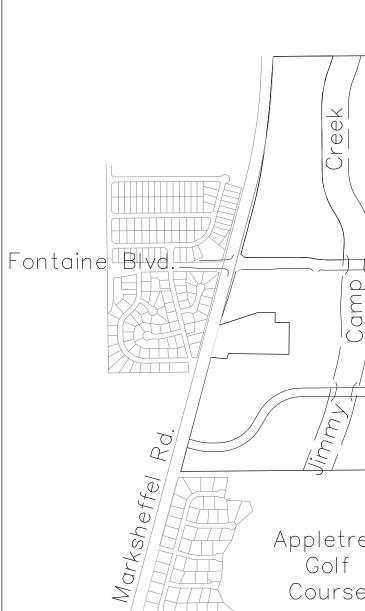
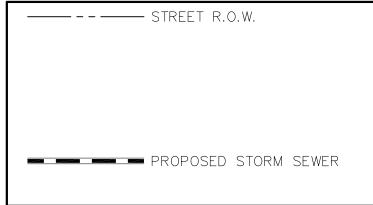
CREEKSIDE SOUTH AT LORSON RANCH EARLY OVERLOT GRADING / EROSION CONTROL PLANS



LEGEND



WATER / SANITARY WIDEFIELD WATER AND SANITATION DISTRICT 8495 FONTAINE BLVD. COLORADO SPRINGS, CO 80925 719-390-7111

CABLE COMCAST P.O. BOX 173838 DENVER, CO 80217 970-641-4774

ELECTRIC MOUNTAIN VIEW ELECTRIC 11140 E. WOODMEN RD. COLORADO SPRINGS, CO 80831 719-495-2283

SECURITY FIRE PROTECTION DISTRICT 400 SECURITY BOULEVARD SECURITY, CO 80911 719-392-7121

TELEPHONE CENTURYLINK

7925 INDUSTRY ROAD COLORADO SPRINGS, CO 80939 719-278-4651

GAS BLACK HILLS ENGERGY 7060 ALLEGRE ST. FOUNTAIN, CO 80817 719-393-6639

EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT 2880 INTERNATIONAL CIRCLE COLORADO SPRINGS, CO 80910 719-520-6300

BASIS OF BEARING

BEARINGS ARE BASED ON THE SOUTH LINE OF THE NORTH HALF OF SECTION 23, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN AS BEING SOUTH 8941'52" WEST. THE EAST QUARTER CORNER OF SAID SECTION 23 IS A FOUND 3-1/2" ALUMINUM CAP MONUMENT AND THE WEST QUARTER CORNER OF SAID SECTION 23 IS A FOUND 2-1/2" ALUMINUM CAP MONUMENT

BENCHMARK

FIMS MONUMENT F204 LOCATED AT THE NORTHWEST CORNER OF FONTAINE BLVD AND COTTONWOOD GROVE DR. ELEVATION 5724.072 (N.G.V.D. 29)

TRAFFIC CONTROL NOTE

THE CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL DEVICES AND MONITORING NECESSARY TO SAFELY COMPLETE THE WORK SHOWN IN THESE CONSTRUCTION DOCUMENTS IN CONFORMANCE WITH M.U.T.C.D. GUIDELINES. THE CONTRACTOR SHALL COMPLETE ALL NECESSARY WORK FOR PLAN REVIEW, PERMITS AND PROCESSING. TRAFFIC CONTROL WILL NOT BE PAID SEPARATELY BUT IS INCLUDED IN THE COST OF THE PROJECT.

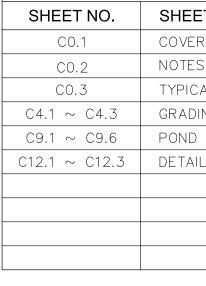
PRELIMINARY SITE GRADING CONSTRUCTION PLANS FOR

> CALL exca Unde

Old Glory Dr.
LORSON RANCH
Fontaine Blvd.
Lorson Blvd
Lorson Blvd
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VICINITY MAP NO SCALE

PREPARED FOR: LORSON, LLC N. WAHSATCH AVE., SUITE 301 COLORADO SPRINGS, CO 80903 719-635-3200 CONTACT: JEFF MARK

PREPARED BY: CORE ENGINEERING GROUP 15004 1ST AVENUE S. BURNSVILLE, MN 55306 719-570-1100 CONTACT: RICHARD L. SCHINDLER P.E.



8	DEVELOPER'S STATE
	I, THE OWNER/DEVELOPER REQUIREMENTS OF THE GF
	BUSINESS NAME <u>LORSON</u>
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2	BYJEFF MARK
	TITLE MANAGER
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Update GEC C

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6	COUNTY DESIGN CRITERIA.
6	ACCURACY AND ADEQUACY
4	WHICH SHALL BE CONFIRM
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7	DEVELOPMENT CODE, DRAIN Engineering criteria man
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7	CONDITIONS:
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ENGINEER'S APPROV

THIS GRADING AND EROS AND SUPERVISION AND IS SAID PLAN HAS BEEN PR THE COUNTY FOR GRADIN RESPONSIB9ILITY FOR ANY IN PREPARING THIS PLAN

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PUDSP-20-00X

RICHARD L. SCHINDLER, P.E. # 33997

EXAMPLE 1 CONTROL OF Call before you dig. 2-BUSINESS DAYS IN ADVANCE EFORE YOU DIG, GRADE OR EAVATE FOR THE MARKING OF DERGROUND MEMBER UTILITIES	CORE	ENGINEERING GROUP 15004 1ST AVENUE S. BURNSVILLE, MN 55306 PH: 719.570.1100 CONTACT: RICHARD 1. SCHINDLER. P.E.
SHEET INDEX	DATE	
ET DESCRIPTION		
R SHEET S (GENERAL, GRADING, EROSION CONTROL) CAL SECTIONS DING AND EROSION CONTROL PLAN O GRADING AND OUTLET STRUCTURE DETAILS ILS	DESCRIP TION	AT PREPARED FOR: LORSON, 212 N WAHSATCH AVF
Update text to match GEC Checklist ii		SOUTH
ER HAVE READ AND WILL COMPLY WITH THE GRADING AND EROSION CONTROL PLAN.	NO.	PROJECT: CREEKSIDE
DATE	DRAWN: DESIGNED CHECKED	RLS D: RLS
N. WAHSATCH AVE. SUITE 301 RADO SPRINGS, CO 80903		
e text to match Checklist Item JJ	SHEET	A _
PROVAL PROVIDED ONLY FOR GENERAL CONFORMANCE WITH A. THE COUNTY IS NOT RESPONSIBLE FOR THE CY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS RMED AT THE JOB SITE. THE COUNTY THROUGH THE JMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS THIS DOCUMENT. WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND ANAGE CRITERIA MANUALS VOLUME 1 AND 2, AND ANUAL AS AMENDED. CONSTRUCTION DOCUMENTS WILL OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO	COVER S	
COUNTY ENGINEER/ECM ADMINISTRATOR DATE		
OVAL SION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION S CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF REPARED ACCORDING TO THE CRITERIA ESTABLISHED BY NG AND EROSION CONTROL PLANS. I ACCEPT IY NEGLIGENT ACTS, ERRORS, OR OMISSIONS ON MY PART N	F	DATE: ARY 15, 2 PROJECT NO. 00.051
P.E. # 33997		heet number

DUNINAL DINCLORE

2020

TOTAL SHEETS: 15

FOR AND ON BEHALF OF CORE ENGINEERING GROUP

CONSTRUCTION NOTES

- 1. ALL WORK SHALL COMPLY WITH THE CODES AND POLICIES FOR EL PASO COUNTY.
- 2. EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THIS GRADING PLAN WAS OBTAINED FROM AERIAL CONTOURS AND PREVIOUS CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE TO EXAMINE THE SITE AND BE FAMILIAR WITH THE EXISTING CONDITIONS.
- 3. DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS: BASE OF ALL CUTS AND FILLS - 12 INCHES, FULL DEPTH OF ALL EMBANKMENTS
- 4. THE CONTRACTOR IS RESPONSIBLE FOR THE RE-ESTABLISHMENT OF ALL SURVEY MONUMENTS DISTURBED WITHIN THE PROJECT LIMITS.
- 5. THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM FLOODING AT ALL TIMES. AREAS AND FACILITIES SUBJECTED TO FLOODING, REGARDLESS OF THE SOURCE OF WATER, SHALL BE PROMPTLY DEWATERED AND RESTORED.
- 6. PRIOR TO PAVING OPERATIONS, THE ENTIRE SUBGRADE SHALL BE PROOF-ROLLED WITH A LOADED 988 FRONT-END LOADER OR SIMILAR HEAVY RUBBER TIRED VEHICLE (GVW OF 50,000 POUNDS WITH 18 KIP PER AXLE AT TIRE PRESSURES OF 90 PSI) TO DETECT ANY SOFT OR LOOSE AREAS. IN AREAS WHERE SOFT OR LOOSE SOILS, PUMPING OR EXCESSIVE MOVEMENT IS OBSERVED, THE EXPOSED MATERIALS SHALL BE OVER-EXCAVATED TO A MINIMUM DEPTH OF TWO FEET BELOW PROPOSED FINAL GRADE OR TO A DEPTH AT WHICH SOILS ARE STABLE. AFTER THIS HAS BEEN COMPLETED, THE EXPOSED MATERIALS SHALL BE SCARIFIED TO A DEPTH OF 12 INCHES AND MOISTURE CONDITIONED. THE SUBGRADE SHALL THEN BE UNIFORMLY COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR DENSITY (ASTMM D-698) AT 0 TO +4.0% OF OPTIMUM MOISTURE CONTENT FOR A-6 AND A-7-6 SOILS ENCOUNTERED. OTHER SUBGRADE TYPES SHALL BE UNIFORMLY COMPACTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR DENSITY (ASTM D-1557) AT PLUS OR MINUS 2.0% OF OPTIMUM MOISTURE CONTENT. AREAS WHERE STABLE NATURAL SOILS ARE ENCOUNTERED AT PROPOSED SUBGRADE ELEVATION SHALL ALSO BE SCARIFIED (18 INCHES FOR A-7-6 SOILS BELOW FULL-DEPTH ASPHALT CONCRETE) AND COMPACTED AS OUTLINED ABOVE PRIOR TO PAVING OPERATIONS. SUBGRADE FILL SHALL BE PLACED IN SIX-INCH LIFTS AND UNIFORMLY COMPACTED, MEETING THE REQUIREMENTS AS PREVIOUSLY DESCRIBED.
- 7. SUBGRADE MATERIALS DEEMED UNSUITABLE BY THE ENGINEER SHALL BE EXCAVATED, DISPOSED OF AND REPLACED WITH APPROVED MATERIALS.
- 8. FILL SHALL BE PLACED IN 8-INCH MAXIMUM LOOSE LIFTS AND SHALL BE COMPACTED PRIOR TO SUCCESSIVE LIFTS.

9. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION DURING CONSTRUCTION ACTIVITIES AT ALL TIMES DURING GRADING AND CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING EROSION AND SEDIMENT CONTROL MEASURES:

- HAY BALE BARRIERS WHERE NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
- SILT FENCE WHERE NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
- TEMPORARY SEDIMENTATION BASINS WHERE NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
- MULCHING AND SEEDING OF EXCESSIVE SLOPED AREAS AS NEEDED OR AS DIRECTED BY THE ENGINEER.
- TEMPORARY VEHICLE TRACKING CONTROL AS NEEDED AND/OR DIRECTED BY THE ENGINEER.
- CONCRETE WASH AREAS.

- INLET PROTECTION. THESE AND ALL EROSION CONTROL BEST MANAGEMENT PRACTICES AS SHOWN IN THE GRADING AND EROSION CONTROL PLANS SHALL BE STRICTLY ADHERED TO.

10. FINISHED CONTOURS/SPOT ELEVATIONS SHOWN HEREON REPRESENT FINISHED GRADES. ALL PAVEMENT SUBGRADES ARE BASED ON THE COMPOSITE ASPHALT PAVEMENT RECOMMENDATIONS MADE IN THE "GEOTECHNICAL STUDY" FOR THIS PROJECT.

11. ALL GRADING SHALL CONFORM TO THE GEOTECHICAL RECOMMENDATIONS FOR CREEKSIDE PREPARED BY RMG, "PRELIMINARY SOILS AND GEOLOGY FOR CREEKSIDE SOUTH AT LORSON RANCH", DATED JANUARY, 2020. CONSTRUCTION OF DETENTION PONDS SHALL CONFORM TO THE GEOTECHNICAL RECOMMENDATIONS IN A REPORT BY RMG TITLED "PRELIMINARY SOILS AND GEOLOGY FOR CREEKSIDE SOUTH AT LORSON RANCH", DATED JANUARY, 2020. THIS INCLUDES POND OUTFALL DESIGN, KEY-IN, AND SLOPE/EMBANKMENT COMPACTION REQUIREMENTS.

12. THERE MAY BE SOME TOPSOIL WITHIN LORSON RANCH EAST THAT IS NOT SUITABLE FOR RE-USE. CONTRACTOR SHALL AMEND THE TOPSOIL AS NECESSARY AND RE-SPREAD IN ACCORDANCE WITH THE GEOTECHNICAL RECOMMENDATIONS. IF TOPSOIL CANNOT BE AMENDED IT SHALL BE USED AS FILL WHERE NO FUTURE STRUCTURES OR ROADS WILL BE BUILT.

Add a note about existing vegetation

There is a reference to a 12" pipe with the FMIC ditch; is this pipe to be removed? (What are extents?)

ADDITIONAL SWMP PLAN CONTRACTOR NOTES.

- AREAS, ETC TO BE INSERTED INTO THE SWMP PLANS.
- DOCUMENTED.

- CRITERIA.

EL PASO COUNTY STANDARD CONSTRUCTION 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 AND 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. CALL 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 AND 2 c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION d. CDOT M & S STANDARDS

4. 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 FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.

5. 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.

6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) - INSPECTIONS. PRIOR TO STARTING CONSTRUCTION.

7. IT IS THE CONTRACTOR'S 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.

8. 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 UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.

9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.

10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.

11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.

12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.

13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY PUBLIC WORK DEPARTMENT AND MUTCO

14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY PWD, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.

15. 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.

1. CONTRACTOR MUST ADD THEIR CONTACT INFORMATION TO THE SWMP PLANS PRIOR TO CONSTRUCTION

2. IF THE GRADING IS TO BE PHASED THE CONTRACTOR MUST PROVIDE PHASING MAPS FOR INSERTION INTO THE SWMP PLANS. 3. THE CONTRACTOR MUST PROVIDE THE CLIENT THE LOCATION OF ANY POTENTIAL SOURCES OF POLUTIONS SUCH AS FUELING

4. THE ON-SITE SWMP PLAN SHALL BE LOCATED AT THE SE CORNER OF TRAPPE DRIVE AND HORTON DR UNLESS OTHERWISE

standard notes for fl. paso county

- CONSTRUCTION MAY NOT COMMENCE UNTIL A CONSTR CONFERENCE IS HELD WITH PCD INSPECTIONS.
- 2. STORMWATER DISCHARGES FROM CONSTRUCTION SITES OR DEGRADATION OF STATE WATERS. ALL WORK AND POLLUTION OF ANY ON-SITE OR OFF SITE WATERS, IN

3. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLAN CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE REQUIREMENTS OF THE MOST RECENT VERSION OF TH LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULAT

4. A SEPARATE STORMWATER MANAGEMENT PLAN (SWMF STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSU SWMP IS THE RESPONSIBILITY OF THE DESIGNATED ST SHALL BE KEPT UP TO DATE WITH WORK PROGRESS

5. ONCE THE ESQCP HAS BEEN ISSUED, THE CONTRACTO BMPS AS INDICATED ON THE GEC. A PRECONSTRUCT COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. MEETING TIME AND PLACE WITH COUNTY DSD INSPECT

6. SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, COMPLETED WITHIN 21 CALENDAR DAYS AFTER FINAL DISTURBED AREAS AND STOCKPILES WHICH ARE NOT SHALL ALSO BE MULCHED WITHIN 21 DAYS AFTER INT STATE FOR MORE THAN 60 DAYS SHALL ALSO BE SE SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSIO

7. TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL WITH PERMANENT SOIL EROSION CONTROL MEASURES VOLUME II AND THE ENGINEERING CRITERIA MANUAL (

8. ALL PERSONS ENGAGED IN EARTH DISTURBANCE SHAL CONTROL MEASURES INCLUDING BMPS IN CONFORMAN CRITERIA MANUAL (DCM) VOLUME II AND IN ACCORDA

9. ALL TEMPORARY EROSION CONTROL FACILITIES INCLUE EROSION OF ANY EARTH DISTURBANCE OPERATIONS. AND THE DCM VOLUME II AND MAINTAINED THROUGHO

10. ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN S EROSION AND RESULTING SEDIMENTATION. ALL DISTUR THE EXPOSED AREA OF ANY DISTURBED LAND SHALL

11. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED THROUGH, OR FROM THE EARTH DISTURBANCE AREA . VELOCITY.

12. CONCRETE WASH WATER SHALL BE CONTAINED AND L BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STA SYSTEM OR FACILITIES.

13. EROSION CONTROL BLANKETING SHALL BE USED ON S

14. BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER WA STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN A BE REQUIRED BY EL PASO COUNTY PCD IF DEEMED N

15. VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEE BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDI

16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMO ACCORDANCE WITH LOCAL AND STATE REGULATORY R MATERIAL WASTES OR UNUSED BUILDING MATERIALS

17. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, S OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMW.

18. THE QUANTITY OF MATERIALS STORED ON THE PROJE REQUIRED TO PERFORM THE WORK IN AN ORDERLY SI NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAIN

19. NO CHEMICALS ARE TO BE USED BY THE CONTRACTO PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL I USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND

20. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUC TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED N SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES

21. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORM DITCHLINE.

22. INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WA "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OB FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVEN REGULATIONS OF OTHER FEDERAL, STATE, OR COUNT Shall Apply.

23. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE S

24. PRIOR TO ACTUAL CONSTRUCTION THE PERMITTEE SH.

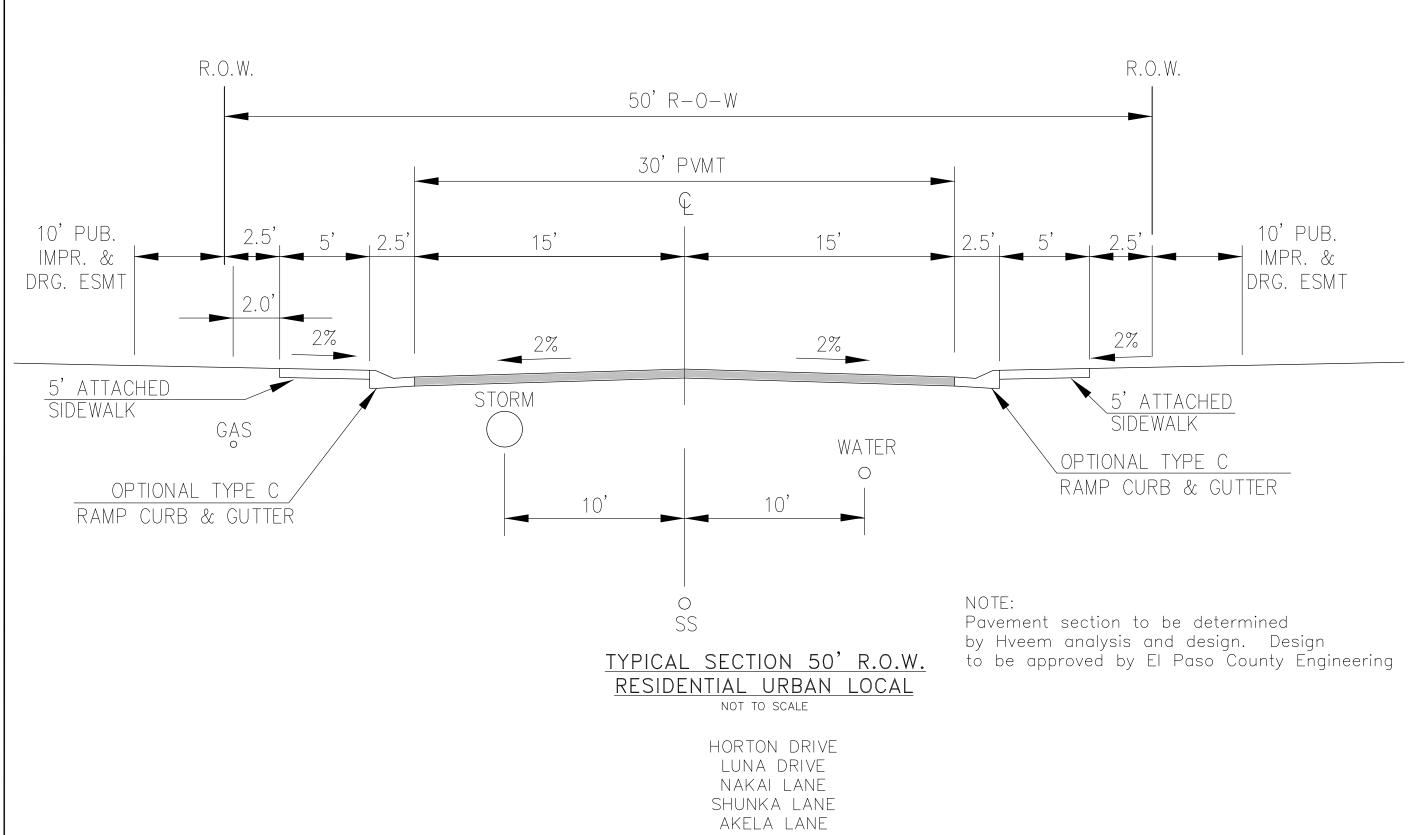
25. A WATER SOURCE SHALL BE AVAILABLE ON SITE DUR. DUST FROM EARTHWORK EQUIPMENT AND WIND.

26. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPAR

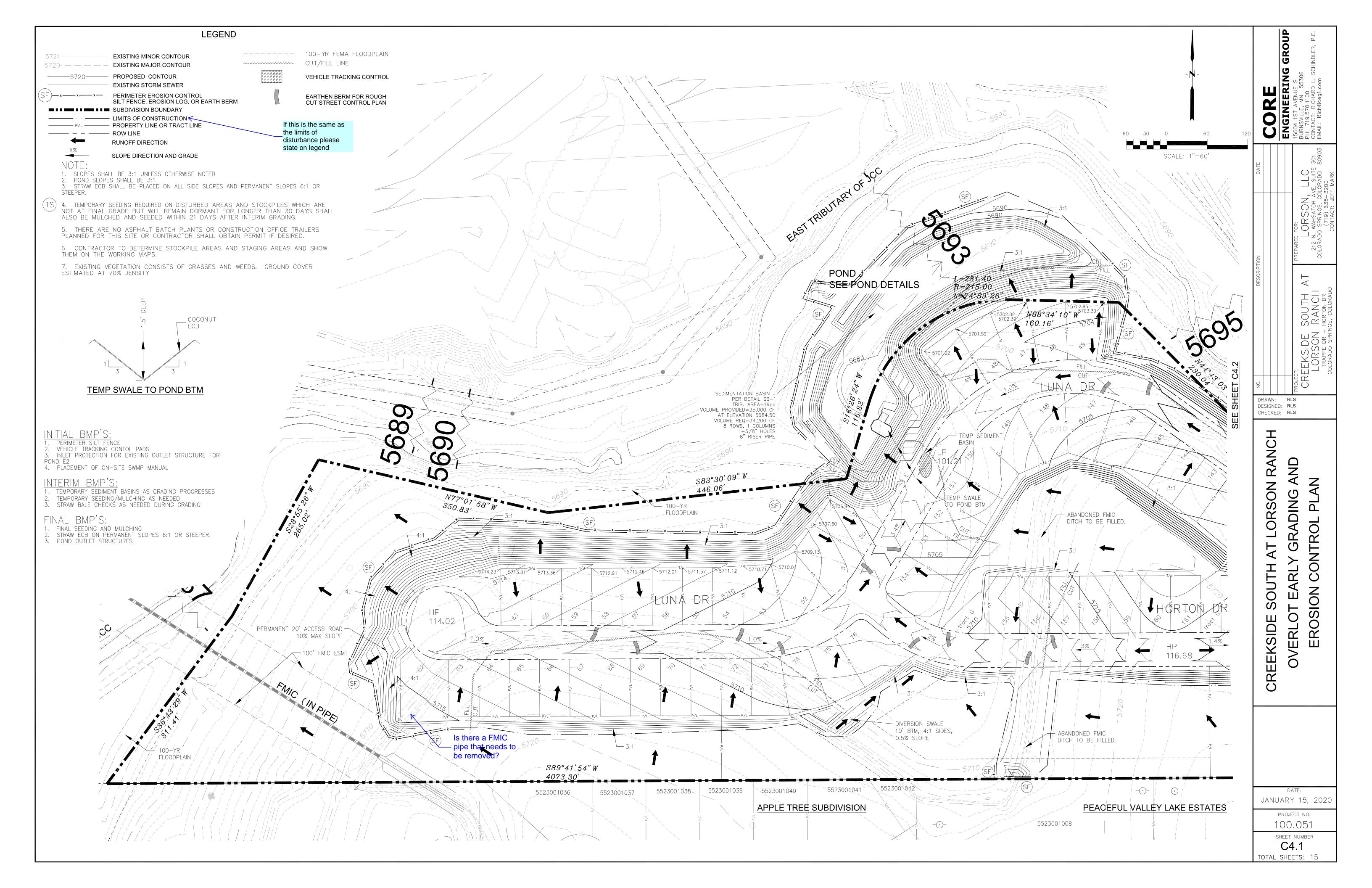
27. AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED STAI MORE, THE OWNER OR OPERATOR OF CONSTRUCTION DISCHARGE TO THE COLORADO DEPARTMENT OF PUBL APPLICATION CONTAINS CERTIFICATION OF COMPLETION GRADING AND EROSION CONTROL PLAN MAY BE A PAR

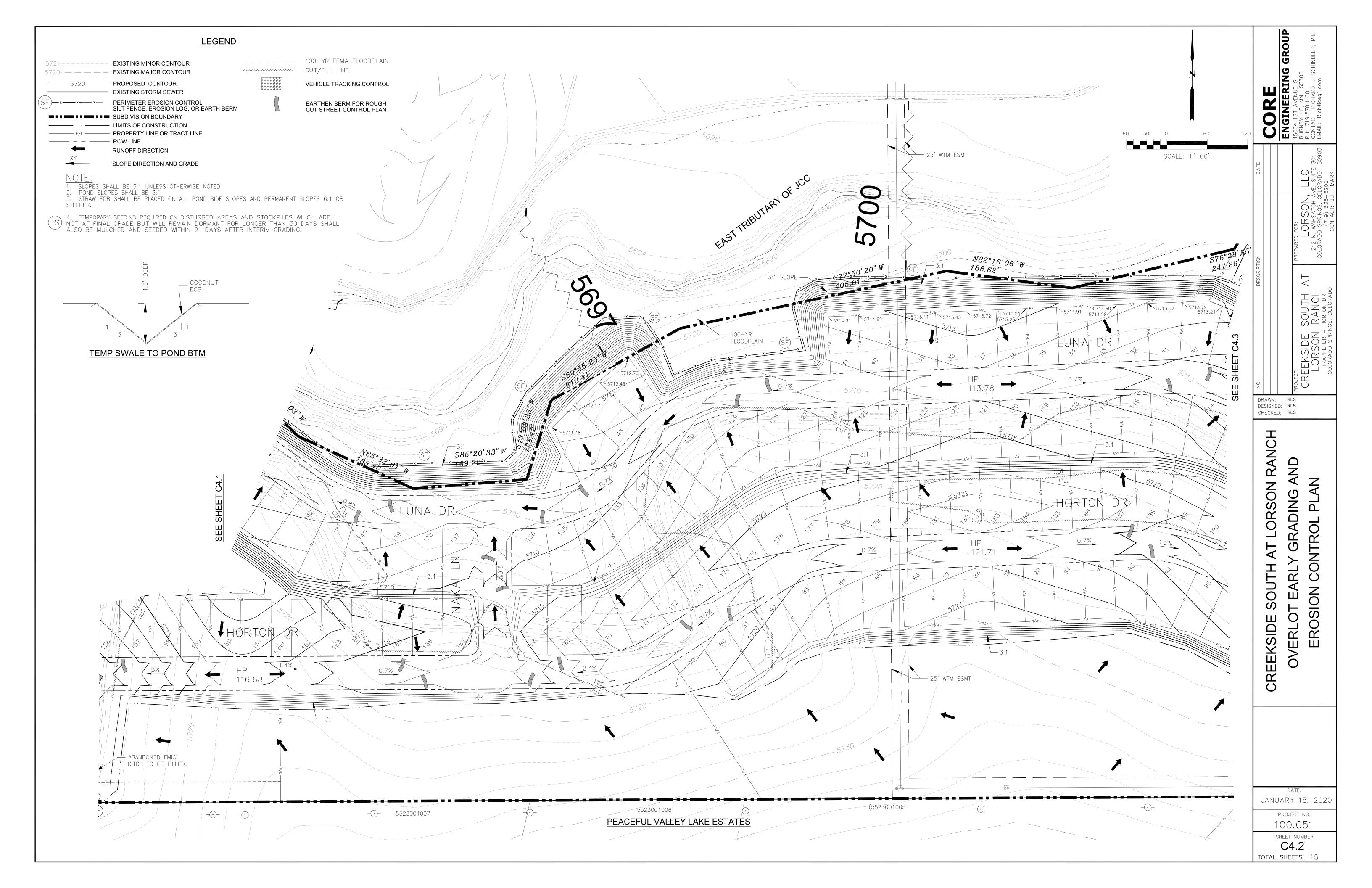
> COLORADO DEPARTMENT OF PUBLIC HEALTH WATER QUALITY CONTROL DIVISION WQCD - PERMITS 4300 CHERRY CREEK DRIVE SOUTH DENVER, CO 80246-1530 ATTN: PERMITS UNIT

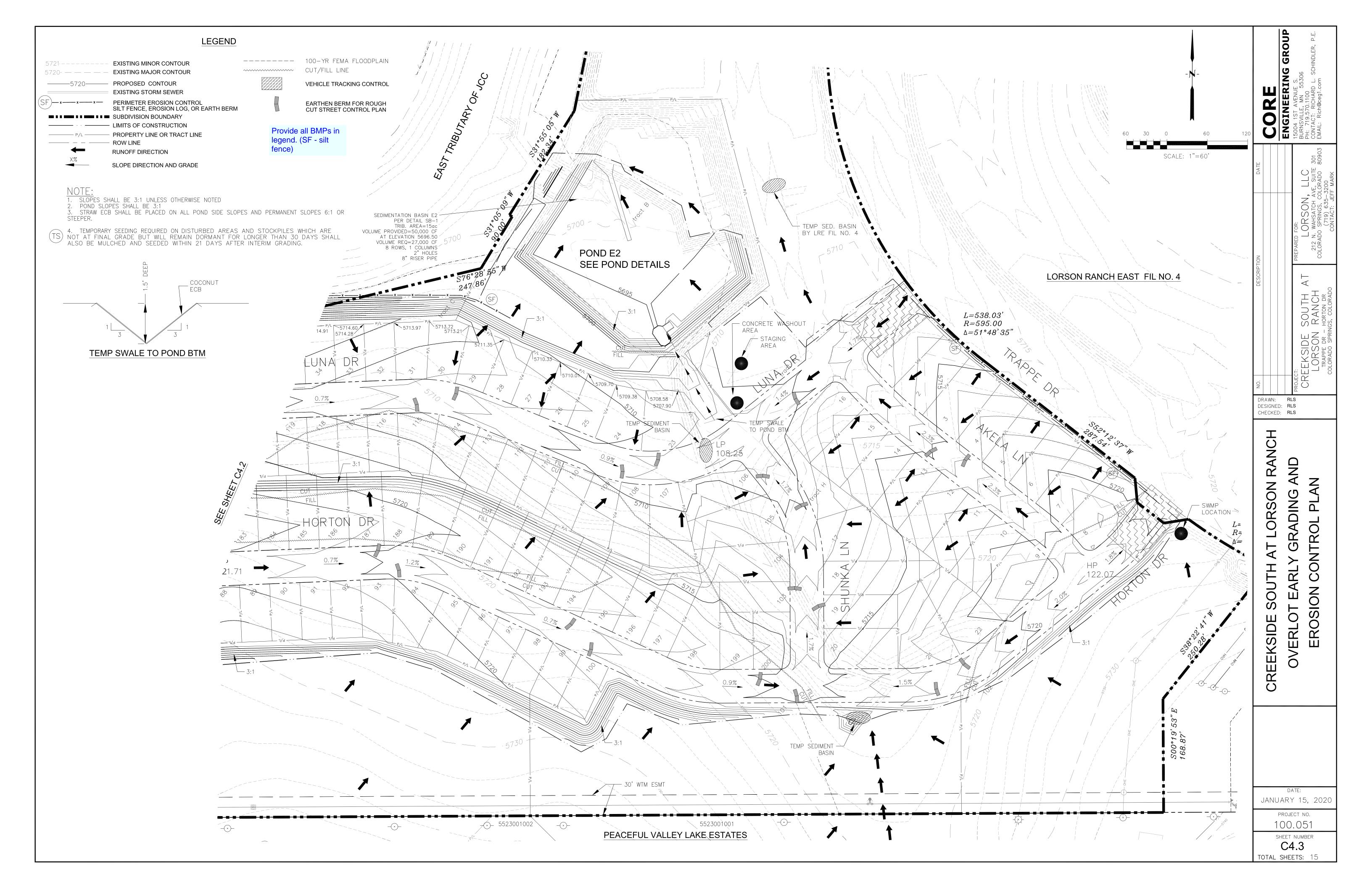
Update notes to match		
GEC Checklist Section 3 GRADING AND EROSION CONTROL PLANS		GROUP NDLER, P.E.
PUCTION PERMIT IS OBTAINED FROM PCD AND A PRECONSTRUCTION		G GRC 6 SCHINDLER,
S SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES ICLUDING WETLANDS.	Ш Ш	EERIN VENUE S. MN 55306 1100 CHARD L. S CCHARD L. S CCHARD L. S
NS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND E RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE A MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA TONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING	COF	ENGINI 15004 1ST A BURNSVILLE, PH: 719.570. CONTACT: RI EMAIL: Rich@
P) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND IED PRIOR TO COMMENCING CONSTRUCTION. DURING CONSTRUCTION THE ORMWATER MANAGER, SHALL BE LOCATED ON SITE AT ALL TIMES AND AND CHANGES IN THE FIELD.	DATE	LLC suite 301 sado 80903 00 mark
OR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL TON MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE TIONS STAFF.		ON, LL TCH AVE, SI SS, COLORA 635-3200 T: JEFF MA
CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE GRADING, OR FINAL EARTH DISTURBANCE, HAS BEEN COMPLETED. AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS ERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM EDED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMPS ON CONTROL MEASURES ARE IMPLEMENTED AND ESTABLISHED.	NO	PREPARED FOR: LORS 212 N. WAHSA COLORADO SPRING (719) CONTAC
BE REMOVED AND EARTH DISTURBANCE AREAS GRADED AND STABILIZED PURSUANT TO STANDARDS AND SPECIFICATION PRESCRIBED IN THE DCM ECM) APPENDIX I.	DESCRIPTIC	
L IMPLEMENT AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENT CE WITH THE EROSION CONTROL TECHNICAL STANDARDS OF THE DRAINAGE NCE WITH THE STORMWATER MANAGEMENT PLAN (SWMP).		DU TH ANCH RTON DR COLORADO
NING BMPS AND ALL PERMANENT FACILITIES INTENDED TO CONTROL SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS, THE SWMP OUT THE DURATION OF THE EARTH DISTURBANCE OPERATION.		DE SC ON R, springs,
SUCH A MANNER SO AS TO EFFECTIVELY REDUCE ACCELERATED SOIL BANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME.		EEKSII LORS colorado
AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, SHALL BE DESIGNED TO LIMIT THE DISCHARGE TO A NON-EROSIVE	O Z	PROJECT: CRE CC
DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL TE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE	DRAWN DESIGN CHECKE	
SLOPES STEEPER THAN 3:1.		
STE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE CCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S MAY ECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.		
RIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL		
VAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.		AN
THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR ATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.	FARL	DL/ DL/
CT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY EQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A ERS, WITH ORIGINAL MANUFACTURER'S LABELS.		
R, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS S GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING THE MONITORING MAY BE REQUIRED.	OVERLOT	GRA NC
CTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS AMATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR		SITE
IWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE		S
TER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE THE REQUIREMENTS INCLUDED IN THE DCM VOLUME II AND THE ECM TAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (NPDES, IT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR Y AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS		
THE AT APPROVED CONSTRUCTION ACCESS POINTS.		
ALL VERIFY THE LOCATION OF EXISTING UTILITIES.		
ING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE		
THE PROVIDENT OF THESE PLANS.		
N OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS RT. FOR INFORMATION OR APPLICATION MATERIALS CONTACT: AND ENVIRONMENT	, <u>a</u> ni	_{date:} UARY 15, 2020
3		PROJECT NO.
2		100.051 Sheet NUMBER
mmmmm		C0.2 SHEETS: 15

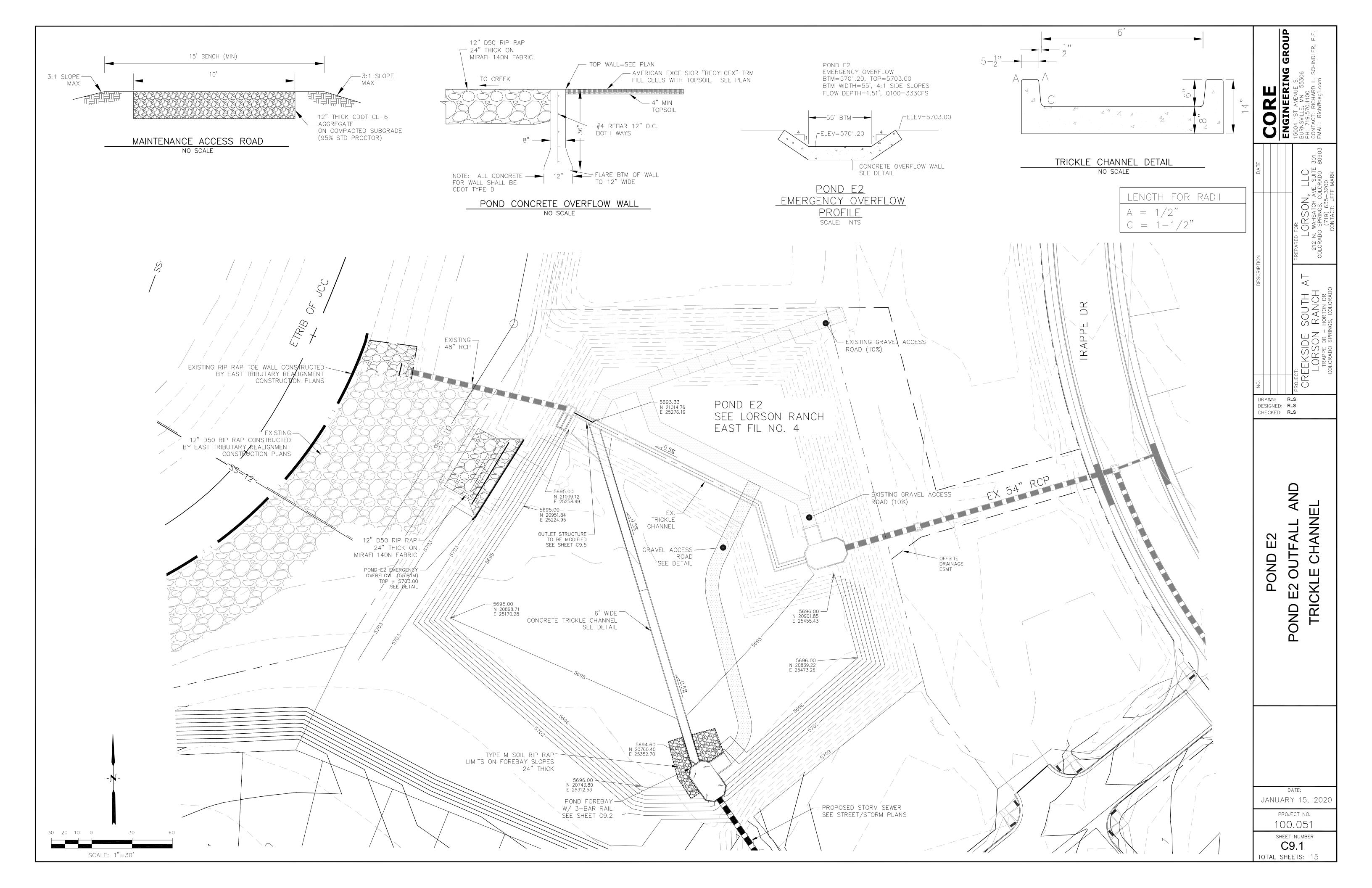


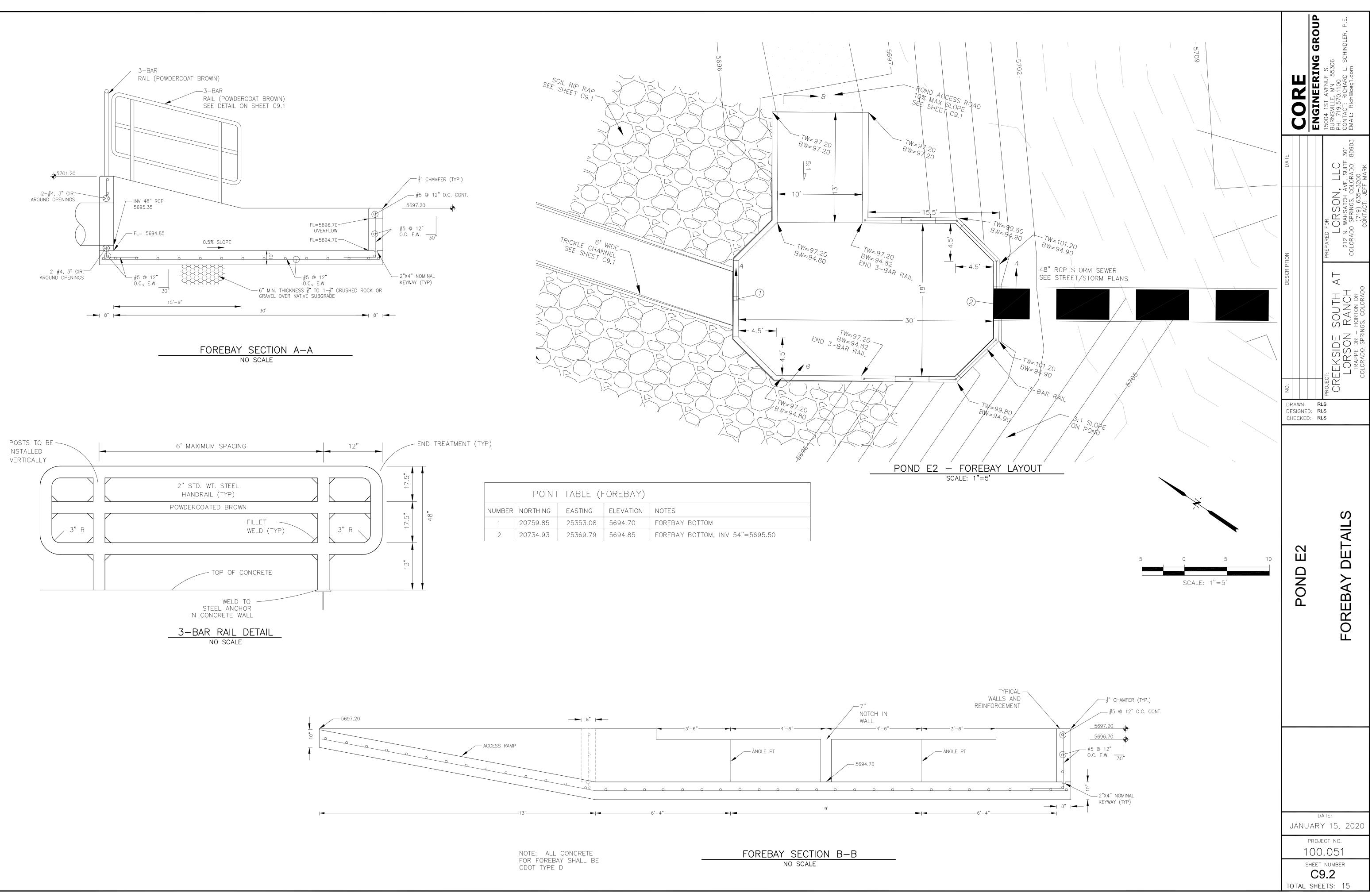
CORE	ENGINEERING GROUP	
DATE	DRFPARED FOR.	LORSON, LLC 212 N. WAHSATCH AVE, SUITE 301 COLORADO SPRINGS, COLORADO 80903 (719) 635-3200 CONTACT: JEFF MARK
DESCRIPTION		EKSIDE SOUTH AT -ORSON RANCH trappe dr - horton dr lorado springs, colorado
DRAWN: DESIGNE CHECKEI		
OVERLOT EARLY	SITE GRADING	TYPICAL ROADWAY SECTIONS
OVE		TYPICAL R

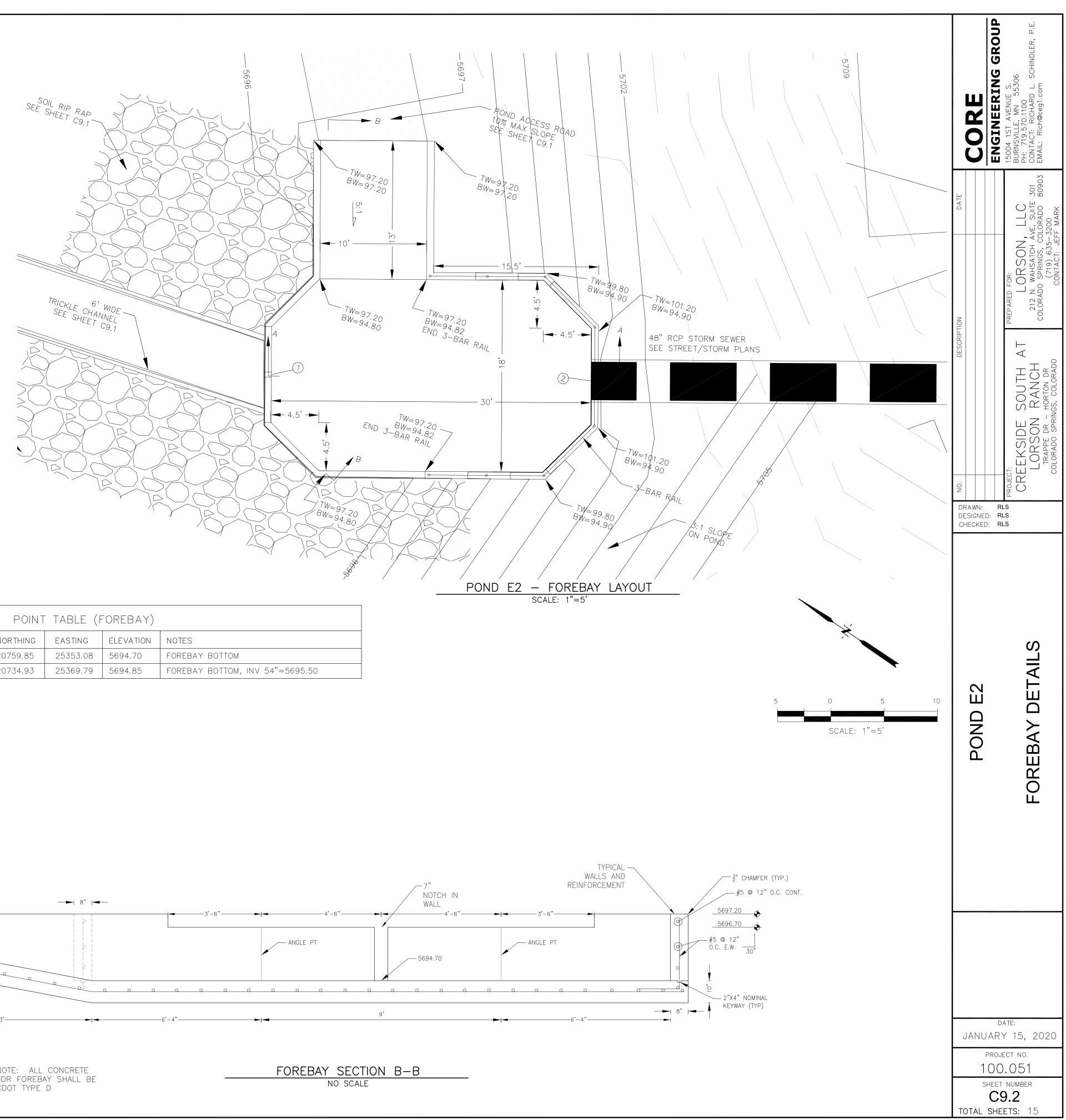




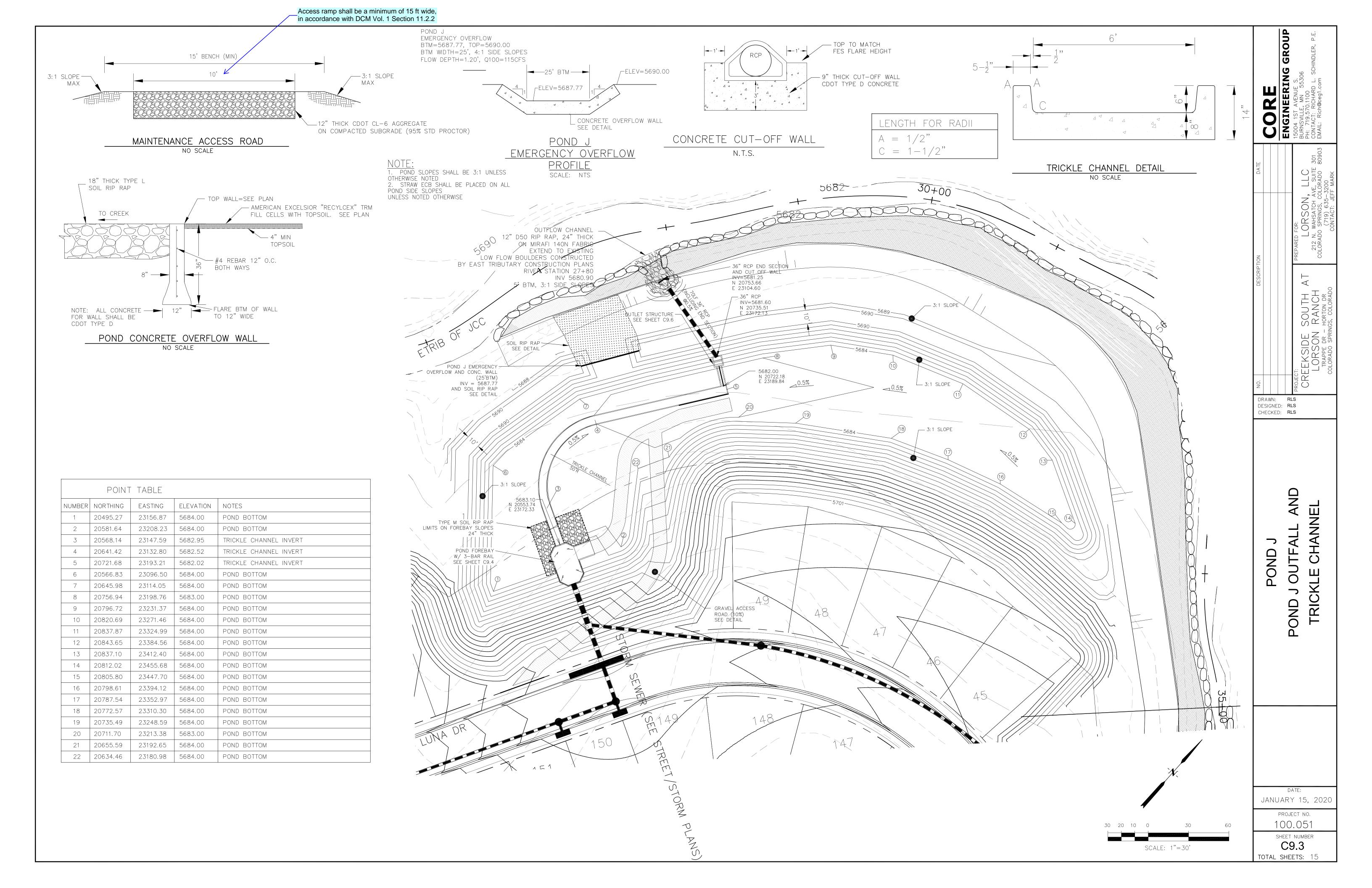


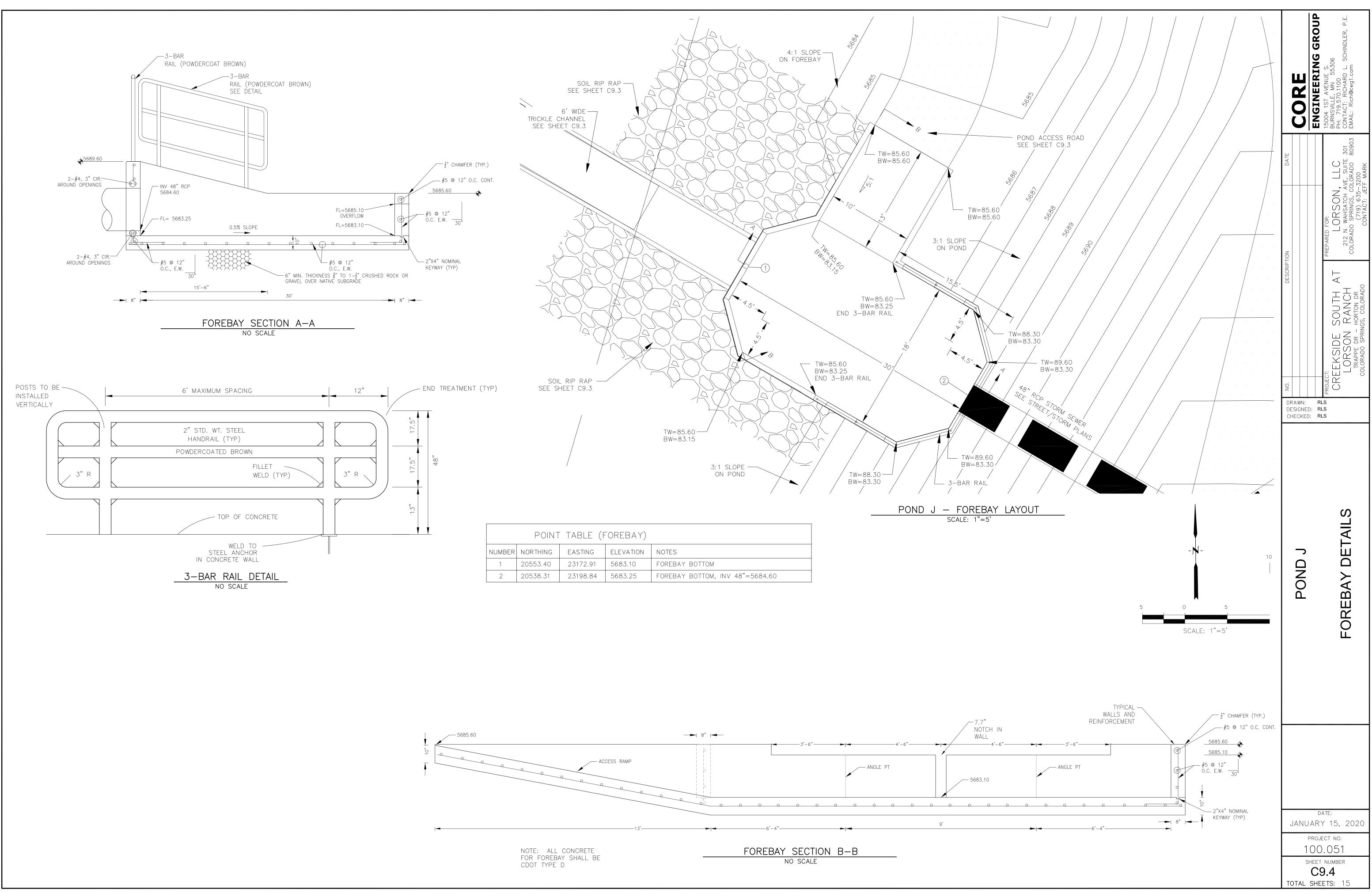




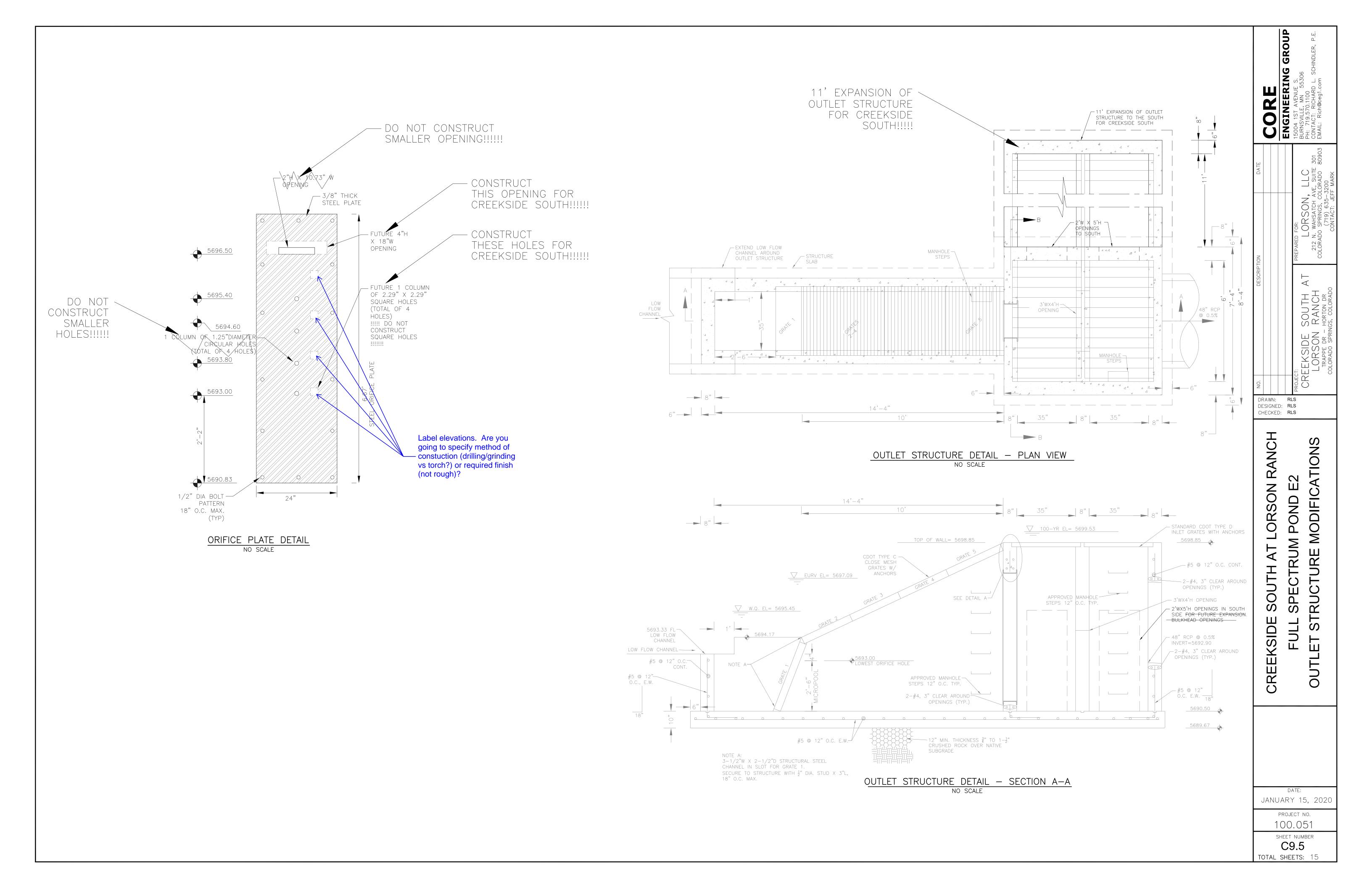


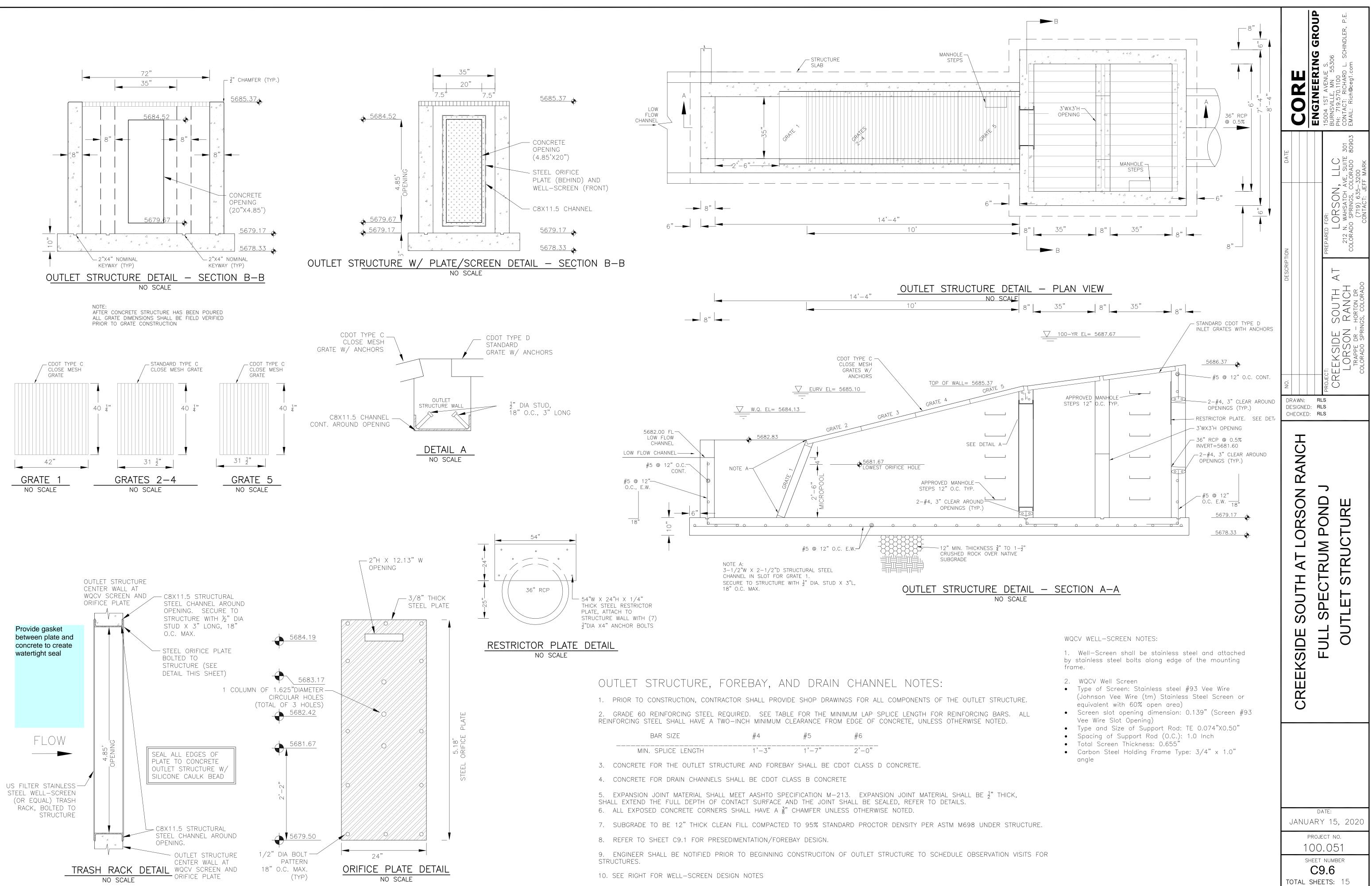
	POINT	TABLE (F	FOREBAY)	
NUMBER	NORTHING	EASTING	ELEVATION	NOTES
1	20759.85	25353.08	5694.70	FOREBAY BOTTOM
2	20734.93	25369.79	5694.85	FOREBAY BOTTOM, INV 54"=5695.50



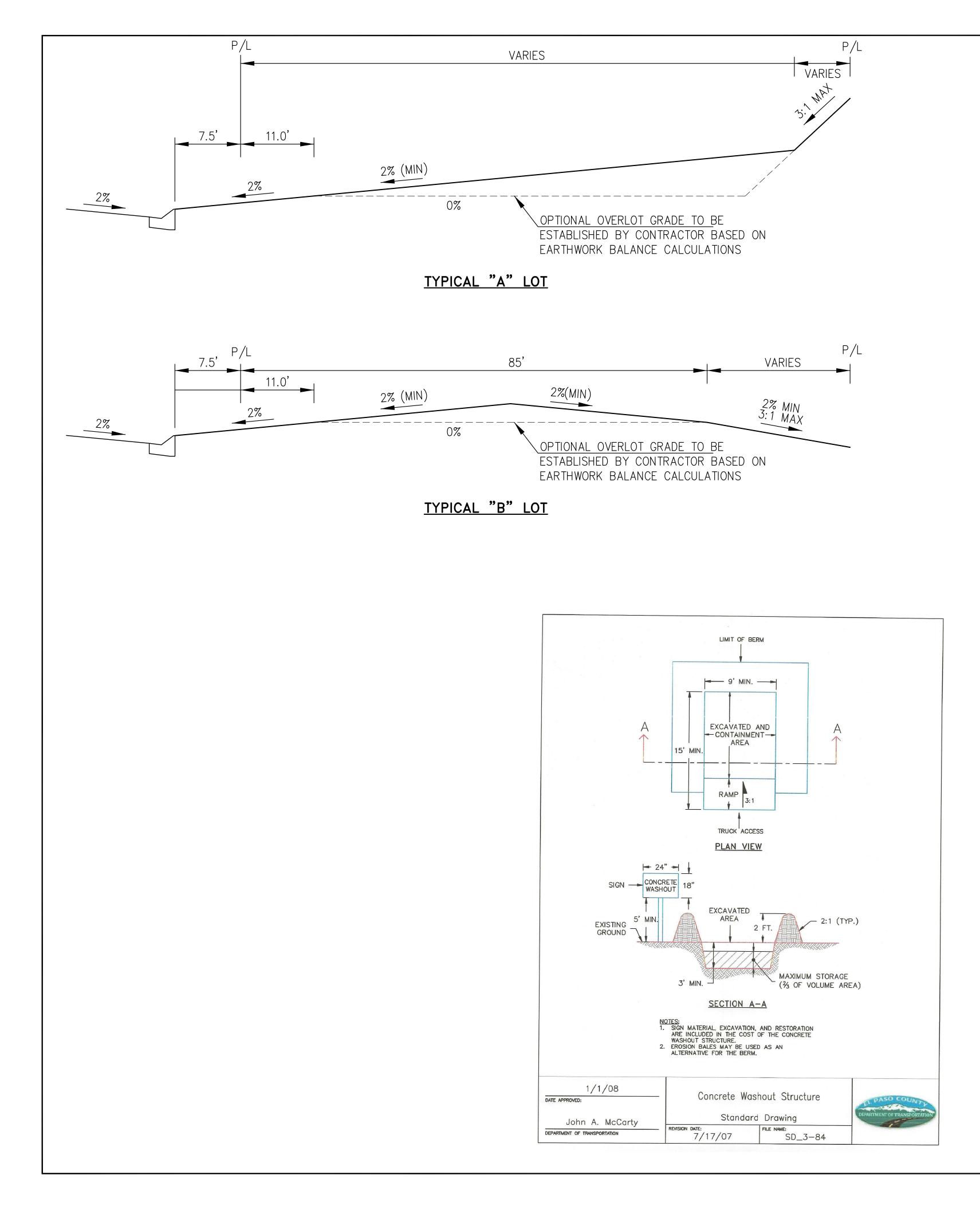


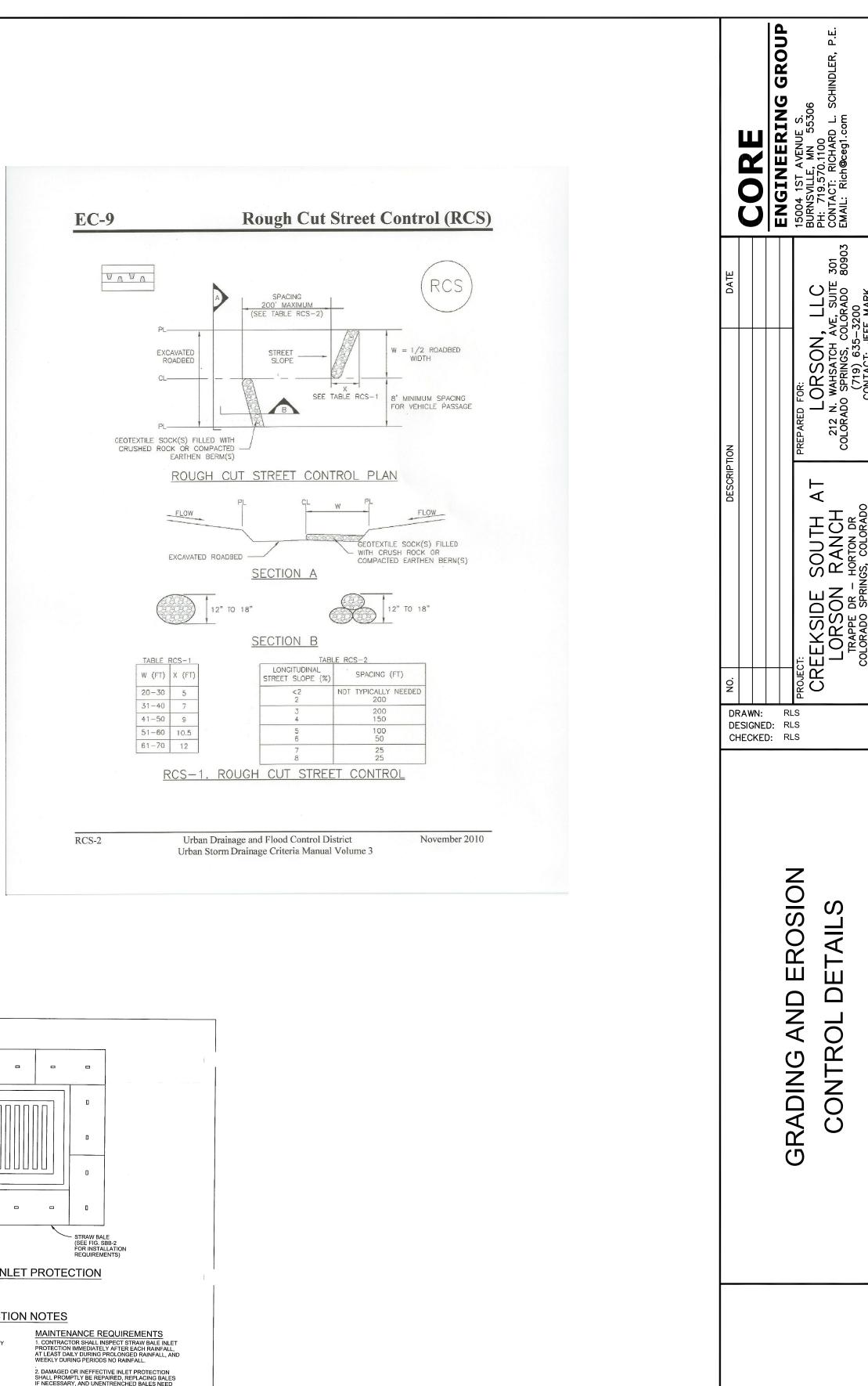
POINT TABLE (FOREBAY)						
NUMBER	NORTHING	EASTING	ELEVATION	NOTES		
1	20553.40	23172.91	5683.10	FOREBAY BOTTOM		
2	20538.31	23198.84	5683.25	FOREBAY BOTTOM, INV 48"=5684.60		





BAR SIZE	#4	#5	#6
MIN. SPLICE LENGTH	1'-3"	1'_7"	2'-0"





DATE: JANUARY 15, 2020

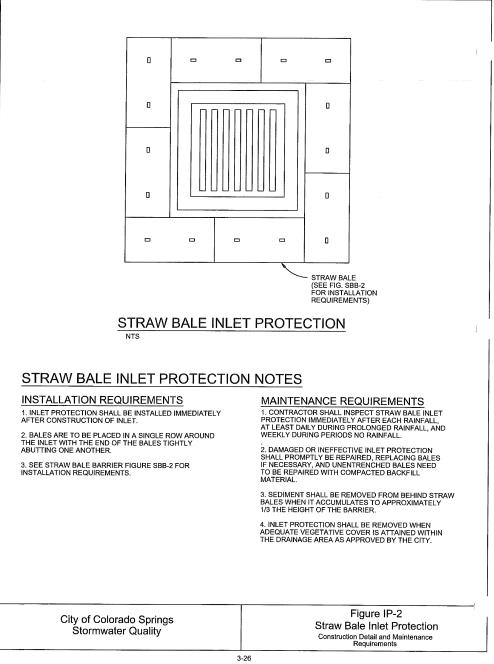
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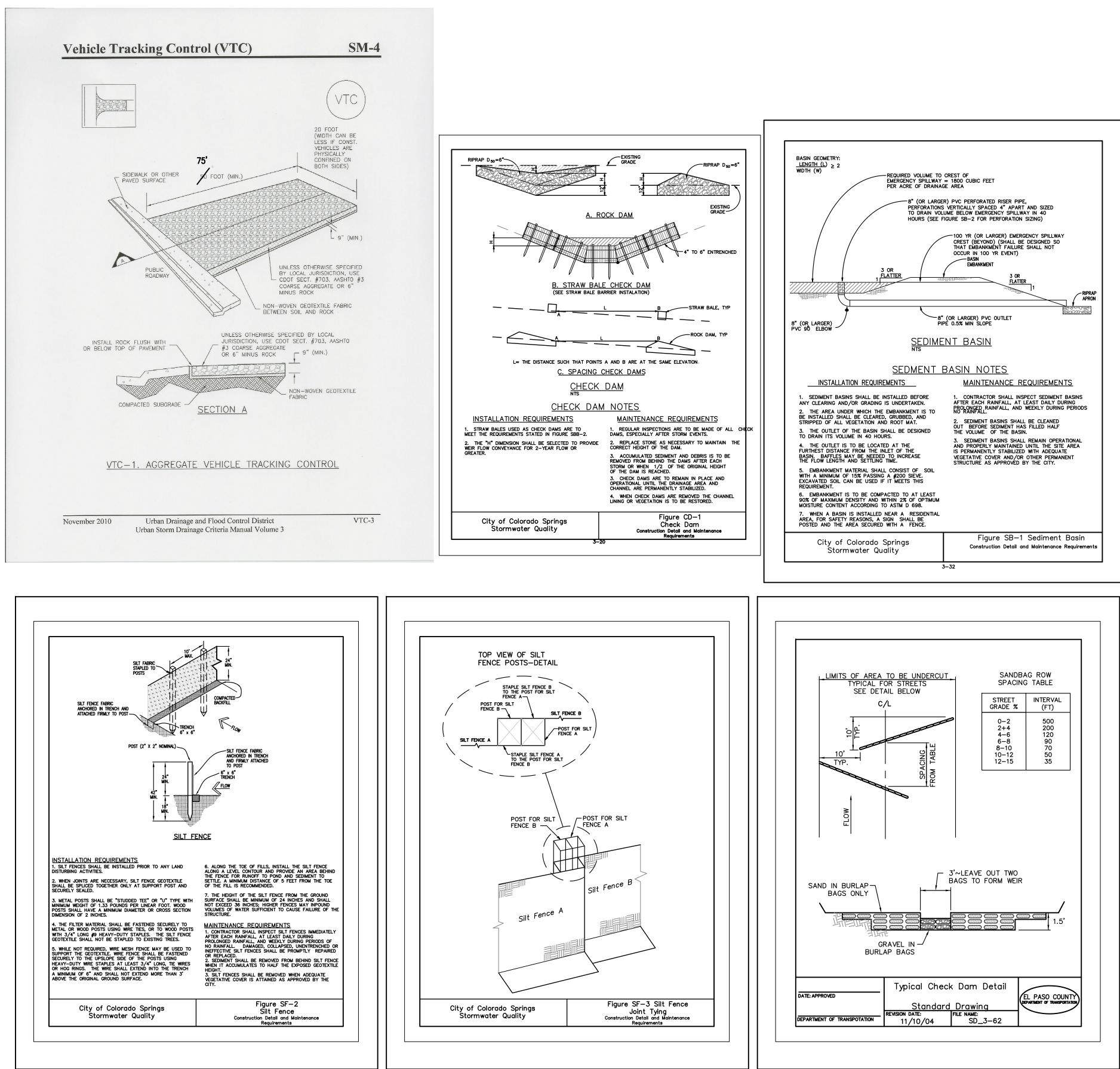
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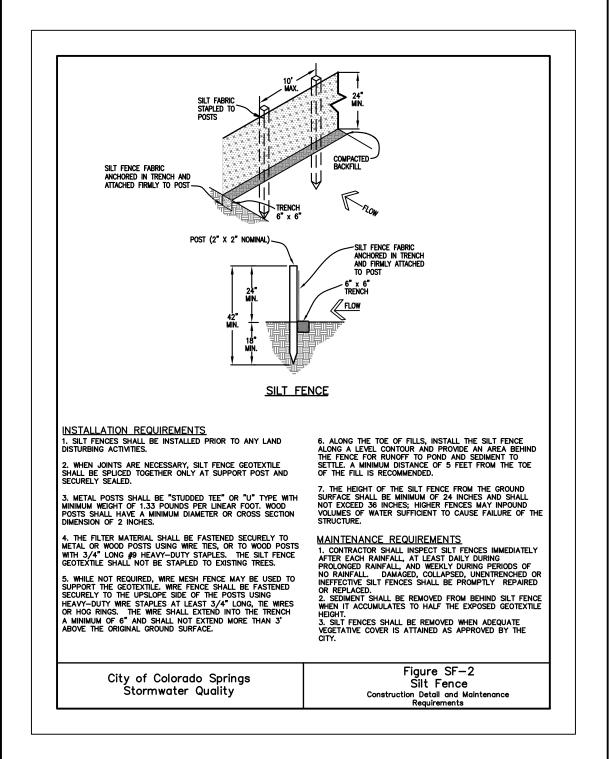
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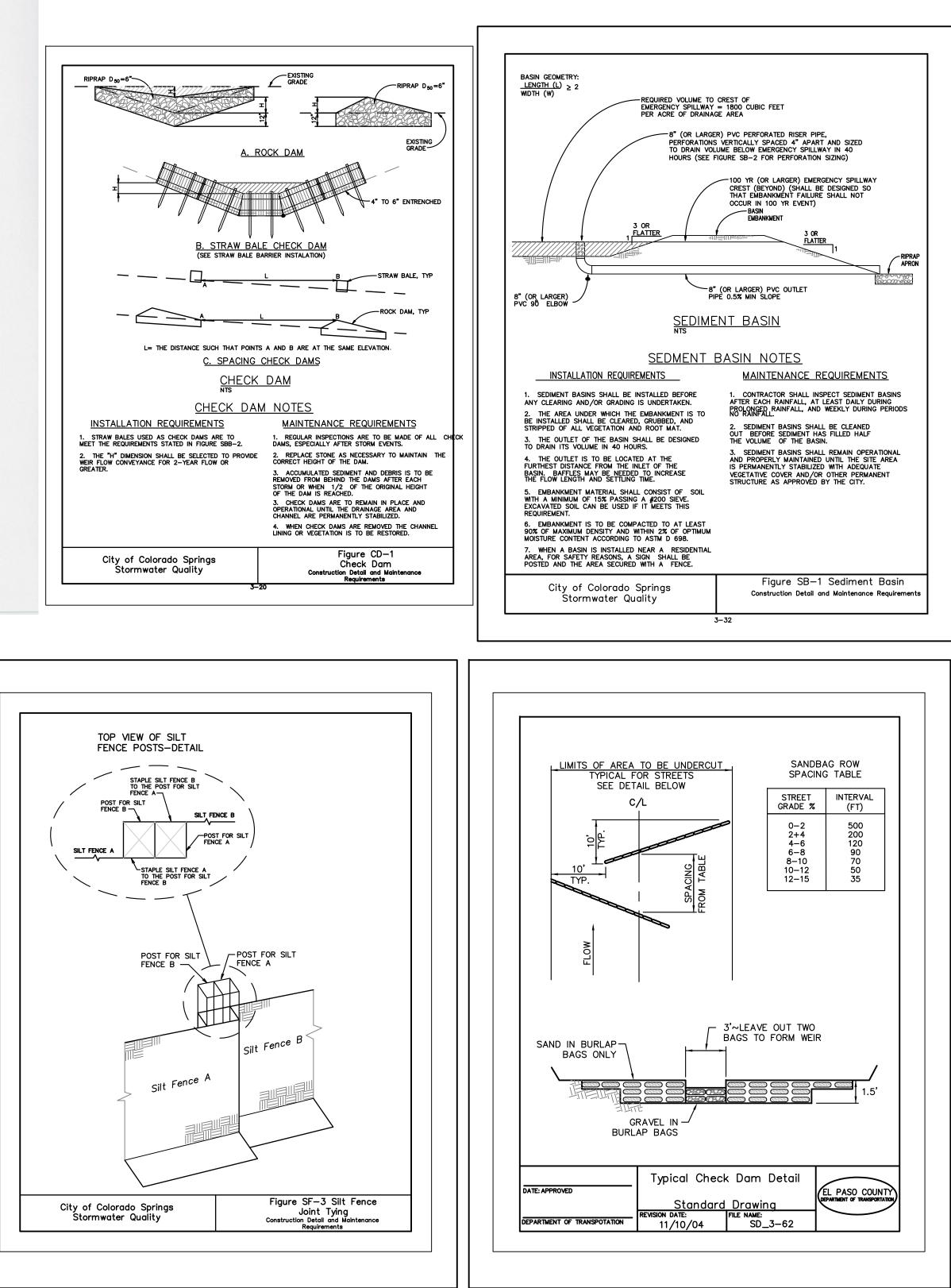
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TOTAL SHEETS: 15

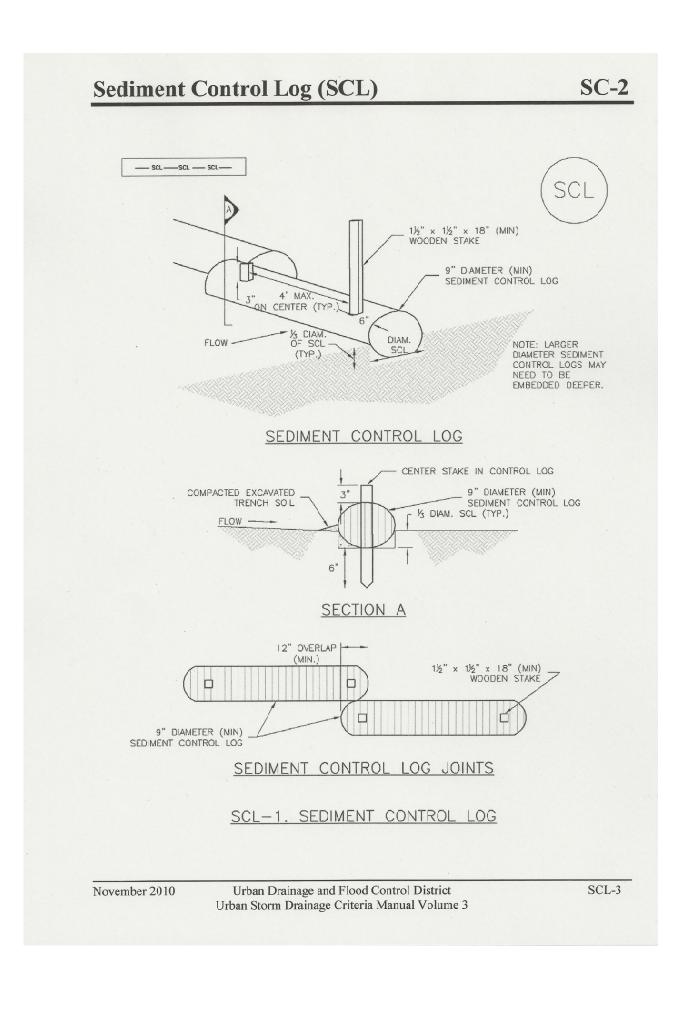


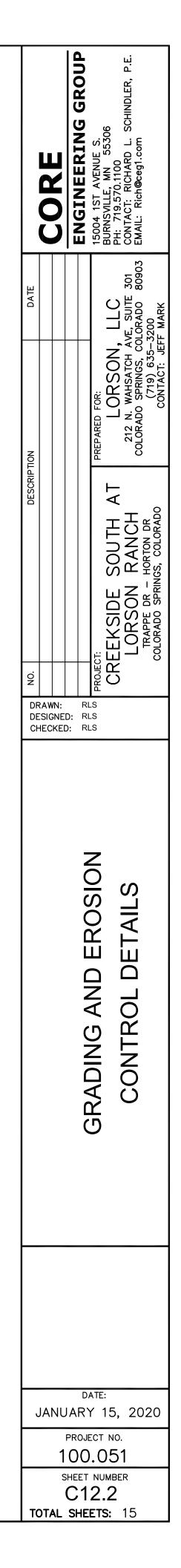






SEED MIX TABLE					
GRASS MIX FOR QUICK REVEGETATION ALI	_ SITES:				
GRASS	VARIETY	AMOUNT IN PLS LBS PER ACRE			
CRESTED WHEAT GRASS PERENNIAL RYE WESTERN WHEAT GRASS SMOOTH BROME GRASS SIDEOATS GRAMA	EPHRAIM OR HYCREST LINN BARTON LINCOLN OR MANCHAR EL RENO	4.0 2.0 3.0 5.0 2.5 TOTAL 16.5 LBS			
GRASS MIX FOR SANDY SOILS:					
GRASS	VARIETY	AMOUNT IN PLS LBS PER ACRE			
SIDEOATS GRAMA WESTERN WHEAT GRASS SLENDER WHEAT GRASS LITTLE BLUESTEM SAND DROPSEED SWITCH GRASS WEEPING LOVE GRASS	EL RENO BARTON NATIVE PASTURA NATIVE NEBRASKA 28 MORPHA	3.0 2.5 2.0 2.0 0.5 3.0 1.0 TOTAL 14.0 LBS			
GRASS MIX FOR HEAVIER SOIL AREAS:					
GRASS	VARIETY	AMOUNT IN PLS LBS PER ACRE			
WESTERN WHEAT GRASS SIDEOATS GRAMA SLENDER WHEAT GRASS SMOOTH BROME CRESTEDWHEAT GRASS	BARTON EL RENO SODAR LINCOLN OR MANCHAR EPHRAIM	5.0 3.0 2.5 4.0 <u>3.0</u> TOTAL 17.5 LBS			





EC-2

Temporary and Permanent Seeding (TS/PS)

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

Common ^a Name	Botanical Name	Growth Season ^b	Growth Form	Seeds/ Pound	Pounds of PLS/acre
Alakali Soil Seed Mix					
Alkali sacaton	Sporobolus airoides	Cool	Bunch	1,750,000	0.25
Basin wildrye	Elymus cinereus	Cool	Bunch	165,000	2.5
Sodar streambank wheatgrass	Agropyron riparium 'Sodar'	Cool	Sod	170,000	2.5
Jose tall wheatgrass	Agropyron elongatum 'Jose'	Cool	Bunch	79.000	7.0
Arriba western wheatgrass	Agropyron smithii 'Arriba'	Cool	Sod	110,000	
Total			500	110,000	5.5
Fertile Loamy Soil Seed Mix				1	17.75
Ephriam crested wheatgrass	Agropyron cristatum 'Ephriam'	Cool	Sod	175,000	2.0
Dural hard fescue	Festuca ovina 'duriuscula'	Cool	Bunch	565,000	1.0
Lincoln smooth brome	Bromus inermis leyss 'Lincoln'	Cool	Sod	130,000	3.0
Sodar streambank wheatgrass	Agropyron riparium 'Sodar'	Cool	Sod	170.000	2.5
Arriba western wheatgrass	Agropyron smithii 'Arriba'	Cool	Sod	110,000	7.0
Total					15.5
High Water Table Soil Seed Mix	κ				15.5
Meadow foxtail	Alopecurus pratensis	Cool	Sod	900,000	0.5
Redtop	Agrostis alba	Warm	Open sod	5,000,000	0.25
Reed canarygrass	Phalaris arundinacea	Cool	Sod	68,000	0.23
Lincoln smooth brome	Bromus inermis leyss 'Lincoln'	Cool	Sod	130,000	3.0
Pathfinder switchgrass	Panicum virgatum 'Pathfinder'	Warm	Sod	389,000	1.0
Alkar tall wheatgrass	Agropyron elongatum 'Alkar'	Cool	Bunch	79,000	5.5
Fotal					10.75
Fransition Turf Seed Mix ^c					10.75
Ruebens Canadian bluegrass	Poa compressa 'Ruebens'	Cool	Sod	2,500,000	0.5
Dural hard fescue	Festuca ovina 'duriuscula'	Cool	Bunch	565,000	1.0
litation perennial ryegrass	Lolium perenne 'Citation'	Cool	Sod	247,000	3.0
incoln smooth brome	Bromus inermis leyss 'Lincoln'	Cool	Sod	130,000	3.0
Total					7.5

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

Common Name	Botanical Name	Growth Season ^b	Growth Form	Seeds/ Pound	Pounds of PLS/acre
Sandy Soil Seed Mix					
Blue grama	Bouteloua gracilis	Warm	Sod-forming bunchgrass	825,000	0.5
Camper little bluestem	Schizachyrium scoparium 'Camper'	Warm	Bunch	240,000	1.0
Prairie sandreed	Calamovilfa longifolia	Warm	Open sod	274,000	1.0
Sand dropseed	Sporobolus cryptandrus	Cool	Bunch	5,298,000	0.25
Vaughn sideoats grama	Bouteloua curtipendula 'Vaughn'	Warm	Sod	191,000	2.0
Arriba western wheatgrass	Agropyron smithii 'Arriba'	Cool	Sod	110,000	5.5
Total					10.25
Heavy Clay, Rocky Foothill Seed	Mix		L		
Ephriam crested wheatgrass ^d	Agropyron cristatum 'Ephriam'	Cool	Sod	175,000	1.5
Oahe Intermediate wheatgrass	Agropyron intermedium 'Oahe'	Cool	Sod	115,000	5.5
Vaughn sideoats grama ^e	Bouteloua curtipendula 'Vaughn'	Warm	Sod	191,000	2.0
Lincoln smooth brome	Bromus inermis leyss 'Lincoln'	Cool	Sod	130,000	3.0
Arriba western wheatgrass	Agropyron smithii 'Arriba'	Cool	Sod	110,000	5.5
Fotal					175
All of the above seeding mixes and doubled if seed is broadcast and s through hydraulic seeding. Hydr hydraulic seeding is used, hydrau See Table TS/PS-3 for seeding da If site is to be irrigated, the transi Crested wheatgrass should not be Can substitute 0.5 lbs PLS of blue	tion turf seed rates should be doul used on slopes steeper than 6H to	for drilling only separate operated bled.	is done using a B y where slopes ar tion.		

June 2012

TS/PS-4

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Urban Drainage and Flood Control District

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

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

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

Species ^a (Common name)	Growth Season ^b	Pounds of Pure Live Seed (PLS)/acre ^c	Planting Depth (inches)				
1. Oats	Cool	35 - 50	1 - 2				
2. Spring wheat	Cool	25 - 35	1 - 2				
3. Spring barley	Cool	25 - 35	1 - 2				
4. Annual ryegrass	Cool	10 - 15	1/2				
 5. Millet	Warm	3 - 15	$\frac{1}{2} - \frac{3}{4}$				
6. Sudangrass	Warm	5-10	$\frac{1}{2} - \frac{3}{4}$				
7. Sorghum	Warm	5-10	$\frac{1}{2} - \frac{3}{4}$				
8. Winter wheat	Cool	20-35	1 - 2				
9. Winter barley	Cool	20-35	1 - 2				
10. Winter rye	Cool	20-35	1 - 2				
11. Triticale	Cool	25-40	1 - 2				
Successful seeding of annual grass resulting in adequate plant growth will usually produce enough dead-plant residue to provide protection from wind and water erosion for an additional year. This assumes that the cove is not disturbed or mowed closer than 8 inches. Hydraulic seeding may be substituted for drilling only where slopes are steeper than 3:1 or where access limitations exist. When hydraulic seeding is used, hydraulic mulching should be applied as a separate operation, when practical, to prevent the seeds from being encapsulated in the mulch.							
See Table TS/PS-3 for seedi may extend the use of cool s	ing dates. Irr season specie	igation, if consistently s during the summer r	applied,				
Seeding rates should be doubled if seed is broadcast, or increased by 50 percent if done using a Brillion Drill or by hydraulic seeding.							

EC-2

Seeding Dates January 1–Marcl March 16-April May 1–May 15

Mulch

also be necessary.

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TS/PS-3

TS/PS-6

Temporary and Permanent Seeding (TS/PS)

Table TS/PS-3. Seeding Dates for Annual and Perennial Grasses

	(Numbers in	l Grasses table reference 'able TS/PS-1)	Perennial Grasses	
Seeding Dates	Warm	Cool	Warm	Cool
January 1–March 15			✓	
March 16–April 30	4	1,2,3	✓	1
May 1–May 15	4		~	
May 16–June 30	4,5,6,7			
July 1–July 15	5,6,7			
July 16–August 31				
September 1-September 30		8,9,10,11		
October 1–December 31		,,,		

Cover seeded areas with mulch or an appropriate rolled erosion control product to promote establishment of vegetation. Anchor mulch by crimping, netting or use of a non-toxic tackifier. See the Mulching BMP Fact Sheet for additional guidance.

Maintenance and Removal

Monitor and observe seeded areas to identify areas of poor growth or areas that fail to germinate. Reseed and mulch these areas, as needed.

An area that has been permanently seeded should have a good stand of vegetation within one growing season if irrigated and within three growing seasons without irrigation in Colorado. Reseed portions of the site that fail to germinate or remain bare after the first growing season.

Seeded areas may require irrigation, particularly during extended dry periods. Targeted weed control may

Protect seeded areas from construction equipment and vehicle access.

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June 2012

	CORE	ENGINEERING GROUP	15004 1ST AVENUE S.		CONTACT: RICHARD L. SCHINDLER, P.E. EMAIL: Rich@ceg1.com	
TION			PREPARED FOR:	LORSON, LLC	212 N. WAHSATCH AVE, SUITE 301 COLORADO SPRINGS, COLORADO 80903	(719) 635–3200 CONTACT: JEFF MARK
NO. DESCRIPTION			PROJECT:	CREEKSIDE SOUTH AT	LORSON RANCH	TRAPPE DR – HORTON DR COLORADO SPRINGS, COLORADO
DE	AWN: ESIGNED HECKED): RI	S		CONTROL DETAILS	
	1 s	PROJE	ECT .(NL	15, NO.)5 ЛМВЕ .3	1 R	20