MVEA YODER SUBSTATION

EL PASO COUNTY, CO

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.

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

REVISED 8/24/16

DEVELOPMENT INSPECTIONS.

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

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.

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.

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.

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.

2. 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.

13. EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1.

4. 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.

5. VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF—SITE SHALL BE MINIMIZED. $\,$ MATERIALS TRACKED $\,$ OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.

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

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 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.

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 20. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE

9. NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN

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.

1. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND

GUTTER OR IN THE DITCHLINE. 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. 23. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.

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.

26. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY CTL—THOMPSON AND SHALL BE CONSIDERED A PART OF THESE PLANS.

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 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

ENGINEER'S STATEMENT

ATTN: PERMITS UNIT

THIS GRADING AI duplicate CORRECT TO THE EPARED UNDER MY DIRECTION AND SUPERVISION AND IS EF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE ND EROSION CONTROL PLANS, I ACCEPT RESPONSIBILITY FOR CRITERIA ESTABLIS ANY LIABILITY CAL OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

NAME, P.E. #

this means the access

2. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE OR THRE

FEBRUARY 2018

change DSD to PCD, typical all locations.



VICINITY MAP

duplicate statments

OWNER'S STATEMENT:

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

DAVID WALDNER, MANAGER OF ENGINEERING

MOUNTAIN VIEW ELECTRIC ASSOCIATION BUSINESS NAME

ADDRESS:

11140 E. WOODMAN RD PEYTON, CO 80931

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, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

NNIFER IRVINE, P.E.

COUNTY ENGINEER/ECM ADMINISTRATOR

EL PASO COUNTY STANDARD NOTES

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 & 2 AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).

3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP). THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT

THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING: A. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)

B. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 & 2

C. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD

AND BRIDGE CONSTRUCTION D. CDOT M & s STANDARDS.

4. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.

5. IT IS THE CONTRACTORS RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.

6. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND DSD CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY URON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.

7. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED. FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE. GRADING OR CONSTRUCTION. and the same of th and FDR.

aware and in agreement with the work on his

comments provided, the reviewer reserves the

right to make additional comments on the GEC

Due to the volume and complexity of the

property

OWNER / PETITIONER: MOUNTAIN VIEW ELECTRIC ASSOCIATION 11140 E. WOODMAN RD PEYTON, CO 80931 MR. DAVID WALDNER, (719) 495-2283

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 SUBSTATION AND IMPROVE THE EXISTING DIRT ACCESS ROAD ALONG THE SOUTHERN BOUNDARY TO GRAVEL. THE SITE CONSISTS OF 5 ACRES OF UNDEVELOPED PRAIRIE AREA LOCATED WITHIN A 40 ACRE RESIDENTIAL PARCEL. A WATER QUALITY POND IS PROPOSED TO BE LOCATED ALONG THE SOUTH SIDE OF THE SITE AND ONE LOCATED AT THE SOUTHWEST

THE SITE CURRENTLY CONSISTS OF NATIVE GRASSES AND TREES WITH AN ESTIMATED COVERAGE AREA OF APPROXIMATELY 70%. THERE ARE NO EROSION CONTROL MEASURES CURRENTLY IN PLACE.

EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IN A MANNER THAT WILL PROTECT PROPERTIES AND PUBLIC FACILITIES FROM THE ADVERSE EFFECTS OF EROSION AND SEDIMENTATION AS A RESULT OF CONSTRUCTION AND EARTHWORK ACTIVITIES. IT IS ANTICIPATED THAT CONSTRUCTION ACTIVITIES WILL OCCUR BETWEEN SUMMER OF 2018 AND 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 CONTROL MEASURES TO BE INSTALLED INCLUDE, BUT NOT LIMITED TO VEHICLE TRACKING CONTROL (VTC) PADS AT THE SITE EXIT POINT ONTO PAVEMENT, SEDIMENT CONTROL LOGS (SCL) ALONG THE PROPERTY BOUNDARY ON THE SOUTH AND EAST SIDES OF THE SITE, A STAGING AREA (SSA) WHICH WILL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED. ALSO INCLUDED IN THIS PHASE WILL BE INSTALLATION OF SILT FENCE (SF) AROUND THE BASE OF THE DIRT STOCKPILE AREA. UNTIL THE STOCKPILE HAS BEEN REMOVED, THE SILT FENCE SHALL REMAIN IN PLACE AND BE MAINTAINED IN SUCH A WAY AS TO REDUCE TRANSFERENCE OF SEDIMENTATION OVER THE SITE.

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

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

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

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

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

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

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

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

2. AFTER ANY PRECIPITATION OR SNOWMELT EVENT THAT SIGNIFICANT ENOUGH TO CAUSE SURFACE EROSION. A WRITTEN RECORD OF INSPECTIONS SHALL BE KEPT BY THE OWNER OR OWNERS REPRESENTATIVE AND MADE AVAILABLE TO THE COUNTY UPON REQUEST. THIS WILL CONTINUE UNTIL THE SITE IS STABILIZED AND THE STOCKPILE IS NO LONGER NEEDED.

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

if you leave this it must be consistent with the

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 1-800-922-1987 CITY OF COLORADO SPRINGS DEPT. OF UTILITIES GAS, ELECTRIC, WATER AND WASTEWATER

SOUTHWEST QUARTER OF SECTION 3, TOWNSHIP 14 HE 6TH PRINCIPAL MERIDIAN, SITUATED IN EL PASO , 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

TOTAL AREA TO BE CLEARED, EXCAVATED, GRADED OR DISTURBED IS 4.31 ACRES.

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.

SOUTH LINE OF SAID SECTION 3; THENCE S89°07'57"W COINCIDENT WITH SAID SOUTH

VOLUME

TOTAL SOIL TO BE MOVED W/ 20% COMPACTION, CUT=201 CY, FILL=8,118, NET=7,918 (F

EROSION CONTROL COST OPINION:

1. VEI	HICLE TRACKING CONTROL 1 EA. @ \$1625/PAD	\$ 1625.00
2. TE	MPORARY Remove or make consistent with	\$ 1,275.55
3. ER	ROSION CCthe FAF this is not required on	\$ 11,400.00
4. CC	this plan.	\$ 776.00
5. ST	TRAW BALI	\$ 48.00
6. IN	LET PROTLOHOW I LA & WIOO.OO/LI	\$ 153.00
8. SI	LT FENCE 300 LF @ \$3.50/LF	\$ 1,050.00
9. 40	0% MAINTENANCE AND REPLACEMENT	\$ 6,475.82
	TOTAL	\$ 22,665.37

<u>SHEET INDEX</u>

COVER SHEET	1	OF
SITE GRADING PLAN	2	OF
EXTENDED DETENTION BASIN PLAN	3	OF
EXTENDED DETENTION BASIN DETAILS	4	OF
EROSION CONTROL PLAN	5	OF
EROSION CONTROL DETAILS	6	OF
EROSION CONTROL DETAILS	7	OF

STATEMENTS

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. ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

L DUCETT, P.E. #32339 FOR AND ON BEHALF OF TERRA NOVA ENGINEERING, INC.

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.

DAVID WALDNER MOUNTAIN VIEW ELECTRIC ASSOCIATION 11140 E. WOODMEN RD

PEYTON, CO 80831

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/ECM ADMINISTRATOR

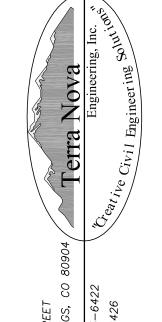
GENERAL NOTES

1. THE LOCATIONS OF EXISTING UTILITIES HAVE BEEN SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR IS 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 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.

2. THE PREPARED EROSION/SEDIMENT CONTROL PLAN IS TO BE CONSIDERED A PART OF THESE PLANS AND ITS REQUIREMENTS ADHERED TO DURING THE CONSTRUCTION OF THIS PROJECT.

PROJ NO: PPR 16-029

UNTIL SUC DRAWINGS BY THE REVIEWING TERRA NG INC. APPE ONLY FO PURPOSES



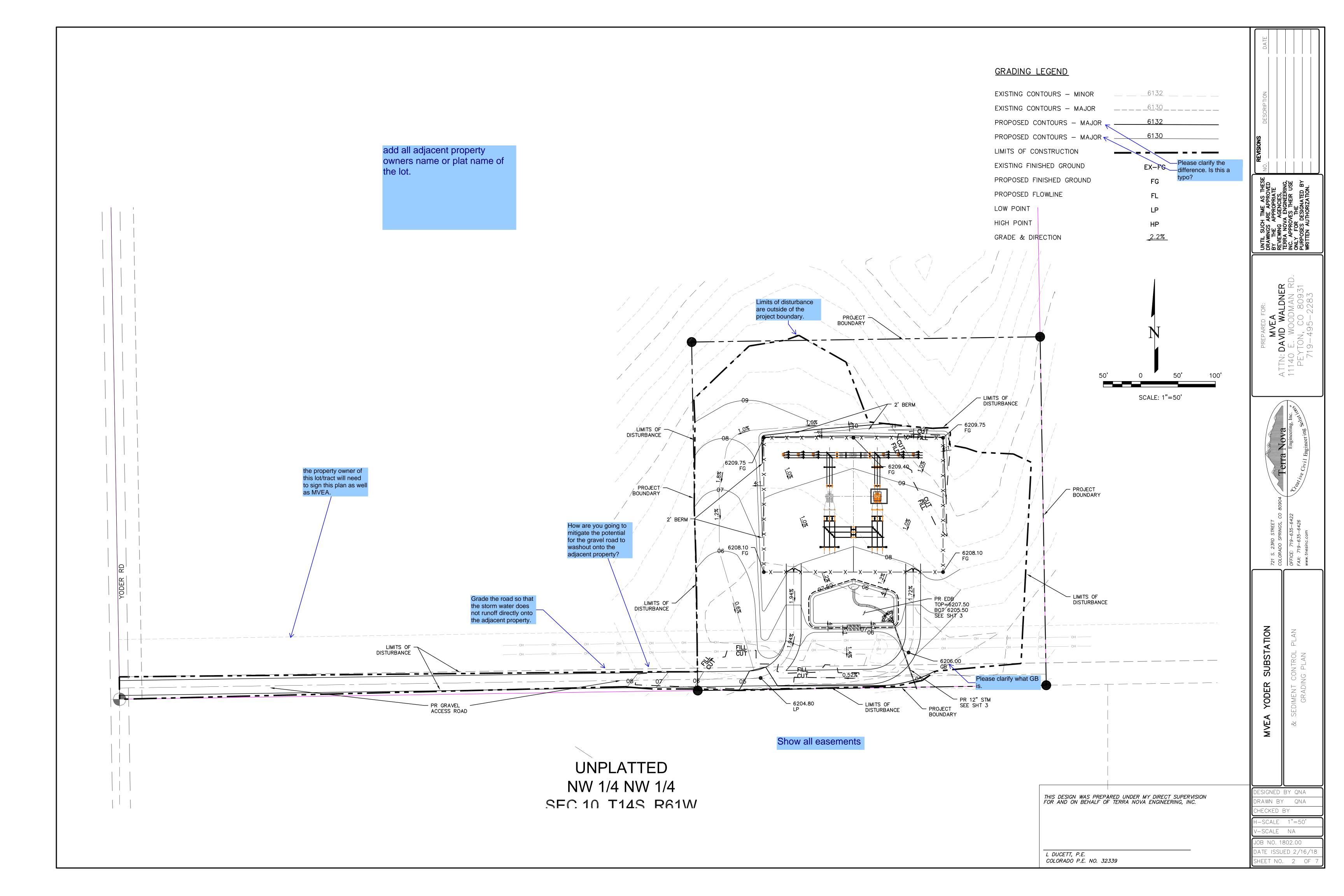
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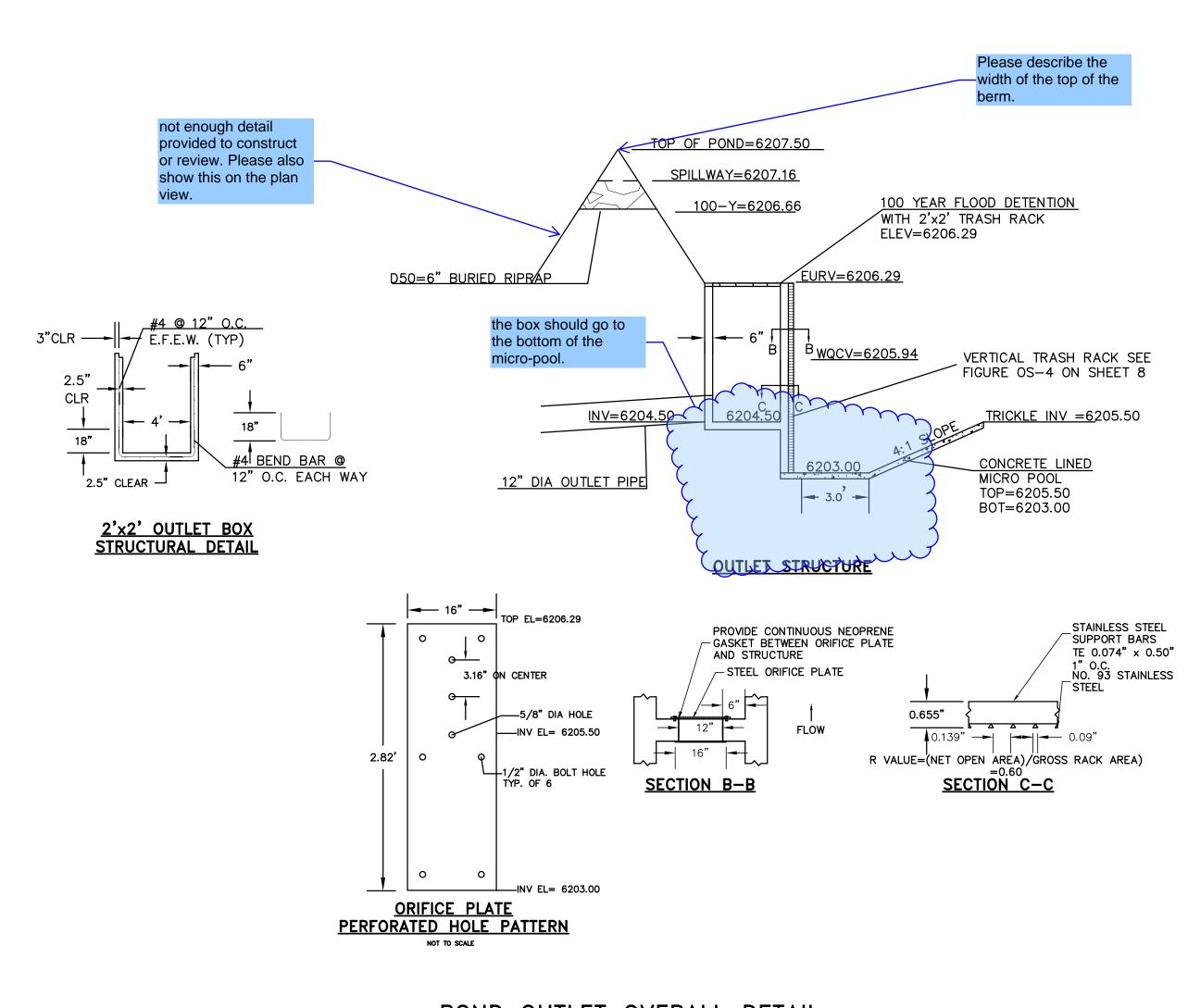
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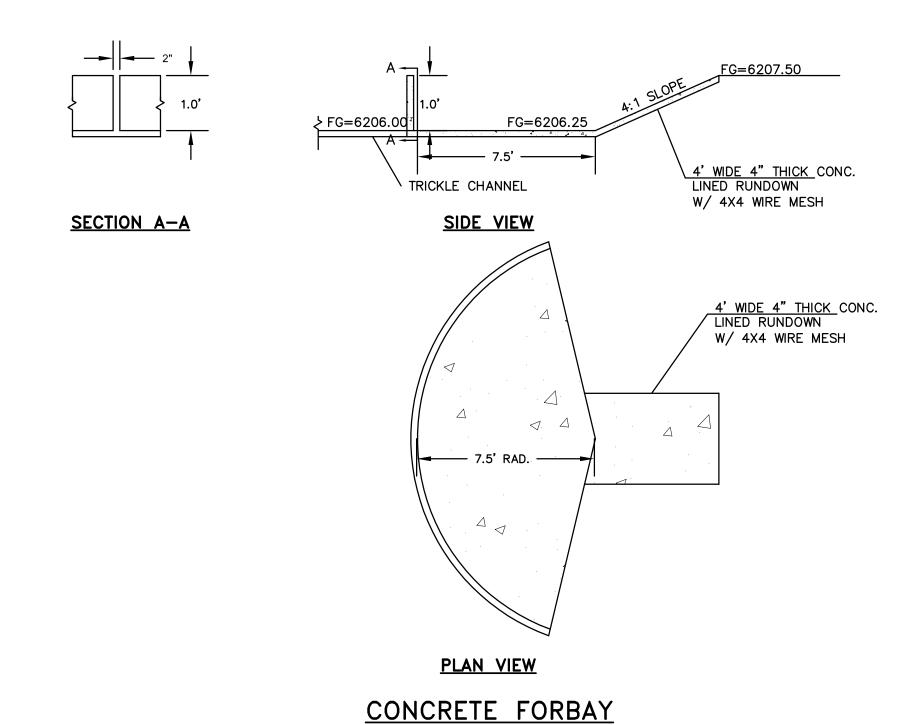
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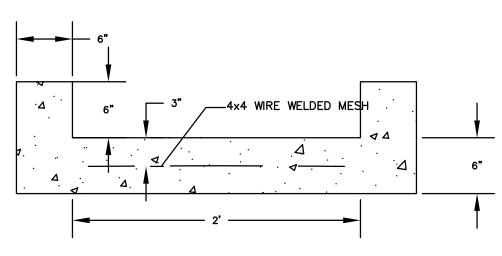
SHEET NO. 1 OF



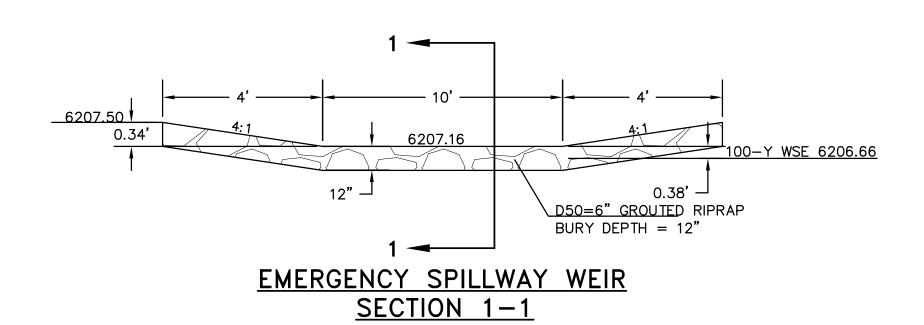


POND OUTLET OVERALL DETAIL





2' CONCRETE TRICKLE CHANNEL



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

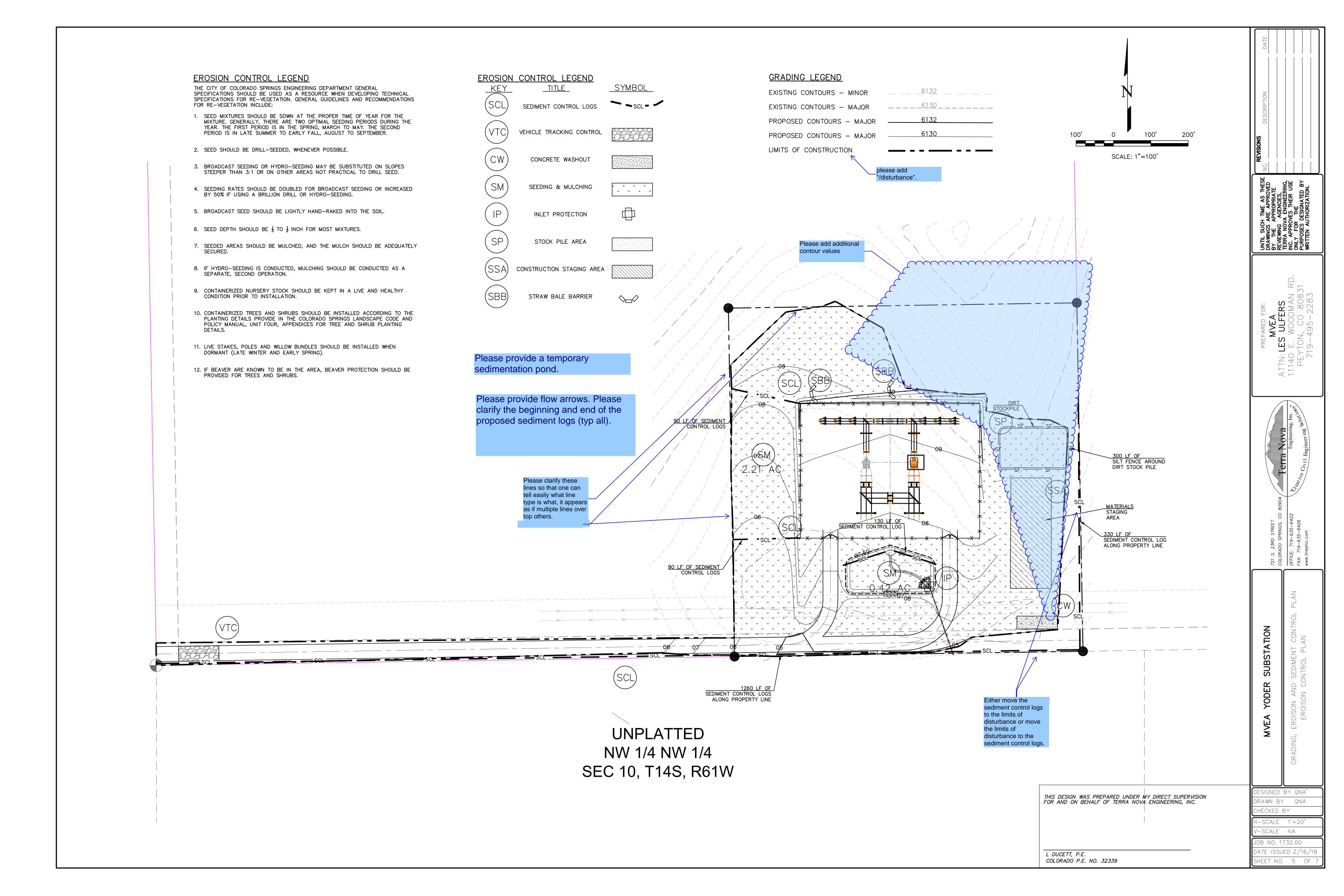
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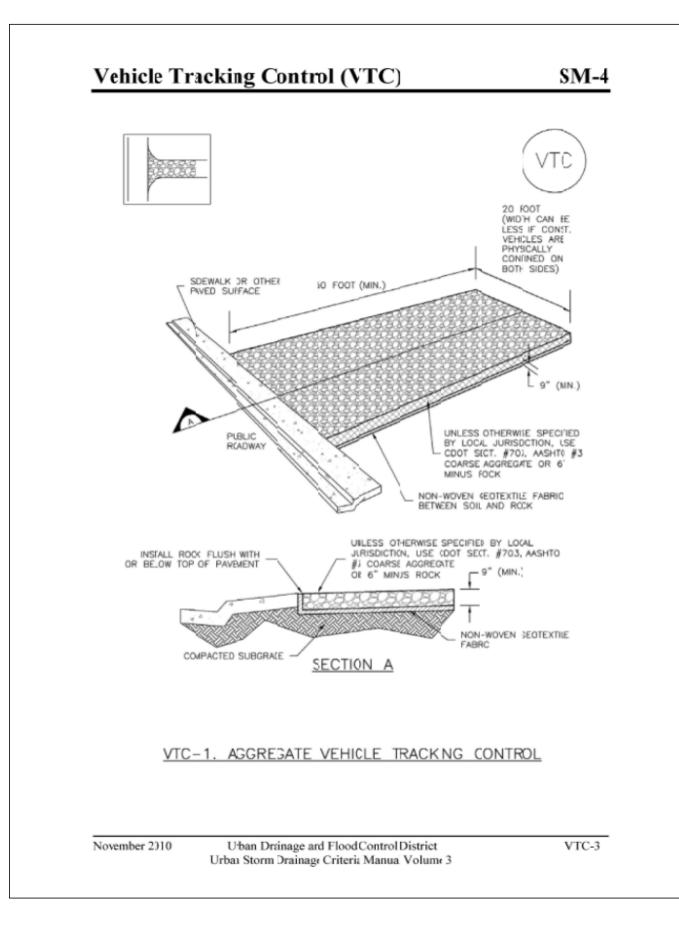
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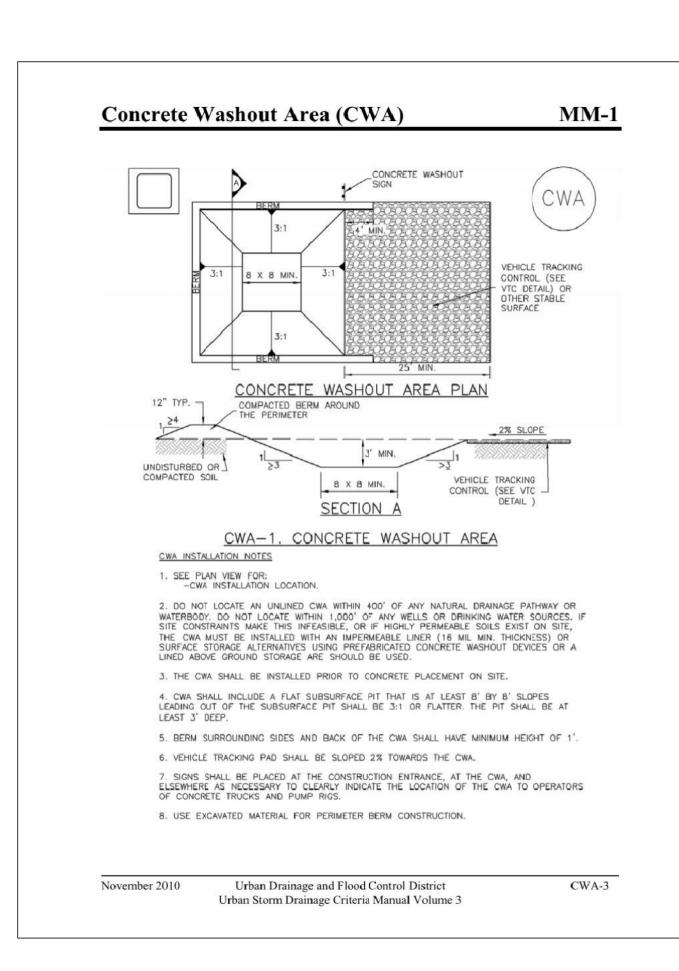
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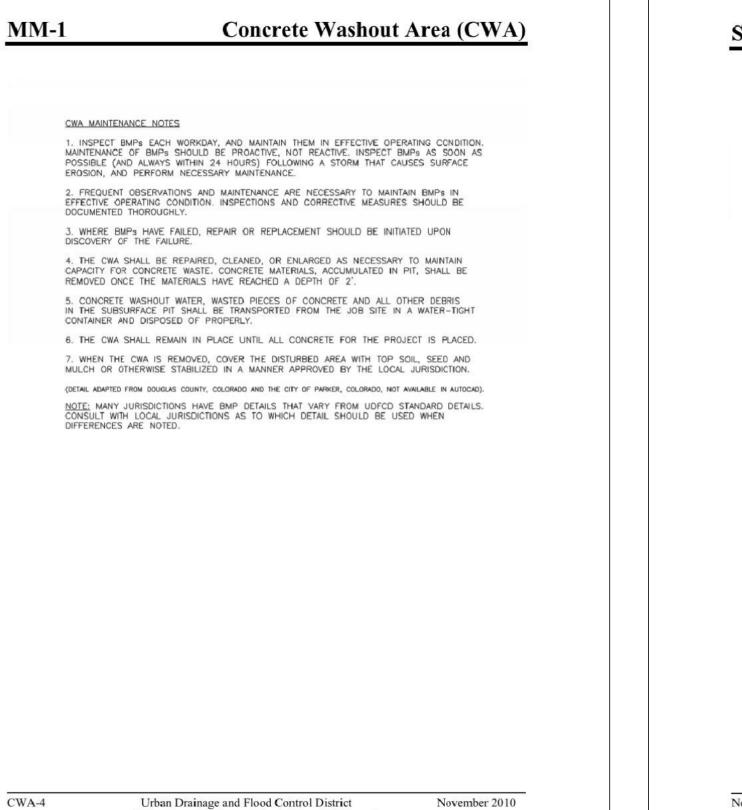
SHEET NO. 4 OF 7

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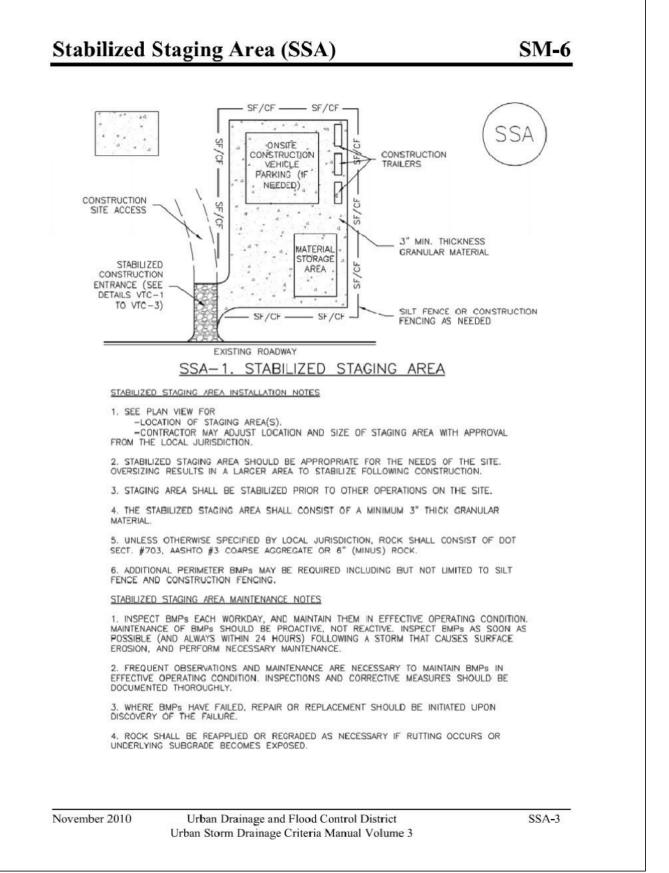


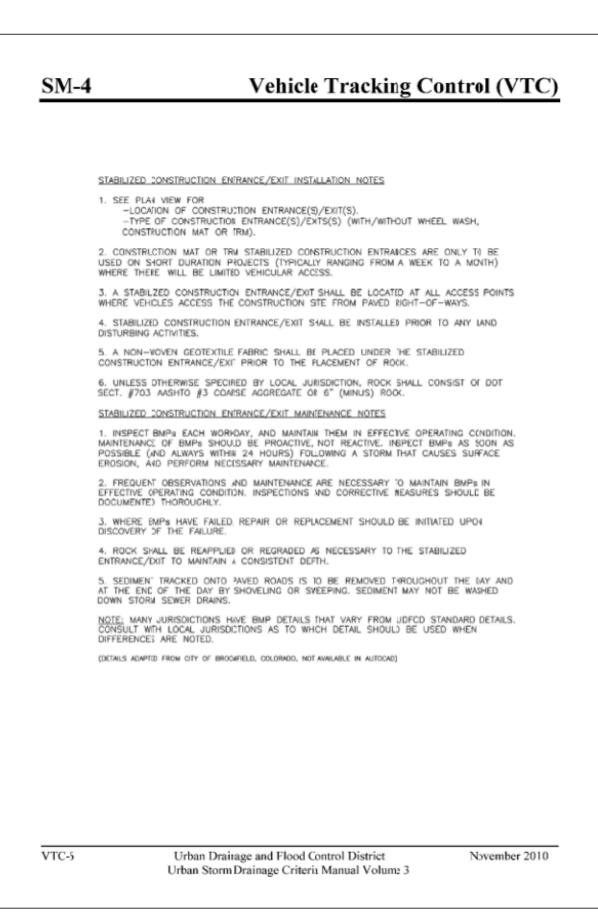


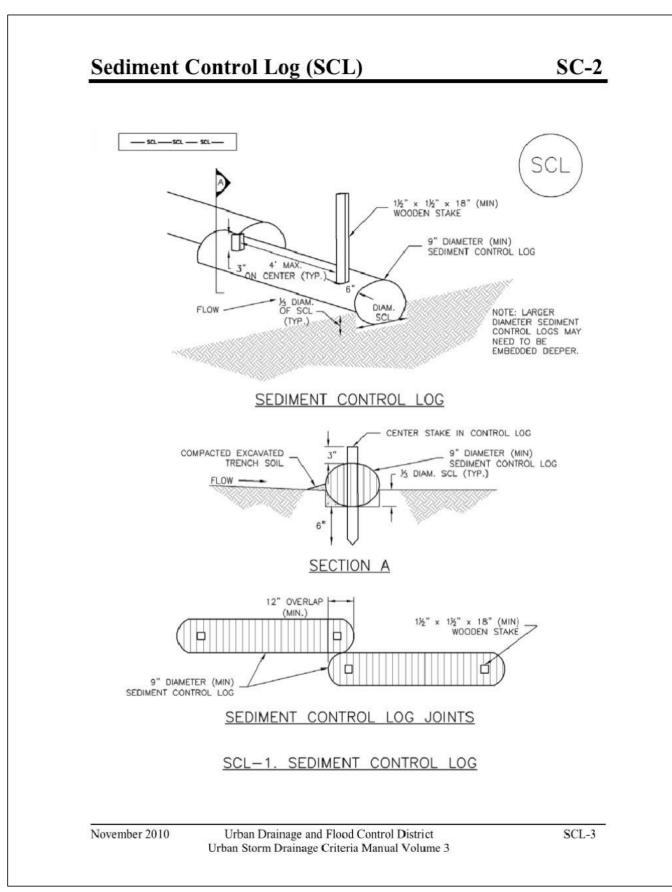


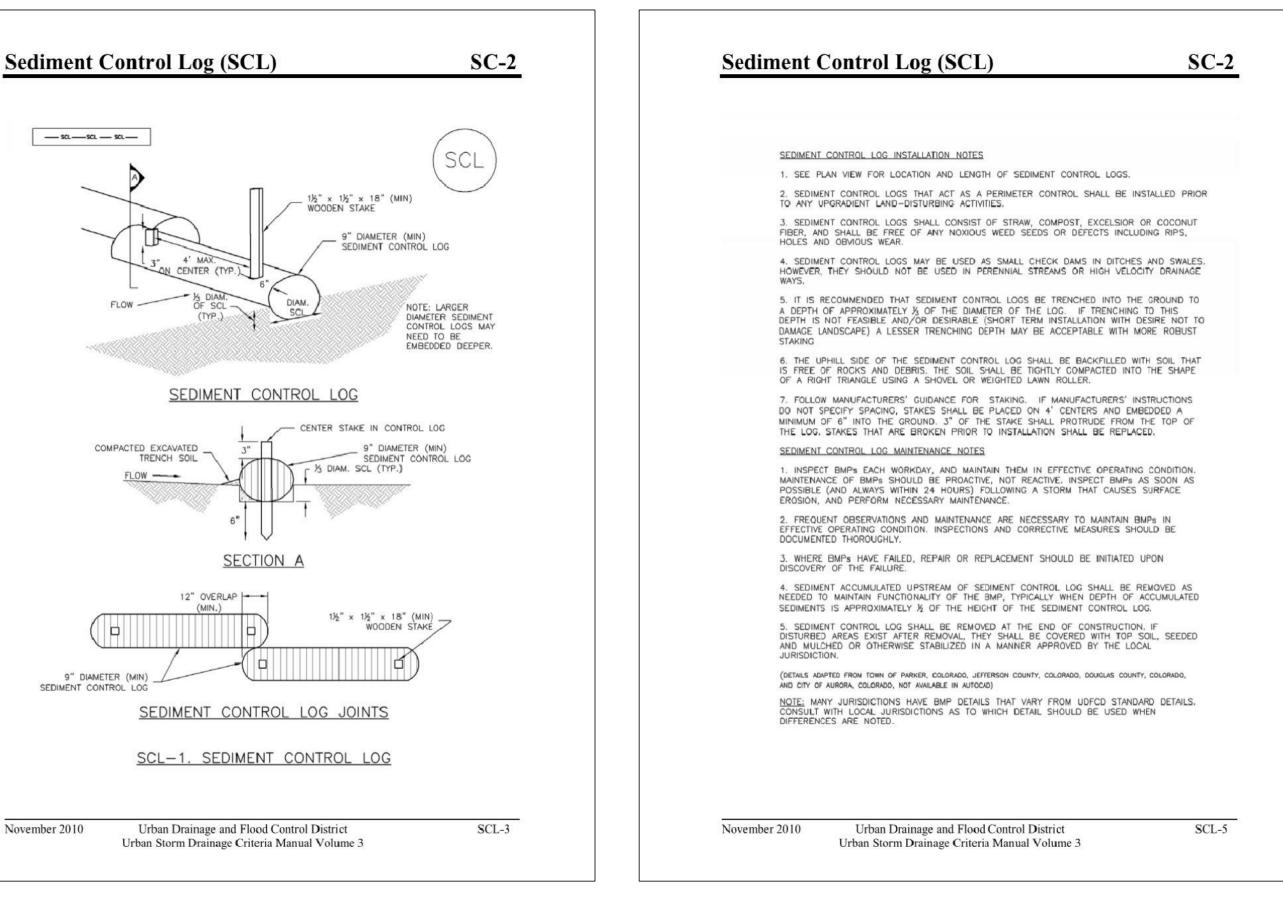


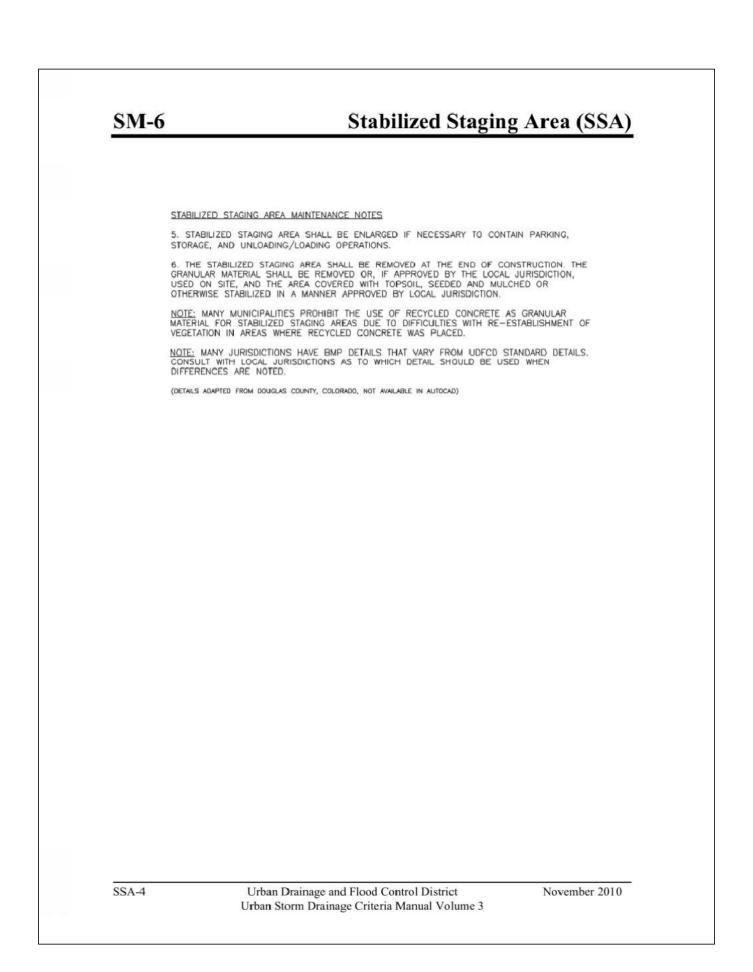
Urban Storm Drainage Criteria Manual Volume 3











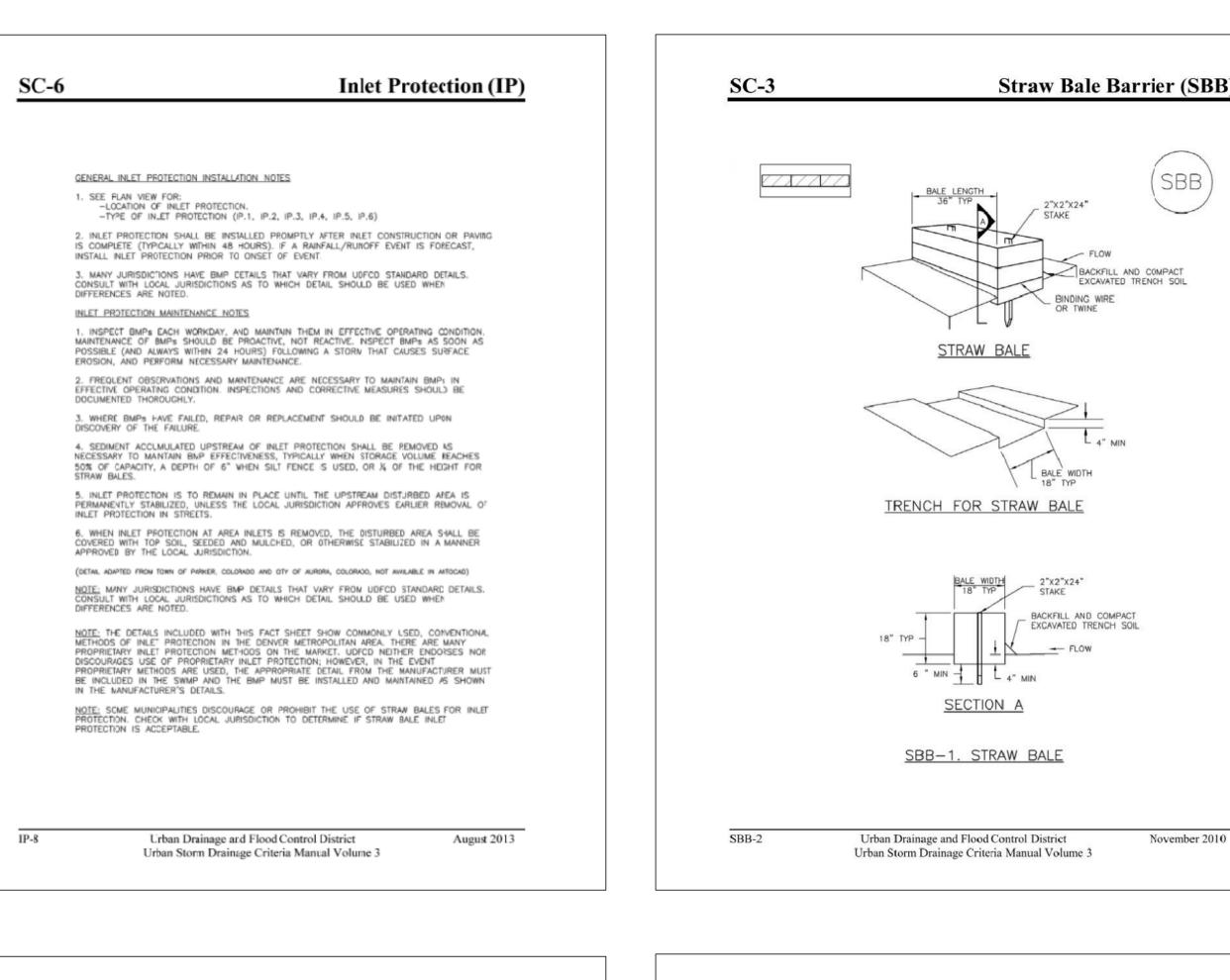
THIS DESIGN WAS PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF TERRA NOVA ENGINEERING, INC.

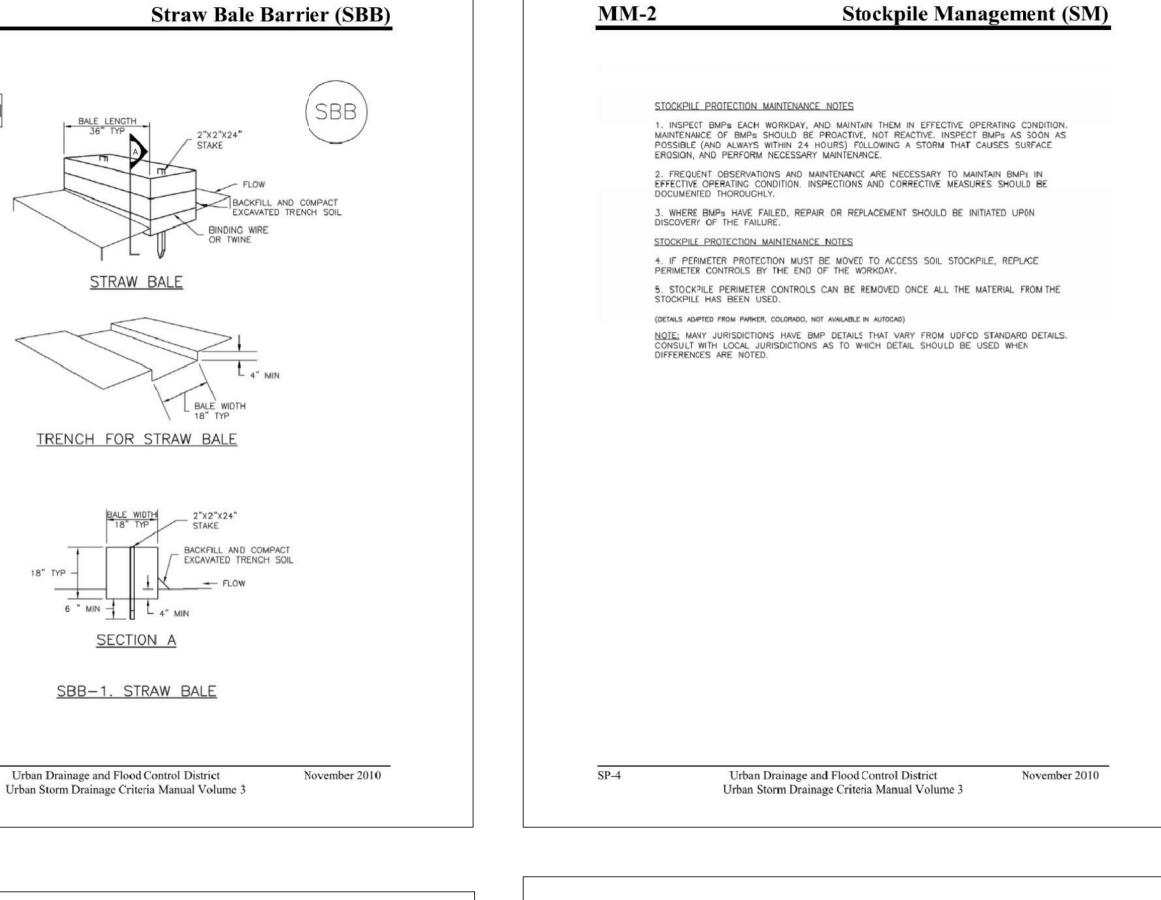
DRAWN BY QNA HECKED BY -SCALE NA -SCALE NA IOB NO. 1802.00 DATE ISSUED 2/16/1

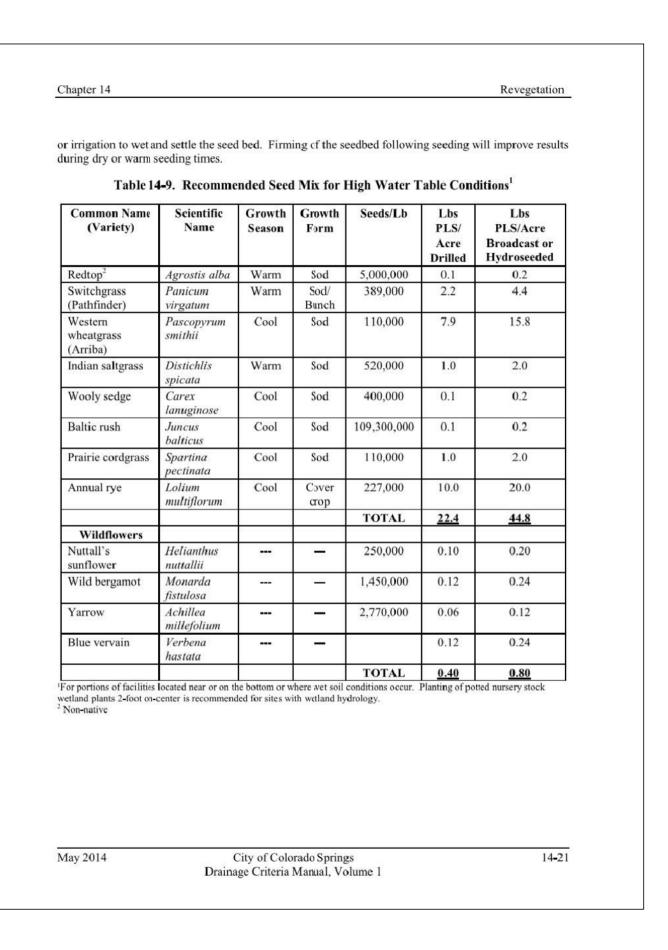
ESIGNED BY QNA'

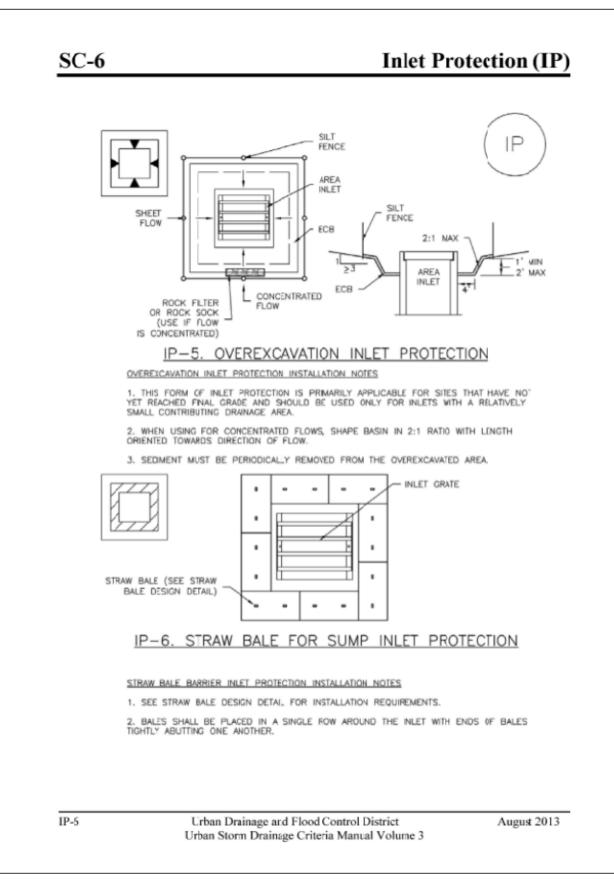
DD

L DUCETT, P.E. COLORADO P.E. NO. 32339 HEET NO. 6 OF

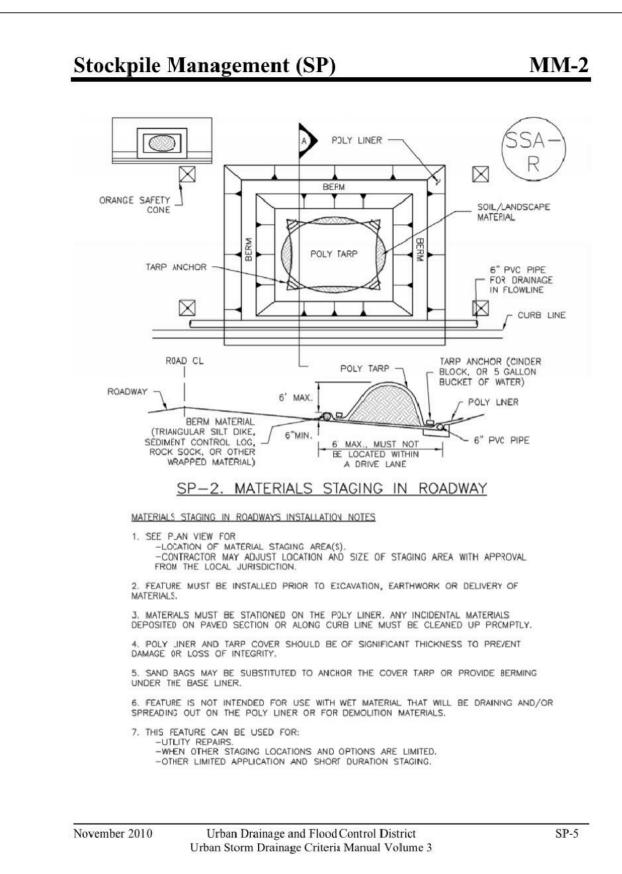


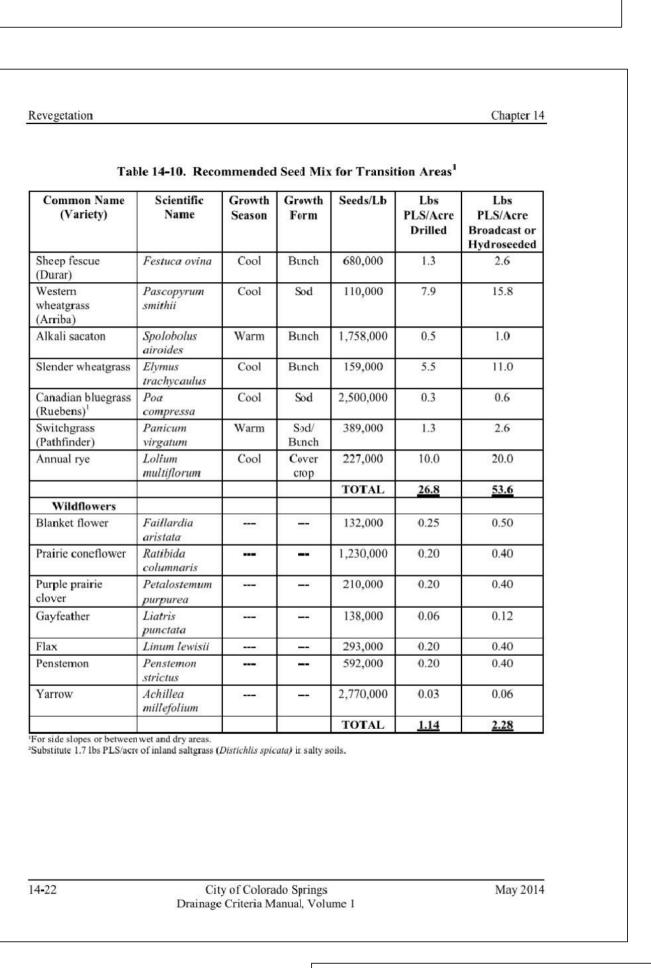












L DUCETT, P.E.

COLORADO P.E. NO. 32339

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

CHECKI
H-SCA
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JOB NO

DESIGNED BY QNA'
DRAWN BY QNA
CHECKED BY
H-SCALE NA
V-SCALE NA
JOB NO. 1802.00
DATE ISSUED 2/16/18
SHEET NO. 7 OF 7

DNER NN RD 1831

DD

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Markup Summary

Locked (46)



Subject: Engineer Page Label: 1 Lock: Locked Author: dsdgrimm

Date: 7/9/2018 11:04:20 AM

Color:

Only one water quality pond is identified on the plans. Please clarify.



Subject: Engineer Page Label: 1 Lock: Locked Author: dsdnijkamp

Date: 7/9/2018 11:04:21 AM

Color:

Due to the volume and complexity of the comments provided, the reviewer reserves the right to make additional comments on the GEC

and FDR.



Subject: Engineer Page Label: 1 Lock: Locked

Author: dsdnijkamp **Date:** 7/9/2018 11:04:22 AM

Color:

Remove or make consistent with the FAE. this is not required on this plan.



Subject: Engineer Page Label: 1 Lock: Locked Author: dsdnijkamp

Date: 7/9/2018 11:04:23 AM

Color:

if you leave this it must be consistent with the FAE.



Subject: Engineer Page Label: 1 Lock: Locked Author: dsdnijkamp

Date: 7/9/2018 11:04:24 AM

Color:



Subject: Group Page Label: 1 Lock: Locked Author: dsdnijkamp Date: 7/9/2018 11:05:21 AM

Color:

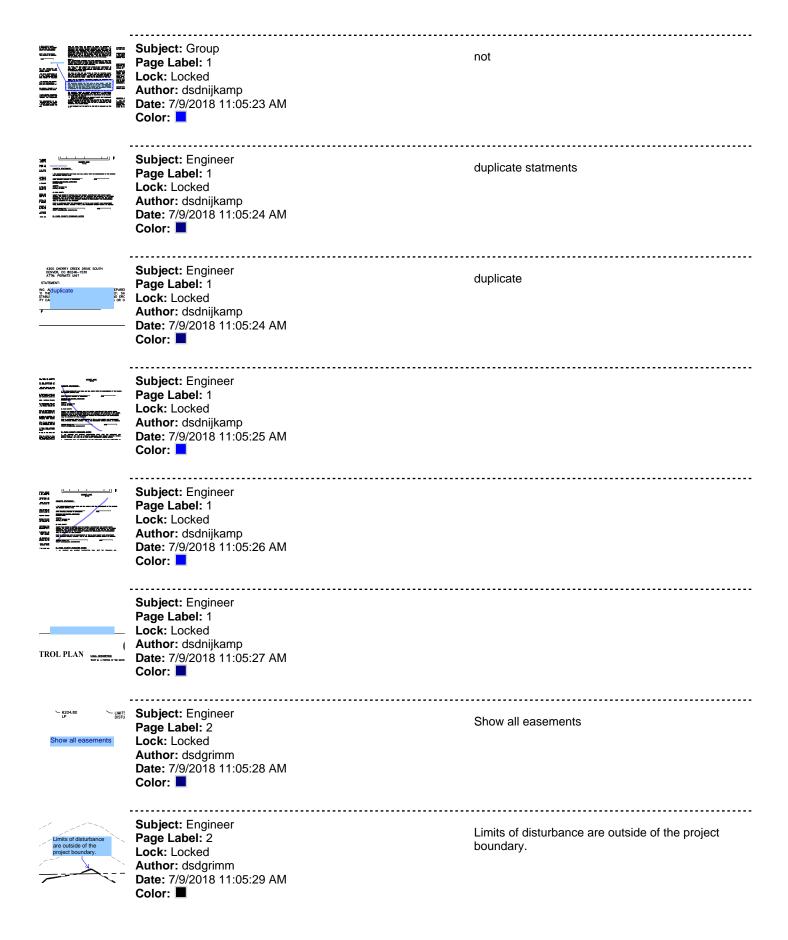
change DSD to PCD, typical all locations.



Subject: Group Page Label: 1 Lock: Locked Author: dsdnijkamp Date: 7/9/2018 11:05:23 AM

Color:

this means the access road!





Subject: Engineer Page Label: 2

Lock: Locked
Author: dsdgrimm

Date: 7/9/2018 11:05:31 AM

Color: ■



Subject: Engineer Page Label: 2

Lock: Locked
Author: dsdgrimm

Date: 7/9/2018 11:05:32 AM

Color:



Subject: Engineer Page Label: 2

Lock: Locked
Author: dsdgrimm

Date: 7/9/2018 11:05:33 AM

Color: ■



Subject: Engineer Page Label: 2

Lock: Locked
Author: dsdgrimm

Date: 7/9/2018 11:05:34 AM

Color:



Subject: Engineer Page Label: 2

Lock: Locked
Author: dsdgrimm

Date: 7/9/2018 11:05:35 AM

Color:



Subject: Engineer

Page Label: 2 Lock: Locked Author: dsdnijkamp

Date: 7/9/2018 11:05:36 AM

Color:



Subject: Engineer

Page Label: 2 Lock: Locked Author: dsdnijkamp

Date: 7/9/2018 11:05:37 AM

Color:



Subject: Engineer

Page Label: 3 Lock: Locked Author: dsdgrimm

Date: 7/9/2018 11:05:38 AM

Color:

Please clarify what GB is.

Please clarify the difference. Is this a typo?

Grade the road so that the storm water does not runoff directly onto the adjacent property.

How are you going to mitigate the potential for the gravel road to washout onto the adjacent property?

the property owner of this lot/tract will need to sign

this plan as well as MVEA.

add all adjacent property owners name or plat

name of the lot.

Provide outlet protection at the end of the pipe.



Subject: Engineer Page Label: 3 Lock: Locked Author: dsdgrimm

Date: 7/9/2018 11:05:39 AM

Color: ■

Top of the forebay wall cannot be higher than the highest most contour. The forebay details show the wall being 1 foot high. Should this elevation be

6207.00?



Subject: Engineer Page Label: 3 Lock: Locked Author: dsdgrimm

Date: 7/9/2018 11:05:42 AM

Color:

The bottom of the pond must drain towards the concrete trickle channel.



Subject: Engineer Page Label: 3 Lock: Locked Author: dsdgrimm

Date: 7/9/2018 11:05:43 AM

Color:

The top of the berm cannot come to a point. The berm must be minimum of 12 feet wide, per the

DCM.



Subject: Engineer Page Label: 3 Lock: Locked Author: dsdgrimm

Date: 7/9/2018 11:05:43 AM

Color:

Provide a maintenance access ramp to the bottom

of the basin.



Subject: Engineer Page Label: 3 Lock: Locked Author: dsdgrimm

Date: 7/9/2018 11:05:44 AM

Color:

The outlet pipe cannot discharge directly onto the

adjacent property.



Subject: Engineer Page Label: 3 Lock: Locked Author: dsdnijkamp

Date: 7/9/2018 11:05:46 AM

Color: ■

where is this cut section located?



Subject: Engineer Page Label: 3 Lock: Locked Author: dsdnijkamp Date: 7/9/2018 11:05:47 AM

Color: ■

Please call out what this is.



Subject: Engineer Page Label: 3 Lock: Locked Author: dsdnijkamp

Date: 7/9/2018 11:05:48 AM

Color:

please provide existing contour values so that i can see how much fill you are adding in the pond area for the embankment.

for the embankment.

all embankments must be analyzed and a geotech

report submitted.

please show hatching where all proposed gravel

and or concrete is proposed.

the gravel road entrance is a part of this work,

please show on all plans.

Please show cross section of fence and berm.

please see comments in the FDR

Subject: Engineer Page Label: 3 Lock: Locked Author: dsdnijkamp

Date: 7/9/2018 11:05:50 AM

Color:

please see comments in the FDR



Subject: Engineer Page Label: 3 Lock: Locked Author: dsdnijkamp

Date: 7/9/2018 11:05:51 AM

Color:



Subject: Group Page Label: 4 Lock: Locked

Author: dsdnijkamp **Date:** 7/9/2018 11:05:52 AM

Color:

the box should go to the bottom of the micro-pool.



Subject: Engineer Page Label: 4 Lock: Locked Author: dsdnijkamp

Date: 7/9/2018 11:05:52 AM

Color:

not enough detail provided to construct or review. Please also show this on the plan view.



Subject: Engineer Page Label: 4 Lock: Locked Author: dsdnijkamp

Date: 7/9/2018 11:05:53 AM

Color:

Please describe the width of the top of the berm.



Subject: Engineer Page Label: 5 Lock: Locked Author: dsdgrimm

Date: 7/9/2018 11:05:55 AM

Color:

Please provide a temporary sedimentation pond.



Subject: Engineer Page Label: 5 Lock: Locked Author: dsdgrimm

Date: 7/9/2018 11:05:55 AM

Color: ■



Subject: Engineer Page Label: 5 Lock: Locked

Author: dsdgrimm

Date: 7/9/2018 11:05:56 AM

Color:

Either move the sediment control logs to the limits of disturbance or move the limits of disturbance to

the sediment control logs.

Subject: Text Box Page Label: 5 Lock: Locked Author: dsdnijkamp Date: 7/9/2018 11:05:59 AM

Color: ■



Subject: Engineer Page Label: 5 Lock: Locked Author: dsdnijkamp

Date: 7/9/2018 11:06:00 AM

Color:

Please provide flow arrows. Please clarify the beginning and end of the proposed sediment logs

(typ all).



Subject: Engineer Page Label: 5 Lock: Locked Author: dsdnijkamp

Date: 7/9/2018 11:06:00 AM

Color:

Please clarify these lines so that one can tell easily what line type is what, it appears as if multiple lines

over top others.



Subject: Engineer Page Label: 5 Lock: Locked Author: dsdnijkamp Date: 7/9/2018 11:06:02 AM

Color: ■



Subject: Engineer Page Label: 5 Lock: Locked Author: dsdnijkamp Date: 7/9/2018 11:06:03 AM

Color:



Subject: Group Page Label: 5 Lock: Locked Author: dsdnijkamp Date: 7/9/2018 11:06:04 AM

Color:

Please add additional contour values

Subject: Engineer
Page Label: 5
Lock: Locked
Author: dsdnijkamp
Date: 7/9/2018 11:06:05 AM
Color:

please add "/disturbance".