDGE CONST D. CDOT M & s STANI
APPLICÀTION MATERIALS CONTACT: COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT	4. IT IS THE DESIGN BOTH ONSITE AND OFFS TO CONFLICTS, OMISSI RESPONSIBILITY TO RECT
WATER QUALITY CONTROL DIVISION WQCD - PERMITS 4300 CHERRY CREEK DRIVE SOUTH DENVER, CO 80246-1530	5. IT IS THE CONTR JURISDICTIONAL AGENCIE
ATTN: PERMITS UNIT ENGINEER'S STATEMENT:	TO EL PASO COUNTY E BUILDING FLOODPLAIN AND/OR 404 PERMITS, /
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.	6. CONTRACTOR SHAL APPROVAL FROM THE ENGINEER IMMEDIATELY U
NAME, P.E. # DATE .	7. THE LIMITS OF CON NOTED. THE OWNER/DE REQUIRED, FROM ADJOIN OR CONSTRUCTION.

MVEA YODER SUBSTATION Please refer to commonwer provided with PPR 18 EL PASO COUNTY, CO EROISON & SEDIMENT CONTROL PLA FEBRUARY 2018 SITE DATA



VICINITY MAP N.T.S.

ENT:

ER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING PLAN.

GER OF ENGINEERING DATE

IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY AL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS F THIS DOCUMENT.

WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT RIA, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

DATE

ADMINISTRATOR

AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND IE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA 2 AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.

ALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING TION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR ALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO

L KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION FORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL ROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT FIMES, INCLUDING THE FOLLOWING: ENGINEERING CRITERIA MANUAL (ECM)

O SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 & 2 TMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD STRUCTION NDARDS.

ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, SITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE HONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S CTIFY.

RACTORS RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL ES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS—ISSUED 401 AND COUNTY AND STATE FUGITIVE DUST PERMITS.

LL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN DESIGN ENGINEER AND DSD CONTRACTOR SHALL NOTIFY THE DESIGN UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.

NSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE EVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE NING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING OWNER/PETITIONER: MOUNTAIN VIEW ELECTRIC ASSOCIATION 11140 E. WOODMAN RD PEYTON, CO 80931 MR. DAVID WALDNER, (719) 495-2283

PREPARER: TERRA NOVA ENGINEERING, INC. 125 N. WAHSATCH AVE. COLORADO SPRINGS, CO 80903 (719) 635–6422 OFFICE (719) 499–2255 MOBILE

DESCRIPTION OF ACTIVITIES:

THE DEVELOPER PROPOSES TO CONSTRUCT AN ELECTRIC SUBS AND IMPROVE THE EXISTING DIRT ACCESS ROAD ALONG THE SOU BOUNDARY TO GRAVEL. THE SITE CONSISTS OF 5 ACRI UNDEVELOPED PRAIRIE AREA LOCATED WITHIN A 40 ACRE RESID PARCEL. A WATER QUALITY POND IS PROPOSED TO BE LOCATED THE SOUTH SIDE OF THE SITE AND ONE LOCATED AT THE SOUT CORNER.

THE SITE CURRENTLY CONSISTS OF NATIVE GRASSES AND TREE AN ESTIMATED COVERAGE AREA OF APPROXIMATELY 70%. THERE A EROSION CONTROL MEASURES CURRENTLY IN PLACE.

EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IN A M THAT WILL PROTECT PROPERTIES AND PUBLIC FACILITIES FRO ADVERSE EFFECTS OF EROSION AND SEDIMENTATION AS A RESI CONSTRUCTION AND EARTHWORK ACTIVITIES. IT IS ANTICIPATED CONSTRUCTION ACTIVITIES WILL OCCUR BETWEEN SUMMER OF 20 FALL 2019 AT WHICH POINT IT WILL BE CONSIDERED COMPLETED.

CONSTRUCTION PHASING IS ANTICIPATED TO OCCUR AS FOLLOWS: PHASE 1:

PRIOR TO START OF CONSTRUCTION, INITIAL EROSION COMEASURES TO BE INSTALLED INCLUDE, BUT NOT LIMITED TO WITTACKING CONTROL (VTC) PADS AT THE SITE EXIT POINT PAVEMENT, SEDIMENT CONTROL LOGS (SCL) ALONG THE PROBUNDARY ON THE SOUTH AND EAST SIDES OF THE SITE, A STAREA (SSA) WHICH WILL REMAIN IN PLACE UNTIL CONSTRUCT COMPLETED. ALSO INCLUDED IN THIS PHASE WILL BE INSTALLAT SILT FENCE (SF) AROUND THE BASE OF THE DIRT STOCKPILE UNTIL THE STOCKPILE HAS BEEN REMOVED, THE SILT FENCE REMAIN IN PLACE AND BE MAINTAINED IN SUCH A WAY AS TO I TRANSFERENCE OF SEDIMENTATION OVER THE SITE.

PHASE 2: SEDIMENT CONTROL LOGS (SCL) AND STRAW BALE BARRIERS ALONG THE NEWLY GRADED SWALES SHALL BE INSTALLED PROPOSED EDB WILL BE GRADED IN AND THE INLET PROTECTIO SHALL BE PLACED AT THE OUTLET STRUCTURE. ALL PREV INSTALLED BMP'S SHALL REMAIN IN PLACE UNTIL A LATER PHASE

PHASE 3: ANY AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR THAN 60 DAYS SHALL BE SEEDED IN ORDER TO ESTABL VEGETATIVE COVER UNTIL THE FINAL LANDSCAPING IS INSTALLED TEMPORARY SOIL EROSION CONTROL MEASURES AND BMP'S SHA MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURE IMPLEMENTED AND VEGETATION HAS BEEN ESTABLISHED TO 7 AREAS NOT COVERED BY GRAVEL. ONCE VEGETATIVE COVER HAS ESTABLISHED AT 70% OF THE DISTURBED AREAS, SILT FENCE W REMOVED FROM THE DIRT STOCKPILE AREA. THE DIRT STOCKPIL WILL BE REMOVED AND RE-VEGETATED AS PART OF THIS PHASE.

PHASE 4:

FINAL CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AT THIS THE VEHICLE TRACKING CONTROL PADS, SEDIMENT CONTROL LOG STAGING AREAS HAVE ALL BEEN REMOVED AND PERMANENT E CONTROL MEASURES HAVE BEEN ESTABLISHED.

THE TOTAL SITE SIZE WITHOUT THE RIGHT-OF-WAY RESERVATI 3.4± ACRES. THE ENTIRE SITE IS DEVELOPED AND SHAI MAINTAINED TO REDUCE SEDIMENTATION FROM MIGRATING TO OF OR DOWNSTREAM CREEK BEDS.

THE SOILS ON THIS SITE ARE NOTED AS TYPE 97, TRUCKTON LOAM W/3-9 PERCENT SLOPES. A SOILS MAP HAS BEEN INCLU THE FINAL DRAINAGE REPORT. EXISTING SITE VEGETATION CONSISNATIVE GRASSES AND TREES. THERE ARE NO WETLANDS ON THIS

THERE ARE NO POTENTIAL POLLUTANTS EXISTING OR PROPOSE STORAGE ON THIS SITE.

THE RECEIVING WATERS FOR THIS AREA IS SAND CREEK. PE FINAL DRAINAGE REPORT, THE MAJORITY OF THE SITE (APPROXIN 70%) FLOWS TO THE EAST TOWARD CANADA DRIVE. THE REM PORTION OF THE SITE FLOWS TO THE SOUTH AND SOUTHWEST T A DEPRESSION AT THE SOUTHERNMOST LOT BOUNDARY.

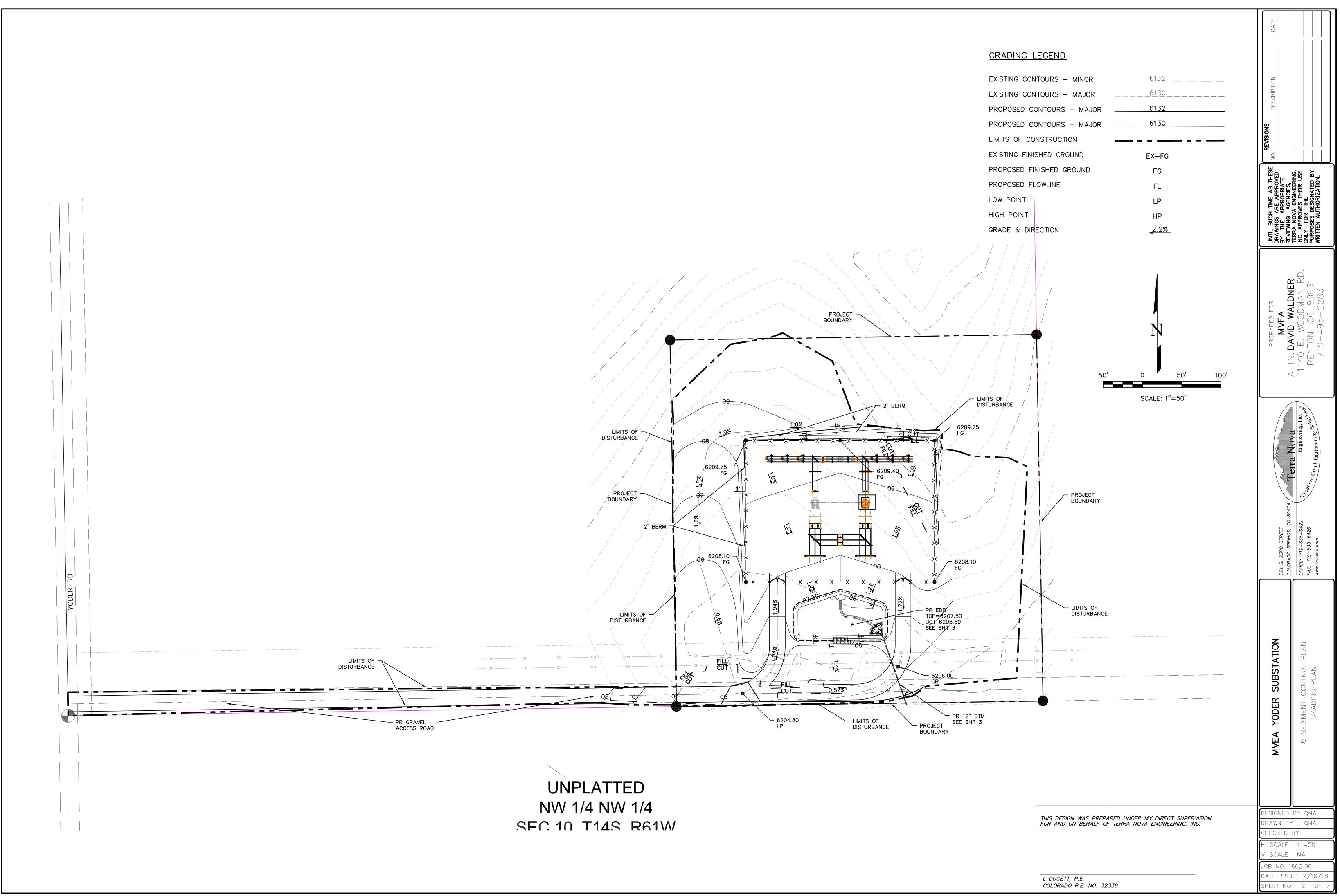
THE PROPERTY OWNER OR OWNERS REPRESENTATIVE IS RESPO FOR INSPECTING AND MAINTAINING THE SITE ON A REGULAR INITIAL CRITERIA FOR THE OCCURRENCE OF INSPECTIONS IS AS FO 1. ONCE EVERY 14 DAYS OR

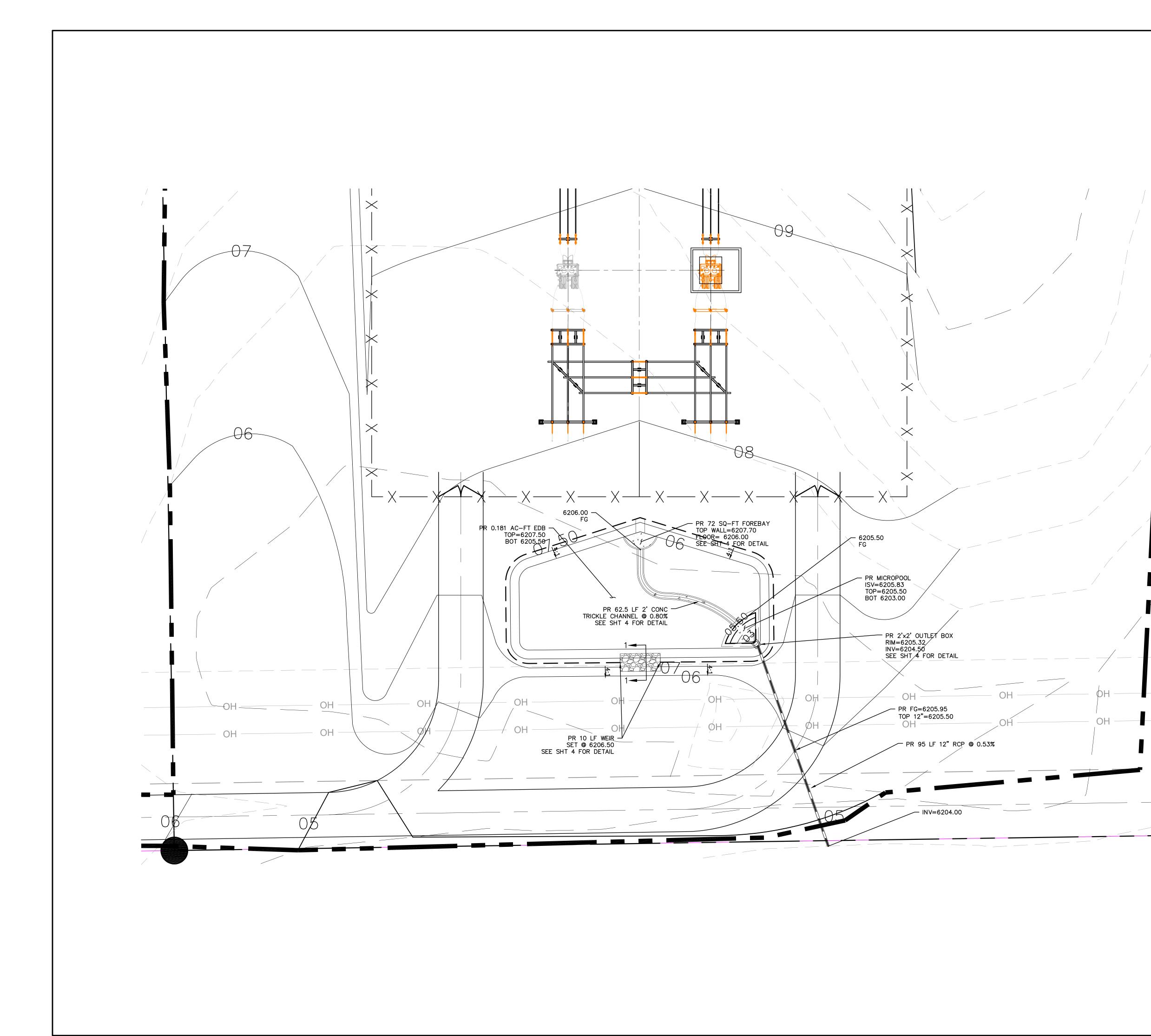
2. AFTER ANY PRECIPITATION OR SNOWMELT EVENT THAT SIGN ENOUGH TO CAUSE SURFACE EROSION.

A WRITTEN RECORD OF INSPECTIONS SHALL BE KEPT BY THE OW OWNERS REPRESENTATIVE AND MADE AVAILABLE TO THE COUNT REQUEST. THIS WILL CONTINUE UNTIL THE SITE IS STABILIZED AN STOCKPILE IS NO LONGER NEEDED.

A COST ESTIMATE FOR THE BMP'S ON THIS SITE IS INCLUDED (PLAN.

nents 827	48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 1-800-922-1987 CITY OF COLORADO SPRINGS DEPT. OF UTILITIES GAS, ELECTRIC, WATER AND WASTEWATER	DATE
N	LEGAL DESCRIPTION	NOIL
	TRACT M: A PORTION OF THE SOUTHWEST QUARTER OF SECTION 3, TOWNSHIP 14 SOUTH, RANGE 61 WEST OF THE 6TH PRINCIPAL MERIDIAN, SITUATED IN EL PASO COUNTY, STATE OF COLORADO, DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHWEST CORNER OF SAID SECTION 3; THENCE N89'07'57"E COINCIDENT WITH THE SOUTH LINE OF SAID SECTION 3, A DISTANCE OF 774.30 FEET TO THE POINT OF BEGINNING; THENCE N01'00'29"W, A DISTANCE OF 466.68 FEET; THENCE N89'07'57"E, A DISTANCE OF 466.70 FEET; THENCE S01'00'29"E, A DISTANCE OF 466.68 FEET TO THE SOUTH LINE OF SAID SECTION 3; THENCE S89'07'57"W COINCIDENT WITH SAID SOUTH LINE OF SECTION 3, A DISTANCE OF 466.70 FEET TO THE POINT OF BEGINNING, CONTAINING A CALCULATED AREA OF 5.000 ACRES MORE OR LESS.	REVISIONS NO. DESCRIPTION
	AREA	THESE OVED USE ON.
	TOTAL AREA TO BE CLEARED, EXCAVATED, GRADED OR DISTURBED IS 4.31 ACRES. VOLUME TOTAL SOIL TO BE MOVED W/ 20% COMPACTION, CUT=201 CY, FILL=8,118, NET=7,918 (F)	UCH TIME AS SS ARE APPRO SS ARE APPRO APROPRIA VOVA ENGINEES VOVA ENGINEE PROVES THEIR FOR THE ES DESIGNATE ES DESIGNATE ES DESIGNATE
STATION UTHERN	EROSION CONTROL COST OPINION:	JNTIL S DRAWING SY THE RERRA I NC. API NC. API NLY F ONLY F NLY F NRITTEN
ES OF DENTIAL ALONG	1. VEHICLE TRACKING CONTROL 1 EA. @ \$1625/PAD \$ 1625.00 2. TEMPORARY SEEDING 3 AC @ \$485/AC \$ 1,275.55	
THWEST S WITH ARE NO MANNER DM THE ULT OF D THAT 18 AND	 3. EROSION CONTROL LOGS 961 LF @ \$6.00/LF \$ 11,400.00 4. CONCRETE WASHOUT 1 EA @ \$776.00/EA \$ 776.00 5. STRAW BALE CHECK DAMS 2 EA @ \$24.00/LF \$ 48.00 6. INLET PROTECTION 1 EA @ \$153.00/LF \$ 153.00 8. SILT FENCE 300 LF @ \$3.50/LF \$ 1,050.00 9. 40% MAINTENANCE AND REPLACEMENT \$ 6,475.82 TOTAL \$ 22,665.37 	prepared for: MVEA DAVID WALDNER E. WOODMAN RD TON, CO 80931 19-495-2283
	COVER SHEET 1 OF 7 SITE GRADING PLAN 2 OF 7	А Ч
ONTROL VEHICLE ONTO OPERTY STAGING TION IS	SITE GRADING FEAN2 OF 7EXTENDED DETENTION BASIN PLAN3 OF 7EXTENDED DETENTION BASIN DETAILS4 OF 7EROSION CONTROL PLAN5 OF 7EROSION CONTROL DETAILS6 OF 7EROSION CONTROL DETAILS7 OF 7	
TION OF AREA. SHALL	<u>STATEMENTS</u>	ing, Inc.
(SBB) D. THE ON (IP) /IOUSLY E. R MORE LISH A	DESIGN ENGINEER'S STATEMENT: THESE 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.	80904 Terra Nova Engineering, Inc. Ceat ive Civil Engineering Solutio
). ALL ALL BE ES ARE	L DUCETT, P.E. #32339 DATE FOR AND ON BEHALF OF TERRA NOVA ENGINEERING, INC.	CO
70% ON S BEEN MLL BE _E (SP)	OWNER/DEVELOPERS STATEMENT: I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.	721 S. 23RD STREET COLORADO SPRINGS, OFFICE: 719–635–6426 FAX: 719–635–6426 www.tnesinc.com
POINT. GS AND EROSION		
TION IS ALL BE FF-SITE	DAVID WALDNER DATE MOUNTAIN VIEW ELECTRIC ASSOCIATION 11140 E. WOODMEN RD PEYTON, CO 80831	Z DLAN
SANDY	EL PASO COUNTY: COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE	ADO OL PL
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ED FOR	AND/OR ACCURACY OF THIS DOCUMENT. FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND	SUE SUE
ER THE MATELY	DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.	YODER SU
MAINING TOWARD	JENNIFER IRVINE, P.E. DATE COUNTY ENGINEER/ECM ADMINISTRATOR	EA YC Paso g and
DNSIBLE BASIS.		MVE Brading
OLLOWS: IFICANT	<u>GENERAL NOTES</u>	
NER OR Y UPON	GENERAL NOTES 1. THE LOCATIONS OF EXISTING UTILITIES HAVE BEEN SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR IS	
ND THE	RESPONSIBLE FOR FIELD LOCATION AND VERIFICATION OF EXISTING UTILITIES PRIOR TO BEGINNING WORK. IF IT APPEARS THAT THERE COULD BE A CONFLICT WITH ANY UTILITIES, WHETHER INDICATED ON THE	DESIGNED BY QNA
ON THIS	PLANS OR NOT, THE CONTRACTOR IS TO NOTIFY THE ENGINEER AND OWNER IMMEDIATELY. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND REPAIR (IF NECESSARY) OF ALL UTILITIES.	drawn by qna Checked by
	2. THE PREPARED EROSION/SEDIMENT CONTROL PLAN IS TO BE CONSIDERED A PART OF THESE PLANS AND ITS REQUIREMENTS ADHERED	H–SCALE NA V–SCALE NA
	TO DURING THE CONSTRUCTION OF THIS PROJECT.	JOB NO. 1802.00 DATE ISSUED 2/16/18
	<u>PROJ NO: PPR 16-029</u>	SHEET NO. 1 OF 7



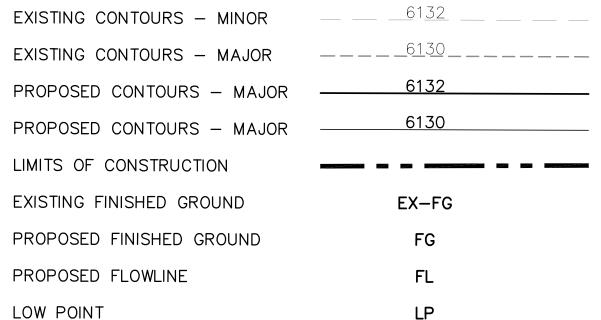




LOW POINT

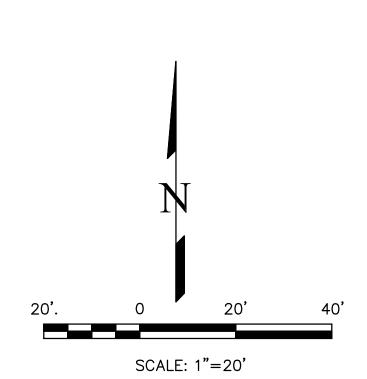
HIGH POINT

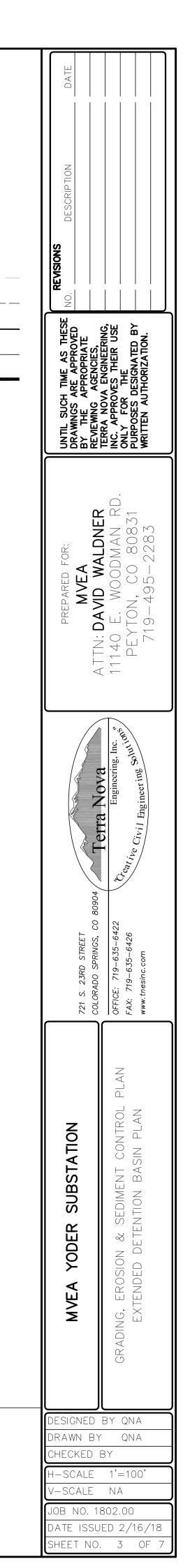
GRADE & DIRECTION



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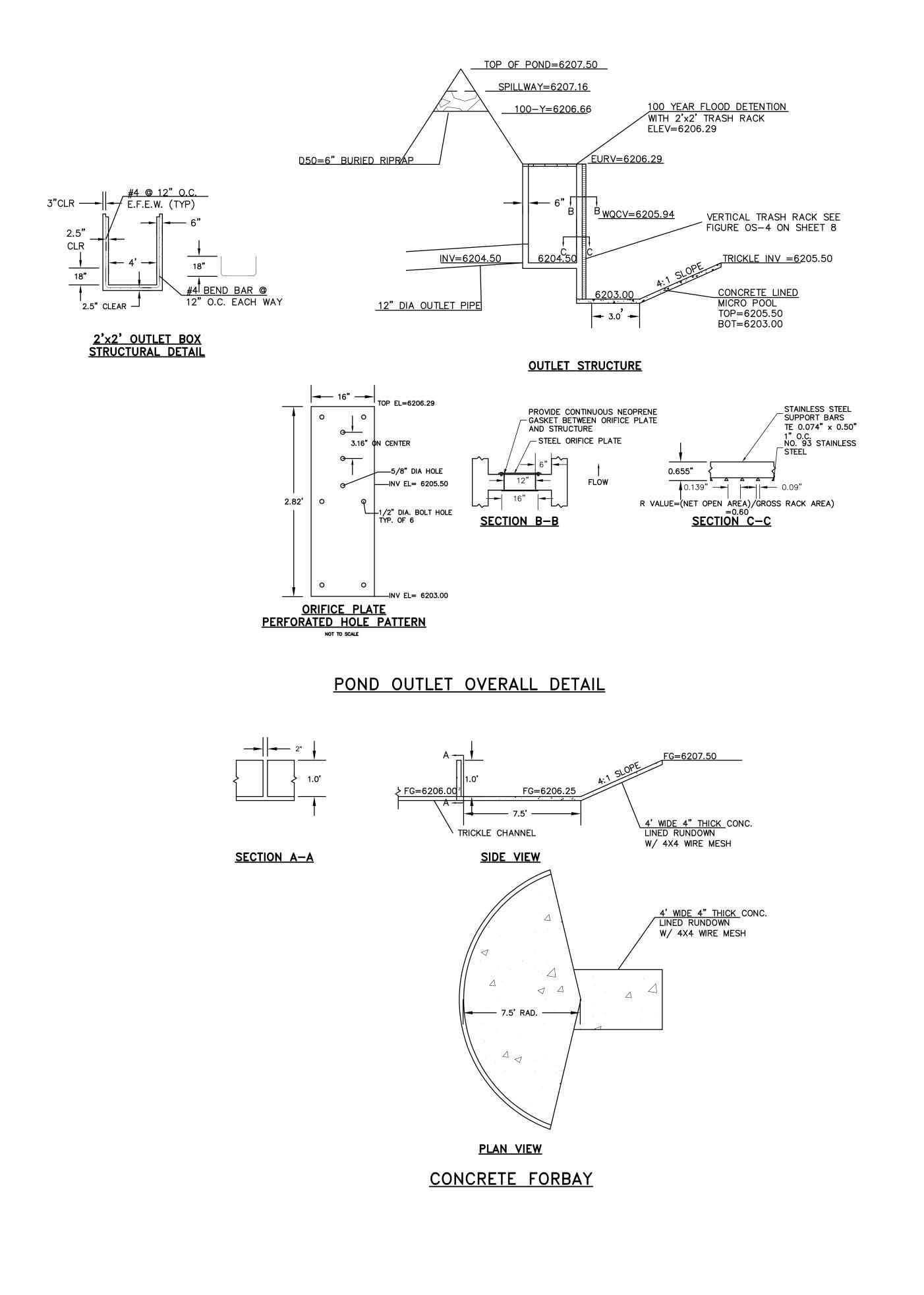
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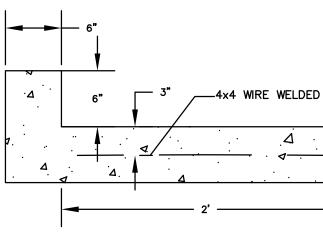




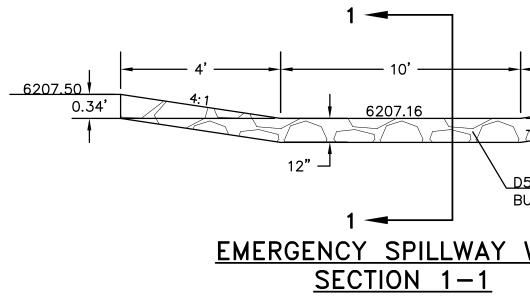
L DUCETT,	<i>P.E</i> .		
COLORADO	<i>P.E</i> .	NO.	32339

THIS DESIGN WAS PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF TERRA NOVA ENGINEERING, INC.







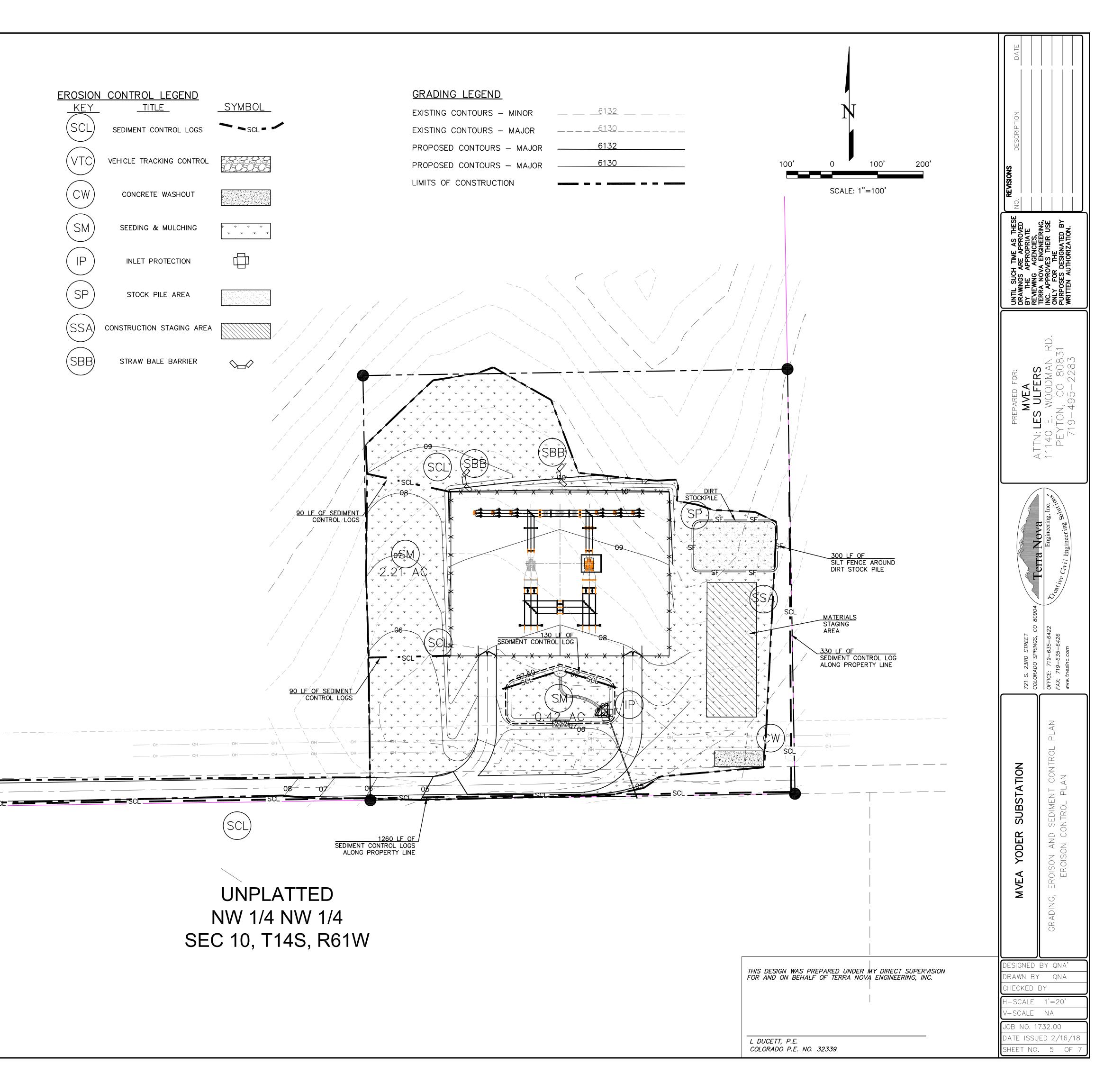


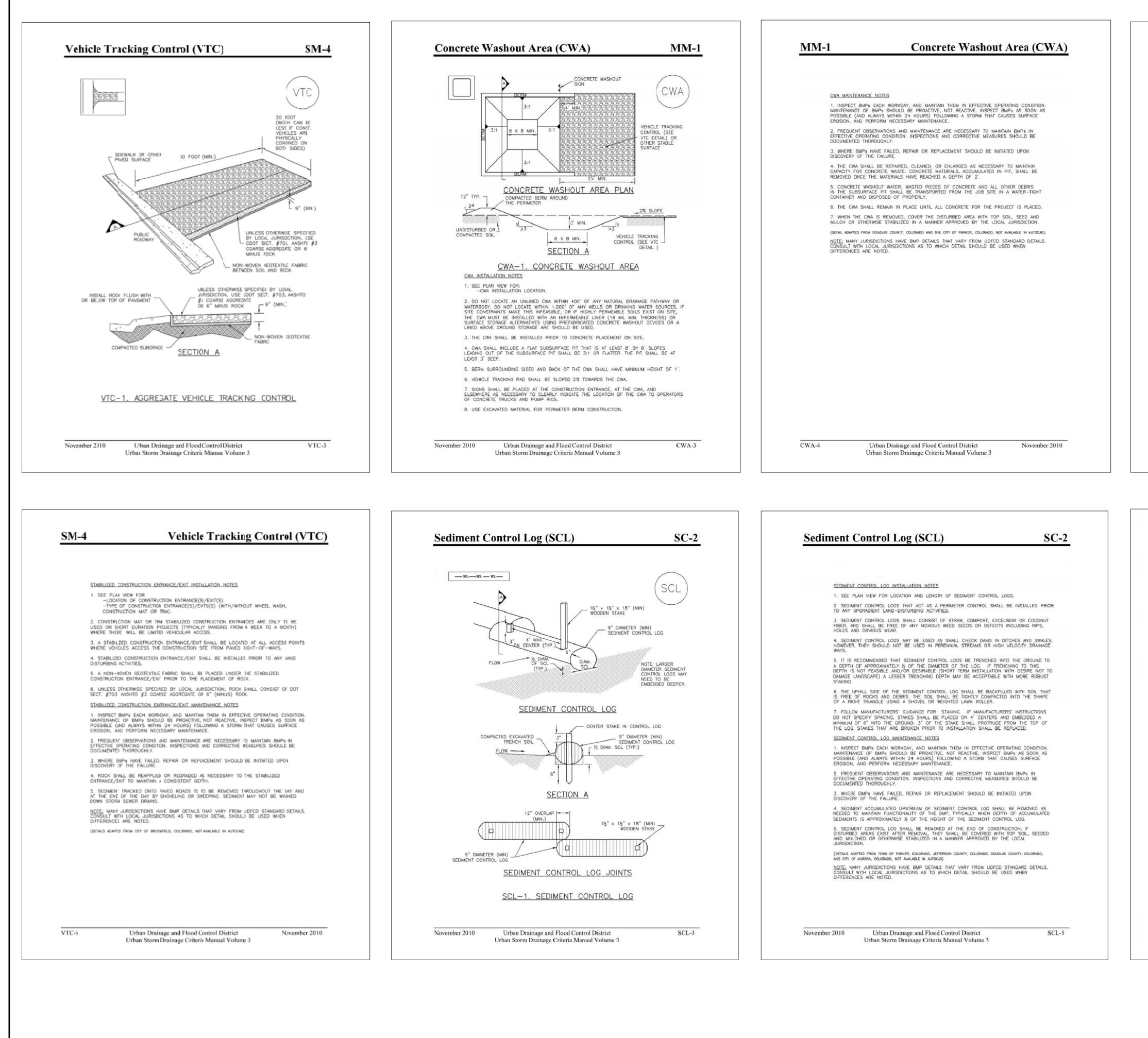
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<u>CKLE CHANNEL</u>		NVEA NVEA A TTNI- I FC 111 FFPC	719-495-2	
$\frac{4}{4} - \frac{4}{100 - Y}$ $\frac{4}{0.38} - \frac{100 - Y}{0.38}$ $\frac{50 = 6"}{GROUTED} RIPRAP$ $BURY DEPTH = 12"$	<u>VSE 6206.66</u>	721 S. 23RD STREET COLORADO SPRINGS, CO 80904	Trund Civil Eng	
		MVEA YODER SUBSTATION	GRADING, EROISON AND SEDIMENT CONTROL PLAN EDB DETAILS	
	THIS DESIGN WAS PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF TERRA NOVA ENGINEERING, INC.		QNA BY NA NA 802.00 ED 2/5/18	
	COLORADO P.E. NO. 32339	STELL NO	. 4 OF 7	



THE CITY OF COLORADO SPRINGS ENGINEERING DEPARTMENT GENERAL SPECIFICATIONS SHOULD BE USED AS A RESOURCE WHEN DEVELOPING TECHNICAL SPECIFICATIONS FOR RE-VEGETATION. GENERAL GUIDELINES AND RECOMMENDATIONS FOR RE-VEGETATION INCLUDE:

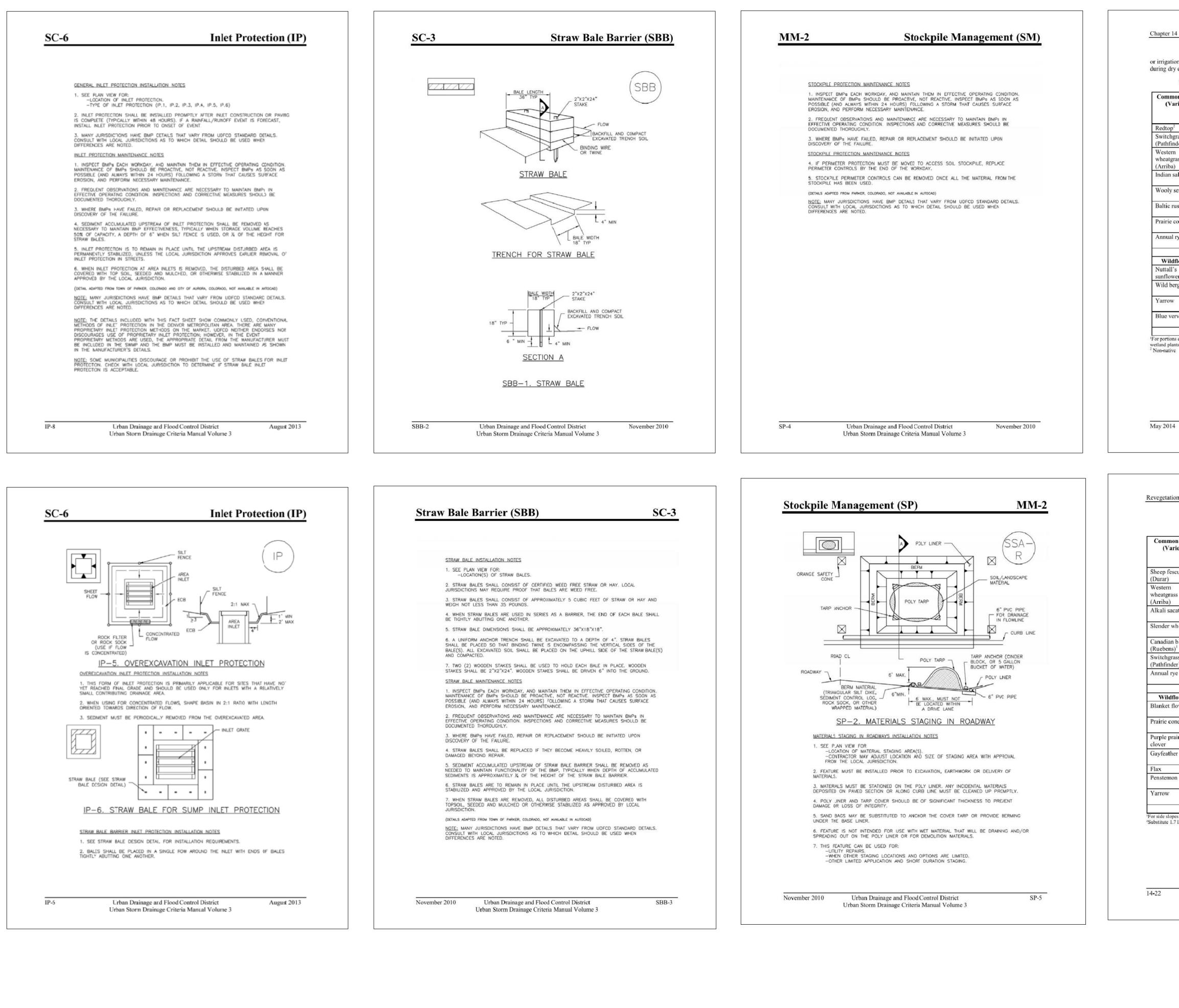
- 1. SEED MIXTURES SHOULD BE SOWN AT THE PROPER TIME OF YEAR FOR THE MIXTURE. GENERALLY, THERE ARE TWO OPTIMAL SEEDING PERIODS DURING THE YEAR. THE FIRST PERIOD IS IN THE SPRING, MARCH TO MAY. THE SECOND PERIOD IS IN LATE SUMMER TO EARLY FALL, AUGUST TO SEPTEMBER.
- 2. SEED SHOULD BE DRILL-SEEDED, WHENEVER POSSIBLE.
- 3. BROADCAST SEEDING OR HYDRO-SEEDING MAY BE SUBSTITUTED ON SLOPES STEEPER THAN 3:1 OR ON OTHER AREAS NOT PRACTICAL TO DRILL SEED.
- 4. SEEDING RATES SHOULD BE DOUBLED FOR BROADCAST SEEDING OR INCREASED BY 50% IF USING A BRILLION DRILL OR HYDRO-SEEDING.
- 5. BROADCAST SEED SHOULD BE LIGHTLY HAND-RAKED INTO THE SOIL.
- 6. SEED DEPTH SHOULD BE $\frac{1}{3}$ TO $\frac{1}{2}$ INCH FOR MOST MIXTURES.
- 7. SEEDED AREAS SHOULD BE MULCHED, AND THE MULCH SHOULD BE ADEQUATELY SECURED.
- IF HYDRO-SEEDING IS CONDUCTED, MULCHING SHOULD BE CONDUCTED AS A SEPARATE, SECOND OPERATION.
- 9. CONTAINERIZED NURSERY STOCK SHOULD BE KEPT IN A LIVE AND HEALTHY CONDITION PRIOR TO INSTALLATION.
- 10. CONTAINERIZED TREES AND SHRUBS SHOULD BE INSTALLED ACCORDING TO THE PLANTING DETAILS PROVIDE IN THE COLORADO SPRINGS LANDSCAPE CODE AND POLICY MANUAL, UNIT FOUR, APPENDICES FOR TREE AND SHRUB PLANTING DETAILS.
- 11. LIVE STAKES, POLES AND WILLOW BUNDLES SHOULD BE INSTALLED WHEN DORMANT (LATE WINTER AND EARLY SPRING).
- 12. IF BEAVER ARE KNOWN TO BE IN THE AREA, BEAVER PROTECTION SHOULD BE PROVIDED FOR TREES AND SHRUBS.







		DATE
Stabilized Staging Area (S	SA) SM-6	NOL
STABILIZED CONSTRUCTION ENTRANCE (SEE DETAILS VTC-1 TO VTC-3) EXISTING ROADWAY SSA-1. STABILIZ STABILIZED STAGING AREA INSTALLATION NO 1. SEE PLAN VIEW FOR -LOCATION OF STAGING AREA(S).	CONSTRUCTION TRAILERS ATERIAL ATERIAL ATERIAL STORAGE AREA SF/CF SF/CF SF/CF SF/CF SF/CF SF/CF STAGING AREA	SUCH TIME AS THESE SUCH TIME AS THESE NGS ARE APPROVED HE APPROPRIATE MING AGENCIES, NOVA ENGINEERING, NOVA ENGINEERING, NOVA ENGINEERING, PPROVES THEIR USE FOR THE SESIGNATED BY EN AUTHORIZATION.
FROM THE LOCAL JURISDICTION.	APPROPRIATE FOR THE NEEDS OF THE SITE.	UNTIL DRAWI BY T INC. A NULY WRITTE
MATERIAL. 5. UNLESS OTHERWISE SPECIFIED BY LOCA SECT. #703, AASHTO #3 COARSE AGGREGA 6. ADDITIONAL PERIMETER BMPs MAY BE F FENCE AND CONSTRUCTION FENCING. <u>STABILIZED STAGING AREA MAINTENANCE NO</u> 1. INSPECT BMPs EACH WORKDAY, AND MAINTENANCE OF BMPs SHOULD BE PROAC POSSIBLE (AND ALWAYS WITHIN 24 HOURS EROSION, AND PERFORM NECESSARY MAIN 2. FREQUENT OBSERVATIONS AND MAINTEN EFFECTIVE OPERATING CONDITION. INSPECTI DOCUMENTED THOROUGHLY. 3. WHERE BMPs HAVE FAILED, REPAIR OR DISCOVERY OF THE FAILURE.	EXEMPTION STATES OF A MINIMUM 3" THICK GRANULAR AL JURISDICTION, ROCK SHALL CONSIST OF DOT THE OR 6" (MINUS) ROCK. REQUIRED INCLUDING BUT NOT LIMITED TO SILT DIES AINTAIN THEM IN EFFECTIVE OPERATING CONDITION. CITVE, NOT REACTIVE. INSPECT BMPs AS SOON AS) FOLLOWING A STORM THAT CAUSES SURFACE TENANCE. ANCE ARE NECESSARY TO MAINTAIN BMPs IN IONS AND CORRECTIVE MEASURES SHOULD BE REPLACEMENT SHOULD BE INITIATED UPON DED AS NECESSARY IF RUTTING OCCURS OR D. DOD CONTROL DISTRICT SSA-3	PREPARED FOR: MVEA ATTN: DDAVID WALDNER 11140 E. WOODMAN RD. PEYTON, CO 80831 719-495-2283
		ing, Inc.
STABILIZED STAGING AREA MAINTENANCE NOT 5. STABILIZED STAGING AREA SHALL BE ENL STORAGE, AND UNLOADING/LOADING OPERATI 6. THE STABILIZED STAGING AREA SHALL BE GRANULAR MATERIAL SHALL BE REMOVED OF USED ON SITE, AND THE AREA COVERED WI OTHERWISE STABILIZED IN A MANNER APPRO <u>NOTE:</u> MANY MUNICIPALITIES PROHIBIT THE U MATERIAL FOR STABILIZED STAGING AREAS DI VEGETATION IN AREAS WHERE RECYCLED COU	ARGED IF NECESSARY TO CONTAIN PARKING, ONS. REMOVED AT THE END OF CONSTRUCTION. THE R, IF APPROVED BY THE LOCAL JURISDICTION, TH TOPSOIL, SEEDED AND MULCHED OR VED BY LOCAL JURISDICTION. ISE OF RECYCLED CONCRETE AS GRANULAR UE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF NCRETE WAS PLACED. ILS THAT VARY FROM UDFCD STANDARD DETAILS. WHICH DETAIL SHOULD BE USED WHEN	721 S. 23RD STREET COLORADO SPRINGS, CO 80904 COLORADO SPRINGS, CO 80904 Terra Nova OFFICE: 719–635–6422 FAX: 719–635–6426 FAX: 719–635–6426 FAX: 719–635–6426 Www.tnesinc.com
SA-4 Urban Drainage and Floo Urban Storm Drainage Cri		RVEA YODER SUBSTATION GRADING, EROSION & SEDIMENT COTNROL PLAN EROSION CONTROL DETAILS
	THIS DESIGN WAS PREPARED_UNDER MY_DIRECT_SUPERVISION	DESIGNED BY QNA'
	FOR AND ON BEHALF OF TERRA NOVA ENGINEERING, INC.	DRAWN BY QNA Checked by
		H-SCALE NA V-SCALE NA
	L DUCETT, P.E.	JOB NO. 1802.00 DATE ISSUED 2/16/18
	COLORADO P.E. NO. 32339	SHEET NO. 6 OF 7



Chapter 14

Revegetation

or irrigation to wet and settle the seed bed. Firming cf the seedbed following seeding will improve results during dry or warm seeding times.

Table 14-9. Recommended Seed Mix for High Water Table Conditions¹ Common Name Scientific Growth Growth Seeds/Lb Lbs Lbs Name PLS/ (Variety) Season Form PLS/Acre Acre Broadcast or Drilled Hydroseeded rostis alba Warm Sod 5,000,000 0.1 0.2 Redtop² Switchgrass Warm Sod/ 389,000 2.2 4.4 Panicum (Pathfinder) Bunch gatum 7.9 Western Pascopyrum Cool Sod 110,000 15.8 mithii wheatgrass (Arriba) Indian saltgrass Distichlis Warm Sod 520,000 1.0 2.0 Wooly sedge Sod 400,000 0.2 arex Cool 0.1 Baltic rush Sod 109,300,000 0.1 0.2 Cool uncus Prairie cordgrass Cool Sod 110,000 1.0 2.0 partina 227,000 10.0 20.0 Annual rye Cool Cover olium nultiflorum crop TOTAL 22.4 44.8 Wildflowers Nuttall's lelianthus 250,000 0.10 0.20 ------unflower ttallii Wild bergamot Ionarda 1,450,000 0.12 0.24 _ Achillea 2,770,000 0.06 0.12 Yarrow ----_ illefolium Blue vervain 0.12 0.24 erbena ----_ TOTAL <u>0.40</u> <u>0.80</u>

'For portions of facilities located near or on the bottom or where wet soil conditions occur. Planting of potted nursery stock wetland plants 2-foot on-center is recommended for sites with wetland hydrology.

May 2014

City of Colorado Springs Drainage Criteria Manual, Volume 1 14-21

Chapter 14

Revegetation

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

For side slopes or between wet and dry areas. ²Substitute 1.7 lbs PLS/acre of inland saltgrass (Distichlis spicata) in salty soils.

14-22 City of Colorado Springs Drainage Criteria Manual, Volume 1 May 2014

THIS DESIGN WAS PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF TERRA NOVA ENGINEERING, INC.

L DUCETT, P.E. COLORADO P.E. NO. 32339

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721 S. 23RD STREET COLORADO SPRINGS, CO 80904	OFFICE: 719-635-6422 7. FAX: 719-635-6426 2. www.tnesinc.com citive
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