# **CITY OF COLORADO SPRINGS PUBLIC PERMANENT CONTROL MEASURE PLANS** FAIRFAX FULL SPECTRUM DETENTION AND WATER QUALITY POND BID SET (100%) - APRIL 2023

#### ENGINEER'S STATEMENT

THIS PERMANENT CONTROL MEASURE (PCM) PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION, WAS DESIGNED IN ACCORDANCE WITH THE CITY OF COLORADO SPRINGS DRAINAGE CRITERIA MANUAL (MAY 2014), AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS. ERROR OR OMISSIONS ON MY PART IN PREPARTION OF THIS PERMANENT anno CONTROL MEASURE PLAN.



KEVAN P. KUHNEL EMAIL: KEVAN.KUHNEL@FHUENG.COM

#### Comments CITY OF COLORADO SPRINGS STATEMENT:

FILED IN ACCORDANCE WITH SECTION 7.7.906 OF THE CODE OF THE CITY OF COLORADO SPRINGS, 2001, AS AMENDED.

05/05/2023

FOR CITY ENGINEER Heidi McMacken

CONDITIONS:

INN,

PROJECT MANAGER

#### DATE:

#### CITY PROJECT MANAGER'S STATEMENT

I HEREBY CERTIFY THAT THE PERMANENT CONTROL MEASURES FOR THE FAIRFAX FULL SPECTRUM DETENTION AND WATER QUALITY POND SHALL BE CONSTRUCTED ACCORDING TO THE DESIGN IN THIS PERMANENT CONTROL MEASURE (PCM) PLAN. I FURTHER UNDERSTAND THAT FIELD CHANGES MUST BE REVIEWED BY THE SWENT REVIEW ENGINEER TO ENSURE CONFORMANCE WITH THE ORIGINAL DESIGN INTENT. I AM EMPLOYED BY AND PERFORM ENGINEERING SERVICES SOLELY FOR THE CITY OF COLORADO SPRINGS, AND THEREFORE AM EXCEPT FROM COLORADO REVISED STATUTE TITLE 12. ARTICLE 25, PART 1 ACCORDING TO § 12-25-103(1), CRS.

Adam Copper 04-26-2023 PROJECT LOCATION MAP NOTES: DATE:

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FAIRFAX POND **RESEARCH PARKWAY** FAIRFAX CREEK

#### SHEET NO. 1 2 3 4 5 - 8 9 10 - 16 17 - 20 21 - 26 27 - 28 29 - 40 41 42 - 47 48 - 57

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#### **INDEX OF SHEETS**

TITLE SHEET GENERAL NOTES SUMMARY OF APPROXIMATE QUANTITIES TABULATIONS SURVEY CONTROL DIAGRAM REMOVAL PLAN GEOMETRIC CONTROL UTILITY PLANS POND ACCESS PLAN AND PROFILES POND PLANS POND DETAILS POND SIGN DETAILS SWMP PLANS GEC KEYMAP AND PLANS

APPROVED BY:

RCES ENGINEERING:

DATE

1. FEMA FLOOD INSURANCE PROGRAM DATA FOR THE PROJECT WAS PULLED

- ALL CONSTRUCTION SHALL BE COMPLETED PER THE CITY OF COLORADO SPRINGS STANDARDS AND SPECIFICATIONS. IN ADDITION, PER THE COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD PLANS AND SPECIFICATIONS WHEN SPECIFICALLY REFERENCED IN THE CONTRACT DOCUMENTS.
- ALL AREAS WITHIN THE CONSTRUCTION LIMITS SHALL BE CLEARED AND GRUBBED. CLEARING AND GRUBBING SHALL INCLUDE 2. REMOVAL AND DISPOSAL OF TRASH, DEBRIS, LARGE ROCKS, TREES, TREE STUMPS, BUSHES, LANDSCAPING, ETC. UNLESS SPECIFICALLY DESIGNATED TO REMAIN.
- THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES ARE DEPICTED 3 IN ACCORDANCE WITH THEIR ACHIEVED "QUALITY LEVELS" AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEERS DOCUMENT ASCE 38, "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA THE CONTRACTOR'S ATTENTION IS DIRECTED TO SUBSECTION 105.11 OF THE CODT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." THE CONTRACTOR SHALL DETERMINE THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL COMPLY WITH ARTICLE 1.5 OF TITLE 9. CRS ("EXCAVATION REQUIREMENTS") WHEN EXCAVATING OR GRADING IS PLANNED IN THE AREA OF UNDERGROUND UTILITY FACILITIES. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITIES AT LEAST TWO (2) BUSINESS DAYS, NOT INCLUDING THE ACTUAL DAY OF NOTICE, PRIOR TO COMMENCING SUCH OPERATIONS. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811 OR 1-800-922-1987, TO HAVE LOCATIONS OF UNCC REGISTERED LINES MARKED BY MEMBER COMPANIES. ALL OTHER UNDERGROUND FACILITIES SHALL BE LOCATED BY CONTACTING THE RESPECTIVE OWNER. UTILITY SERVICE LATERALS SHALL ALSO BE LOCATED PRIOR TO BEGINNING EXCAVATION OR GRADING. THE CONTRACTOR SHALL LOCATE NON-MEMBER UTILITIES, SUCH AS STORM SEWER AND DITCH FACILITIES AS NECESSARY TO PREVENT DAMAGE THERETO.
- THE CONTRACTOR SHALL NOT PARK ANY VEHICLES OR EQUIPMENT IN, OR DISTURB ANY AREAS NOT APPROVED BY THE 4. ENGINEER.
- WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER. 5. WATER FOR A DUST PALLIATIVE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK. CONTAMINATED GROUNDWATER CAN NOT BE USED AS A DUST PALLIATIVE.
- ALL SAW, SANDBLASTING, ABRASIVE WATER BLASTING, AND JET CUTTING RESIDUE MATERIAL SHALL BE PROPERLY CONTAINED. 6. COLLECTED, AND DISPOSED OF AND SHALL NOT RUN OFF INTO WATERS OF THE STATE, THROUGH INLETS, STORM DRAINS, AND VEGETATIVÉ SWALES OR BY ANY OTHER MEANS. REMOVAL OF RESIDUE SHALL BE ON Á DAILY BASIS AND SHALL CONFORM TO 107.25 AND M-STD. 208 AND IS INCLUDED IN THE COST OF THE WORK.
- EROSION/SEDIMENT CONTROL MEASURES MUST BE IMPLEMENTED BEFORE CONSTRUCTION AND GRADING OPERATIONS BEGIN. ALL 7. ERDSIDN/SEDIMENT PERMANENT CONTROL MEASURES SHALL BE PLACED AS NEEDED ACCORDING TO THE GRADING AND ERDSIDN CONTROL PLANS AND AS APPROVED BY THE ENGINEER. ALL EROSION/SEDIMENT CONTROL AND STORMWATER RESPONSIBILITIES ARE AS STATED IN THE STORMWATER MANAGEMENT PLAN, CDOT SPECIFICATIONS 101, 107, 208, 212, 213, 214, AND 216 SHALL BE FOLLOWED OR AMENDED.
- THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE. LIMITS OF 8. DISTURBANCE SHALL BE DETERMINED BY THE ENGINEER AND THE CONTRACTOR. ANY DISTURBANCES BEYOND THESE LIMITS SHALL BE RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. DISTURBANCES WITHIN THE LIMITS SHALL BE RESTORED BY THE CONTRACTOR AND SHALL BE INCLUDED IN THE COST OF WORK. CONSTRUCTION ACTIVITIES IN ADDITION TO NORMAL CONSTRUCTION PROCEDURE SHALL INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER, AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS. ANY OFF ROAD STAGING AREAS MUST BE PRE-APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM WATER AT ALL TIMES. AREAS AND FACILITIES 9. SUBJECTED TO FLOODING, REGARDLESS OF THE SOURCE OF WATER, SHALL BE PROMPTLY DEWATERED AND RESTORED AT NO COST TO THE OWNER.
- 10. THE CONTRACTOR SHALL OBTAIN A COLORADO DISCHARGE PERMIT SYSTEM STORMWATER CONSTRUCTION PERMIT (CDPS-SCP). ALL PERMIT REQUIREMENTS SHALL BE ADHERED TO BY THE CONTRACTOR.
- TOPSOIL SHALL BE OBTAINED FROM THE CONTRACTOR'S SOURCE APPROVED BY THE ENGINEER. TOPSOIL SHALL BE TREATED 11. WITH AN HERBICIDE APPLICATION AFTER PLACEMENT AND BEFORE NATIVE SEEDING BY A LICENSED HERBICIDE APPLICATOR. PLACEMENT SHALL NOT OCCUR UNTIL SLOPES THAT TOPSOIL IS BEING PLACED ON HAVE BEEN APPROVED BY THE ENGINEER. STOCKPILING TOPSOIL SHALL BE INCLUDED IN THE COST OF TOPSOIL AND WILL NOT BE PAID FOR SEPARATELY.
- 12. EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL BE CONSIDERED AS SUBSIDIARY TO THAT OPERATION AND WILL NOT BE PAID FOR SEPARATELY.
- ALL COMPACTION SHALL BE PER SECTION 203 OF THE 2022 CDDT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE 13. CONSTRUCTION AS MODIFIED BY REVISIONS OF SECTIONS 203, 206, 304, AND 613-COMPACTION STANDARD SPECIAL PROVISION OR AS DIRECTED BY THE ENGINEER. THE TYPE OF COMPACTION FOR THIS PROJECT WILL BE AASHTO T-99.
- 14. TO PROVIDE FOR ADEQUATE SULFATE RESISTANCE IN ALL CONCRETE SUPPLIED FOR THIS PROJECT, SEVERITY OF POTENTIAL EXPOSURE IS CLASS 2. THE CONTRACTOR MAY, AT HIS OWN EXPENSE, HAVE A CERTIFIED LABORATORY TEST THE SUBGRADE AS PER THE CDOT FIELD MATERIALS MANUAL TESTING SHALL BE THE SAME SCHEDULE AND FREQUENCY AS REQUIRED FOR A PRELIMINARY SOILS SURVEY. THE CONTRACTOR MAY PROPOSE A DIFFERENT CLASS OF EXPOSURE FOR THE PROJECT BASED ON THOSE TEST RESULTS.

- 15. ANY PERSON WHO KNOWINGLY REMOVES, ALTERS, OR DEFACES ANY PUBLIC LAND SURVEY MONUMENT AND/OR BOUNDARY
- 16. ALL STATIONS AND OFFSETS SHOWN ON THE PLANS ARE TO THE CONTROL LINES, UNLESS OTHERWISE NOTED. THE USE OF IS PROHIBITED, AND USE OF SUCH MONUMENTS IS AT THE CONTRACTOR'S SOLE RISK.
- CONTRACTOR
- 18. CONSTRUCTION VEHICLES SHALL ACCESS THE PROJECT FROM PUBLIC PROPERTY, NOT ADJACENT PRIVATE PROPERTIES.
- THIS PROJECT WILL REQUIRE LIMITED WORK IN FAIRFAX CREEK THAT IS WITHIN WETLANDS. THE LIMITS OF IMPACTS 19. PERMIT ISSUED FOR THIS PROJECT. SEE PERMIT, PLANS, AND SPECIFICATIONS FOR COMPLETE REQUIREMENTS
- 20. JOINT MATERIAL, STRUCTURAL BACKFILL (CLASS 1), COMPACTION AND GRADING SHALL BE INCLUDED IN THE COST OF THE WORK.
- 21. REINFORCING STEEL QUANTIFIED AT 200 LBS/CY OF CONCRETE CLASS D (WALL).
- 22. STRUCTURE BACKFILL (CLASS 1) (TYP.) COMPACTED TO 95% RELATIVE COMPACTION (AASHTO T99).
- 23. EXISTING AND PROPOSED VEGETATION BEYOND THE LIMITS OF PROPOSED DISTURBANCE SHALL REMAIN UNIMPACTED BY CONSTRUCTION ACTIVITY.
- 24. SEE SWMP AND GEC PLAN SET FOR PROPOSED SEEDING LOCATIONS AND SEED MIX INFORMATION.

#### STANDARD PERMANENT CONTROL MEASURE (PCM) NOTES:

- 25. NO CLEANING, GRADING, EXCAVATION, FILLING, OR OTHER LAND DISTURBING ACTIVITIES SHALL BE PERMITTED PRIOR TO CRITERIA MANUAL (DCM) VOLUME 2, CHAPTER 7 FOR MORE INFORMATION.
- 26. ANY LAND DISTURBANCE BY ANY OWNER, DEVELOPER, BUILDER, CONTRACTOR, OR OTHER PERSON SHALL COMPLY WITH POLICIES AND PROCEDURES OUTLINED IN THE CITY DCM. AND THE APPROVED GEC PLAN.
- 27. THIS PERMANENT CONTROL MEASURE (PCM) PLAN WILL BE SUBJECT TO RE-REVIEW AND RE-ACCEPTANCE BY THE CITY OF DESIGN OF THE PCM.
- 28. CONTACT CITY GEC INSPECTIONS, 719-385-5918, AND CITY ENGINEERING INSPECTIONS, 719-385-5977, AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- 29. ACCEPTANCE OF THIS PLAN DOES NOT CONSTITUTE APPROVAL TO GRADE OR CAUSE ANY DISTURBANCE WITHIN ANY UTILITY UTILITY COMPANY, IT IS NOT PERMISSIBLE FOR ANY PERSON TO MODIFY THE GRADE OF THE EARTH ON ANY UTILITY COST TO RELOCATE OR PROTECT EXISTING UTILITIES OR TO PROVIDE INTERIM ACCESS.
- 30 A PROFESSIONAL ENGINEER (PE) CERTIFICATION THAT THE PERMANENT CONTROL MEASURE (PCM) HAS BEEN INSTALLED AND BY THE ENGINEER OF RECORD OR A PERSON UNDER THEIR RESPONSIBLE CHARGE. COORDINATION WITH THE ENGINEER OF RECORD TO ENSURE THAT THE NECESSARY ON-SITE OBSERVATIONS ARE COMPLETED IS THE RESPONSIBILITY OF THE APPLICANT.
- 31. THE CONTRACTOR SHOULD CONTACT THE ENGINEER OF RECORD AND GEC INSPECTOR IMMEDIATELY SHOULD CONSTRUCTION OF THE PERMANENT CONTROL MEASURE VARY IN ANY WAY FROM THE PLANS.

#### 32. PROJECT DATA:

- CDDT REGION 2 PROPERTY (PARCEL ND. 326300009)
- CALCULATIONS CAN BE FOUND IN "DRAINAGE REPORT FOR FAIRFAX FULL SPECTRUM DETENTION AND WATER QUALITY POND
- DESIGN, COLORADO SPRINGS, COLORADO", APPROVED ON OCTOBER 27, 2022 - GESQC ÍNFO CAN BE FOUND IN "STORMWATER MANAGEMENT.GRADING AND EROSION CONTROL PLANS" FOR FAIRFAX FULL

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MONUMENT OR ACCESSORY COMMITS A CLASS TWO (2) MISDEMEANOR PURSUANT TO STATE STATUTE C.R.S. SECTION 18-4-508.

CONTROL MONUMENTS FOR CONSTRUCTION STAKING OTHER THAN THOSE SHOWN ON THE PLANS OR APPROVED BY THE ENGINEER

17. PROPOSED FINISHED GROUND ELEVATIONS FOR ITEMS TO BE ADJUSTED, RESET, OR MODIFIED SHALL BE FIELD VERIFIED BY THE

TO THE WETLANDS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND FOLLOW ALL REQUIREMENTS OF THE NATIONWIDE 404

APPROVAL OF THE SITE GRADING AND EROSION CONTROL (GEC) PLAN. REFERENCE THE CITY OF COLORADO SPRINGS DRAINAGE

COLORADO SPRINGS IF WORK ON THE PCM DOES NOT COMMENCE WITHIN 12 MONTHS OF PLAN APPROVAL, OR SHOULD ANY OF THE FOLLOWING OCCUR: A CHANGE IN PROPERTY OWNERSHIP, A CHANGE IN THE PROPOSED DEVELOPMENT, OR CHANGES TO THE

EASEMENT OR RIGHT-OF-WAY. APPROVALS TO WORK WITHIN UTILITY EASEMENTS MUST BE OBTAINED FROM THE APPROPRIATE EASEMENT OR RIGHT-OF-WAY WITHOUT THE APPROPRIATE WRITTEN APPROVAL. THE PLAN SHALL NOT INCREASE OR DIVERT WATER TOWARD UTILITY FACILITIES. ANY CHANGES TO EXISTING UTILITY FACILITIES TO ACCOMODATE THE PLAN MUST BE APPROVED BY THE AFFECTED UTILITY OWNER PRIOR TO IMPLEMENTING THE PLAN. THE APPLICANT IS RESPONSIBLE FOR THE

CONSTRUCTED IN GENERAL CONFORMANCE WITH THESE PLANS WILL BE REQUIRED ONCE THE PCM IS FULLY CONSTRUCTED. AN AS-CONSTRUCTED SURVEY MUST BE COMPLETED TO VERIFY FACILITY VOLUMES AND ELEVATIONS. THE AS-BUILT DRAWINGS MUST BE SUBMITTED ALONG WITH THE PE CERTIFICATION. A PE CERTIFICATION REQUIRES PERIODIC ON-SITE OBSERVATIONS

Index Contract	Contract Item	Unit	Project Totals Plan As Const	Index Book Page		ontract em No	Contract Item	Unit	Project Totals Plan As Cons
201-0000	CLEARING AND GRUBBING	LS	1			2-00706	SEEDING (NATIVE) DRILL	ACRE	
202-0001	REMOVAL OF INLET	EACH	2		212	2-00711	SEEDING (WETLAND) BROADCAST	ACRE	0.09
202-0002	7 REMOVAL OF RIPRAP	SY	139		213	3-00003	MULCHING (WEED FREE)	ACRE	7.00
202-0003	5 REMOVAL OF PIPE	LF	75		213	3-00061	MULCH TACKIFIER	LB	1400
202-0400	2 CLEAN CULVERT	EACH	1		214	1-01010	BRUSH LAYER CUTTING	EACH	1
203-0001	UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE)	CY	3950		214	4-01013	LIVE WILLOW STAKES	EACH	250
203-0150	) BLADING	HOUR	24		216	6-00201	SOIL RETENTION BLANKET (STRAW-COCONUT) (BIODEGRADABLE CLASS	6 1) SY	20110
203-0155	DOZING	HOUR	24		216	6-00303	TURF REINFORCEMENT MAT (CLASS 3)	SY	232
203-0159	COMBINATION LOADER	HOUR	24		217	7-00020	HERBICIDE TREATMENT	HOUR	24
207-0070	) TOPSOIL (ONSITE)	CY	3764		240	00000	WILDLIFE BIOLOGIST	HOUR	24
207-0070	2 TOPSOIL (OFFSITE)	CY	1882		240	0-00010	REMOVAL OF NESTS	HOUR	16
208-0000	2 EROSION LOG TYPE 1 (12 INCH)	LF	6870		240	0-00020	NETTING	SY	40
208-0001	3 EROSION LOG TYPE 1 (20 INCH)	LF	360		304	1-06000	AGGREGATE BASE COURSE (CLASS 6)	TON	590
208-0002	SILT FENCE	LF	1050		304	4-06009	AGGREGATE BASE COURSE (CLASS 6) (SPECIAL)	TON	290
208-0003	5 AGGREGATE BAG	LF	145		412	2-00615	CONCRETE PAVEMENT (6.5 INCH) (REINFORCED)	SY	895
208-0004	1 ROCK CHECK DAM	EACH	21		506	6-00412	SOIL RIPRAP (12 INCH)	CY	799
208-0004	5 CONCRETE WASHOUT STRUCTURE	EACH	1		514	1-00000	PIPE RAILING	LF	271
208-0005	1 STORM DRAIN INLET PROTECTION (TYPE I)	LF	24		601	1-03050	CONCRETE CLASS D (WALL)	CY	247
208-0007	VEHICLE TRACKING PAD	EACH	1		602	2-00000	REINFORCING STEEL	LB	48400
208-0007	1 MAINTENANCE AGGREGATE (VEHICLE TRACKING PAD)	CY	30		604	1-00550	INLET TYPE D (SPECIAL)	EACH	1
208-0010		HOUR	40			7-11525	FENCE (PLASTIC)	LF	1032
208-0010	5 REMOVAL AND DISPOSAL OF SEDIMENT (EQUIPMENT)	HOUR	40		609	9-23000	GUTTER (SPECIAL)	LF	499
208-0010	SWEEPING (SEDIMENT REMOVAL)	HOUR	100		622	2-00270	BOLLARD	EACH	2
208-0010	7 REMOVAL OF TRASH	HOUR	24		625	5-00000	CONSTRUCTION SURVEYING	LS	1
208-0020	7 EROSION CONTROL MANAGEMENT	DAY	120		626	6-00000	MOBILIZATION	LS	1
208-0030	3 TEMPORARY DIVERSION (SPECIAL)	LS	1		700	0-70010	F/A MINOR CONTRACT REVISIONS	FA	1
212-0070	ORGANIC FERTILIZER	LB	2100		700	0-70023	F/A MINOR CONTRACT REVISIONS       F/A ON-THE-JOB TRAINEE       F/A EROSION CONTROL	FA	1
212-0070	1 COMPOST (MECHANICALLY APPLIED)	CY	455		700	0-70380	F/A EROSION CONTROL	FA	1
212-0070	3 HUMATE	LB	1400		700	0-70381	F/A PERMANENT DEWATERING	FA	1
212-0070	4 MYCORRHIZAE	LB	56				B 04/17/2023 C B		
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TABULATION O	F EARTHWORK	
ITEM NO.	DESCRIPTION	
	QUANTITIES BALANCE - FOR INFORMATION ONLY	
203-00010	UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE)	
	ERDM_SURFACE_COMPARISON	CY
А	FAIRFAX POND	3,950
	TOTAL	3,950
ITEM NO.	DESCRIPTION	· ·
	QUANTITIES BALANCE - FOR INFORMATION ONLY	
	EMBANKMENT MATERIAL (COMPLETE IN PLACE)	
	FROM SURFACE COMPARISON	CY
А	FAIRFAX POND	462
	TOTAL	462
	EMBANKMENT x FACTOR (1.15)	53
	NET EARTHWORK (FOR INFORMATION ONLY)	3,419
ITEM NO.	DESCRIPTION	
207-00700	TOPSOIL (ONSITE)*	CY
А	FAIRFAX POND	3674
207-00702	TOPSOIL (OFFSITE)*	
A	FAIRFAX POND	1,882
	TOTAL	5,550

\*QUANTITIES ARE FOR REFERENCE ONLY. SEE SWMP TABULATION FOR MORE INFORMATION ON QUANTITIES.

#### MISCELLANEOUS TAB

ITEM NO.	ITEM NAME	UNIT	QUANTITY
201-00000	CLEARING AND GRUBBING	LS	1
240-00000	WILDLIFE BIOLOGIST	Hour	24
240-00010	REMOVAL OF NESTS	Hour	16
240-00020	NETTING	SY	40
622-00270	BOLLARD	EA	2
625-00000	CONSTRUCTION SURVEYING	LS	1
626-00000	MOBILIZATION	LS	1
700-70010	F/A MINOR CONTRACT REVISIONS	FA	1
700-70023	F/A ON-THE-JOB TRAINEE	FΑ	1
700-70381	F/A PERMANENT DEWATERING	FΑ	1

#### REMOVALS TAB

ITEM NUMBER	ITEM NAME	UNIT	QUANTITY
202-00019	REMOVAL OF INLET	EACH	2
202-00027	REMOVAL OF RIPRAP	SY	139
202-00035	REMOVAL OF PIPE	LF	75



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i	nt Date: 8/8/2023 e Name: 116131DES_Tab01.dgn riz. Scale: 1:1 Vert. Scale: As Noted FELSBURG HOLT & 3 South Tejon Street, Suite 300 Colorado Springs, CO 80903 Phone: 719.314.1800	nt Date: 8/8/2023 e Name: 116131DES_Tab01.dgn riz. Scale: 1:1 Vert. Scale: As Noted FELSBURG HOLT & 3 South Tejon Street, Suite 300 Colorado Springs, CO 80903 Phone: 719.314.1800	nt Date:     8/8/2023       e Name:     116131DES_Tab01.dgn       riz.     Scale:       1:1     Vert.       Scale:     1:1       PELSBURG     3 South Tejon Street, Suite 300       Colorado Springs, CO 80903       Phone:	Int Date:     8/8/2023       a Name:     116131DES_Tab01.dgn       riz.     Scale:       1:1     Vert.       Scale:     Scale:       Colorado Springs, CO     S0903       Phoner     South Tejon Street, Suite 300       Colorado Springs, CO     S0903       Phoner     19.314.1800	nt Date: 8/8/2023       Sheet Revisions       e Name: 116131DES_Tab01.dgn       Date: Comments Init.       Triz. Scale: 1:1       Vert. Scale: As Noted       Date: Comments Init.       FELSBURG       A South Tejan Street, Suite 300       Colorado Springs, CO 80903       Phone: 719.314.1800	nt Date: 8/8/2023 e Name: 116131DES_Tab01.dgn riz. Scale: 1:1 Vert. Scale: As Noted FELSBURG HOLT & 3 South Tejon Street, Suite 300 Colorado Springs, CO 80903 Phone: 719.314.1800 Colorado Springs, CO 80903 Colorado Spri	Sheet Revisions       As Constructed         a Name: 116131DES_Tab01.dgn       Date:       Comments       Init.         riz. Scale: 1:1       Vert. Scale: As Noted       Date:       Comments       Init.         FELSBURG       3 South Tejan Street, Suite 300 Colorado Springs, CO 80903 Phone: 712.314.1800       As Constructed       No Revisions:	Sheet Revisions       As Constructed       FAIRFAX DETENTION AND         ware: 116131DES_Tab01.dgn       Date:       Comments       Init.         riz. Scale: 1:1       Vert. Scale: As Noted       Date:       Comments       Init.         Generation Street, Suite 300       Colorado Springs, CO 80903       Boilt       Designer:       SJT         Structure       Detailer:       JBD       Numbers       Variet	

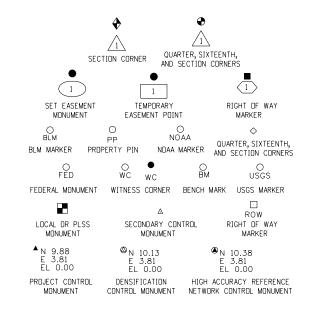
### DRAINAGE TAB

	LOCATION	INLET TYPE D H (PAY)	AGGREGATE BASE COURSE (CLASS 6)	AGGREGATE BASE COURSE (CLASS 6) (SPECIAL)	CDNCRETE PAVEMENT (6.5 INCH) (REINFORCED)	SOIL RIPRAP (TYPE M, 12 INCH)	PIPE RAILING	CONCRETE CLASS D (WALL)	REINFORCING STEEL	GUTTER (SPECIAL)	MISC.
		SPECIAL	TON	TON	SY	CY	LF	CY	LB	LF	
.D. ND.		604-00550	304-06000	304-06009	412-00615	506-00412	514-00000	601-03050	602-00000	609-23000	
	FAIRFAX POND							_			
ISB B	1003+23.38, 30.90' RT						117	40	8000		
ISB C	1205+47.01, 33.90'LT						103	46	9200		
FOREBAY B								57	11400		
FOREBAY C								43	8600		
TRICKLE 1										377	
TRICKLE 2	40000 400 400 75 74 07						<b>5</b> 4	3.5		122	
MP & DUTLET	1200+40.12, 35.74' RT	1				700	51	35	6000		
SPILLWAY			100		657	799		26	5200		
ACCESS B			198 221		657 238						
ACCESS C			170		238						
ACCESS DUT ACCESS T			170	290	0*						
AUCESS I				290							
PROJECT TOTALS		1	590	290	895	799	271	247	48400	499	

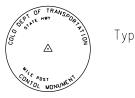
\*ACCESS DUT CONCRETE PAVEMENT QUANTITY IS INCLUDED IN THE ACCESS B QUANTITY

2	00 01 01 01 01 01 01 01 01 01
	Project No./Code
	16131-11

Colorado Decembrant of Transportation		Sheet Revisions			Sheet Revisions					
Colorado Department of Transportation	Date	Description	Initials	Date	Description	Initials	Date	Description	Initials	10
905 Erie Avenue Pueblo, CD 81002 Phone: 719-546-5454 FAX: 719-546-5414										4201
Phone: 719-546-5454 FAX: 719-546-5414 Region 2										
Region 2										



Note: For a complete listing of symbololgy used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation M&S Standards Publication, Existing features are shown as screened weight (gray scale). Proposed or new features are shown as full weight without screening.



Typical Control Monument Cap Not to Scale

CM-MP - Control Point Monuments set by 105 West, Inc. They are CDOT Type 2 monuments, a  $3^{1}/_{4}$ " dia aluminum controlmonument cap (as shown) on a  $3' x \frac{3}{4}''$  dia. aluminum security rod on a  $3' x \frac{3}{4}''$  dia. smooth aluminum rod. Except Control Points 30-33, See Coordinate Table Sheet for Monument Descriptions.

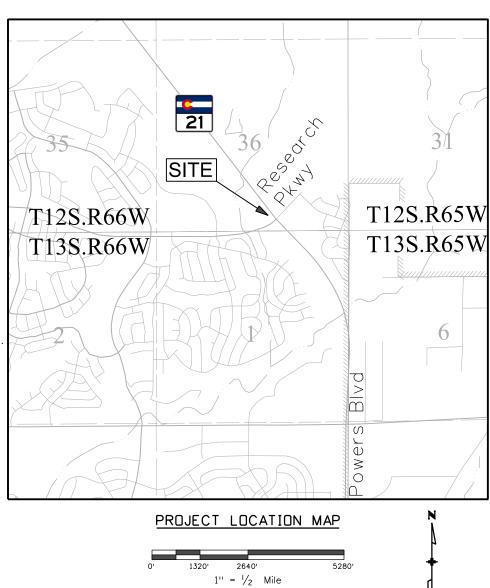
#### General Notes:

- 1. This Project Control Diagram is not a boundary survey of the adjoining property and is prepared for the Colorado Department of Transportation purposes only.
- 2. This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with CDDT that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the ProfessionalLand Surveyor hereon named.
- 3. Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2012 found in The Colorado Department of Transportation, M & S Standards for typical survey monument descriptions.

## **DEPARTMENT OF TRANSPORTATION STATE OF COLORADO**

PROJECT CONTROL DIAGRAM

State Highway 21 MP 149.11 to 150.77 Section 36 Township 12 South, Range 66 West and Section 1 Township 13 South, Range 66 West of the 6th Principal Meridian County of ElPaso



This Project Control Diagram is based on and perpetuated from the Colorado Department of Transportations Project Control Diagram, Project STU M240-014, Code 11661, last updated on March 16, 2010. 105 West, Inc. did not recover any of the CM-MP points from said Control Diagram within the vicinity of Powers Blvd. and Research Pkwy. with the exception of CM-MP 30.60 and 30.61. All other CM-MP from 30.53 to 30.66 shown on said Control Diagram have been re-set in close proximity to the original location by 105 West, Inc. using the same CM-MP number as shown on said Control Diagram. As noted, the only two Control Points that have the same coordinate information as shown on said Control Diagram are found points CM-MP 30.60 and 30.61.

Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid begring of N38° 40'57"W from CM-MP 30.53 (SH 21 MP 149.11) to CM-MP 30.66 (SH 21 MP 150.77). Both monuments are CDDT Type II, marked appropriately for their milepost location and control position. MilePost 30.53 to 30.66 from the above referenced Project Control Diagram are related to old Powers Blvd Milepost. Powers Blvd is now part of S.H. 21 and the Milepost have been re-numbered.

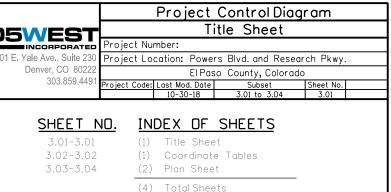
Basis of Elevations: Project elevations are based on CM-MP 30.66 (SH 21 MP 149.98), a found CDDT Type 2 Monument with a NAVD 88 elevation of 6,934.39ft. A Closed Differential Level Loop was completed through all set Project Control.

COORDINATE DATUM: Project coordinates are modified Colorado State Plane Central Zone NAD '83 coordinates. The combined elevation/scale factor used to modify the coordinates from state plane to project coordinates is 1.00039084. No truncation applied.

NOTICE: According to Colorado law you must commence any legalaction based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.

either expressed or implied.

PLS No. 38189



### SURVEYOR STATEMENT (PROJECT CONTROL DIAGRAM) I, Richard D. Muntean, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation this Project Control Diagram was prepared and the field survey it represents was performed under my responsible charge and, based upon my knowledge, information and belief is in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a quaranty or warranty

Colorado Department of Transportation



P.D. Box 536 905 Erie Avenue Pueblo, CD 81002 Phone: 719-546-5454 FAX: 719-546-541

		Sheet Revisions			Sheet Revisions			Sheet Revisions			Project Control Diagram
on	Date	Description	Initials	Date	Description	Initials	Date	Description	Initials		Coordinate Tables
										INCORPORATED	Project Number:
										4201 E. Yale Ave., Suite 230	Project Location: Powers Blvd. and Research Pkwy.
5414										Denver, CO 80222 303.859.4491	
										303.039.4491	Project Code:         Last Mod. Date         Subset         Sheet No.           10-30-18         3.01 of 3.04         3.02

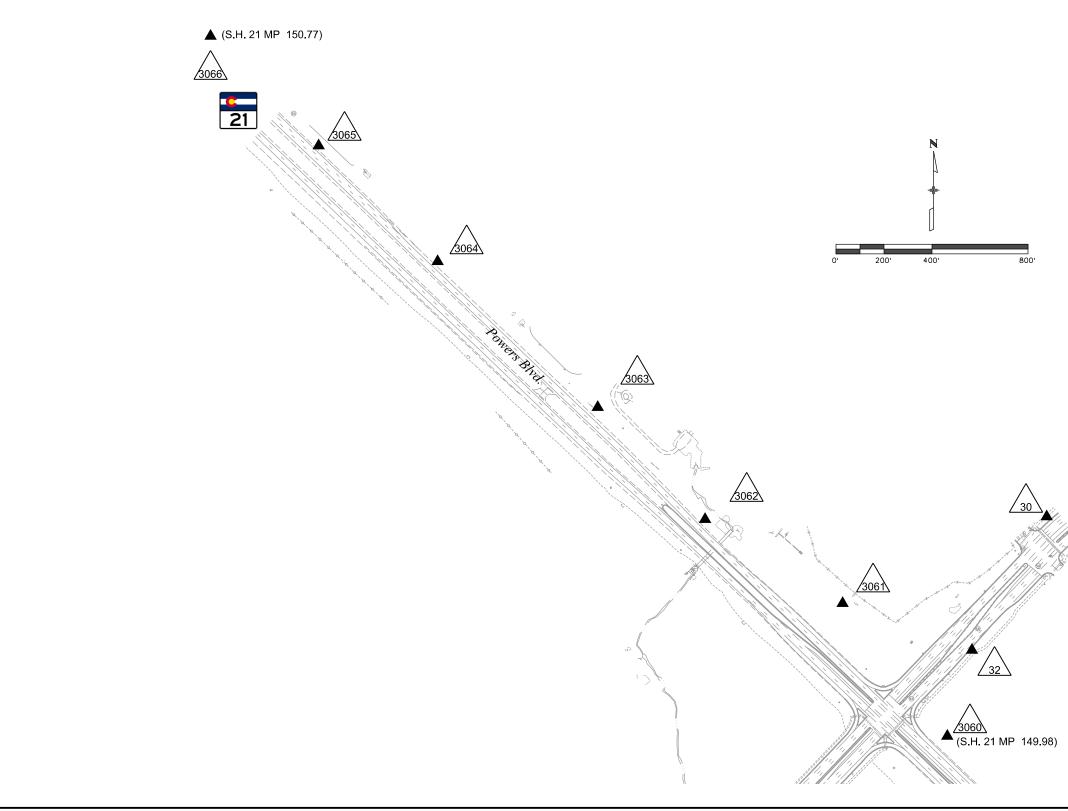
	Point No.	Geodetic Coor	dinates NAD-83	Elip Height (NAVD88)	Ortho Height	Manning Angle	Grid Scale Factor	NAD 83 Z	one 0502	Description
	Tome No.	Latitude(N)	Longitude(W)		or the hergine			SP Northing	SP Easting	
	30	38°57'18.50101"	104°43'47.47368"	6,853.18	6,909.56	0°29'09"	0.999939135	1,409,484.810	3,219,002.977	Set CDOT Type 5(S) Monument in Conc. Walk "105 West 30"
	31	38°57'20.34226"	104°43'41.17043"	6,867.29	6,923.70	0°29'13"	0.999939113	1,409,675.302	3,219,499.279	Set CDOT Type 5(S) Monument in Conc. Walk "105 West 31"
	32	<u>32</u> <u>38°57'26.24402"</u> <u>104°43'33.91339</u> " <u>6,887.02</u> <u>6,943.39</u> <u>0°29'17</u> " <u>0.99993</u>				0.999939041	1,410,277.215	3,220,067.411	Set 2" Aluminum Cap on 30x5/8" Rebar "105 West 32"	
	33					Set CDOT Type 5(S) Monument in Conc. Walk "105 West 33"				
	CM-MP 3053	P 3053 38°56'48.54192" 104°43'10.06104" 6,817.26 6,873.88 0°29'32" 0.999939514 1,406,479.298 3,221,984.185		Set CDOT Type 2 Monument						
	CM-MP 3054	38°56'53.14451"	104°43'11.78805"	6,806.65	6,863.28	0°29'31"	0.999939454	1,406,943.736	3,221,843.756	Set CDOT Type 2 Monument
	CM-MP 3055	38°56'56.98569"	104°43'13.14877"	6,809.06	6,865.64	0°29'30"	0.999939405	1,407,331.395	3,221,732.930	Set CDOT Type 2 Monument
	CM-MP 3056	38°57'04.67896"	104°43'16.98278"	6,828.76	6,885.32	0°29'28"	0.999939307	1,408,107.068	3,221,423.392	Set CDOT Type 2 Monument
	CM-MP 3057	38°57'10.76080"	104°43'21.62719"	6,846.89	6,903.42	0°29'25"	0.999939231	1,408,719.180	3,221,051.252	Set CDOT Type 2 Monument
	CM-MP 3058	38°57'15.72673"	104°43'26.18672"	6,870.60	6,927.09	0°29'22"	0.99993917	1,409,218.466	3,220,686.800	Set CDOT Type 2 Monument
	CM-MP 3059	38°57'18.88245"	104°43'29.99776"	6,877.50	6,933.97	0°29'20"	0.999939131	1,409,535.137	3,220,383.044	Set CDOT Type 2 Monument
	CM-MP 3060	38°57'22.71113"	104°43'35.25329"	6,877.97	6,934.39	0°29'16"	0.999939084	1,409,918.918	3,219,964.620	Found CDOT Type 2 Monument
	CM-MP 3061	38°57'28.21629"	104°43'40.71529"	6,896.55	6,952.93	0°29'13"	0.999939017	1,410,472.164	3,219,528.460	Found CDOT Type 2 Monument
-	CM-MP 3062	38°57'31.72065"	104°43'47.93299"	6,890.60	6,946.95	0°29'08"	0.999938975	1,410,821.835	3,218,955.361	Set CDOT Type 2 Monument
	CM-MP 3063	38°57'36.37385"	104°43'53.54500"	6,920.12	6,976.42	0°29'05"	0.99993892	1,411,288.812	3,218,508.118	Set CDOT Type 2 Monument
	CM-MP 3064	38°57'42.43561"	104°44'01.92347"	6,950.34	7,006.61	0°28'59"	0.999938848	1,411,896.446	3,217,841.189	Set CDOT Type 2 Monument
	CM-MP 3065	38°57'47.24265"	104°44'08.14705"	6,969.10	7,025.32	0°28'56"	0.999938792	1,412,378.599	3,217,345.552	Set CDOT Type 2 Monument
Ī	CM-MP 3066	38°57'51.79638"	104°44'13.80176"	6,973.11	7,029.29	0°28'52"	0.999938739	1,412,835.512	3,216,895.076	Set CDOT Type 2 Monument

XX

PROJECT COORDINATE TABLE											
Point No.	Project Co	pordinates	Elev(ft) (NAVD88)	Description							
FORTE NO.	Northing(ft)	Easting(ft)		Description							
30	1,410,035.688	3,220,261.099	6,909.56	Set CDOT Type 5(S) Monument in Conc. Walk "105 West 30"							
31	1,410,226.255	3,220,757.595	6,923.70	Set CDOT Type 5(S) Monument in Conc. Walk "105 West 31"							
32	1,410,828.404 3,221,325.949 6,943.39		6,943.39	Set 2" Aluminum Cap on 30x5/8" Rebar "105 West 32"							
33	1,411,384.643	3,221,637.575	6,970.24	Set CDOT Type 5(S) Monument in Conc. Walk "105 West 33"							
CM-MP 3053	1,407,029.002	3,223,243.472	6,873.88	Set CDOT Type 2 Monument							
CM-MP 3054	1,407,493.621	3,223,102.989	6,863.28	Set CDOT Type 2 Monument							
CM-MP 3055	1,407,881.432	3,222,992.119	6,865.64	Set CDOT Type 2 Monument							
CM-MP 3056	1,408,657.408	3,222,682.460	6,885.32	Set CDOT Type 2 Monument							
CM-MP 3057	1,409,269.759	3,222,310.175	6,903.42	Set CDOT Type 2 Monument							
CM-MP 3058	1,409,769.241	3,221,945.580	6,927.09	Set CDOT Type 2 Monument							
CM-MP 3059	1,410,086.035	3,221,641.706	6,933.97	Set CDOT Type 2 Monument							
CM-MP 3060	1,410,469.966	3,221,223.119	6,934.39	Found CDOT Type 2 Monument							
CM-MP 3061	1,411,023.428	3,220,786.788	6,952.93	Found CDOT Type 2 Monument							
CM-MP 3062	1,411,373.236	3,220,213.465	6,946.95	Set CDOT Type 2 Monument							
CM-MP 3063	1,411,840.396	3,219,766.047	6,976.42	Set CDOT Type 2 Monument							
CM-MP 3064	1,412,448.267	3,219,098.858	7,006.61	Set CDOT Type 2 Monument							
CM-MP 3065	1,412,930.608	3,218,603.027	7,025.32	Set CDOT Type 2 Monument							
CM-MP 3066	1,413,387.701	3,218,152.375	7,029.29	Set CDOT Type 2 Monument							

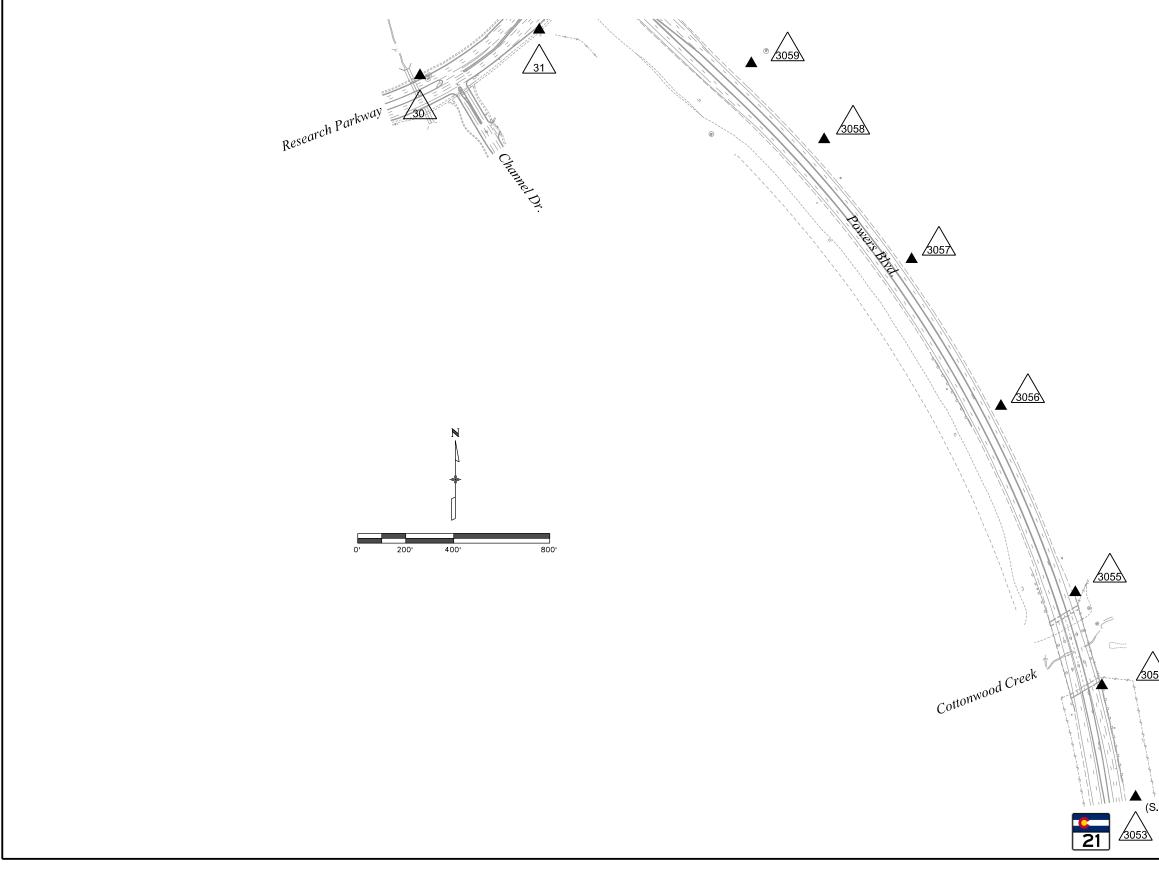
Colorado Department of Transportation		Sheet Revisions			Sheet Revisions			Sheet Revisions			Project Control Diagram
Colorado Department of Transportation	Date	Description	Initials	Date	Description	Initials	Date	Description	Initials	<b>105WEST</b>	Plan Sheet
P.D. Box 536 905 Erie Avenue										INCORPORATED	Project Number:
Pueblo, CD 81002	·اــــــــــــــــــــــــــــــــــــ										Project Location: Powers Blvd. and Research Pkwy.
Phone: 719-546-5454 FAX: 719-546-5414										Denver, CO 80222 303.859.4491	El Paso County, Colorado
Region 2	/ <b> </b> /									505.659.4491	Project Code:         Last Mod.         Date         Subset         Sheet No.           10-30-18         3.01 to         3.04         3.03

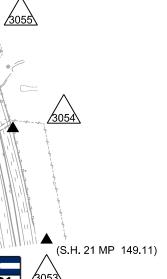


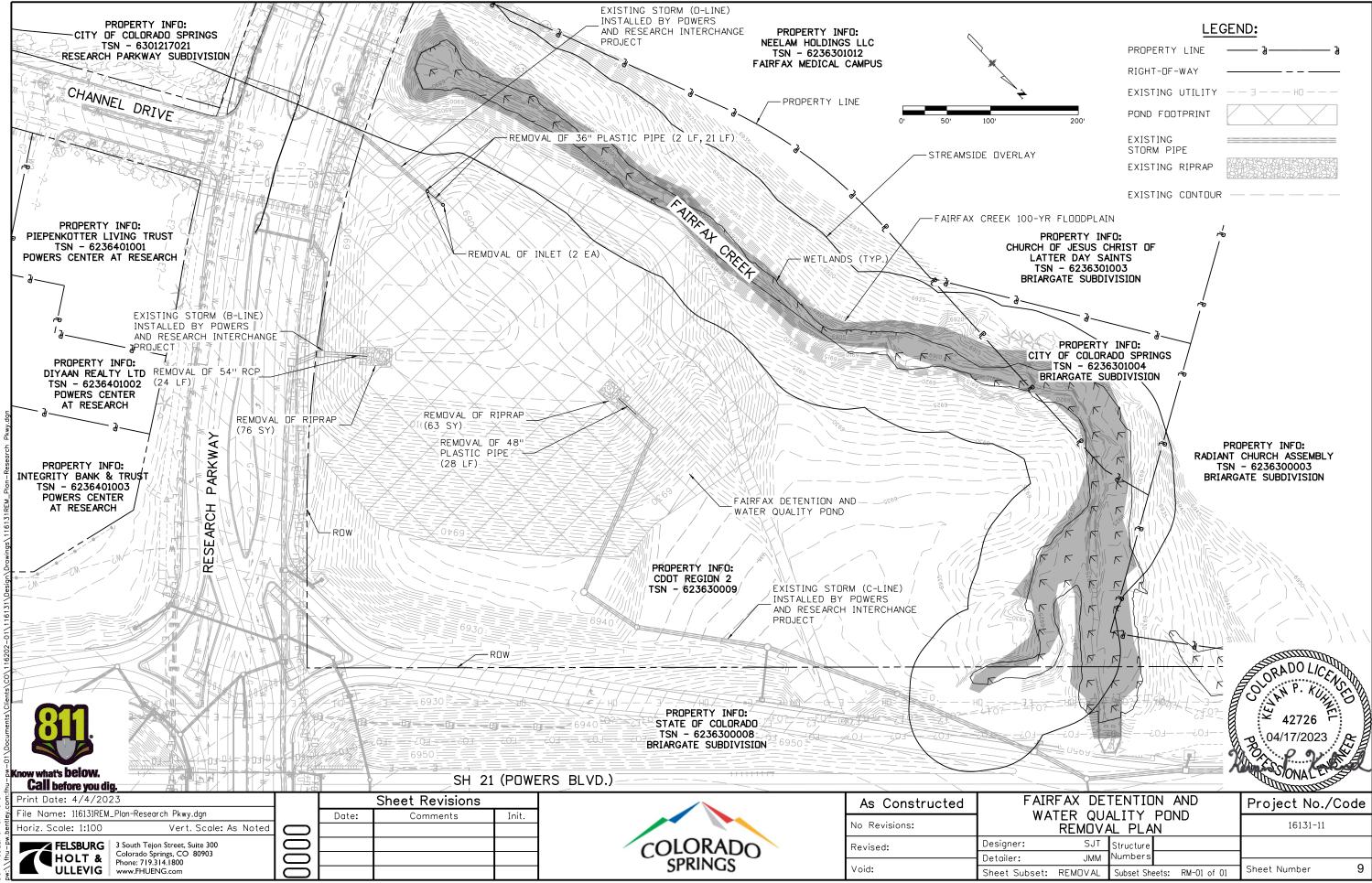




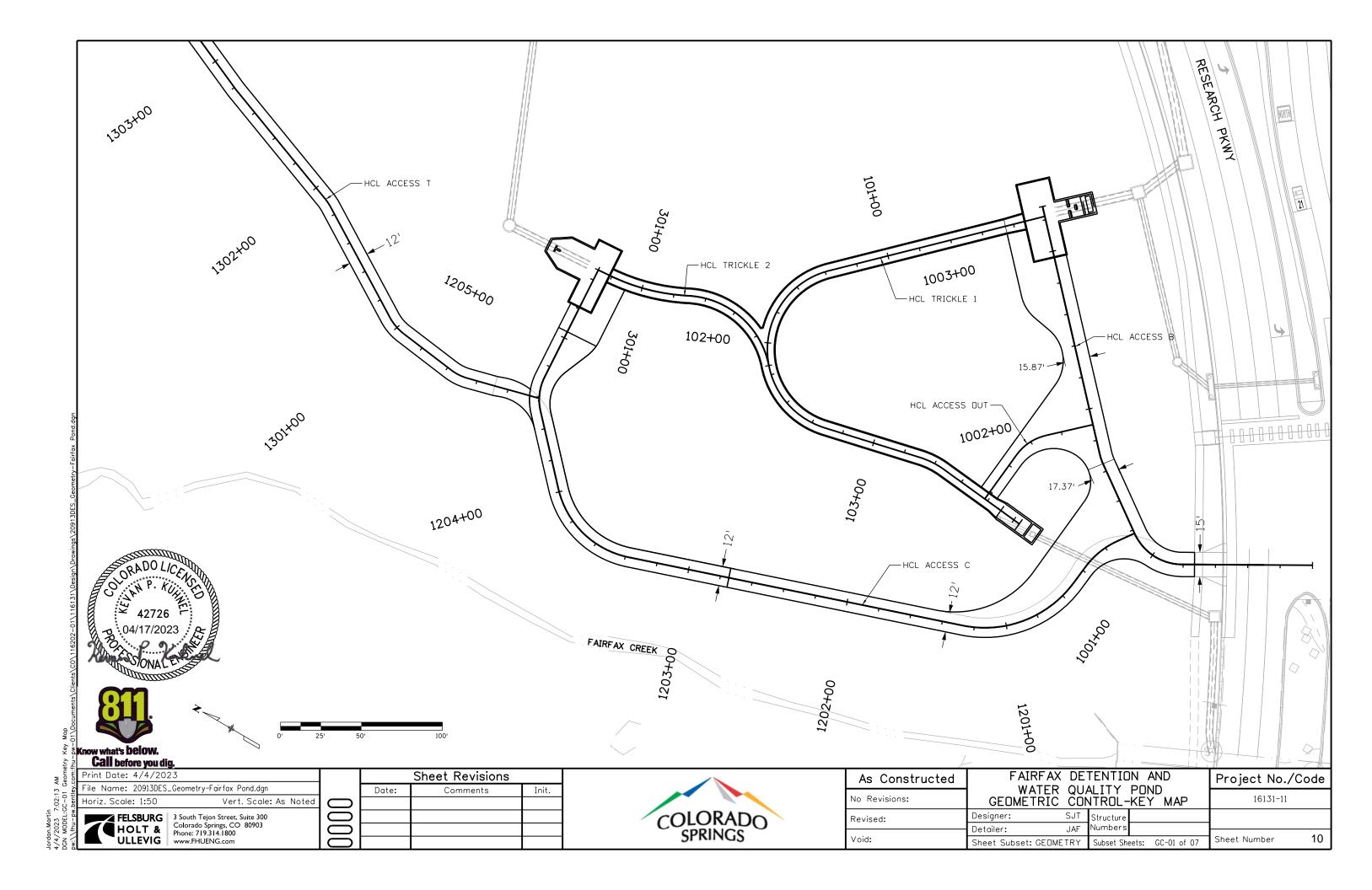
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Description Initials Date	Description Initials	Date Description Initials	105\//EGT	Plan Sheet
				Project Number:
			4201 E. Yale Ave., Suite 230	Project Location: Powers Blvd. and Research Pkwy.
			Denver, CO 80222	ElPaso County, Colorado
			303.859.4491	Project Code: Last Mod. Date Subset Sheet No. 10-30-18 3.01 to 3.04 3.04
	Description Initials Date	Description Initials Date Description Initials	Description     Initials       Dete     Description       Initials     Date       Description     Initials       Initials     Initials       Initials	4201 E. Yale Ave., Suite 230 Denversion 200 250 4401

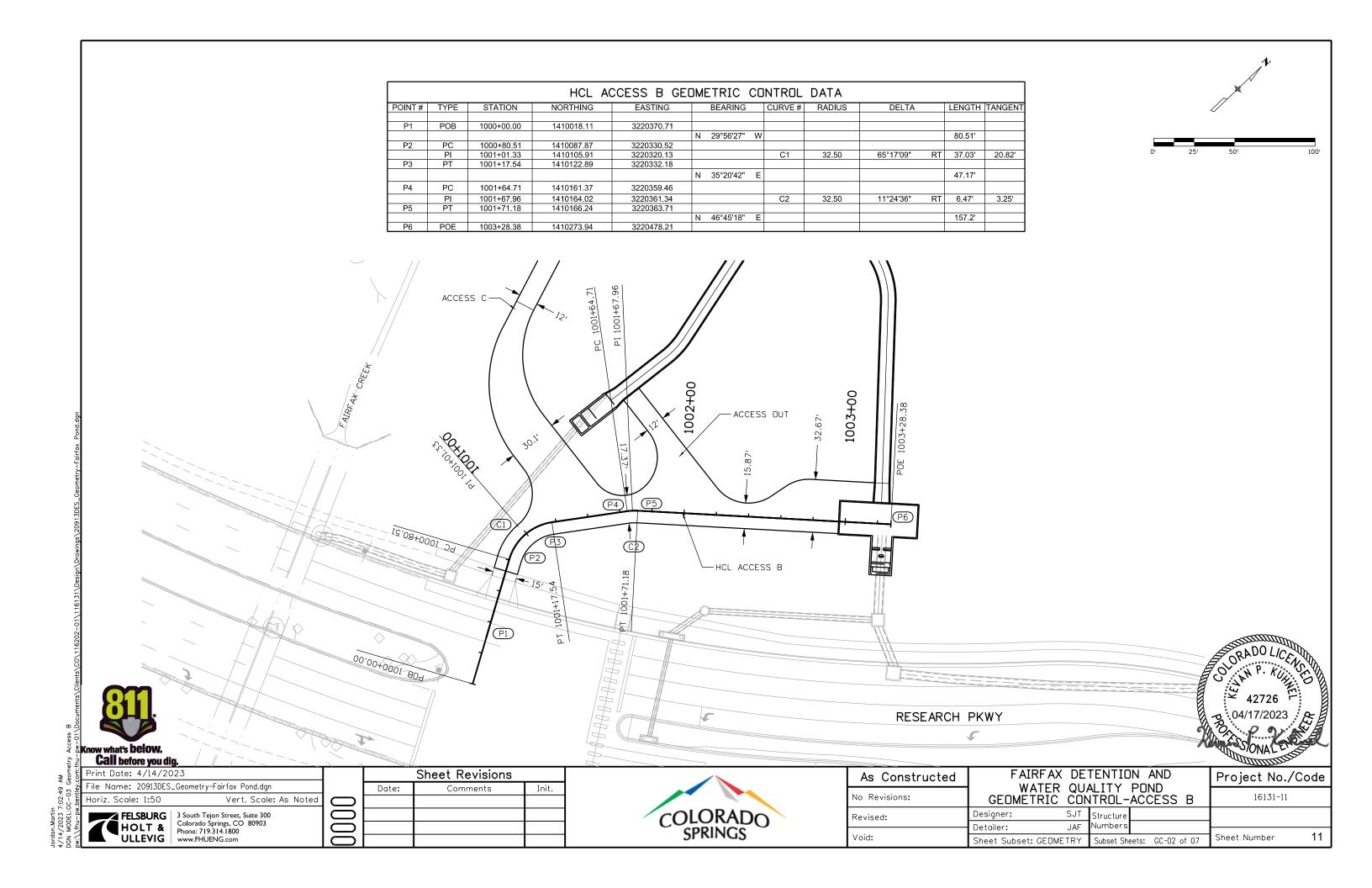






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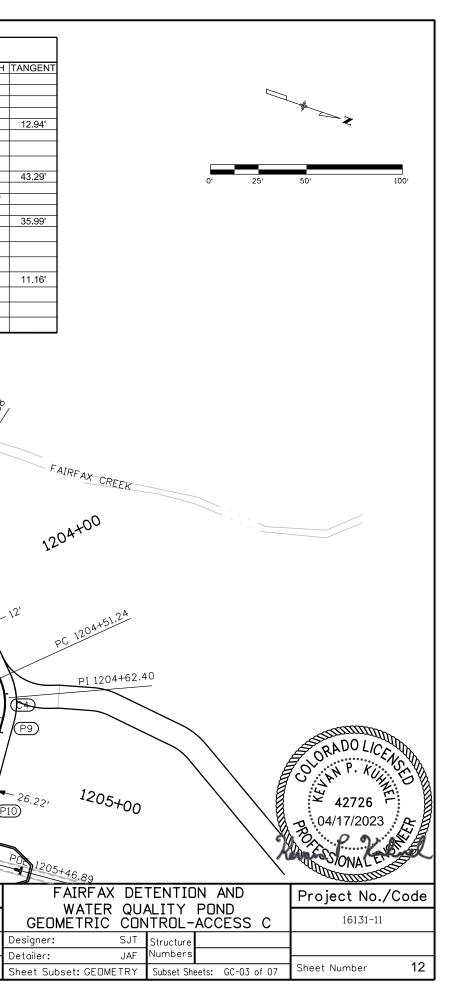




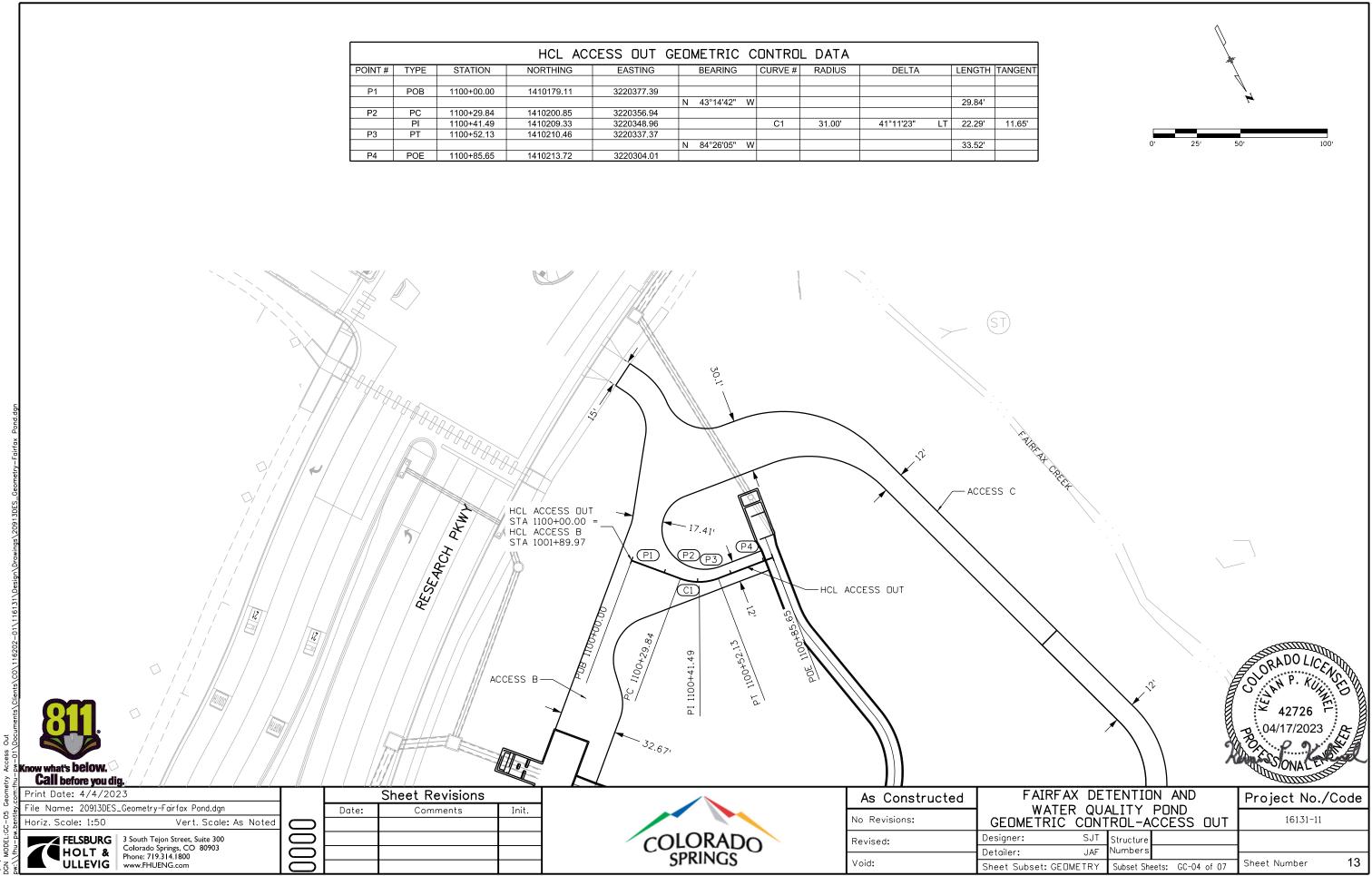
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	POINT # T	ΓΥΡΕ	STATION	NORTHING	EASTING	BEARING	CURVE #		DELTA		LENGTH	TANGE
	P1 I	POB	1200+00.00	1410123.06	3220332.29							
						N 54°39'18" \	V				11.70'	
	P2	PC PI	1200+11.70 1200+24.64	1410129.83 1410137.32	3220322.75 3220312.19		C1	50.00'	29°01'28"	LT	25.33'	12.94
	P3	PT	1200+37.03	1410138.74	3220299.33	N 83°40'46" \	A/				12.88	
	P4	PC	1200+49.91	1410140.16	3220286.53	11 85 40 40 1	v				12.00	
		PI	1200+93.20	1410144.93	3220243.5		C2	68.00	64°58'01"	RT	77.10'	43.29
		PT	1201+27.01	1410185.93	3220229.61	N 18°42'45" \	N				210.87'	
	P6	PC PI	1203+37.89 1203+73.88	1410385.66 1410419.74	3220161.96 3220150.41		C3	56.00'	65°27'24"	RT	63.98'	35.99
	P7	PT	1204+01.86	1410444.41	3220176.62		0.0	50.00	05 27 24		00.00	00.00
						N 46°44'39"	Ξ				49.38'	
	P8	PC	1204+51.24	1410478.24	3220212.58							
	P9	PI PT	1204+62.40 1204+72.66	1410485.89 1410486.6	3220220.71 3220231.84		C4	31.00'	39°35'25"	RT	21.42'	11.16
	P9		1204+72.00	1410460.0	3220231.04	N 86°20'04"	=				74.23'	
	P10	POE	1205+46.89	1410491.35	3220305.92		-					
RESEARCH PKWY HCL ACCESS C STA 1200+00.00		A11300	PT 1201+27.01			CCESS C 86.12+2021 Id	+ 1203+00	PT 120	6		P P P P P	12 <sup>1</sup>
HCL ACCESS B STA 1001+17.75 Know what's below. Call before you dig. Print Date: 4/14/2023		neet F	Revisions nments	ESS B		OLORAE			As Cons No Revisions Revised:		ted	- 26.22 10 

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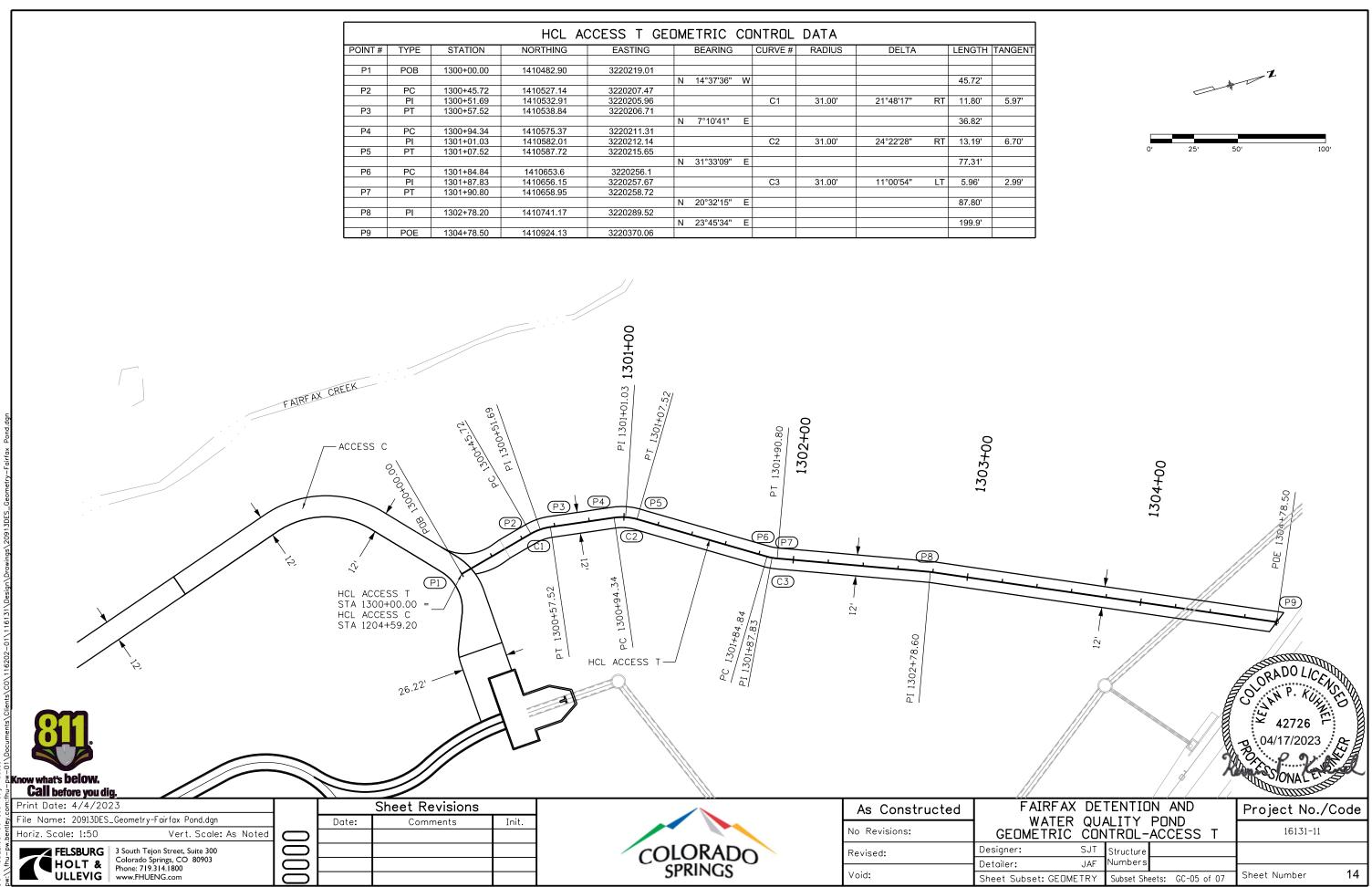
Jordan.Martin 4/14/2023 7:03:28 AM DGN MODEL:GC-04 Geometry



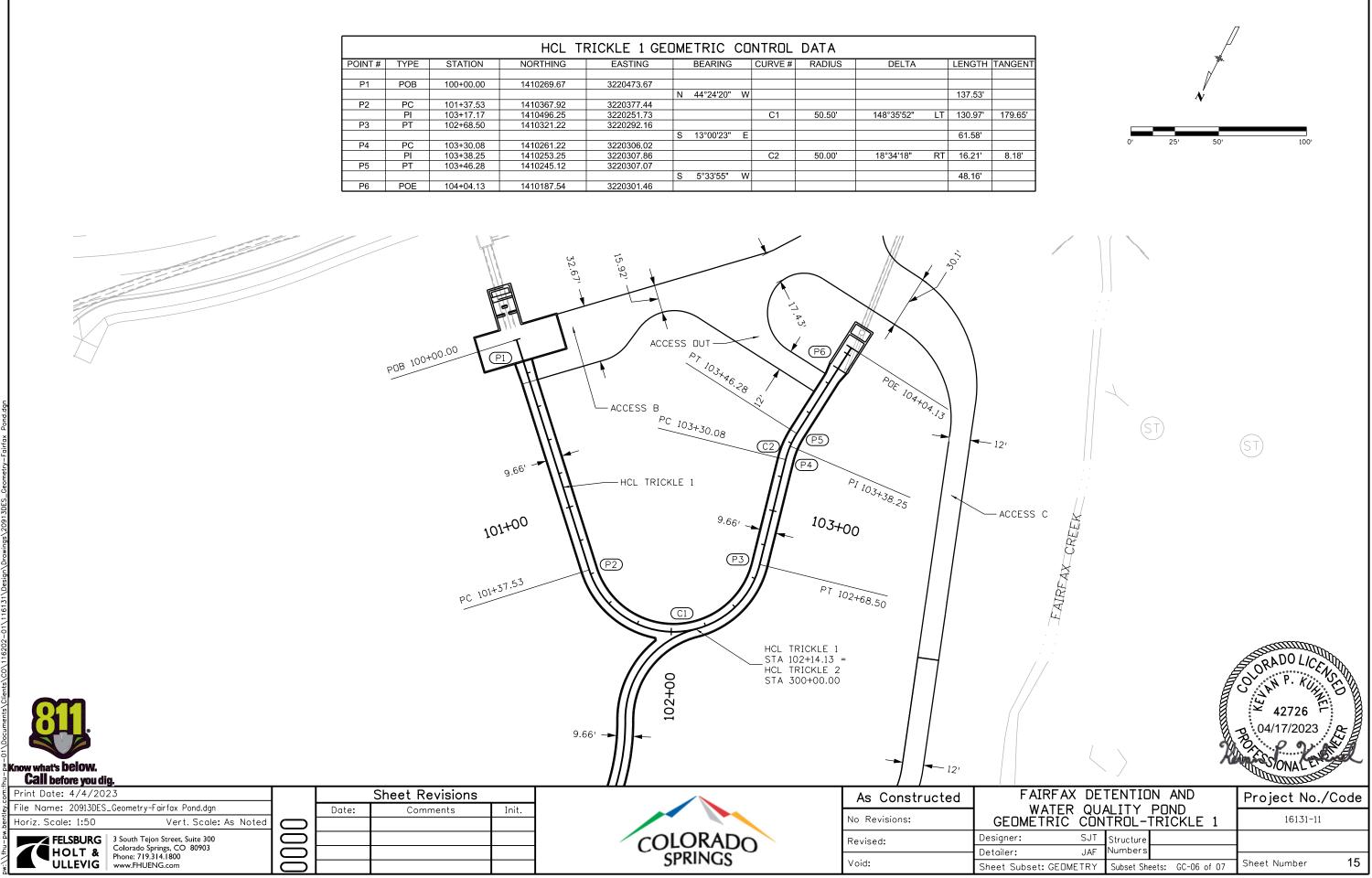
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POINT #	TYPE	STATION	NORTHING	EASTING		BEARING		CURVE #	RADIUS	DELTA		LENGTH	TANGE
P1	POB	1100+00.00	1410179.11	3220377.39									
					N	43°14'42"	W					29.84'	
P2	PC	1100+29.84	1410200.85	3220356.94									
	Pl	1100+41.49	1410209.33	3220348.96				C1	31.00'	41°11'23"	LT	22.29'	11.65
P3	PT	1100+52.13	1410210.46	3220337.37									
					N	84°26'05"	W					33.52'	
P4	POE	1100+85.65	1410213.72	3220304.01									



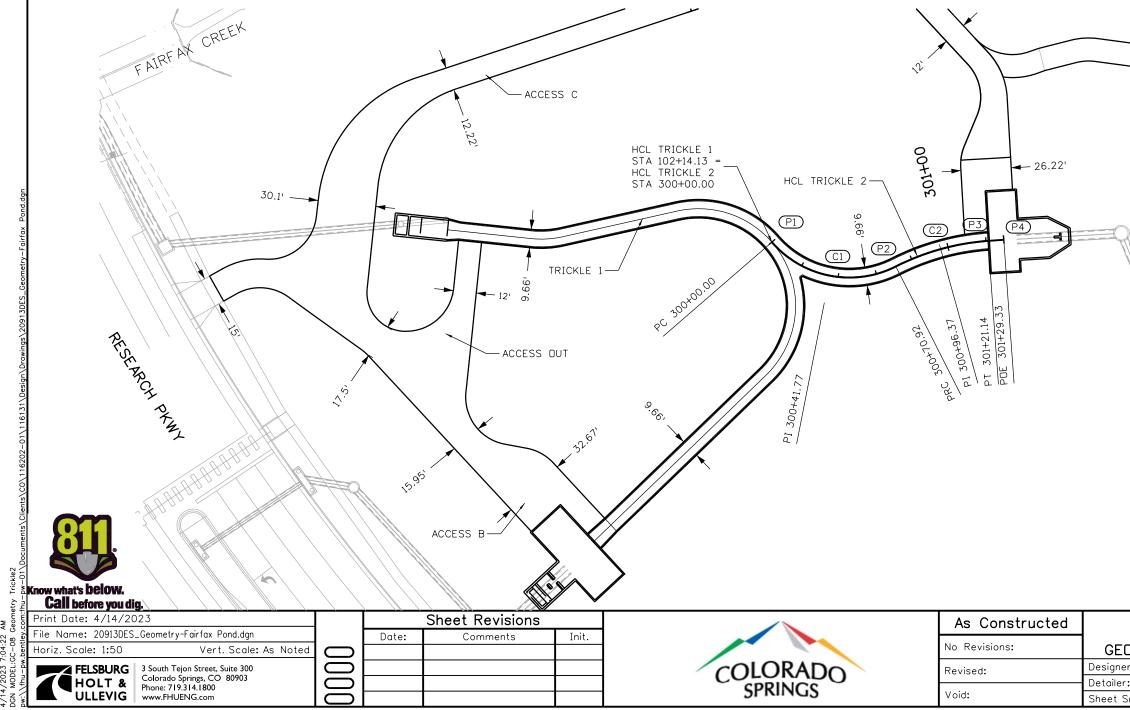
			HCL A	CCESS T GE	OME	ETRIC	СО	NTROL	DATA				
POINT #	TYPE	STATION	NORTHING	EASTING		BEARING		CURVE #	RADIUS	DELTA		LENGTH	TANGE
P1	POB	1300+00.00	1410482.90	3220219.01	+								
					N	14°37'36"	W					45.72'	
P2	PC	1300+45.72	1410527.14	3220207.47									
	PI	1300+51.69	1410532.91	3220205.96				C1	31.00'	21°48'17"	RT	11.80'	5.97'
P3	PT	1300+57.52	1410538.84	3220206.71									
					N	7°10'41"	Е					36.82'	
P4	PC	1300+94.34	1410575.37	3220211.31									
	PI	1301+01.03	1410582.01	3220212.14				C2	31.00'	24°22'28"	RT	13.19'	6.70'
P5	PT	1301+07.52	1410587.72	3220215.65									
					N	31°33'09"	Е					77.31'	
P6	PC	1301+84.84	1410653.6	3220256.1									
	PI	1301+87.83	1410656.15	3220257.67				C3	31.00'	11°00'54"	LT	5.96'	2.99'
P7	PT	1301+90.80	1410658.95	3220258.72									
					N	20°32'15"	Е					87.80'	
P8	PI	1302+78.20	1410741.17	3220289.52									
					N	23°45'34"	Е					199.9'	
P9	POE	1304+78.50	1410924.13	3220370.06									



			HCL T	RICKLE 1 GE	OMETRIC (	CONT	ROL DATA	١			
POINT #	TYPE	STATION	NORTHING	EASTING	BEARING	CUF	RVE # RADIU	JS DEL	TA	LENGTH	TANGE
P1	POB	100+00.00	1410269.67	3220473.67							
					N 44°24'20"	W				137.53'	
P2	PC	101+37.53	1410367.92	3220377.44							
	PI	103+17.17	1410496.25	3220251.73			C1 50.50	)' 148°35'5	2" LT	130.97'	179.65
P3	PT	102+68.50	1410321.22	3220292.16							
					S 13°00'23"	E				61.58'	
P4	PC	103+30.08	1410261.22	3220306.02							
	PI	103+38.25	1410253.25	3220307.86		(	C2 50.00	)' 18°34'1	3" RT	16.21'	8.18'
P5	PT	103+46.28	1410245.12	3220307.07							
					S 5°33'55"	W				48.16'	
P6	POE	104+04.13	1410187.54	3220301.46							



HCL TRICKLE 2 GEOMETRIC CONTROL DATA		
POINT # TYPE STATION NORTHING EASTING BEARING CURVE # RADIU		
P1 P0B/PC 300+00.00 1410370.51 3220308.02 N 48°40'35" E		
PI         300+41.77         1410398.08         3220339.39         C1         53.50           P2         PRC         300+70.92         1410435.21         3220320.25		2' 41.77'
PI         300+96.37         1410457.82         3220308.58         C2         126.50           P3         PT         301+21.14         1410483.18         3220306.57                 301                   301	' 22°44'44" RT 50.70	0' 25.70'
N         4°32'02"         W           P4         POE         301+29.33         1410491.35         3220305.92	8.19	0' 25' 50' 100'
TRICKLE 1 12' 00 300H000	DE 300+36.31 P3 - 26.22 P1 301+51:14 DE 301+53:33 BDE 301+53:33	ACCESS T
Sheet Revisions	As Constructed	FAIRFAX DETENTION AND Project No /Code
Date: Comments Init.	No Revisions:	WATER QUALITY POND GEOMETRIC CONTROL-TRICKLE 2 16131-11
		Designer: SJT Structure
COLORADO SPRINGS		Detailer: JAF Numbers
Srkings		Sheet Subset: GEDMETRY Subset Sheets: GC-07 of 07 Sheet Number 16



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#### UTILITY CONTACT LIST

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COMCAST	TOD BELL	719-442-4733	TOD_BELL@COMCAST.COM
LUMEN (FORMERLY CENTURYLINK)	NICHOLAS REED	719-650-3200	NICHOLAS.REED@LUMEN.COM
LUMEN (TERRA TECH)	ROBERT MCLEOD	630-267-6711	RMCLEOD@TERRATECHLLC.NET

#### UTILITY LEGEND

#### OLIALITY LEVEL D

QUALITY LE	VEL D	SURVEY/ABOVE (	GROUND FEATURES
——E?———E?———E'	EXISTING UG ELECTRIC	— Е — — — ОН — — —	EXISTING OVERHEAD ELECTRIC
FO?FO?FO?		E	EXISTING ELECTRIC MANHOLE
— — TV?— — — TV?— — — TV	EXISTING CABLE TV	$\bigcirc$	EXISTING ELECTRIC TRANSMISSION POLE
— — <u>G</u> ? — — <u>G</u> ? — <u>— G</u> ' — <u>— W</u> ? — <u>— W</u> ? — <u>— W</u> '	EXISTING GAS EXISTING IRRIGATION	$\rightarrow$	EXISTING ELECTRIC GUY
<u>→</u> ; <u>→</u> ; <u>→</u> ; <u>→</u>	EXISTING STORM SEWER		ELECTRIC VAULT (NEW INSTALL)
	EXISTING STORM SEWER STORM SEWER (NEW INSTALL)	-	FIBER HANDHOLE (NEW INSTALL)
	EXISTING WATER		EXISTING FIBER HANDHOLE
		o⊖	EXISTING LIGHT POLE
PROP		ST	EXISTING STORM MANHOLE
E E E W W W	PROPOSED UG ELECTRIC LIGHTING PROPOSED WATER		EXISTING STORM INLET
0	PROPOSED WATER TEST STATION		STORM INLET (NEW INSTALL)
∽∽ ⊶⊙ ⊶⊡	PROPOSED LIGHT PROPOSED LIGHTING PEDESTAL	0	STORM MANHOLE (NEW INSTALL)
SI	THUI USED EIGHTING TEDESTRE		STORM INLET (NEW INSTALL)
		T	EXISTING TELEPHONE HANDHOLE
		tv	EXISTING TELEVISION HANDHOLE
		W	EXISTING WATER MANHOLE
		$\bigcirc$	EXISTING WATER TEST STATION
		$\bowtie$	EXISTING WATER VALVE
		٢	TEST HOLE

#### GENERAL UTILITY NOTES

UTILITIES ARE DEPICTED ON THESE PLANS IN ACCORDANCE WITH THEIR ACHIEVED QUALITY LEVELS AS DEFINED IN THE AMERICAN 1. UTILITIES ARE DEPICTED ON THESE PLANS IN ACCORDANCE WITH THEIR ACHIEVED QUALITY LEVELS AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEERS DOCUMENT ASCE 38, STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA. LOCATION OF EXISTING UTILITIES IS DEPICTED ACCORDING TO THE BEST AVAILABLE INFORMATION AND REPRESENT CONDITIONS AT THE TIME OF DATA COLLECTION. THESE PLANS DO NOT RELIEVE THE CONTRACTOR FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES AND PROCEDURES DURING EXCAVATION. ALL PREVENTION SHALL BE BORNE BY THE CONTRACTOR AND SHALL BE COMPLETED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

2. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SUBSECTION 105.11 OF THE CDOT STANDARD SPECIFICATIONS AND THE UTILITY PROJECT SPECIAL PROVISIONS CONCERNING UTILITIES. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH UTILITY OWNERS IN THEIR REMOVAL, ADJUSTMENT, AND/OR RELOCATION OPERATIONS SO THAT THE UTILITY WORK CAN BE ACCOMPLISHED WITHOUT IMPACTING THE CONSTRUCTION SCHEDULE.

3. THE CONTRACTOR SHALL COMPLY WITH ARTICLE 1.5 OF TITLE 9, CRS ("EXCAVATION REQUIREMENTS") WHEN EXCAVATING OR GRADING IS PLANNED IN THE AREA OF UNDERGROUND UTILITY FACILITIES. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITIES AT CONTRACTOR SHALL CONTACT COLORADO 811, TO HAVE LOCATIONS OF UNDERGROUND UTILITIES MARKED BY UNDERGROUND COMPANIES. UTILITY SERVICE LATERALS SHALL ALSO BE LOCATED PRIOR TO BEGINNING EXCAVATION OR GRADING.

4. LOCATING EXISTING UTILITIES THROUGH POTHOLING OR OTHER NON-DESTRUCTIVE METHODS SHALL BE INCLUDED IN THE COST OF THE WORK. USE OF THE TERM "POTHOLING" SHALL NOT BE CONSTRUED TO IMPLY ANY PARTICULAR METHOD OF PROSPECTING. POTHOLING OF AN AREA SHALL TAKE PLACE AT LEAST 10 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATION IN THAT ARF A.

5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING AND COORDINATING WITH THE APPROPRIATE UTILITY REPRESENTATIVES TO BE ON SITE DURING POTHOLING AS NEEDED, AND SHALL LIKEWISE BE RESPONSIBLE FOR DETERMINING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL REFER TO THE UTILITY SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.

6. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH IMPACTED UTILITIES TO ASSURE THE TIMELY RELOCATION OF THEIR FACILITIES. THIS COORDINATION SHALL INCLUDE ANTICIPATED IMPACTED UTILITIES AND UNFORESEEN IMPACTED UTILITIES. THE UTILITY WORK SHALL BE INCLUDED IN THE CONTRACTOR'S CPM SCHEDULE.

7. THE CONTRACTOR IS RESPONSIBLE FOR NOTING ALL UTILITY LOCATIONS ON THE AS-BUILT SET OF DRAWINGS IF THE DOCUMENTS ARE NOT ACCURATE.

8. QUALITY LEVELS DEPICTED ON THESE PLANS ARE BASED ON THE UTILITY INFORMATION FROM CDOT PROJECT 23552. ALL UTILITIES ARE QUALITY LEVEL D.

9. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 20-FEET OF CLEARANCE BETWEEN OVERHEAD TRANSMISSION LINES AND ANY EQUIPMENT, PERSONNEL, AND/OR TOOLS. WHEN WORK MUST BE ACCOMPLISHED NEAR AN OVERHEAD ELECTRICAL LINE, CALL COLORADO SPRINGS UTILITIES INSPECTIONS(QC) (719-668-5538) IN ADVANCE FOR ASSISTANCE IN REVIEWING PROPOSED WORKING CONDITIONS AND HELP IN PREVENTING CONTACT WITH THESE ENERGIZED FACILITIES. IF ANY WORK IS IDENTIFIED WHICH WOULD REQUIRE TAKING THE OVERHEAD TRANSMISSION LINE OUT OF SERVICE, COLORADO SPRINGS UTILITIES NEEDS TO BE NOTIFIED EARLY IN THE PLANNING PROCESS. TRANSMISSION OUTAGES REQUIRE A SIGNIFICANT LEVEL OF PRE- PLANNING AND CAN TAKE MONTHS TO COORDINATE. REFER TO THE COLORADO SPRINGS ELECTRIC LINE EXTENSION AND SERVICE STANDARDS, CHAPTER 2 (AVAILABLE AT WWW.CSU.ORG) FOR ADDITIONAL DETAIL, GUIDANCE, AND REQUIREMENTS.

10. REFER TO CDOT PROJECT 23552 FOR MORE DETAILED UTILITY AND STORM INFORMATION.

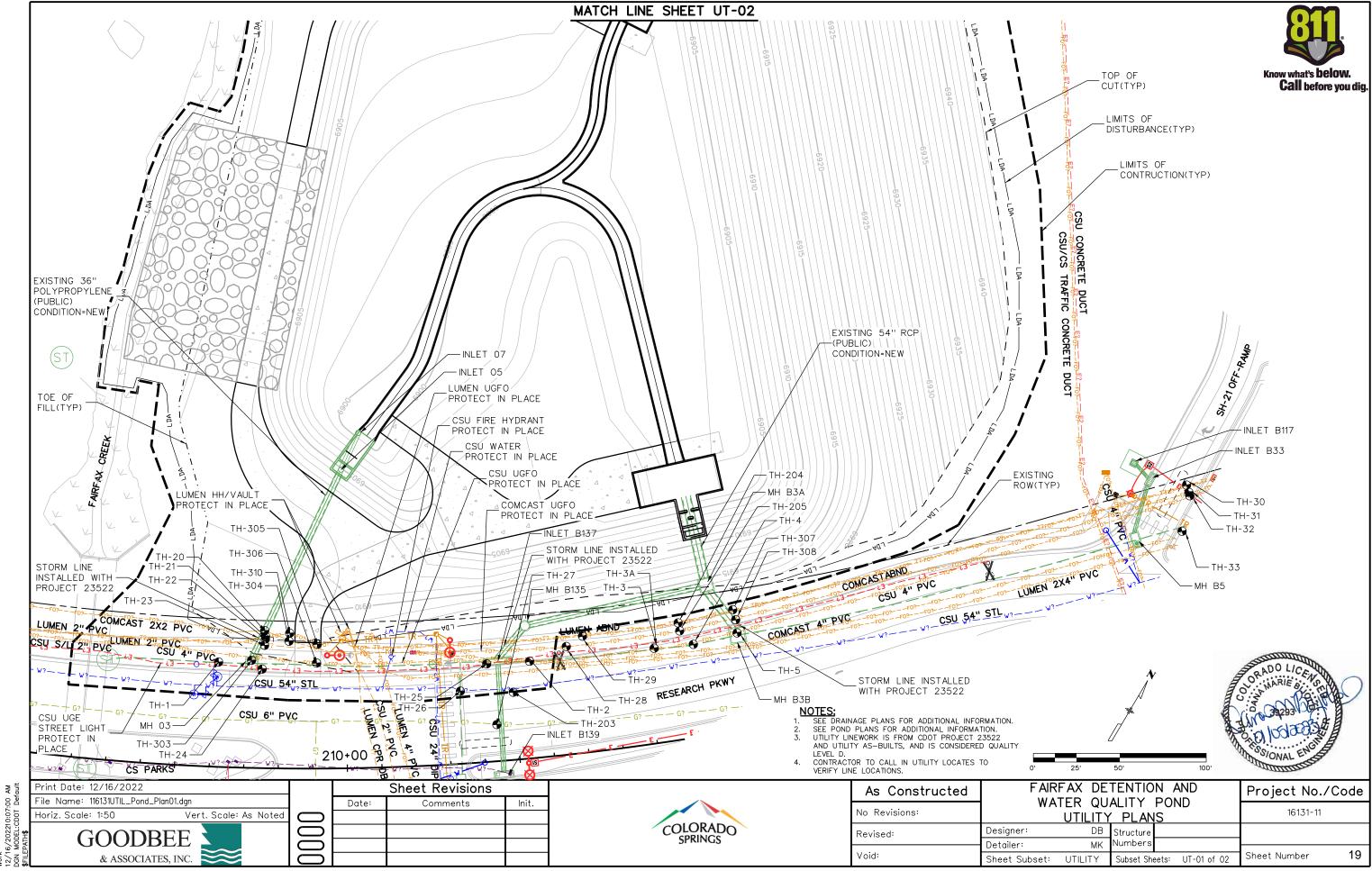
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UTILITY TESTHOLE TABLE															
TH # UTILITY UTILITY LOCATION/COMMENTS							GROUND ELEV SIZE MATERIAL DEPTH TO TOP DEPTH TO BOP TOP				I NORTHING EASTING			DATE OF	
	Infinition     OWNER     TYPE     Lock field (Control) (Contro			(FT) 6909.42	(IN) 52	CONC	(IN) 130	(IN) 182	(FT) 6898.59	(FT) 6894.25	3220295.60	1410045.33	TESTHOLE           4/24/2019		
			6910.10	2X2		45	47	6906.35	6906.18	3220309.30	1410045.55	8/8/2019			
	TH-24	CSU	ELECTRIC	NORTH SIDE OF RESEARCH PKWY, WEST OF CHANNEL DR	6909.25	2	PLASTIC	25	27	6907.17	6907.00	3220319.38	1410054.62	8/7/2019	
	TH-21	LUMEN	FIBER	NORTH SIDE OF RESEARCH PKWY, WEST OF CHANNEL DR	6909.96	2 2X2		32	34	6907.29	6907.13	3220315.38	1410071.93	8/7/2019	
	TH-22	LUMEN	FIBER	NORTH SIDE OF RESEARCH PKWY, WEST OF CHANNEL DR	6909.91	2/12	PLASTIC	56	58	6905.24	6905.08	3220312.12	1410070.57	8/7/2019	
	TH-23	CSU	FIBER	NORTH SIDE OF RESEARCH PKWY, WEST OF CHANNEL DR	6909.91	2	PLASTIC	40	42	6906.58	6906.41	3220313.57	1410067.19	8/8/2019	
	TH-23A	CSU	ELECTRIC	NORTH SIDE OF RESEARCH PKWY, WEST OF CHANNEL DR	6909.91	2	PLASTIC	25	27	6907.83	6907.66	3220313.57	1410067.19	8/7/2019	
	TH-303	COCSS	STORM	NORTH SIDE OF RESEARCH PKWY, WEST OF CHANNEL DR	6909.89	40	CONCRETE	128	168	6899.22	6895.89	3220311.56	1410055.92	5/12/2020	
	TH-304	COMCAST	FIBER	NORTH SIDE OF RESEARCH PKWY, WEST OF CHANNEL DR	6910.65	2X2		38	42	6907.49	6907.15	3220324.54	1410076.40	5/7/2020	
	TH-305	LUMEN	TELEPHONE	NORTH SIDE OF RESEARCH PKWY, WEST OF CHANNEL DR	6910.76	1	PLASTIC	26	27	6908.59	6908.51	3220339.49	1410083.22	5/7/2020	
	TH-306	CSU	FIBER	NORTH SIDE OF RESEARCH PKWY, WEST OF CHANNEL DR	6910.28	4	PLASTIC	46	50	6906.45	6906.11	3220344.68	1410073.62	5/7/2020	
	TH-310	LUMEN	FIBER	NORTH SIDE OF RESEARCH PKWY, WEST OF CHANNEL DR	6910.63	2	PLASTIC	43	45	6907.05	6906.88	3220322.54	1410080.61	5/7/2020	
	TH-26*	NA	NA	NORTH SIDE OF WESTBOUND RESEARCH PKWY, EAST OF CHANNEL DR	6911.01	NA	NA	NA	NA	NA	NA	3220425.44	1410102.13	Survey	
	PH-1A*	CSU	WATER	NORTH SIDE OF WESTBOUND RESEARCH PKWY, EAST OF CHANNEL DR	6911.01	54	STEEL	107	161	6902.09	6897.59	3220425.44	1410102.13	only see 10/29/2018	
	PH-1B*	COCSS	STORM	NORTH SIDE OF WESTBOUND RESEARCH PKWY, EAST OF CHANNEL DR	6911.01	15	STEEL	68	83	6905.34	6904.09	3220425.44	1410102.13	10/29/2018	
	TH-25	CSU	ELECTRIC	NORTH SIDE OF RESEARCH PKWY, EAST OF CHANNEL DR	6911.29	2	PLASTIC	26	28	6909.12	6908.96	3220429.63	1410123.29	8/9/2019	
	TH-27	CSU	GAS	CENTER OF WESTBOUND RESEARCH PKWY, EAST OF CHANNEL DR	6912.26	6	PLASTIC	84	90	6905.26	6904.76	3220452.55	1410096.07	8/13/2019	
	TH-203	CSU	WATER	NORTH SIDE OF WESTBOUND RESEARCH PKWY, EAST OF CHANNEL DR	6912.053	54	STEEL	144	198	6900.05	6895.55	3220449.43	1410118.47	11/15/2019	
	TH-2	COCSS	STORM	NORTH SIDE OF RESEARCH PKWY, WEST OF SH 21	6912.15	52	CONC	36	88	6909.15	6904.82	3220450.20	1410137.23	4/24/2019	
	TH-28	COMCAST	FIBER	NORTH SIDE OF RESEARCH PKWY, WEST OF SH 21	6912.79	2X2		27	29	6910.54	6910.37	3220462.35	1410156.83	11/6/2019	
	TH-29	LUMEN	FIBER	NORTH SIDE OF RESEARCH PKWY, WEST OF SH 21	6913.189	2x4	PLASTIC	48	52	6909.19	6908.86	3220467.36	1410166.75	11/6/2019	
	TH-3	LUMEN	STORM	NORTH SIDE OF RESEARCH PKWY, WEST OF SH 21	6913.44	52	CONC	37	89	6910.36	6906.02	3220508.38	1410180.36	4/24/2019	
	TH-3A	LUMEN	FIBER	NORTH SIDE OF RESEARCH PKWY, WEST OF SH 21	6913.44	2	PLASTIC	35	37	6910.52		3220508.38	1410180.36		
	TH-204	LUMEN	FIBER	NORTH SIDE OF RESEARCH PKWY, WEST OF SH 21	6914.272	2x4		49	53	6910.19	6909.86	3220511.08	1410201.54	11/6/2019	
	TH-205	LUMEN	FIBER	NORTH SIDE OF RESEARCH PKWY, WEST OF SH 21	6914.085	2	PLASTIC	29	31	6911.67	6911.50	3220514.20	1410198.07	11/6/2019	
	TH-4	LUMEN	STORM	NORTH SIDE OF RESEARCH PKWY, WEST OF SH 21	6913.91	52	CONC	38	90	6910.74	6906.41	3220526.75	1410193.92	4/24/2019	
	TH-5	LUMEN	STORM	NORTH SIDE OF RESEARCH PKWY, WEST OF SH 21	6914.46	52	CONC	35	87	6911.54	6907.21	3220545.14	1410212.41	4/24/2019	
	TH-307	LUMEN	FIBER	NORTH SIDE OF RESEARCH PKWY, WEST OF SH 21	6915.18	4X4		56	60	6910.51	6910.18	3220536.19	1410222.63	5/7/2020	
	TH-308	LUMEN	FIBER	NORTH SIDE OF RESEARCH PKWY, WEST OF SH 21	6915.09	2	PLASTIC	35	37	6912.17	6912.00	3220540.63	1410218.53	5/7/2020	ICENT
<u>)TES:</u>	TH-33	LUMEN	STORM	NORTH SIDE OF WESTBOUND RESEARCH PKWY,WEST OF SH 21	6922.82	54	STEEL	65	119	6917.40	6912.90	3220736.76	1410394.01	8/12/2019	Eoro
UTILITY TESTHOLES ARE FROM CDOT PROJECT 23522 AND ARE FOR	TH-30	LUMEN	FIBER	NORTH SIDE OF RESEARCH PKWY, WEST OF SH 21	6924.684	4	PLASTIC	45	49	6920.93	6920.60	3220723.62	1410419.75	11/5/2019	HEALE
INFORMATION ONLY. TESTHOLES PH-1A, PH-1B WERE	TH-31	CSU	FIBER	NORTH SIDE OF RESEARCH PKWY, WEST OF SH 21	6924.746	4x2	PLASTIC	28	30	6922.41	6922.25	3220725.02	1410415.75	11/5/2019	JEB JE
SURVEYED AS TH-26. TESTHOLE PH-2 WAS	TH-32	COMCAST	FIBER	NORTH SIDE OF RESEARCH PKWY, WEST OF SH 21	6924.509	-1X2 2X2		32	34	6921.84	6921.68	3220728.41	1410415.42	11/5/2019	L ENGINE
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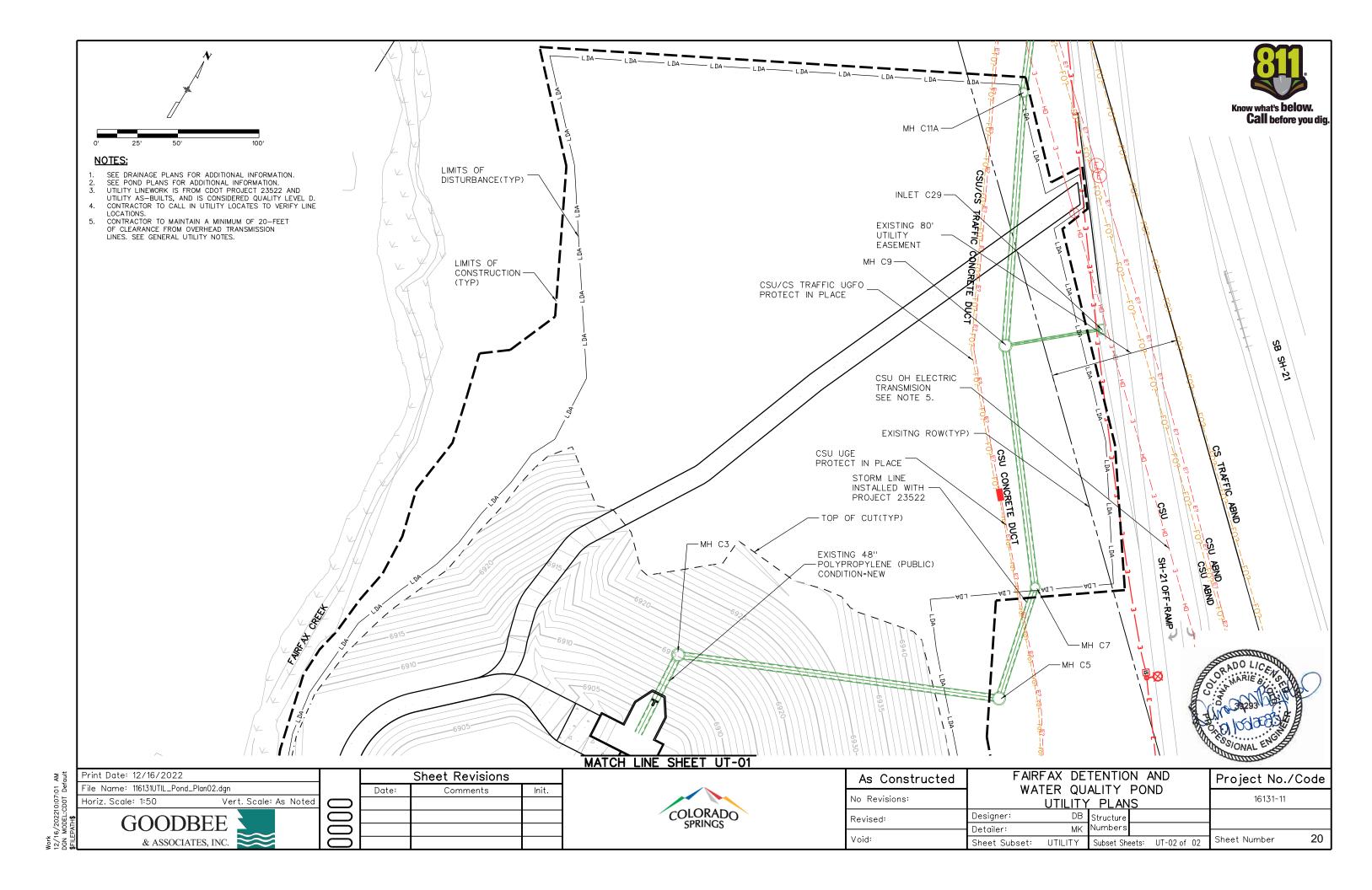
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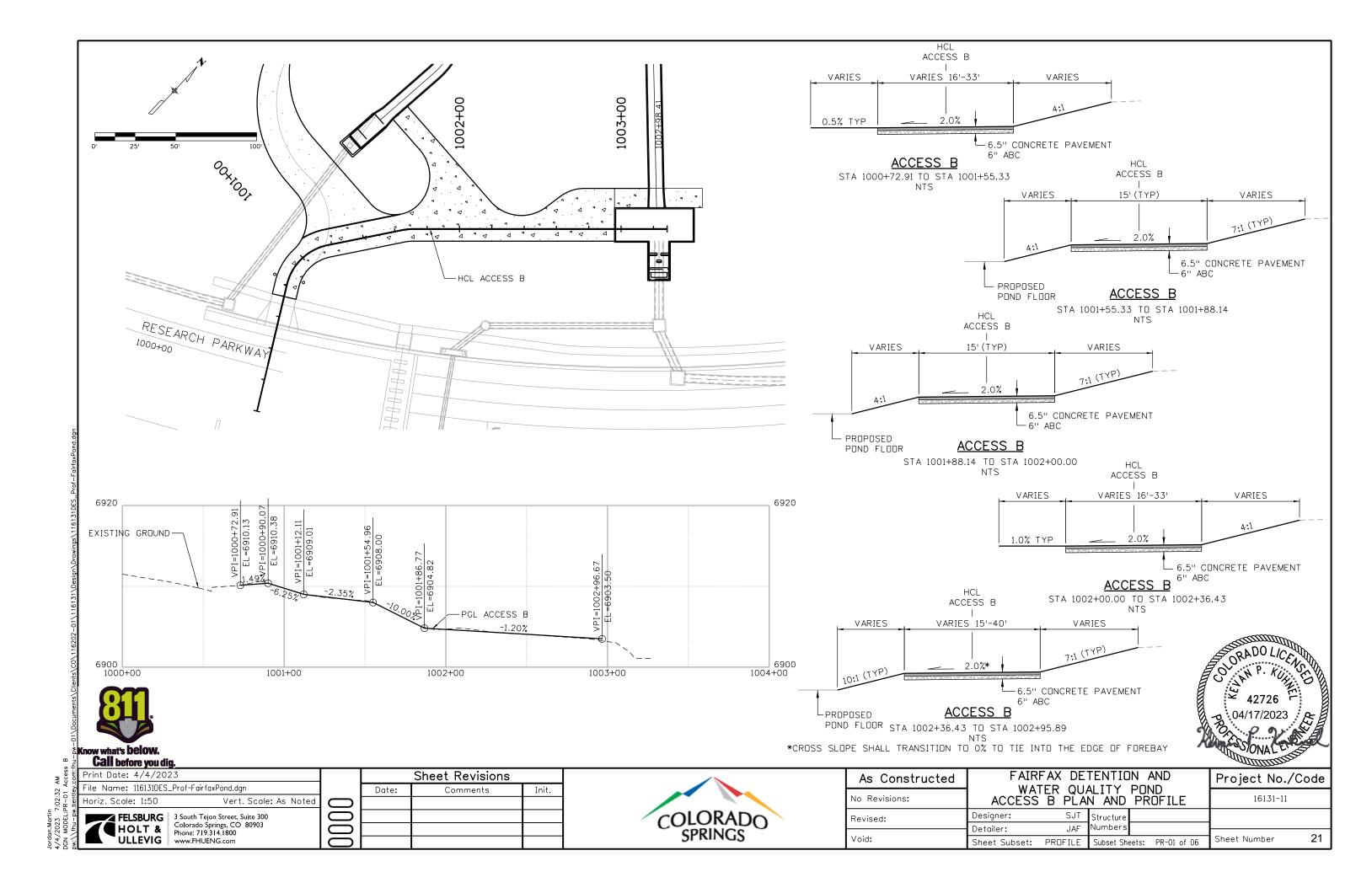
FO BOF N)	P TOP ELEV (FT)	BOP ELEV (FT)	NORTHIN	IG EASTING	DATE OF TESTHOLE		
2	6898.59	6894.25	3220295.6	50 1410045.33	4/24/2019		
7	6906.35	6906.18	3220309.3	30 1410074.51	8/8/2019		
7	6907.17	6907.00	3220319.3	38 1410054.62	8/7/2019		
1	6907.29	6907.13	3220311.4	14 1410071.93	8/7/2019		
3	6905.24	6905.08	3220312.1	1410070.57	8/7/2019		
2	6906.58	6906.41	3220313.5	57 1410067.19	8/8/2019		
7	6907.83	6907.66	3220313.5	57 1410067.19	8/7/2019		
8	6899.22	6895.89	3220311.5	56 1410055.92	5/12/2020		
2	6907.49	6907.15	3220324.5	54 1410076.40	5/7/2020		
7	6908.59	6908.51	3220339.4	19 1410083.22	5/7/2020		
)	6906.45	6906.11	3220344.6	58 1410073.62	5/7/2020		
5	6907.05	6906.88	3220322.5	54 1410080.61	5/7/2020		
A	NA	NA	3220425.4	14 1410102.13	Survey only see		
1	6902.09	6897.59	3220425.4	14 1410102.13	10/29/2018		
3	6905.34	6904.09	3220425.4	14 1410102.13	10/29/2018		
3	6909.12	6908.96	3220429.6	53 1410123.29	8/9/2019		
)	6905.26	6904.76	3220452.5	55 1410096.07	8/13/2019		
98	6900.05	6895.55	3220449.4	43 1410118.47	11/15/2019		
3	6909.15	6904.82	3220450.2	20 1410137.23	4/24/2019		
9	6910.54	6910.37	3220462.3	35 1410156.83	11/6/2019		
2	6909.19	6908.86	3220467.3	36 1410166.75	11/6/2019		
)	6910.36	6906.02	3220508.3	38 1410180.36	4/24/2019		
7	6910.52	6910.36	3220508.3	38 1410180.36	4/24/2019		
3	6910.19	6909.86	3220511.0	08 1410201.54	11/6/2019		
1	6911.67	6911.50	3220514.2	20 1410198.07	11/6/2019		
)	6910.74	6906.41	3220526.7	75 1410193.92	4/24/2019		
7	6911.54	6907.21	3220545.1	14 1410212.41	4/24/2019		
)	6910.51	6910.18	3220536.1	19 1410222.63	5/7/2020		
7	6912.17	6912.00	3220540.6	53 1410218.53	5/7/2020		
9	6917.40	6912.90	3220736.7	76 1410394.01	8/12/2019		
9	6920.93	6920.60	3220723.0	62 1410419.75	11/5/2019		
D	6922.41	6922.25	3220726.9	92 1410416.82	11/5/2019		
4	6921.84	6921.68	3220728.4	41 1410415.42	11/5/2019		
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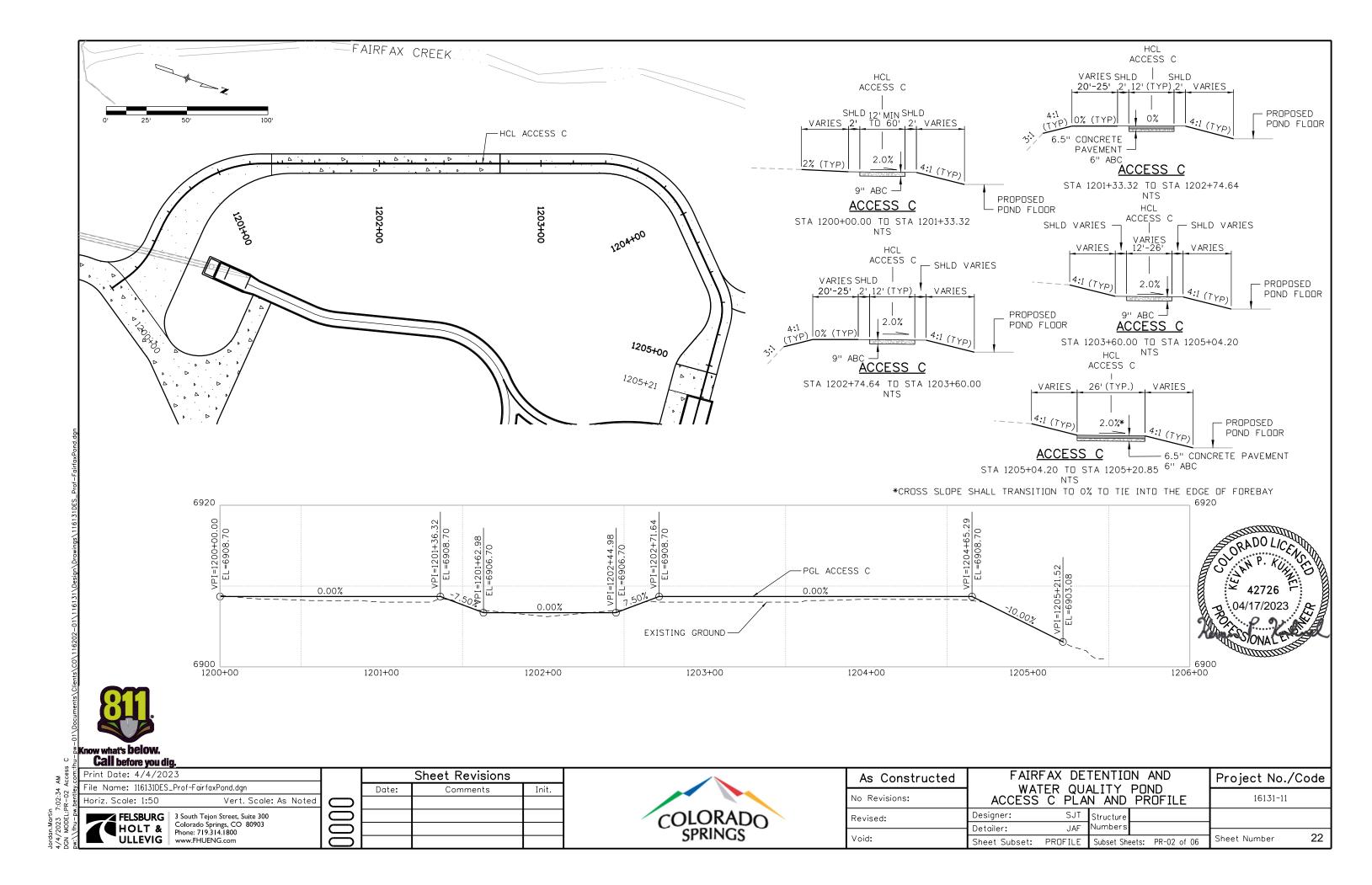


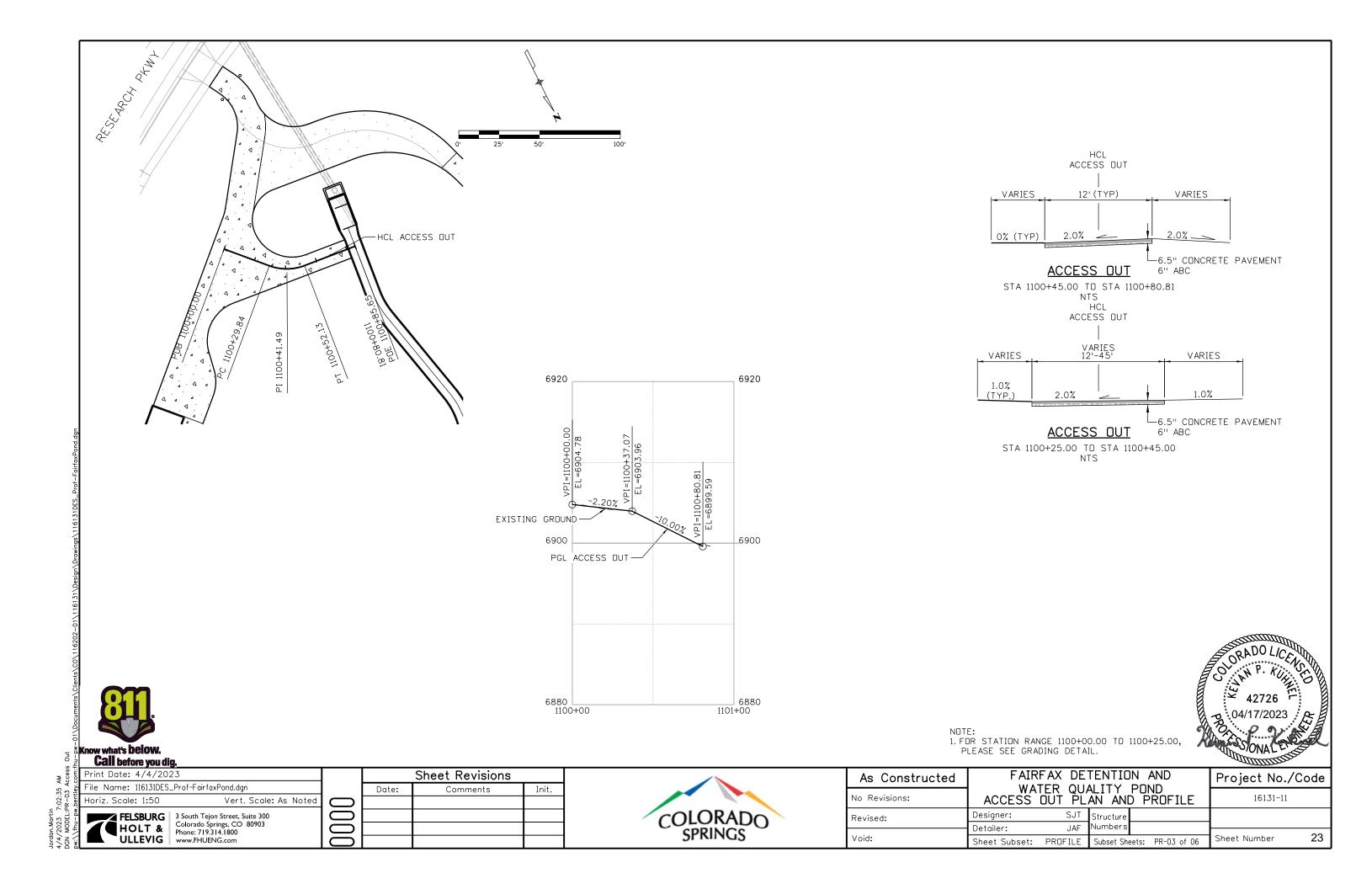
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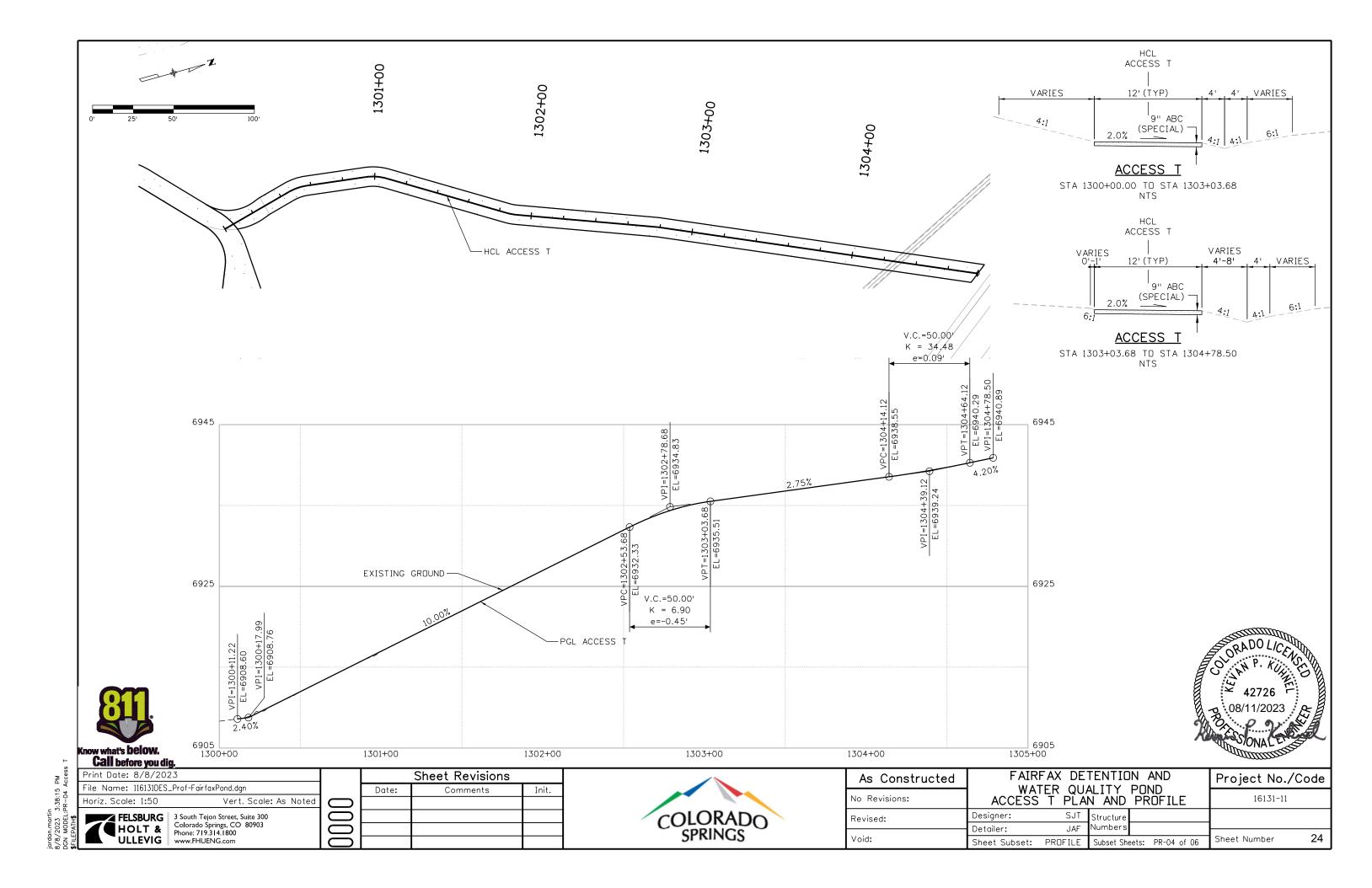
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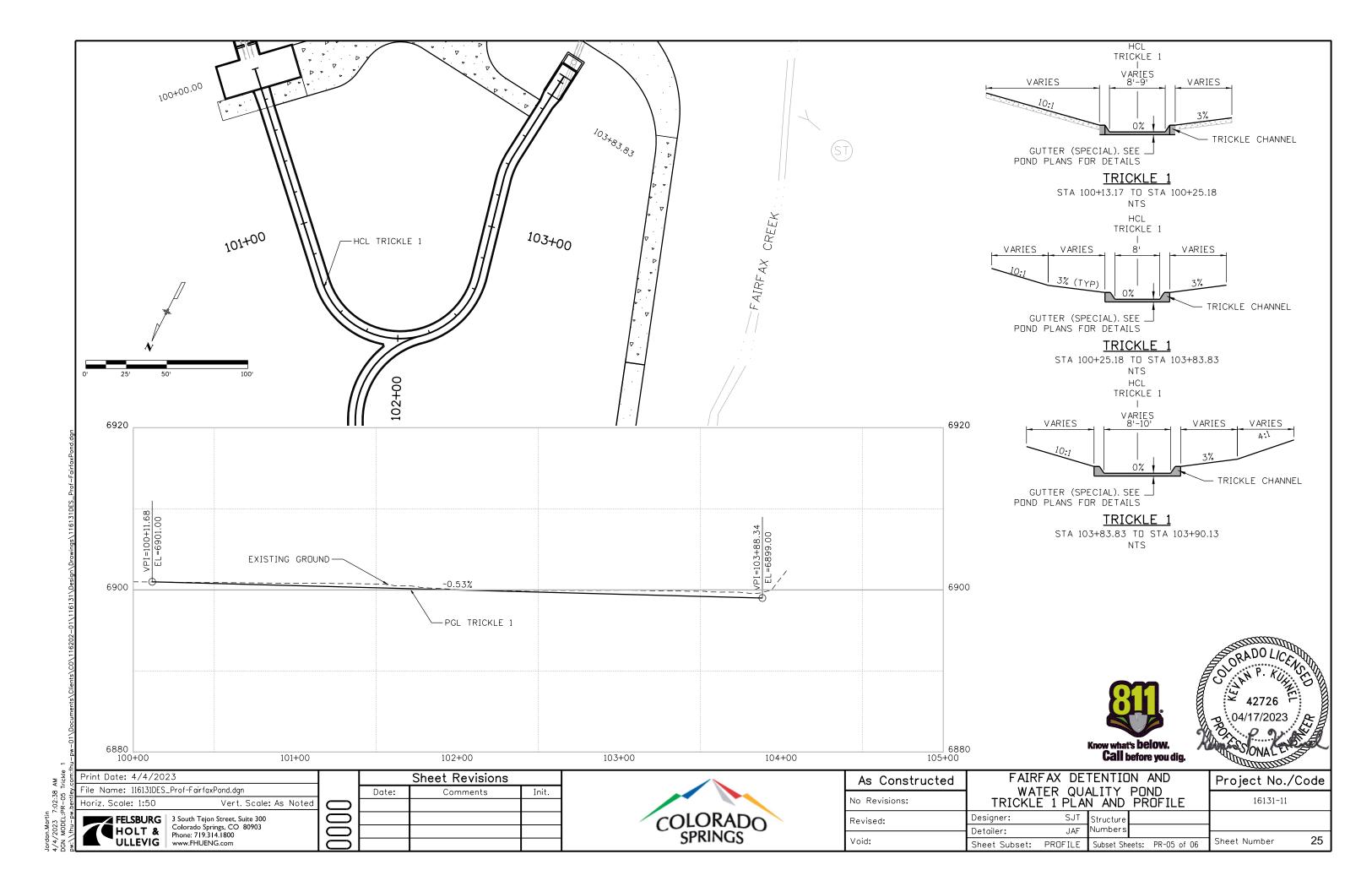


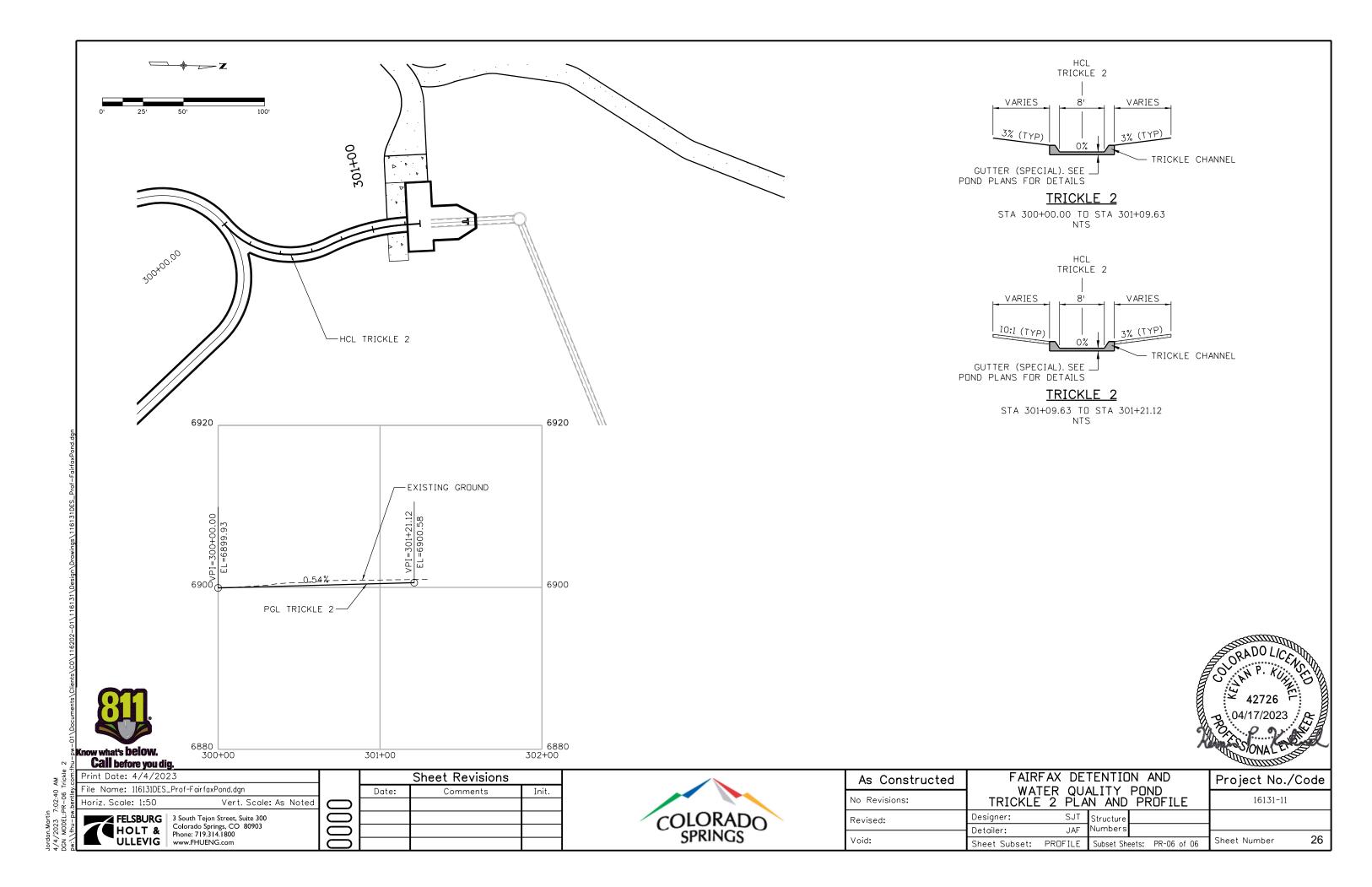


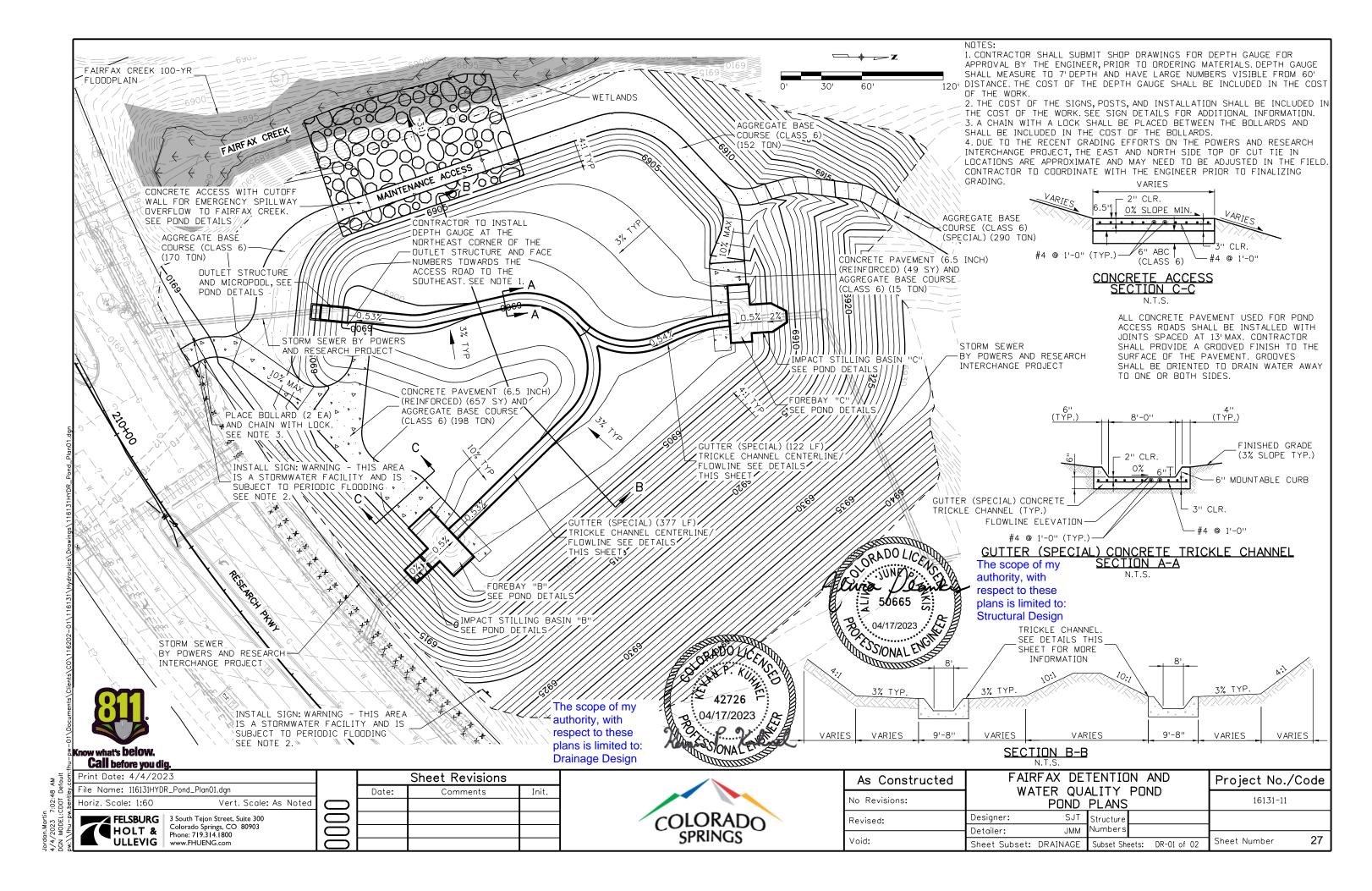


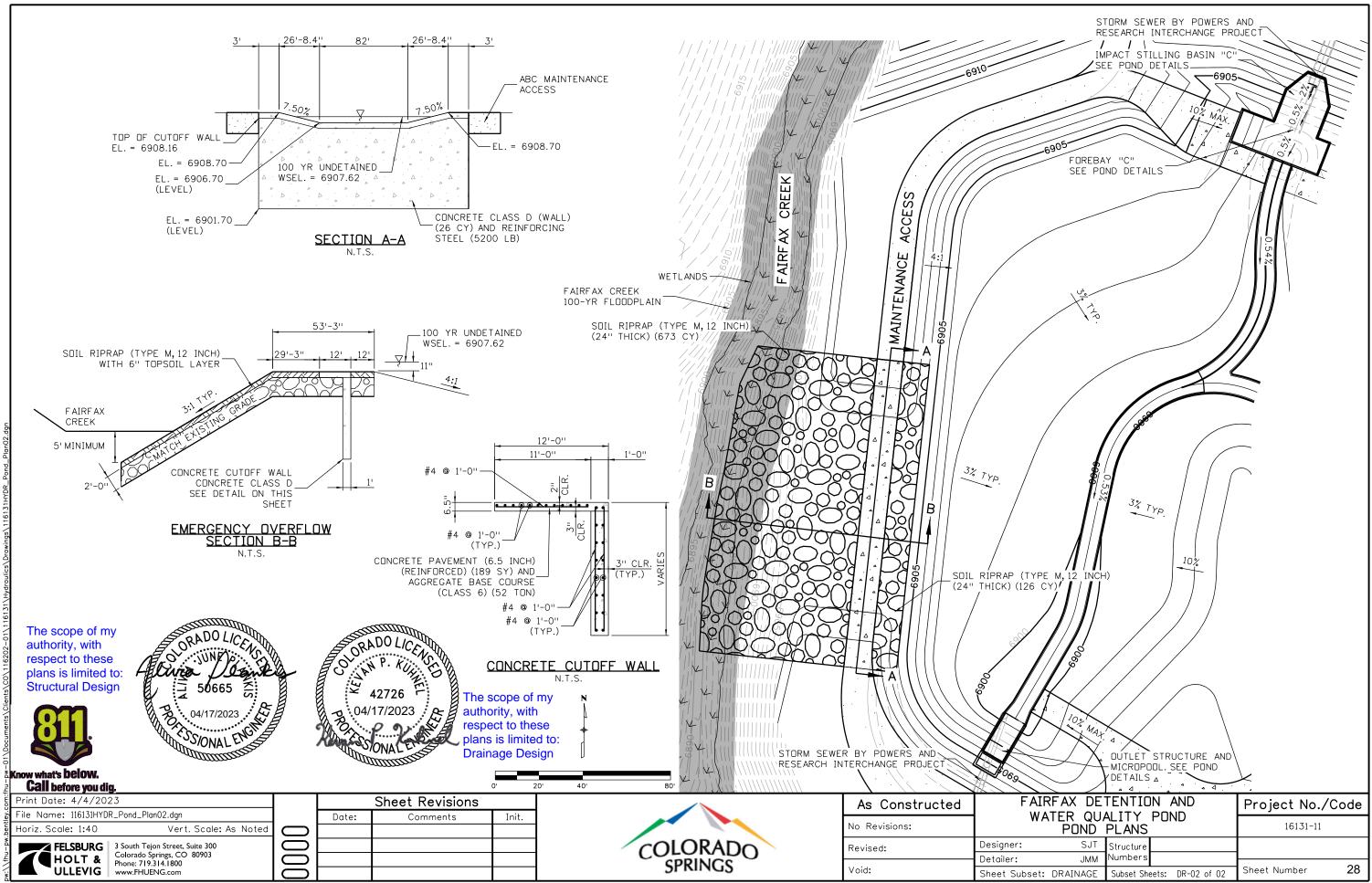




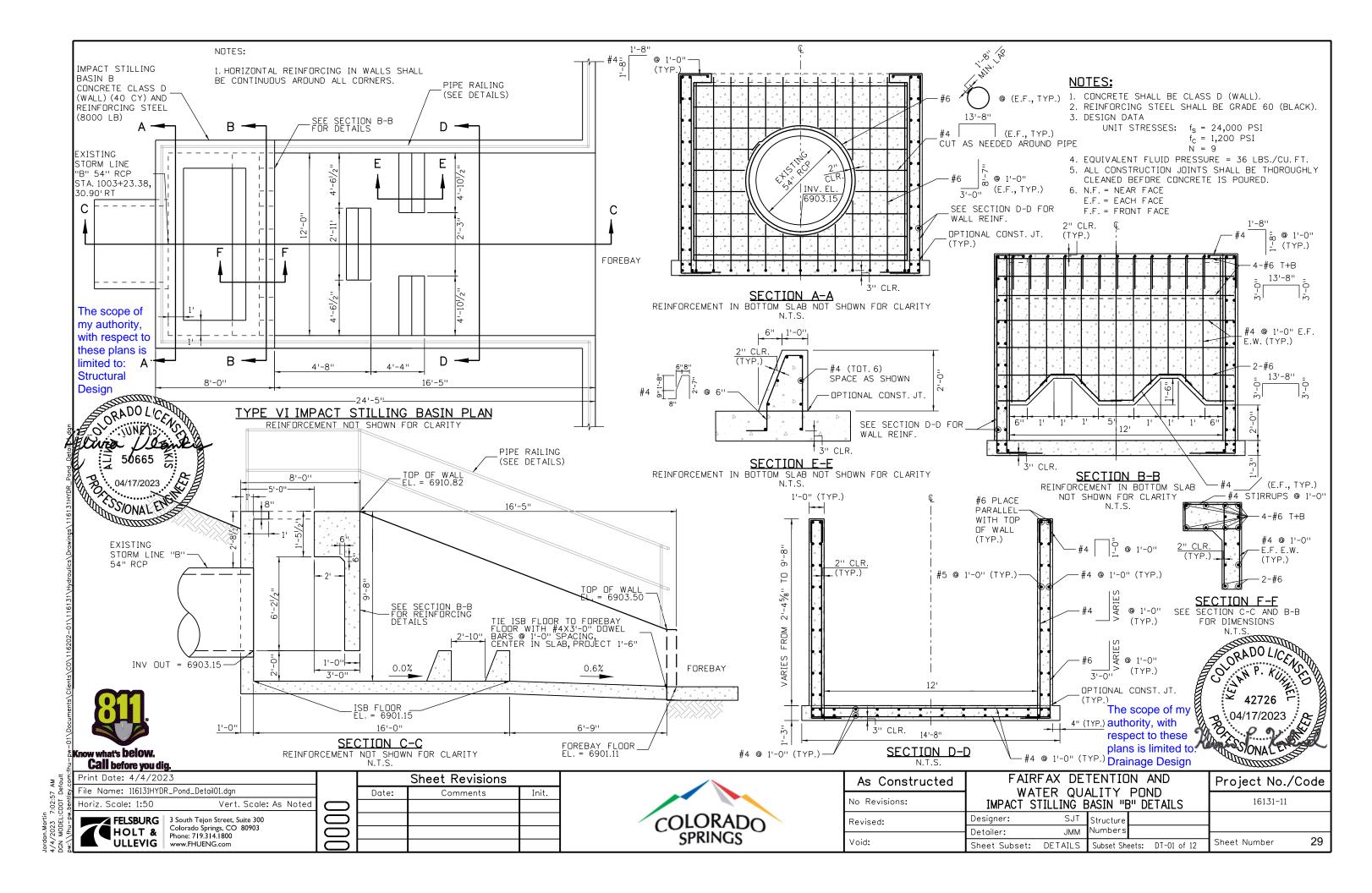


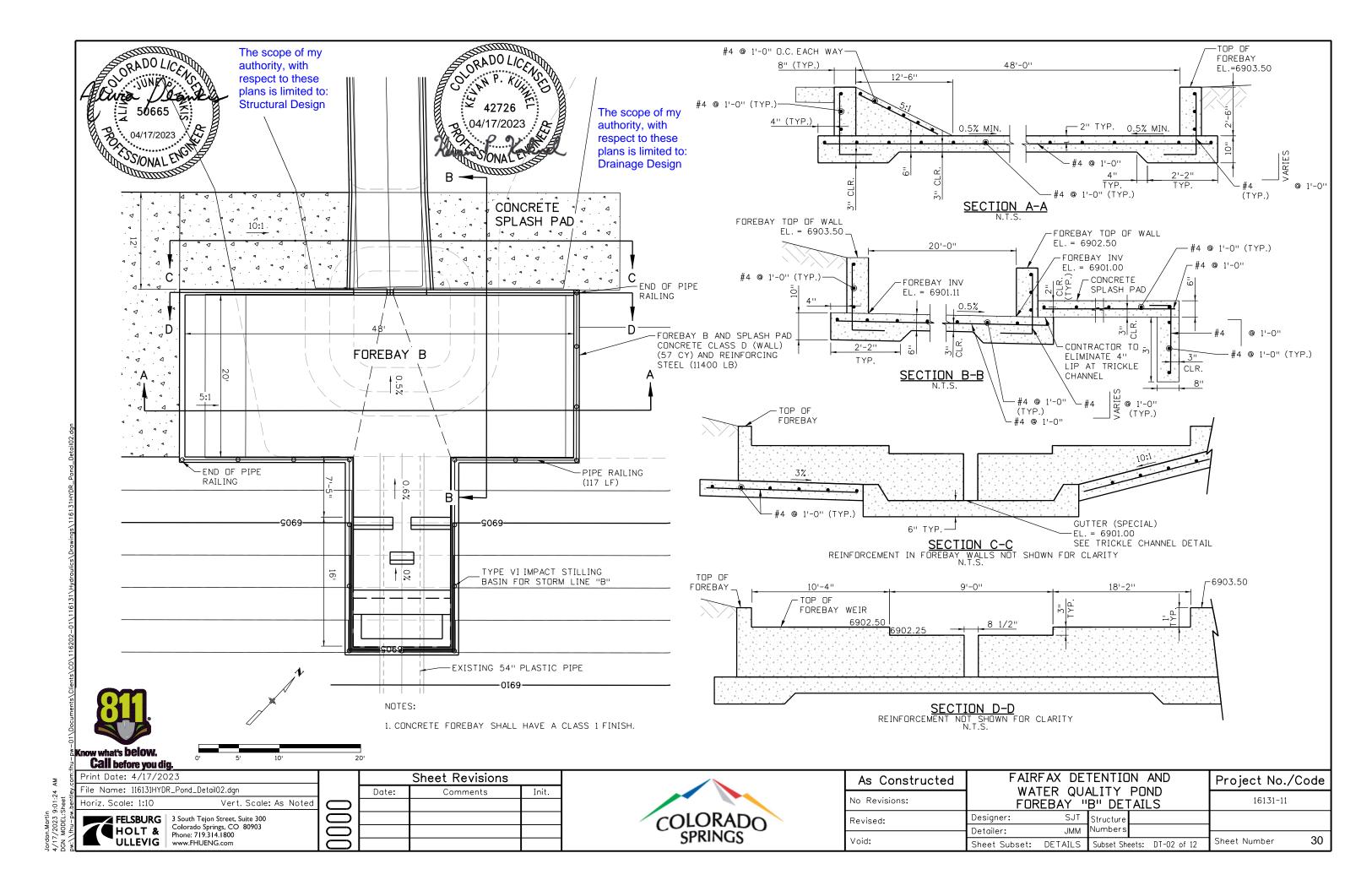


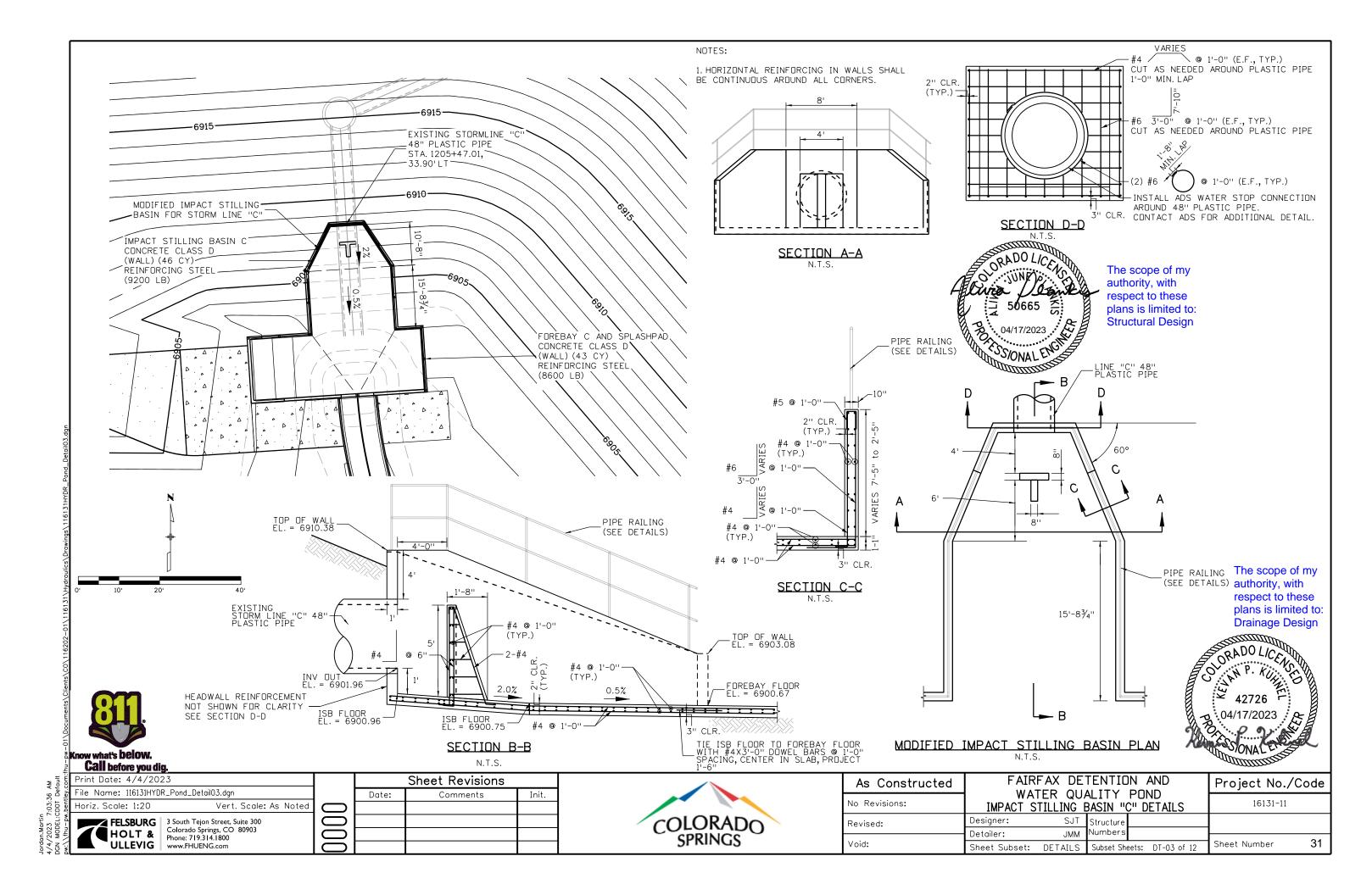


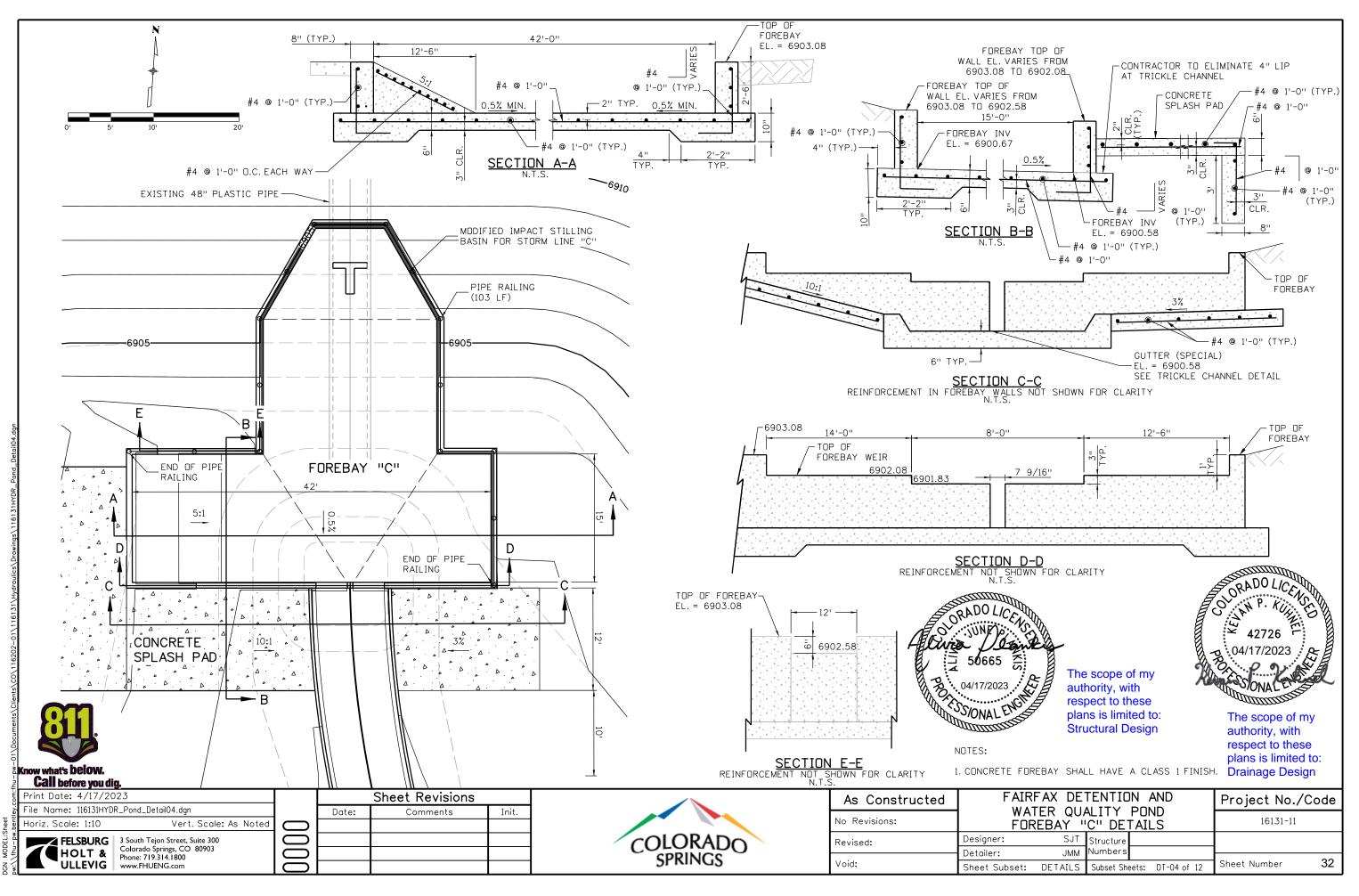


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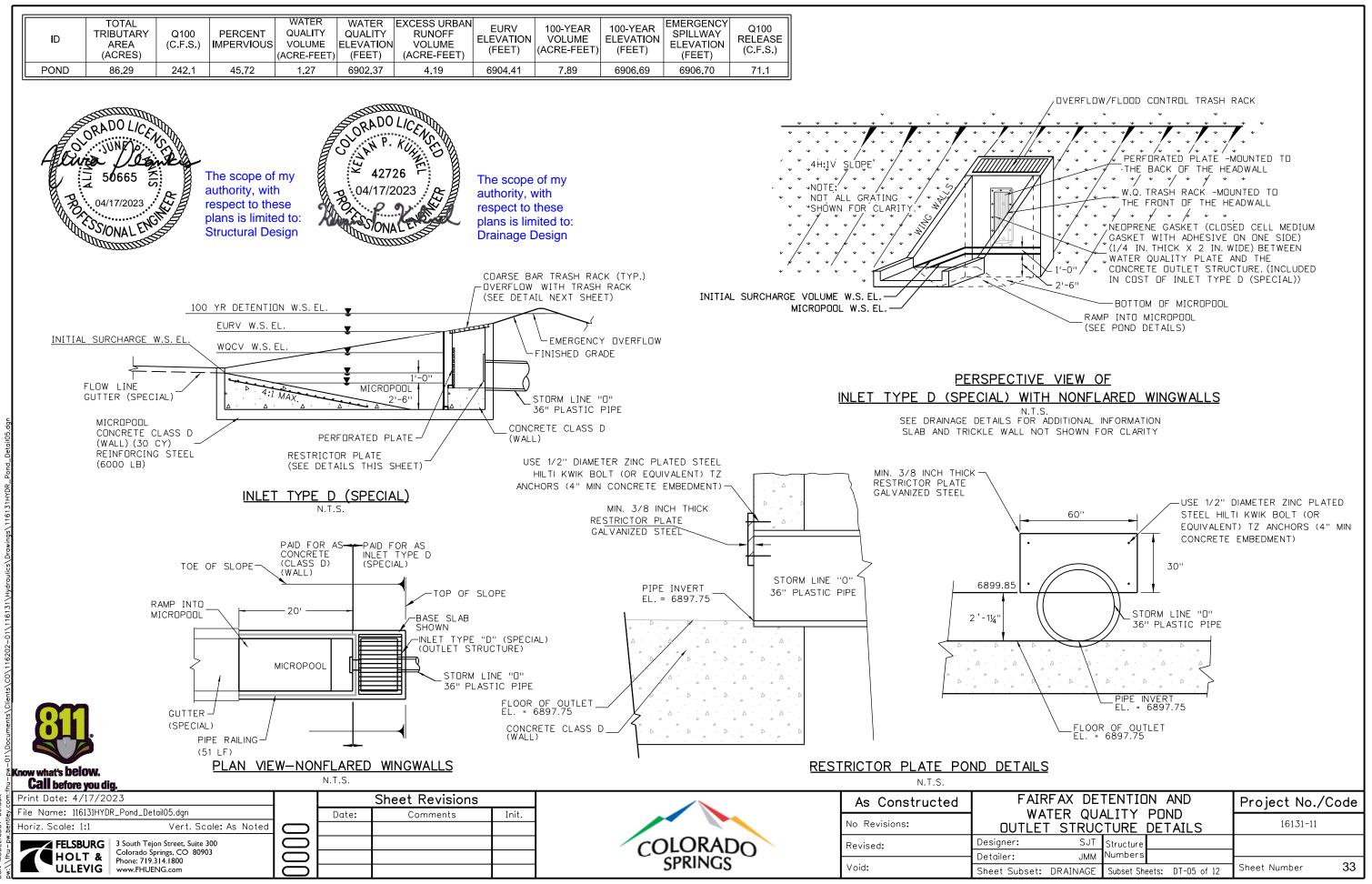




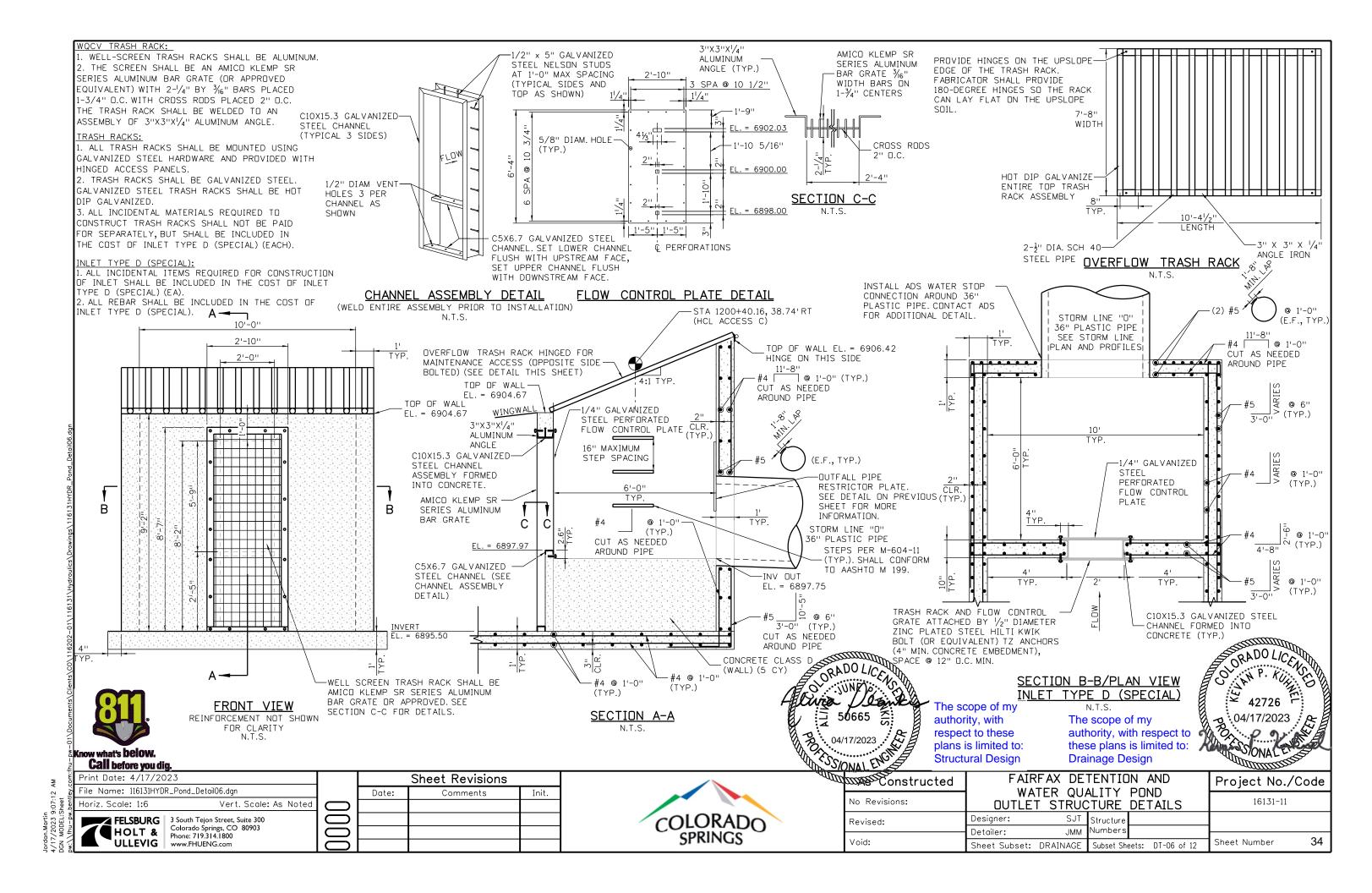


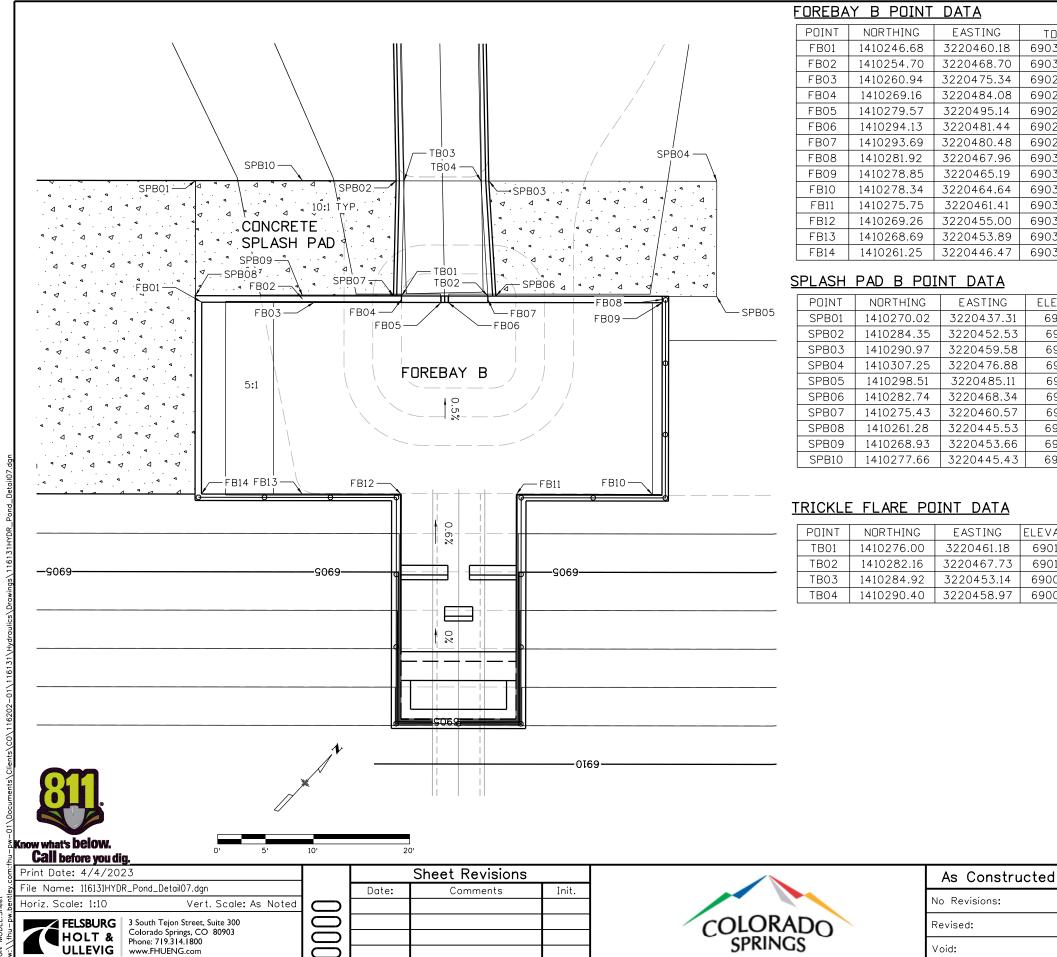


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DESCRIPTION
FOREBAY WALL - FINISHED GRADE
FOREBAY WALL - 1' TOP OF WALL STEP
FOREBAY WALL - FINISHED GRADE
LIMITS OF 3" DEPRESSION - FINISHED GRADE
FOREBAY WALL - FINISHED GRADE
FOREBAY WALL - FINISHED GRADE
LIMITS OF 3" DEPRESSION - FINISHED GRADE
FOREBAY WALL - 1' TOP OF WALL STEP
FOREBAY WALL - FINISHED GRADE

TOP

6903.50

6903.50

6902.50

6902.50

6902.25

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6902.50

6903.50

6903.50

6903.50

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6903.50

6903.50

ELEVATION

6903.44

6901.44

6901.44

6902.15

6902.19

6901.50

6901.50

6903.50

6902.50

6902.44

ELEVATION

6901.00

6901.00

6900.94

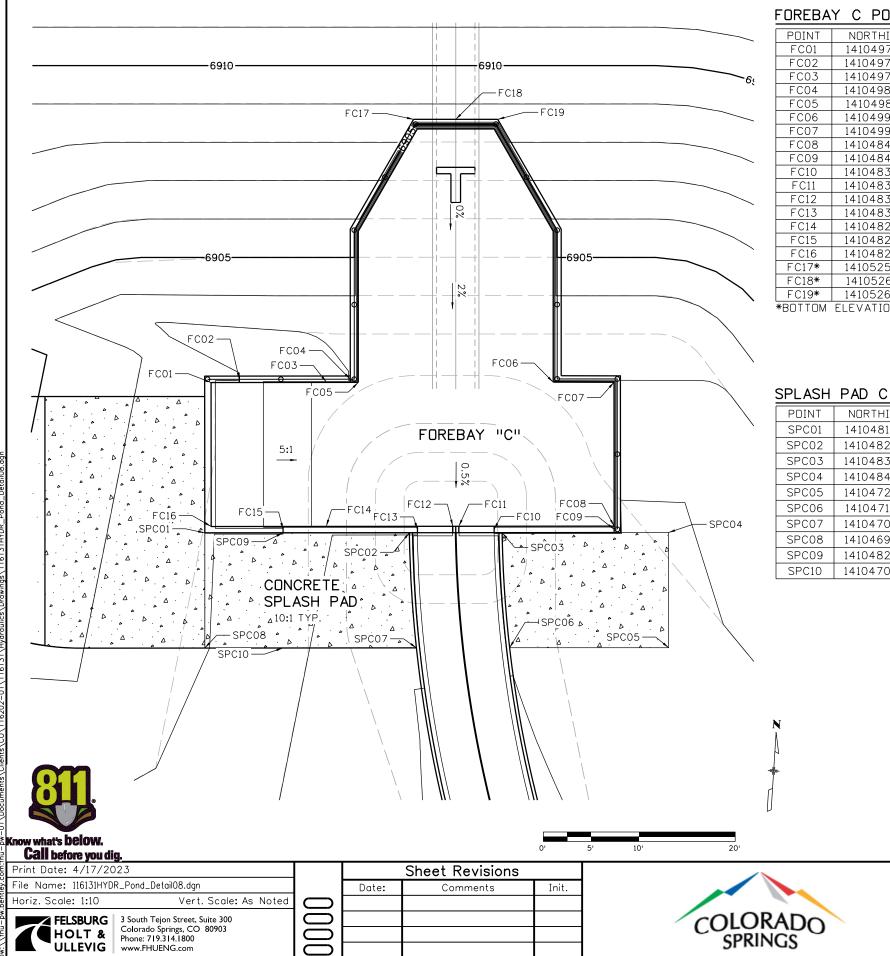
6900.94

DESCRIPTION								
EDGE	OF	CONCRETE	SPLASH	PAD				
EDGE	OF	CONCRETE	SPLASH	PAD				
EDGE	OF	CONCRETE	SPLASH	PAD				
EDGE	OF	CONCRETE	SPLASH	PAD				
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EDGE	OF	CONCRETE	SPLASH	PAD				
EDGE	OF	CONCRETE	SPLASH	PAD				
EDGE	OF	CONCRETE	SPLASH	PAD				

DESCRIPTION							
TRICKLE FLOWLINE, BEGIN TRICKLE FLARE							
TRICKLE FLOWLINE, BEGIN TRICKLE FLARE							
TRICKLE FLOWLINE, END TRICKLE FLARE							
TRICKLE FLOWLINE, END TRICKLE FLARE							

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#### FOREBAY C POINT DATA

FUREBA	T C PUINT	DATA						
POINT	NORTHING	EASTING	TOP	BOTTOM	DESCRIPTION			
FC01	1410497.17	3220280.12	6903.08	6903.08	FOREBAY WALL - FINISHED GRADE			
FC02	1410497.70	3220283.04	6903.08	6902.58	LIMITS OF 6" DEPRESSION - FINISHED GRADE			
FC03	1410497.95	3220292.10	6902.58	6900.69	FOREBAY WALL - FINISHED GRADE			
FCO4	1410498.45	3220294.58	6903.08	6902.58	LIMITS OF 6" DEPRESSION - FINISHED GRADE			
FC05	1410498.17	3220295.43	6903.08	6900.67	FOREBAY WALL - FINISHED GRADE			
FC06	1410499.49	3220315.70	6903.08	6900.67	FOREBAY WALL - FINISHED GRADE			
FC07	1410499.89	3220322.03	6903.08	6900.70	FOREBAY WALL - FINISHED GRADE			
FC08	1410484.92	3220323.00	6903.08	6900.66	FOREBAY WALL - FINISHED GRADE			
FCO9	1410484.59	3220323.02	6903.08	6902.08	FOREBAY WALL - 1' TOP OF WALL STEP			
FC10	1410483.78	3220310.55	6902.08	6901.83	LIMITS OF 3" DEPRESSION - FINISHED GRADE			
FC11	1410483.87	3220306.85	6901.83	6900.58	FOREBAY WALL - FINISHED GRADE			
FC12	1410483.83	3220306.22	6901.83	6900.58	FOREBAY WALL - FINISHED GRADE			
FC13	1410483.26	3220302.56	6902.08	6901.83	LIMITS OF 3" DEPRESSION - FINISHED GRADE			
FC14	1410482.98	3220293.07	6902.08	6900.69	FOREBAY WALL - FINISHED GRADE			
FC15	1410482.35	3220288.58	6903.08	6902.08	FOREBAY WALL - 1' TOP OF WALL STEP			
FC16	1410482.20	3220281.09	6903.08	6903.08	FOREBAY WALL - FINISHED GRADE			
FC17*	1410525.90	3220299.44	6910.38	6908.70	ISB HEADWALL - FINISHED GRADE			
FC18*	1410526.18	3220303.81	6910.38	6908.80	ISB HEADWALL - FINISHED GRADE			
FC19*	1410526.46	3220308.18	6910.38	6908.70	ISB HEADWALL - FINISHED GRADE			
*BOTTOM	*BOTTOM ELEVATION IS FINISHED GRADE OF SOIL ON THE HIGH SIDE OF THE WALL							

#### SPLASH PAD C POINT DATA

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
SPC01	1410481.49	3220280.46	6903.08	EDGE OF CONCRETE SPLASH PAD
SPC02	1410482.87	3220301.75	6901.08	EDGE OF CONCRETE SPLASH PAD
SPC03	1410483.50	3220311.39	6901.08	EDGE OF CONCRETE SPLASH PAD
SPC04	1410484.62	3220328.70	6901.60	EDGE OF CONCRETE SPLASH PAD
SPC05	1410472.65	3220329.48	6901.51	EDGE OF CONCRETE SPLASH PAD
SPC06	1410471.57	3220312.94	6901.02	EDGE OF CONCRETE SPLASH PAD
SPC07	1410470.94	3220303.24	6901.02	EDGE OF CONCRETE SPLASH PAD
SPC08	1410469.52	3220281.24	6903.02	EDGE OF CONCRETE SPLASH PAD
SPC09	1410482.02	3220288.60	6902.38	EDGE OF CONCRETE SPLASH PAD
SPC10	1410470.04	3220289.37	6902.32	EDGE OF CONCRETE SPLASH PAD

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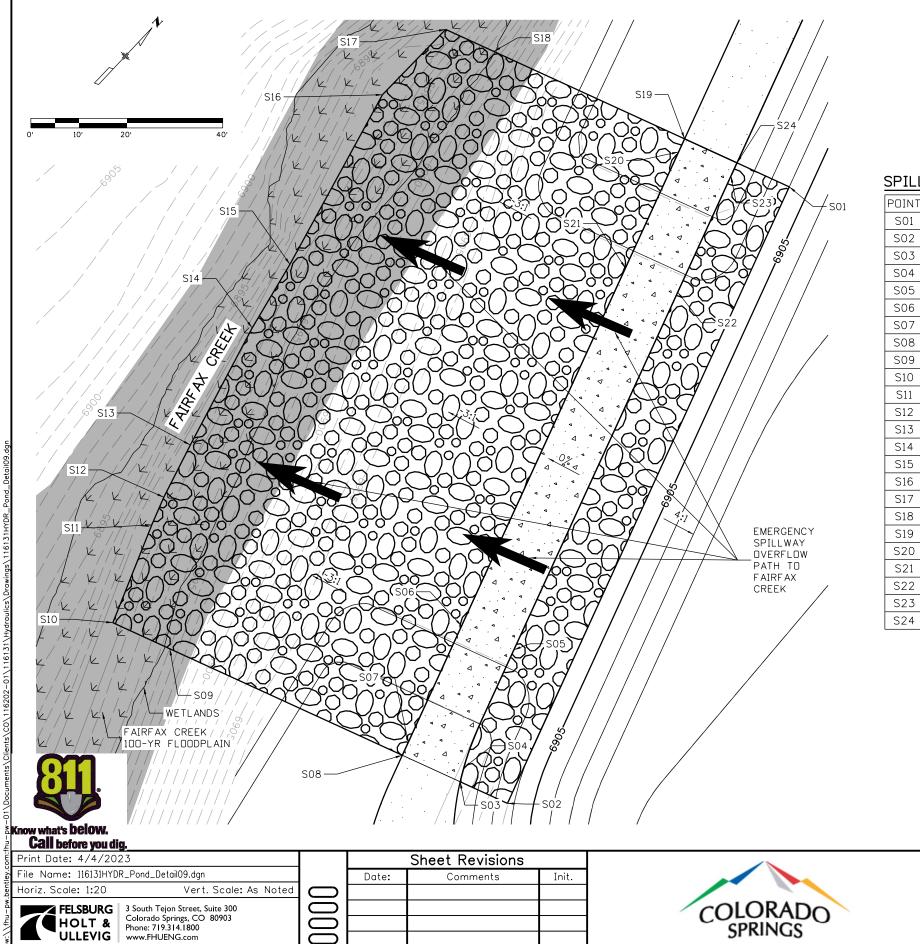
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#### 3220199.30 1410331.53 S02 1410197.71 3220244.72 S03 1410194.23 3220234.47 S04 1410196.91 3220233.02 S05 3220223.75 1410221.92 S06 1410218.07 3220212.39 S07 1410192.82 3220220.94 S08 1410189.98 3220221.90 S09 1410172.87 3220171.40 3220159.05 S10 1410168.69 S11 1410189.07 3220150.96 S12 1410195.00 3220148.83 S13 1410206.69 3220145.38 S14 1410233.30 3220138.01 S15 1410248.35 3220134.65 S16 1410287.30 3220124.42 S17 1410306.25 3220124.66 S18 1410309.79 3220135.12 S19 1410323.83 3220176.56 S20 3220177.53 1410320.99

1410295.74

1410299.59

1410324.84

1410327.68

NORTHING

EASTING

3220186.08

3220197.45

3220188.89

3220187.93

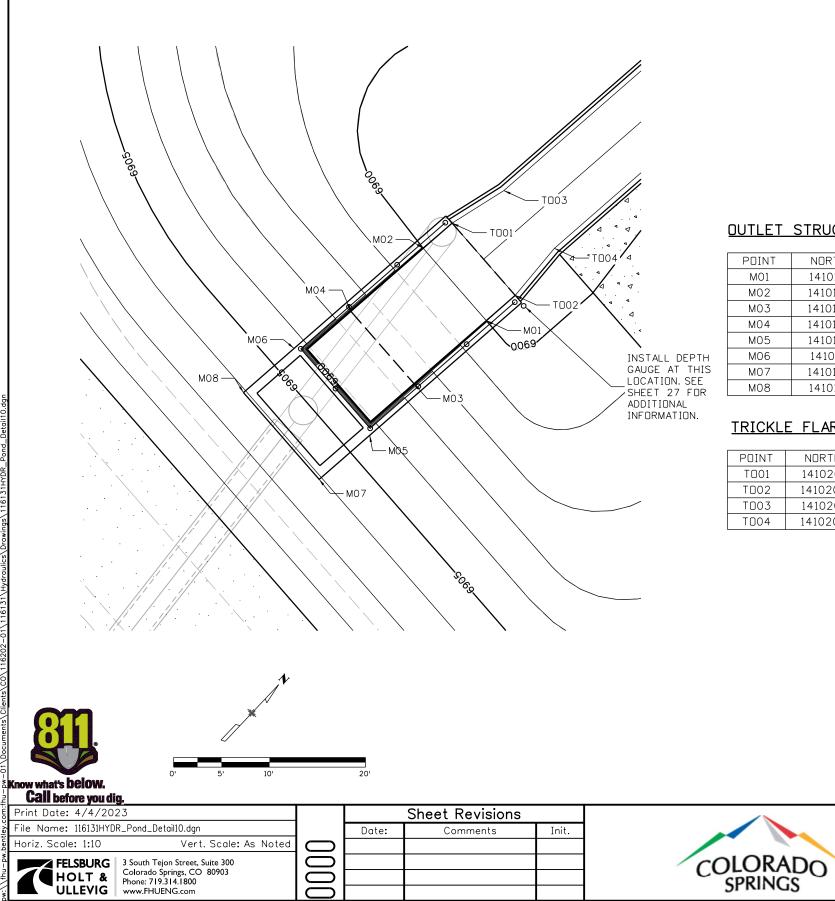
COLORADO SPRINGS

As Constructed	FAIRFAX	Project No./Code				
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Revised:	Designer:	SJT	Structure			
	Detailer:	JMM	Numbers			
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ELEVATION	DESCRIPTION
6906.00	SOIL RIPRAP FINISHED GRADE
6906.06	SOIL RIPRAP FINISHED GRADE
6908.70	SOIL RIPRAP FINISHED GRADE, EDGE OF ACCESS
6908.70	SOIL RIPRAP FINISHED GRADE, EDGE OF ACCESS
6906.70	SOIL RIPRAP FINISHED GRADE, EDGE OF ACCESS
6906.70	SOIL RIPRAP FINISHED GRADE, EDGE OF ACCESS
6908.70	SOIL RIPRAP FINISHED GRADE, EDGE OF ACCESS
6908.70	SOIL RIPRAP FINISHED GRADE, EDGE OF ACCESS
6895.00	SOIL RIPRAP FINISHED GRADE
6885.34	SOIL RIPRAP FINISHED GRADE
6885.57	SOIL RIPRAP FINISHED GRADE
6885.61	SOIL RIPRAP FINISHED GRADE
6885.62	SOIL RIPRAP FINISHED GRADE
6886.08	SOIL RIPRAP FINISHED GRADE
6887.09	SOIL RIPRAP FINISHED GRADE
6887.46	SOIL RIPRAP FINISHED GRADE
6888.27	SOIL RIPRAP FINISHED GRADE
6899.00	SOIL RIPRAP FINISHED GRADE
6908.70	SOIL RIPRAP FINISHED GRADE, EDGE OF ACCESS
6908.70	SDIL RIPRAP FINISHED GRADE, EDGE OF ACCESS
6906.70	SOIL RIPRAP FINISHED GRADE, EDGE OF ACCESS
6906.70	SOIL RIPRAP FINISHED GRADE, EDGE OF ACCESS
6908.70	SDIL RIPRAP FINISHED GRADE, EDGE OF ACCESS
6908.70	SOIL RIPRAP FINISHED GRADE, EDGE OF ACCESS
	•

# SPILLWAY SOIL RIPRAP (TYPE M, 12 INCH) POINT DATA

B .04/17/2023
Project No./Code



# OUTLET STRUCTURE POINT DATA

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
MO1	1410197.01	3220307.41	6899.00	MICROPOOL FLOOR AT TRICKLE CHANNEL
M02	1410197.98	3220297.45	6899.00	MICROPOOL FLOOR AT TRICKLE CHANNEL
MO3	1410187.05	3220306.44	6895.50	MICROPOOL FLOOR
MO4	1410188.02	3220296.48	6895.50	MICROPOOL FLOOR
M05	1410179.98	3220306.77	6904.67	TOP OF INLET TYPE D (SPECIAL)
M06	1410181.16	3220294.83	6904.67	TOP OF INLET TYPE D (SPECIAL)
M07	1410173.02	3220306.09	6906.42	TOP OF INLET TYPE D (SPECIAL)
M08	1410174.19	3220294.15	6906.42	TOP OF INLET TYPE D (SPECIAL)

# TRICKLE FLARE POINT DATA

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
T001	1410201.96	3220297.84	6899.00	TRICKLE FLOWLINE, BEGIN TRICKLE FLARE
T002	1410200.99	3220307.79	6899.00	TRICKLE FLOWLINE, BEGIN TRICKLE FLARE
T003	1410208.13	3220299.45	6899.03	TRICKLE FLOWLINE, END TRICKLE FLARE
T004	1410207.36	3220307.41	6899.03	TRICKLE FLOWLINE, END TRICKLE FLARE

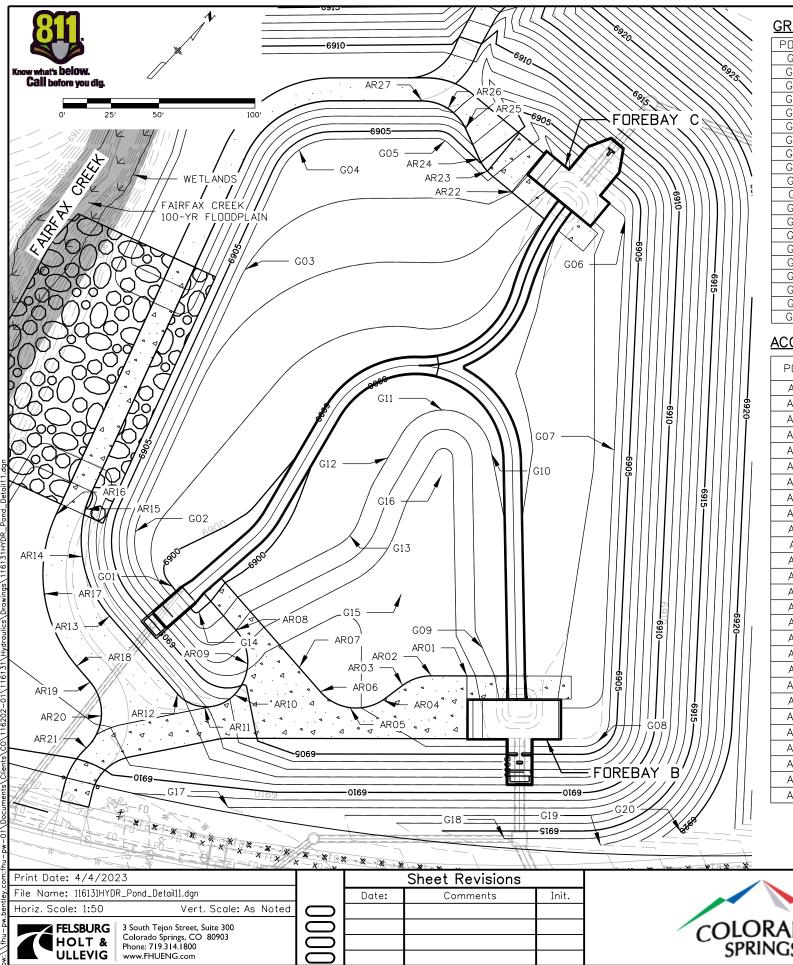
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# <u>GRADING POINT DATA</u>

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
G01	1410198.59	3220293.55	6900.00	FINISHED GRADE, TOE OF SLOPE
G02	1410206.16	3220259.97	6902.00	FINISHED GRADE, TOE OF SLOPE
G03	1410345.25	3220207.78	6903.00	FINISHED GRADE, TOE OF SLOPE
G04	1410409.48	3220185.65	6904.00	FINISHED GRADE, TOE OF SLOPE
G05	1410465.13	3220237.55	6904.00	FINISHED GRADE, TOE OF SLOPE
G06	1410499.27	3220334.29	6903.00	FINISHED GRADE, TOE OF SLOPE
G07	1410408.28	3220412.41	6903.00	FINISHED GRADE, TOE OF SLOPE
G08	1410291.13	3220510.35	6904.00	FINISHED GRADE, TOE OF SLOPE
G09	1410286.20	3220433.21	6902.00	FINISHED GRADE, TOE OF SLOPE
G10	1410363.09	3220367.19	6901.00	FINISHED GRADE, TOE OF SLOPE
G11	1410362.03	3220332.90	6901.00	FINISHED GRADE, TOE OF SLOPE
G12	1410324.53	3220329.37	6901.00	FINISHED GRADE, TOE OF SLOPE
G13	1410281.36	3220342.68	6901.00	FINISHED GRADE, TOE OF SLOPE
G14	1410198.50	3220312.73	6900.00	FINISHED GRADE, TOE OF SLOPE
G15	1410277.65	3220383.13	6903.71	FINISHED GRADE, TOP OF BERM
G16	1410337.21	3220355.82	6903.11	FINISHED GRADE, TOP OF BERM
G17	1410134.72	3220393.83	6912.00	FINISHED GRADE, RIDGE AT TOP OF 4:1
G18	1410221.73	3220509.69	6916.00	FINISHED GRADE, RIDGE AT TOP OF 4:1
G19	1410253.53	3220548.54	6917.00	FINISHED GRADE, RIDGE AT TOP OF 4:1
G20	1410287.25	3220574.41	6920.00	FINISHED GRADE, RIDGE AT TOP OF 4:1

## ACCESS ROAD POINT DATA

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
AR01	1410270.02	3220437.31	6903.44	FINISHED GRADE.EDGE OF ACCESS
AR02	1410257.31	3220423.79	6903.48	FINISHED GRADE.EDGE OF ACCESS
AR03	1410243.40	3220416.29	6903.55	FINISHED GRADE. EDGE OF ACCESS
AR04	1410230.88	3220414.07	6903.82	FINISHED GRADE.EDGE OF ACCESS
AR05	1410216.21	3220404.30	6904.07	FINISHED GRADE.EDGE OF ACCESS
AR06	1410211.63	3220387.29	6904.40	FINISHED GRADE.EDGE OF ACCESS
AR07	1410213.24	3220370.79	6904.43	FINISHED GRADE.EDGE OF ACCESS
AR08	1410204.82	3220333.44	6902.00	FINISHED GRADE.EDGE OF ACCESS
AR09	1410196.21	3220349.84	6903.79	FINISHED GRADE.EDGE OF ACCESS
AR10	1410179.76	3220355.85	6905.65	FINISHED GRADE.EDGE OF ACCESS
AR11	1410164.47	3220348.84	6907.21	FINISHED GRADE.EDGE OF ACCESS
AR12	1410159.76	3220333.90	6908.07	FINISHED GRADE.EDGE OF ACCESS
AR13	1410164.98	3220280.34	6908.24	FINISHED GRADE.EDGE OF ACCESS
AR14	1410177.69	3220248.87	6908.42	FINISHED GRADE.EDGE OF ACCESS
AR15	1410196.91	3220233.02	6908.70	FINISHED GRADE.EDGE OF ACCESS
AR16	1410184.01	3220223.93	6908.81	FINISHED GRADE. EDGE OF ACCESS
AR17	1410150.08	3220247.64	6908.82	FINISHED GRADE.EDGE OF ACCESS
AR18	1410134.20	3220285.87	6908.82	FINISHED GRADE.EDGE OF ACCESS
AR19	1410133.01	3220296.57	6908.71	FINISHED GRADE.EDGE OF ACCESS
AR20	1410124.25	3220312.95	6908.90	FINISHED GRADE.EDGE OF ACCESS
AR21	1410106.60	3220318.76	6909.64	FINISHED GRADE.EDGE OF ACCESS
AR22	1410469.52	3220281.24	6903.02	FINISHED GRADE.EDGE OF ACCESS
AR23	1410468.70	3220264.59	6904.41	FINISHED GRADE.EDGE OF ACCESS
AR24	1410470.46	3220257.16	6905.19	FINISHED GRADE.EDGE OF ACCESS
AR25	1410476.94	3220241.25	6906.88	FINISHED GRADE.EDGE OF ACCESS
AR26	1410478.36	3220227.25	6908.49	FINISHED GRADE.EDGE OF ACCESS
AR27	1410471.99	3220214.70	6908.58	FINISHED GRADE.EDGE OF ACCESS

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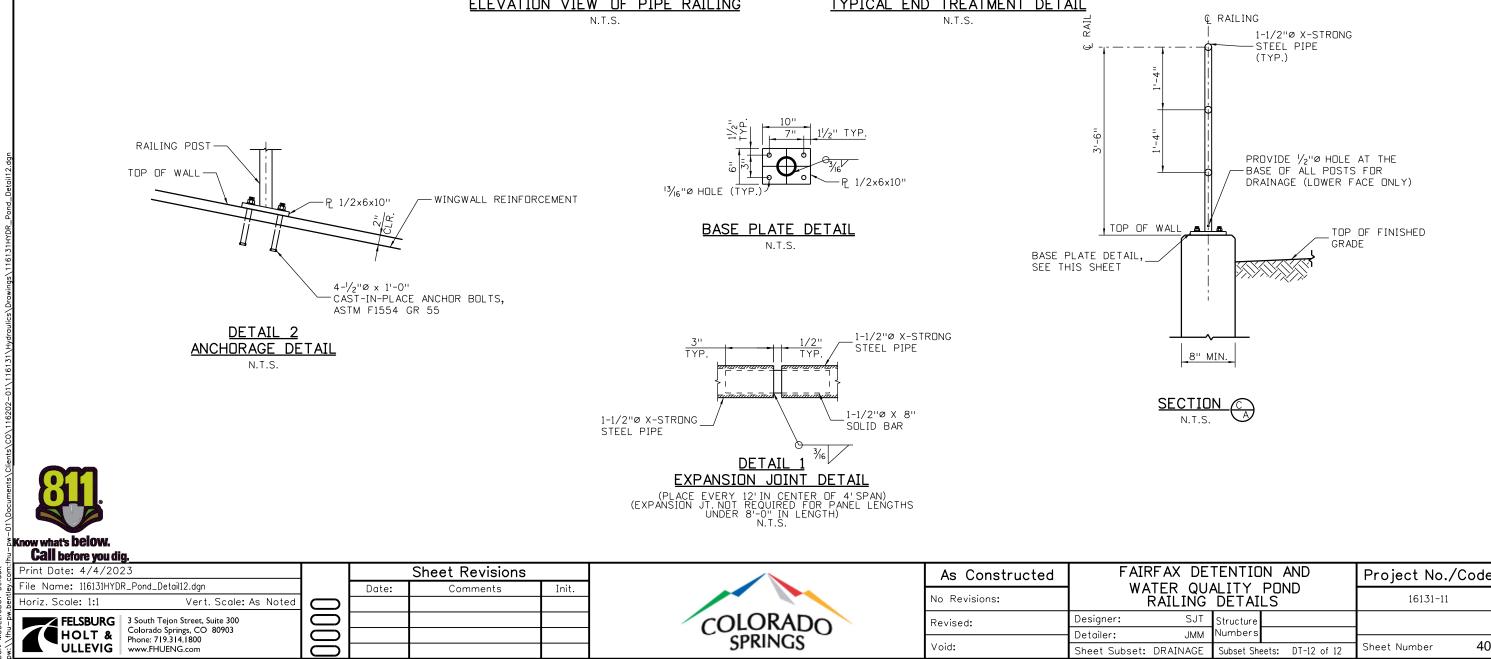
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## NOTES:

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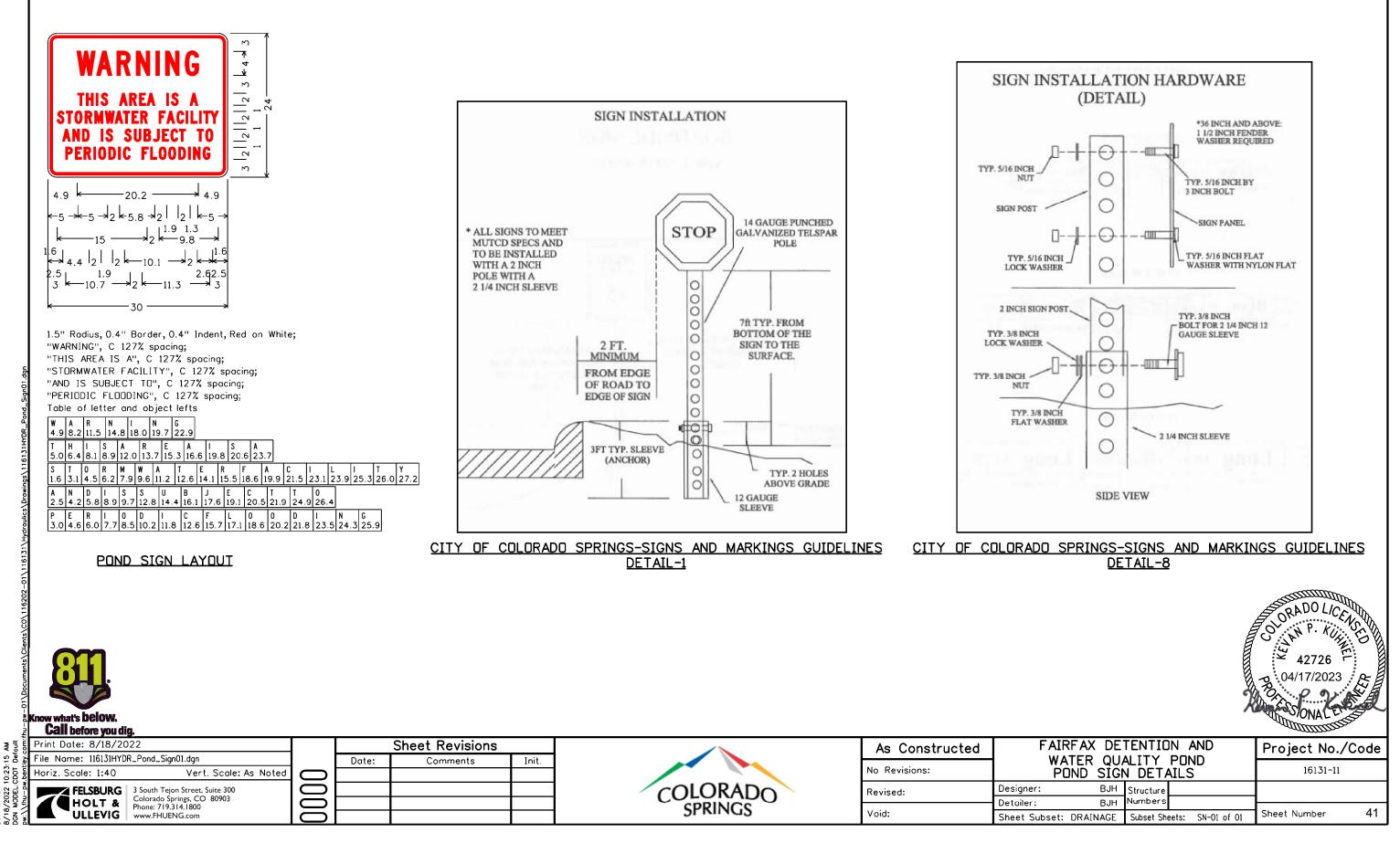
- 1. ALL PIPE SHALL BE  $1^{l}\!/_{2}{}^{\prime\prime}$  X-STRONG STEEL PIPE CONFORMING TO THE REQUIREMENTS IN ASTM A53 FOR GRADE B STEEL (fy=35ksi). ALL PLATES SHALL MEET THE REQUIREMENTS IN AASHTO M270 FOR GRADE 36ksiSTEEL. ALL ANCHOR BOLTS AND NUTS SHALL MEET THE REQUIREMENTS OF AASHTO M314 FOR GRADE 55 STEEL.
- 2. ALL STEEL SHALL BE PAINTED AFTER FABRICATION IN ACCORDANCE WITH SECTION 509 OF CDOT STANDARD SPECIFICATION.
- 3. PLATES, BOLTS, AND NUTS WILL BE PAID FOR AS ITEM 514 PIPE RAILING (STEEL) ON A LINEAR FOOT BASIS.
- 4. THE CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS BEFORE FABRICATION.
- 5. ANCHORAGE ASSEMBLY (PLATES, BOLTS & NUTS) SHALL BE GALVANIZED AFTER FABRICATION.
- 6. RAILING SHALL BE PAINTED THE COLOR "GREEN", AND IS TO BE SELECTED FROM TEST PANELS PROVIDED BY THE CONTRACTOR.

€ POST € POST 16'-0" MAX (TYP.) 1'-6' (TYP.) 4'-0" MAX (TYP.) 6", TOP OF RAILING (A) BETWEEN POSTS >1-1/2" DIA. X-STRONG STEEL PIPE (TYP.) ← R=1'-0" (TYP.) -SEE DETAIL 1 VARIES -TOP OF WALL -WINGWALL END -SEE DETAIL 2 Ĭ ELEVATION VIEW OF PIPE RAILING TYPICAL END TREATMENT DETAIL N.T.S. N.T.S. Ŕ  $( \rightarrow )$ — ₱ 1/2x6x10"





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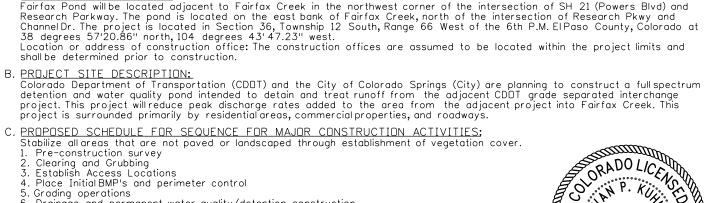
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## SWMP Template (Plan Sheets) for Projects with 1 Acre or More of Disturbance 2/25/2022 UPDATE

### 1. SITE DESCRIPTION

The Contractor shall comply with all CDDT contractual requirements, and all requirements associated with the CDPS-SCP on this project. The SWMP Administrator for Construction shall update the SWMP to reflect current project site conditions.

A. PROJECT SITE LOCATION:



- Establish Access Locations
- Place Initial BMP's and perimeter control
- Grading operations
- Drainage and permanent water quality/detention construction
- Final grading and paving access roads
- 8. Final stabilization and remove temporary BMP's

#### D. ACRES OF DISTURBANCE:

- . Totalarea of construction site (LDC (PERMITTED AREA)): 7.85 acres
- 2. Total area of proposed disturbance (LDA): 7.00 acres 3. Total area of seeding: 7.00 acres
- 4. Total area of pre-project impervious surface: 11,064 sq. ft.
- 5. Total area of final impervious surface: 39,473 sq. ft.
- E. EXISTING SOIL DATA:



The hydrologic soil group classification present on this site entirely consists of Stapleton and Stapleton-Bernal sandy loams, which are classified as Soil Type B. Soil Group Type B has a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained and well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Within this project's limits, surface runoff is classified as low. Surface runoff refers to the loss of water from an area by flow over the land surface. Surface runoff classifications are Negligible, Very Low, Low, Medium, High and Very High. Surface runoff classes are based on slope, climate and vegetative cover. The concept indicated relative runoff for very specific conditions. It is assumed that the surface of soil is bare and that the retention of surface water resulting from irregularities in the ground surface is minimal.

Data Source(s): NRCS Custom Soil Resource Report for El Paso County Area, Colorado; USGS Web Soil Survey

F. EXISTING VEGETATION, INCLUDING PERCENT OF VEGETATIVE COVER;

During design, the SWMP Administrator for Design in consultation with the Engineer will determine if the SWMP Administrator for Design or the SWMP Administrator for Construction will conduct the Vegetation Transects. If the site is disturbed, an Adequate Reference Site(s) may be utilized, refer to the permit.

SWMP Administrator for Design or SWMP Administrator for Construction is to conduct a survey including general description of existing vegetation prior to any ground disturbance on the project. The SWMP Administrator shall photo-document existing vegetation where all work will be occurring. The SWMP Administrator shall perform the vegetation survey transect(s) and include photo documentation.

Pre-Construction Date of survey: \_\*\_ Percent Existing Vegetative Cover: \_\*\_

Description of existing vegetation: \* Method for determining percent vegetative cover: CDDT Vegetative Transect Procedure

Include a map or table showing transect locations, photos documenting pre-Construction vegetative cover, and methodology used to determine existing vegetative cover to SWMP tab 17:

\* Note - Pre-Construction vegetation transects were not completed for this project. The project area had recently been disturbed by the adjacent Powers and Research Interchange project and was in the process of revegetating, therefore vegetation transects on establishing vegetation do not provide value for comparing final stabilization to pre-project conditions. Post-Construction Date of survey: \_\_\_\_

Description of vegetation: The method used to determine pre-construction percent cover shallbe used to determine post construction percent cover. Include map or table showing transect locations, photos documenting post-Construction vegetative cover, and methodology used to determine existing vegetative cover to SWMP tab 17:

A. POTENTIAL POLLUTANTS SOURCES:

Refer to Potential Pollutant Sources in SWMP Section 4A. The SWMP Administrator for Construction shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.

B. DRAINAGE PATTERNS AND RECEIVING WATER(S): DESCRIPTION OF DETERMS AND RECEIVING WATER(S):
 Description of drainage patterns from the Site: See SWMP site maps for outfall locations. Drainage at the existing site flows west into Fairfax Creek or into the existing rough graded Fairfax Pond.
 Names of immediate and ultimate receiving water(s) on site: Fairfax Pond and subsequently Fairfax Creek serves as the immediate receiving waters on site. This project reroutes existing storm system entering the pond from the south conveys runoff from a combination of CDDT, City of Colorado Springs, and private development ROW and property. The ultimate receiving waters are Fountain Creek. Does the on-site receiving water(s) have 303d impaired designation: Per CDPHE data, the stream segments included in this project are listed under segment ID CDARF004b\_A as an impaired stream - E. Coli. 3. Description of all stream crossings located within the Construction Site Boundary: None

Location	Stream Name	Description Of Any Disturbed Upland Area
See Site Map	Fairfax Creek	The eastern slope along Fairfax creek i located within the limits of construction and will have a small disturbance area needed to place soil riprap for the pond emergency overflow structure.

#### C. ALLOWABLE NON-STORMWATER DISCHARGES:

Discharge Description	Site Map #	Method Statement (Location)
Uncontaminated Springs		
Concrete Washout Water (in-ground washout structure)#		
Landscape Irrigation Return Flows		
Discharges from Diversions of State Waters		
Emergency Fire Fighting		

#Concrete washout water associated with the washing of concrete tools and concrete mixer chutes can be discharged to the ground if site is managed accordingly to prevent the water from leaving the site as surface runoff or reaching receiving waters.

#### D. DIVERSION CRITERIA:

1. Is a diversion planned for the Site? Yes \_\_\_\_\_ No \_\_\_ 2. If yes, complete information below:

- Not Available c. What is the upstream contributing drainage area and imperviousness?
- d. A method statement must be prepared by the Contractor and approved by CDDT for each diversion. Diversion

- E. <u>ALTERNATIVE TEMPORARY STABILIZATION SCHEDULE:</u> If applicable, provide a description of the alternative temporary stabilization schedule. If temporary stabilization exceeds the stabilization schedules must be approved by CDDT prior to implementation.



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Percent Vegetative Cover: \_

flows from two existing storm sever systems to discharge to this proposed pond for treatment before being discharged back into Fairfax Creek. The storm system entering the pond from the north conveys water from CDDT's RDW and the

a. What is the 2-year peak flow for the waterway being diverted (cubic feet per second)? Q2 = 150 CFS to the existing CBC (2019 Cottonwood Creek DBPS)
b. What are the monthly averages if available? (provide averages for Jan- Dec if available)

The contributing area is 1.17 square miles, 16.9% of which is impervious (2019 Cottonwood Creek DBPS). The landuse immediately upstream is primarily residential area, with undeveloped areas further upstream.

e. If the conditions in the SCP cannot be met and an alternative is required, CDDT must approve the alternative and then it must be submitted and approved by CDPHE's Water Quality Control Division prior to implementation.

14-day schedule, then the SWMP must document the constraints necessitating the alternative schedule, provide the alternative schedule, and identify all the locations where the alternative schedule is applicable on the site map. Alternative temporary

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## 2.SITE MAP COMPONENTS:

- Pre-construction
- A. PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES; See Grading and Erosion Control Plans
- B. FLOW ARROWS THAT DEPICT STORMWATER FLOW DIRECTIONS ON-SITE, RUN-ON AND RUNDEF DIRECTION: See Gradina and Erosion Control Plans
- C. ALL AREAS OF GROUND SURFACE DISTURBANCE: See Grading and Erosion Control Plans
- D. AREAS OF CUT AND FILL: See Grading and Erosion Control Plans
- E. AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (field trailer, fueling, etc.) AND LOCATIONS OF ALL WASTE ACCUMULATION AND BATCH PLANTS INCLUDING MASONRY MIXING STATIONS: See Grading and Erosion Control Plans
- F. LOCATION OF ALL STRUCTURAL CONTROL MEASURES IDENTIFIED IN THE SWMP: See Grading and Erosion Control Plans
- G. LOCATION OF NON-STRUCTURAL CONTROL MEASURES AS APPLICABLE IN THE SWMP. See Grading and Erosion Control Plans
- H. SPRINGS, STREAMS, WETLANDS, DIVERSIONS, AND OTHER STATE WATERS, INCLUDING AREAS THAT REQUIRE PRE-EXISTING VEGETATION BE MAINTAINED WITHIN 50 FEET OF A RECEIVING WATER: See Grading and Erosion Control Plans
- I. LOCATIONS OF ALL STREAM CROSSING LOCATED WITHIN THE CONSTRUCTION SITE BOUNDARY: See Grading and Erosion Control Plans
- J. PROTECTION OF TREES, SHRUBS, SENSITIVE HABITAT, AND CULTURAL RESOURCES: See Grading and Erosion Control Plans K. LOCATIONS WHERE ALTERNATIVE TEMPORARY STABILIZATION SCHEDULES APPLY: See Grading and Erosion Control Plans

### 3.QUALIFIED STORMWATER MANAGERS:

- A. SWMP ADMINISTRATOR FOR DESIGN;
  - CDDT Certified Individual responsible for developing SWMP Plan Sheets and SWMP Site Maps during the design phase.

Name/Title	Contact Information [phone & email]	Certification #
Kevan P. Kuhnel, Water Resources Engineer	Felsburg, Holt & Ullevig; (719) 290-2338; <u>kevan.kuhnel@fhueng.com</u>	CD 0042726

B. <u>SWMP\_ADMINISTRATOR\_FOR\_CONSTRUCTION:</u> (As defined in Section 208) The Contractor shall designate a SWMP Administrator for Construction upon accepting co-permittee of the permit. The SWMP Administrator for Construction shall become the operator for the SWMP and assume responsibility for all design changes to the SWMP implementation and maintenance in accordance to 208.03, the SWMP shall remain the property of CDDT. The SWMP Administrator for Construction shall be responsible for implementing, maintaining and revising SWMP, including the title and contact information. The activities and responsibilities of the SWMP Administrator for Construction shall address all aspects of the project's SWMP. (Update the information below for each new SWMP Administrator for Construction) (A copy of TECS Certification must be included in the SWMP '

Name/Title         Contact Information (phone & email)		Certification #	Start Date	Engineer Approval

C. EROSION CONTROL INSPECTOR: (As defined in Section 208) The Contractor may designate an Erosion Control Inspector. The Erosion Control Inspector shall complete duties in accordance with subsection 208.03 (c) (Copy of TECS Certification must also be included in the SWMP.)

Name/Title	Contact Information (phone & email)	TECS Certification #	Start Date	Engineer Approval

- D. PERMANENT STABILIZATION SUBJECT MATTER EXPERT: This qualified individual will be either a Regional Environmental Staff member, or an Independent Contractor Controller (Independent Assurance Program). This expert is a project team leader responsible for ensuring project adherence to requirements of the 207 and 212 Project Special Provisions as follows and will be available for questions regarding permanent stabilization requirements. https://www.codot.gov/programs/environmental/landscape-architecture/assets/inspection-and-verification-checklist-for-road side-revegetation\_-111621\_v3.pdf
  - Review the Topsoil Management Plan and the Permanent Stabilization Site Maps.
  - Attend the Environmental Pre-Construction Conference. Coordinate the Site Pre-Vegetation Conference.

  - Review and recommend approval of products. Review and recommend approval of the Quantities Verification Prerequisite.
  - 6. Attend the Partial Landscape Completion Walkthrough.
  - 7. Attend the FinalLandscape Completion Walkthrough

Name/Title						Co
Troy Rice,	Region	2	Water	Pollution	Control	1
Manager	-					

#### 4.STORMWATER MANAGEMENT CONTROLS FOR FIRST CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

- A. POTENTIAL POLLUTANT SOURCES: Evaluate, identify, locate and describe all potential sources of pollutants at the site in accordance with subsection 107.25, CDPS-SCP and place in the SWMP. All control measures related to potential pollutants shall be shown on the SWMP Site Map by the Contractor's SWMP Administrator for Construction.
- B. OFFSITE DRAINAGE (RUN ON WATER); Describe and record control measures on the SWMP Site Map that have been implemented to address off site run-on water in accordance with subsection 208.03.
- C. VEHICLE TRACKING CONTROL: Control measures shall be implemented in accordance with subsection 208.04.
- D. PERIMETER CONTROL:

1. Perimeter control shall be established as the first item on the SWMP to prevent the potential for pollutants leaving the construction site boundaries, entering the stormwater drainage system, or discharging to state waters. Perimeter control shall be in accordance with subsection 208.04 2. Perimeter control may consist of berms, silt fence, erosion logs, existing landforms, or other control measures as approved.

## 5.DURING CONSTRUCTION

RESPONSIBILITIES OF THE SWMP ADMINISTRATOR FOR CONSTRUCTION: Considered a "living document", the SWMP is continuously reviewed and modified throughout the construction phases. During construction, SWMP Administrator for Construction shall add, update, or amend the items A-F below as needed in accordance with subsection 208.03.

During construction, indicate how items that were not addressed during design are being handled in construction. If items are covered in other sections of the SWMP, indicate below what section the discussion takes place

- A. MATERIALS HANDLING AND SPILL PREVENTION AND RESPONSE PLAN: Prior to construction commencing the Contractor shall submit a Spill Response Plan. Materials handling and Spill Response Plan shall be in accordance with subsection 208.06
- B. OTHER CDPS PERMITS: List applicable CDPS permits associated with the permitted site and activities.
- C. STOCKPILE MANAGEMENT. Shall be done in accordance with subsections 107.25 and 208.07.
- D. CONCRETE WASHOUT: Concrete washout water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.
- E. SAW CUTTING Shall be done in accordance with subsections 107.25, 208.04, 208.05
- F. STREET SWEEPING Shall be done in accordance with subsection 208.04.

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#### 6.INSPECTIONS

A. Water Quality Inspections shall be in accordance with subsection 208.03(c).

B. Permanent Stabilization Inspections shall be in accordance with subsections 208.04(e)4 and 208.10.

#### 7.CONTROL MEASURE MAINTENANCE

Maintenance shall be in accordance with subsection 208.04(f).

## 8.<u>RECORD KEEPING</u>

Records shall be kept in accordance with subsection 208.03(d).

### 9.INTERIM. PERMANENT STABILIZATION AND LONG-TERM STORMWATER MANAGEMENT

The Contractor shall comply with all interim stabilization and permanent stabilization requirements in accordance with subsection 208.04(e).

SEEDING PLAN:

The following seed mix(es) and rates are for drill seeding method as shown on the Permanent Stabilization Site Maps shall be used:

SEEDING (NATIVE) DRILL

COMMON NAME	BOTANICAL NAME	LBS. PLS PER ACRE
Dats	Avena sativa	2.5
Western Wheatgrass	Pascopyrum smithii Barton	4.3
Blue Grama	Bouteloua gracilis Alma	0.6
Cane Bluestem	Bothriochloa barbinodis VNS	0.5
Buffalograss	Bouteloua dactyloides VNS	7.5
Sand Bluestem	Andropogon hallii Woodward	3.6
Sand Lovegrass	Eragrostis trichodes Nebraska 27	0.2
Basin Wildrye	Leymus cinereus Magnar	2.1
Upright Prairie Coneflower	Ratibida columnifera VNS	0.2
Purple Prairie Coneflower	Dalea purpurea var.purpurea VNS	0.8
Broadbeard Penstemon	Penstemon angustifolius VNS	0.8
Desert Verbena	Glandularia gooddingii VNS	0.4
Indian Blanket	Gaillardia pulchella VNS	0.8
	Tota	24.3

#### SEEDING (WETLAND) BROADCAST

COMMON NAME	BOTANICAL NAME	Percent of Mix	LBS. PLS PER ACRE
Yellow Indiangrass	Sorghastrum nutans	18	5
Alkali Sacaton	Sporobolus airoides, Salado	15	4.2
Big Bluestem	Bothriochloa barbinodis	15	4.2
Prairie Cordgrass	Spartina pectinate, Atkins	10	2.8
Switchgrass	Panicum virgatum	10	2.8
Canada Wildrye	Elymus canadenis, Mandan	10	2.8
Creeping Spikerush	Eleocharis palustris	12	3.4
Swamp Milkweed	Asclepial incarnata	10	2.8
	Toto	al 100	28.0

B. SEEDING APPLICATION METHOD:

The following seeding methods shall be used for all areas shown on the Permanent Stabilization Site Maps. Drill seed 0.25 inch to 0.5 inch into the soil. In small areas not accessible to a drill, hand broadcast or hydroseed at double the rate and rake 0.25 inch to 0.5 inch into the soil per subsection 212. Soil compaction shall be minimized for areas where permanent stabilization will be achieved through vegetative cover.

-	212.05)	Acre
212-00706	Seeding (Native) Drill	7.00
212-00711	Seeding (Wetland) Broadcast	0.09
	Total	7.09



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### C. SOIL STABILIZATION METHODS:

MINIMUM SOIL STABILIZATION METHODS (ATTACHED MULCH) FOR ALL DISTURBANCES TO RECEIVE SEEDING, 1. Apply a minimum of 2 tons/ac certified weed free hay or 2 1/2 tons/ac of certified weed free straw and mechanically crimp into the soil in combination with natural mulch tackifier in accordance with Section 213. 2. Install Soil Retention Blankets in accordance with Standard Plan M-216-1 and Section 216. Prior to winter shutdown or the summer seeding window closure: Uncompleted slopes shall be mulched with 2 tons of mulching (weed free) per acre, mechanically crimped into the topsoil in combination with an organic mulch tackifier in accordance with Sections 208 and 213.

#### D. SPECIAL REQUIREMENTS:

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1. Soil amendments, seedbed preparation, and permanent stabilization mulching shall be accomplished within four working days of placing the topsoil on the de-compacted civil subgrades. If placed topsoil is not mulched with permanent stabilization mulch within four working days, the Contractor shall complete interim stabilization methods in accordance with subsection 208.04(e) at no additional cost to the Department. 2. Complete permanent stabilization mulching within 24 hours of hydraulic application of native seed. 3. The Contractor shall submit a proposed Permanent Stabilization Phasing Plan to the Engineer for approval showing how implementation of SWMP Permanent Stabilization Plans will minimize damage to seeded areas.

00	T I I A	<i>c</i>	C I	/NI 11 1	\ D '!!
.00	Total Acres	ΟT	Seeding	(Native)	) Drill w

7.00 TOTALA		ang (Nutive) bin with rop	son Generated		opson (unsite)
	Pay Item	Description	Amount/Acre	Units	TotalFor This Method
Seeding	212-00700	Drganic Fertilizer	300	Pounds	2,100
(Native) Drill	212-00701	Compost (Mechanically Applied)	65	СҮ	455
Pay Item	212-00703	Humate	200	Pounds	1,400
	212-00704	Mycorrhizae	8	Pounds	56
	212-00705	Elemental Sulfur	N/A	Pounds	0

- F. Permanent Stabilization Application Under Structures: Under structures shade patterns should be considered and the use of Median Cover Material (Stone) or other stabilized options with an approved Project Special Provision should be used. See SWMP Site Map for locations.
- G. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION: Prior to stormwater construction work partial acceptance. 1. All seeded areas shall be reviewed by the SWMP Administrator for Construction and or Erosion Control Inspector for bare weeds in the seeded areas, at no additional cost to the project.
- H.LOCATION AND DESCRIPTION OF PLANNED PERMANENT CONTROL MEASURES: Is Permanent Water Quality Required: Yes. This project is a permanent control measure established to provide full-spectrum detention and water quality for the related SH-21 & Research Parkway Project. See plan set.

#### 10.PRIOR TO PROJECT FINAL ACCEPTANCE

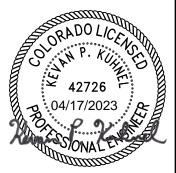
A. When directed by the Engineer, removal and disposal of temporary control measures shall be included in the cost of work. B. At the end of the project, all ditch checks shall consist of either temporary erosion logs (or equivalent) or permanent riprap. C. All storm drains shall be cleaned prior to the Final Acceptance of the project. If required, include work in 202-04002 Clean Culvert.

D. Refer to subsection 208.10 for Items to be completed prior to requesting partial acceptance of water quality work.

E. SOIL AMENDMENT REQUIREMENTS: Minimum amendment material requirements for all disturbances to receive seeding.

with Tonsoil Generated From Tonsoil (Ansite)

soils caused by surface or wind erosion. Bare areas caused by surface or gully erosion, blown away mulch, etc. shall be re-graded, seeded, and have the designated mulching applied as necessary, at no additional cost to the project. 2. The Contractor shall maintain seeding/mulch/tackifier/blanket/TRM, mow to control weeds or apply herbicide to control



## 11.NARRATIVES

II.NAKKALIVES\_ Control Measure Matrixes During Construction: 1. Control measure narratives have been included for the CDDT Standard Specifications and Standard Plan M-208 and M-216 along with any non-standard control measures approved during the design process. If a Non-Standard Control Measure not included in the SWMP is proposed and approved by the Engineer the SWMP Administrator for Construction shall do the following: Place an "X" in the column for non-standard and complete a Non-Standard Control Measure Specification and Narrative covering the what, when, where and why the control measure is being used shall be add to the SWMP. The appropriate "X" shall also be added to the implementation phase(s). 2. The SWMP Administrator for Construction shall place an "X" in the column In Use On Site when the control measure has been installed. 3. A "B" in the Initial Activities Column indicates that the control measure shall be installed before construction activity starts. Locations and quantities will be discussed during the Environmental Pre-Construction Conference with the Regional Water Pollution Control Manager.

STRUCTURAL Control Measures that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to the following:

													CONTROL	MEASURE IM PHASE		1		
APPLICATION, CONTROL MEASURE						NAR	RRATIVE				M- 208 STANDARD or "X" for NDN-STAN DARD	IN USE ON SITE	INITIAL ACTIVITIES	INTERIM ACTIVITIES	PERMANENT STABILIZATIO	חנ		
F	PROTECTION OF EXISTING WE Fence (plastic) and erosion log:	TLANDS s	Fence (plastic traffic and se placed adjacer area. Logs sh areas.	shall be place diment into sto at to the wetlc all be placed to	d in combinate waters ands; erosio direct flo	nation with er prior to star n logs shall b ws away fror	osion logs to pr t of construction e placed betwee m or filter water	event encroachment disturbances. Fence n the plastic fence running into wetlan	of constructi e (plastic) sha and disturban ds from distu	on II be ce urbance			в	x				
T	PROTECTION OF EXISTING TREES/LANDSCAPING Fence (plastic)		Fence (plastic) traffic and se	) shall be used diment for the of constructior	in areas ir protection n disturban	ndicated in th of sensitive ices.	e plans to preve habitat, mature	ent encroachment of trees and/or existin	construction g landscaping				В	x				
	CHECK DAM/DITCH CHECK Erosion log, silt berm, silt dike, r	ock check	dam Placed in ditch ditch. For exis	ies immediately ting ditches, pla	y upon con ace prior t	npletion of dit o start of co	ch grading to re nstruction distur	educe velocity of ru bances.	noff in		M-208		x	x				
R	Storm Drain Inlet Protection Ir Roadways (Type 1, 2 and 3 as M-208-1, sheet 5 of 11)		to protect exi		immediately			on disturbances as its to prevent sedim			M-208		В	x	×			
S	Storm Drain Inlet Protection Ir Areas (M-604 Standard Inlets	n Native Se Type C and	a d			around inlet protect existin	grate to preveni ig inlets or imme	t sediment from ent diately upon comple	ering inlet. Plation of new ir	ice lets.	M-208		В					
	CULVERT INLET/DUTLET PROTI Erosion logs, aggregate bags	ECTION	loccurring adja	th of culvert in Icent to pipe to onstruction dis	o prevent :	over top of cu sediment lade	ulvert at inlet and n water from er	d outlet where distur ntering pipe or drain	bance may b age. Place pri	e or to	M-208		В	x	X			
	TYPE C, TYPE D AND TYPE 13 Erosion logs, aggregate bags, e		ON Placed around the start of c	inlet grate or onstruction dis	slope and sturbances.	ditch paving	to prevent sedir	nent from entering	inlet. Place pr	ior to	M-208		В	x				
	STOCKPILE PROTECTION Temporary berm, erosion logs,										M-208		x	x				
T	TOE OF FILL PROTECTION Erosion logs, temporary berm, topsoilwindrow*		Place prior to		ment work	to capture s		tect and delineate u			M-208		x	x				
E	PERIMETER CONTROL Erosion logs, silt fence, temporo windrow*	bry berm, to	Placed prior to psoil around disturb	> construction ed area. *Can	commencir be used t	ng to address to stockpile t	s potential run-or opsoil for salvage	n water from off si e.	te, and to div	ert	M-208		В	x				
	windrow* SLOPE CONTROL Silt fence, erosion logs		Placed on the start of const	contour of a ruction disturb	slope to c oances.	ontain and sl	ow down constru	uction runoff. Place	prior to the		M-208		В	x				
Т	TEMPORARY SEDIMENT TRAP		Used to captu the start of c installed when	re sediment la onstruction dis discharging fr	iden runoff iturbances. om basins	from disturb Dutlets that wand impound	oed areas < 5 a withdraw water f ments.	cres during construc rom or near the su	ction. Place pr rface may be	ior to	M-208							
	TEMPORARY SLOPE DRAIN		Placed as a c	onduit or chute	e to drain	runoff down s	slope and to pre	event erosion of slop	e.		M-208							
R	DUTLET PROTECTION Riprap, or approved other			57			rosion at outlet s				M-601-12							
	CONCRETE WASHOUT In-ground or fabricated		prior to the s	<u>tart of concret</u>	<u>te activities</u>	s		oncrete equipment o	· · · · · · · · · · · · · · · · · · ·		M-208		x	x			ACCERTICATION OF THE OWNER	
L.	VEHICLE TRACKING PAD		lorior to the s	tart of constru	uction distu	rbánces.		ed area to offsite			M-208		В	X			SOLDO LICO	[].
E	Engineered SEDIMENT BASIN		Constructed e capture storm using an appro installed when	orly in the pro flow. Dutlet s ved non-stanc discharging fr	oject, prior structure a dard detail. om basins	to storm se and/or outfall Outlets that and impound	wer/ditches and shall be modified withdraw water f ments, unless inf	in accordance with for temporary sedi rom or near the su easible	208.05(p) to ment control urface shallbe								RADOLICENS OR P. KULLER 42726	
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NDN-STRUCTURAL Control Measures that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:

Erosion control devices are used to limit the amount of soil loss on site. Sediment control devices are designed to capture sediment on the project site. Construction controls are control measures related to construction access and staging. Control Measure locations are indicated on the SWMP Site Map.

\* Use of vegetative buffer strip requirements. The CDPHE Water Quality Control Division Technical Memorandum dated August 27, 2015 clarifies the requirements for utilization of existing vegetation as a buffer type of sediment control measure, while maintaining compliance with the CDPS permit for Stormwater Discharges Associated with Construction Activity - CDPS Permit No. CDR40000000. In general, the division does not recommend that vegetated buffers be implemented as a sediment removal control measure for runoff from disturbed areas at construction sites, unless implemented as a "finishing" component of a treatment train comprised of additional, adequate up-gradient Control Measures. The entire memorandum can be found at: https://www.colorado.gov/pacific/sites/default/files/Vegetative%20Buffer%20Memo.pdf

		M-STAND		CONTROL MEASURE IMPLEMENTATION PHASE			
APPLICATION, CONTROL MEASURE	NARRATIVE	ARD or "For NDN-ST ANDARD	IN USE ON SITE	INITIAL ACTIVITY	INTERIM ACTIVITIES	PERMANENT STABILIZATION	
* VEGETATIVE BUFFER STRIP	Finishing component for filtering sediment-laden runoff from disturbance area. Area within CDOT ROW or temporary easement to be identified on SWMP prior to construction starting.						
GRADING APPLICATIONS (LANDFORM)	Existing or created landforms may be used as a control measure if they prevent sediment from entering or leaving the disturbance area. If a landform directs flow of water to a concentrated outfall point, the outfall point shall be protected to prevent erosion. Area to be identified on SWMP prior to construction starting. Prior to any site disturbance work commencing, existing topsoil shall be scraped	M-208					
TOPSOIL MANAGEMENT STOCKPILE/SALVAGE Stockpile	completion of final grading, topsoil shall be evenly distributed over embankment to	M-208		x	x	х	
SURFACE RDUGHENING / GRADING TECHNIQUES	a depth of six inches or as specified. Temporary stabilization of disturbance and to minimize wind and erosion.				X		
SEEDING (TEMPORARY)	Temporary stabilization used for over wintering of disturbance or used to control erosion for areas scheduled for future construction.				Х		
BUNDED FIBER MATRIX or MULCHING (HYDRAULIC)	Not to be used in areas of concentrated flows, i.e. ditch lines. To be for either Interim or Permanent Stabilization placed as a surface cover for erosion control. May be used as surface cover when work is temporarily halted and as approved				×		
Straw or Hay MULCH/MULCH TACKIFIER	by the Engineer for stockpiles. Interim or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as Interim Stabilization as a surface cover when work is temporarily halted and as approved by the Engineer				×	х	
SPRAY-DN MULCH BLANKET (Not to be used in areas of concentrated flows, i.e. ditch lines.)	surface cover when work is temporarily halted and as approved by the Engineer Interim or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer						
SEEDING PERMANENT (NATIVE PERENNIAL)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.					x	
SOIL RETENTION BLANKET (SRB)	Permanent Stabilization of disturbance and to reduce runoff and controlerosion on disturbed areas.	M-216				Х	
TURF REINFORCEMENT MAT (TRM)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. Placed in channels or on slopes for erosion control, channel liner and seeding establishment.	M-216				x	
Sweeping	Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.			x	x	x	
DTHER							

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Print Date: 4/4/2023 Sheet Revisions PM Dult As Constructed Colorado Department of Transportation File Name: 116131ERDS\_SWMP\_Plan05.dgn 15 Def Date: Init. Comments No Revisions: CDOT 12:29 STO Horiz. Scale: 1:50 Vert. Scale: As Noted  $\Box$ 1480 QuailLake Loop, Suite A Colorado Springs, CD 80906 Phone: 719-227-3205 FAX: 719-227-3298 ¢ FELSBURG HOLT & 3 South Tejon Street, Suite 300 Colorado Springs, CO 80903 Phone: 719,314,1800 Designer  $\square$ CO Revised:  $\square$ Detailer: Region 2 JSH ULLEVIG www.FHUENG.com Void:  $\square$ Sheet Su

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## 12. TABULATION OF STORMWATER QUANTITIES

- A. Control Measure sediment removal and disposal shall be paid for as: 208 Removal and Disposal of Sediment (Equipment) and 208 Removal and Disposal of Sediment (Labor). All other control measure maintenance shall be included in the cost of the control measure.
- B. It is estimated that 24 hours of blading (140-250 horsepower), dozing (130-250 horsepower) and/or combination loader (80-125 horsepower) may be required for miscellaneous erosion control work as directed by the Engineer. Work shall be paid for as: 203 Blading, 203 Dozing, 203 Backhoe and/or 203 Combination Loader.

PSP Spec.	Pay Item	Description	Pay Unit			Permanent Stabilization	*Total Quantity
Х	202-04002	Clean Culvert	Each	1			1
	203-01500	Blading	Hour		24		24
	203-01550	Dozing	Hour		24		24
Х	203-01594	Combination Loader	Hour		24		24
	207-00700	Topsoil (Onsite)	СҮ			3,764	3,764
	207-00702	Topsoil (Offsite)	СҮ			1,882	1,882
	208-00002	Erosion Log Type 1 (12inch)	LF	282	6,588		6,870
	208-00013	Erosion Log Type 1 (20inch)	LF		360		360
	208-00020	Silt Fence	LF	1,050			1,050
	208-00035	Aggregate Bag	LF	46	99		145
	208-00041	Rock Check Dam	Each	20	1		21
	208-00045	Concrete Washout Structure	Each	1			1
	208-00051	Storm Drain Inlet Protection (Type 1)	LF	24			24
	208-00070	Vehicle Tracking Pad	Each	1			1
	208-00071	**Maintenance Aggregate (Vehicle Tracking Pad)	CY	10	10	10	30
	208-00103	Removal and Disposal of Sediment (Labor)	Hour		40		40
	208-00105	Removal and Disposal of Sediment (Equipment)	Hour		40		40
	208-00106	Sweeping (Sediment Removal)	Hour		100		100
	208-00107	Removal of Trash	Hour		24		24
		Erosion ControlManagement (ECM)	Day				120
	208-00303	Temporary Diversion (Special)	LS		1		1
	212-00704	Mycorrhizae	Pounds			56	56
	212-00706	Seeding (Native) Drill	Acre			7.00	7.0
	212-00700	Organic Fertilizer	Pounds			2100	2100
	212-00701	Compost (Mechanically Applied)	СҮ			455	455
	212-00703		Pounds			1400	1400
	212-00711	Seeding (Wetland) Broadcast	Acre			0.09	0.09
	213-00003	Mulching (Weed Free)	Acre			7.00	7.00
	213-00061	Mulch Tackifier	Pounds			1,400	1,400
	216-00201	SoilRetention Blanket (Straw/ Coconut) (Biodegradable Class 1)	SY			20,110	20,110
	214-01010	Brush Layer Cutting	Each		1		1
	214-01013	Live Willow Stakes	Each			250	250

PSP Spec.	Pay Item	Description	Pay Unit	Initial Const.	Interim Const.	Permanent Stabilization	*Total Quantity
	216-00303	Turf Reinforcement Mat (Class 3)	SY		232		232
	217-00020	Herbicide Treatment	Hour		24		24
	607-11525	Fence (Plastic)	LF	1,032			1,032
Х	700-70380	F/A Erosion Control	FA				1

\*It is anticipated that additional control measures and control measure quantities not shown on the SWMP Site Maps shall be required on the project for unforeseen conditions and replacement of items that are beyond their useful service life, see subsections 208.03 and 208.04.Quantities for all control measures shown above are estimated and have been increased for unforeseen conditions and normal control measure life expectancy. Quantities shall be adjusted according to the conditions encountered in the field as directed and approved by the Engineer. Payment shall be for the actual work completed and measure and encountered in the field as directed and approved by the Engineer. material used.

\*\*Pay Item 208-00071 is included for anticipated maintenance of vehicle tracking pads based on the service life of the control measure in the field. The use of the material shall be directed and approved by the Engineer. \*\*\* F/A refers to CDDT's Force Account Pay Items.

## 13.BIOLOGICAL IMPACTS and DEWATERING

A. ENVIRONMENTAL IMPACTS:

1. Wetland Impacts: YES 2. Stream Impacts: YES

3. Threatened and Endangered Species: No

B. <u>DEWATERING</u>:

(Not covered under the CDPHE guidance document Low Risk Discharge Guidance Discharges of Uncontaminated Groundwater to Land): https://www.colorado.gov/pacific/sites/default/files/WQ%20LDW%20RISK%20GW.pdf

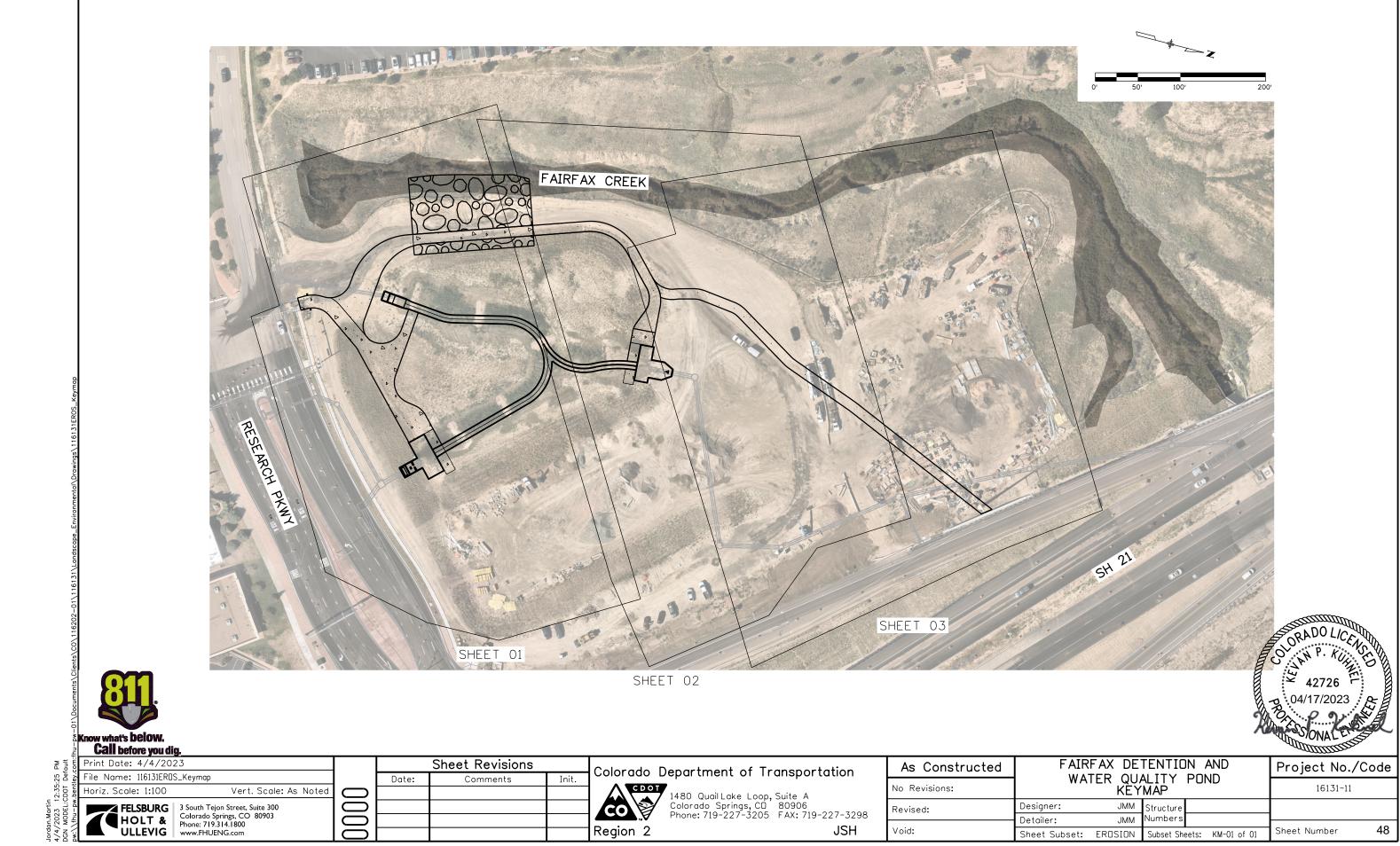
https://www.colorado.gov/pacific/sites/default/files/WQ/2/ULUW/2/URISK/2/UGW.pdf
 Dewatering: Refer to other environmental permits in accordance with subsection 107.02 and the permits contained in Tab 16 of the SWMP.
 If groundwater does not meet water quality standards for receiving water a separate CDPS Dewatering Permit shall be obtained by the Contractor from CDPHE in accordance with subsections 107.02 and 107.25.



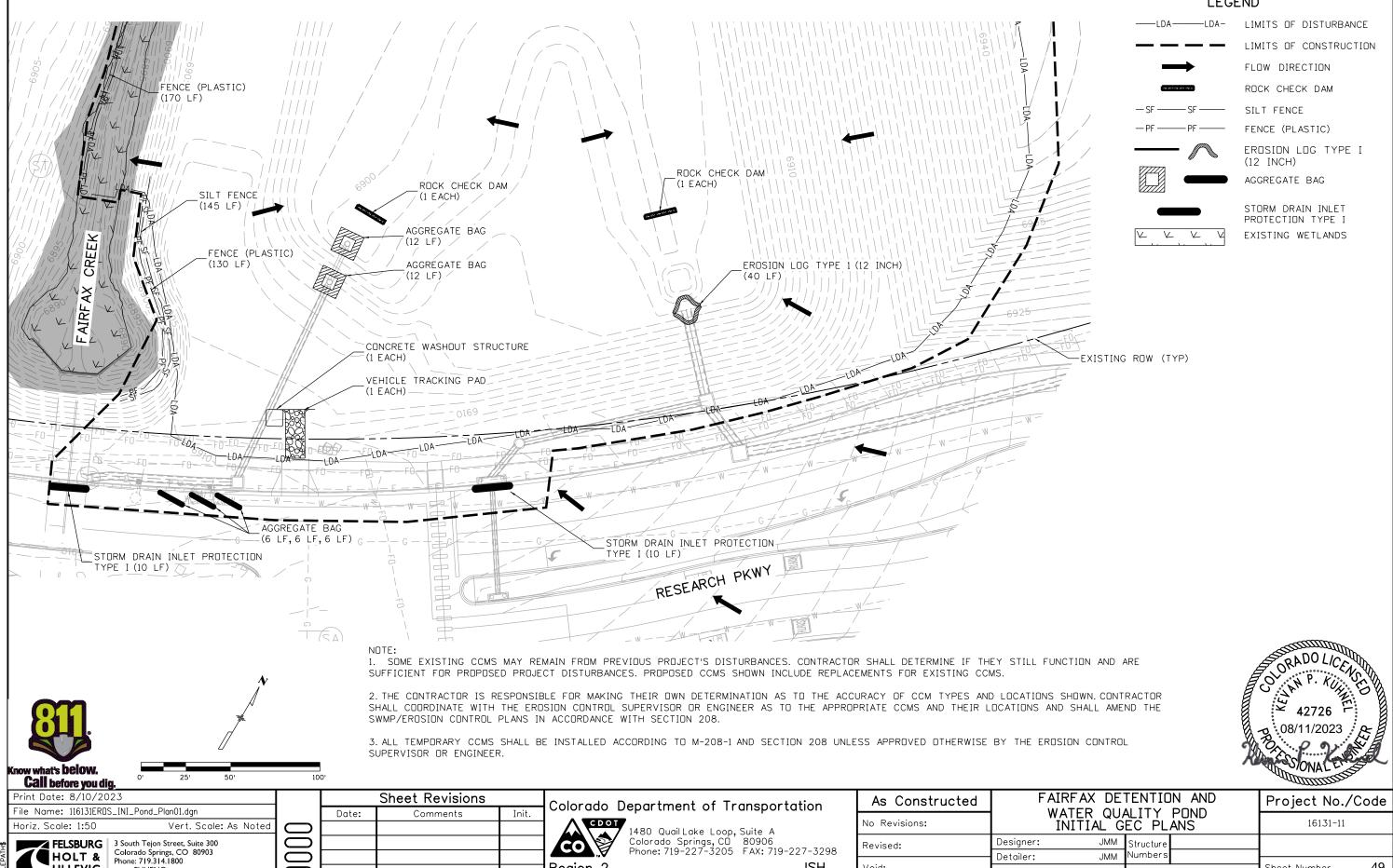
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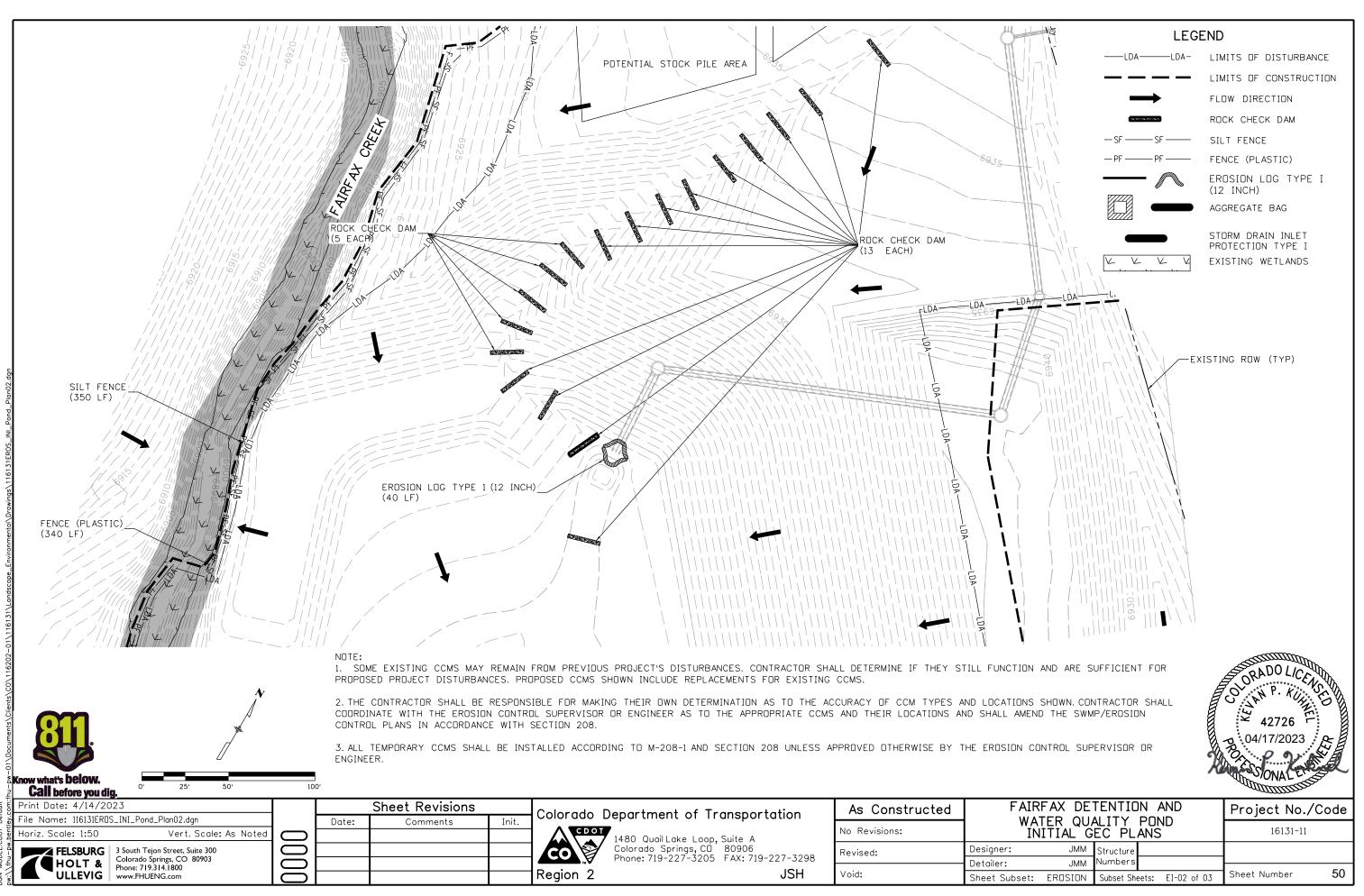
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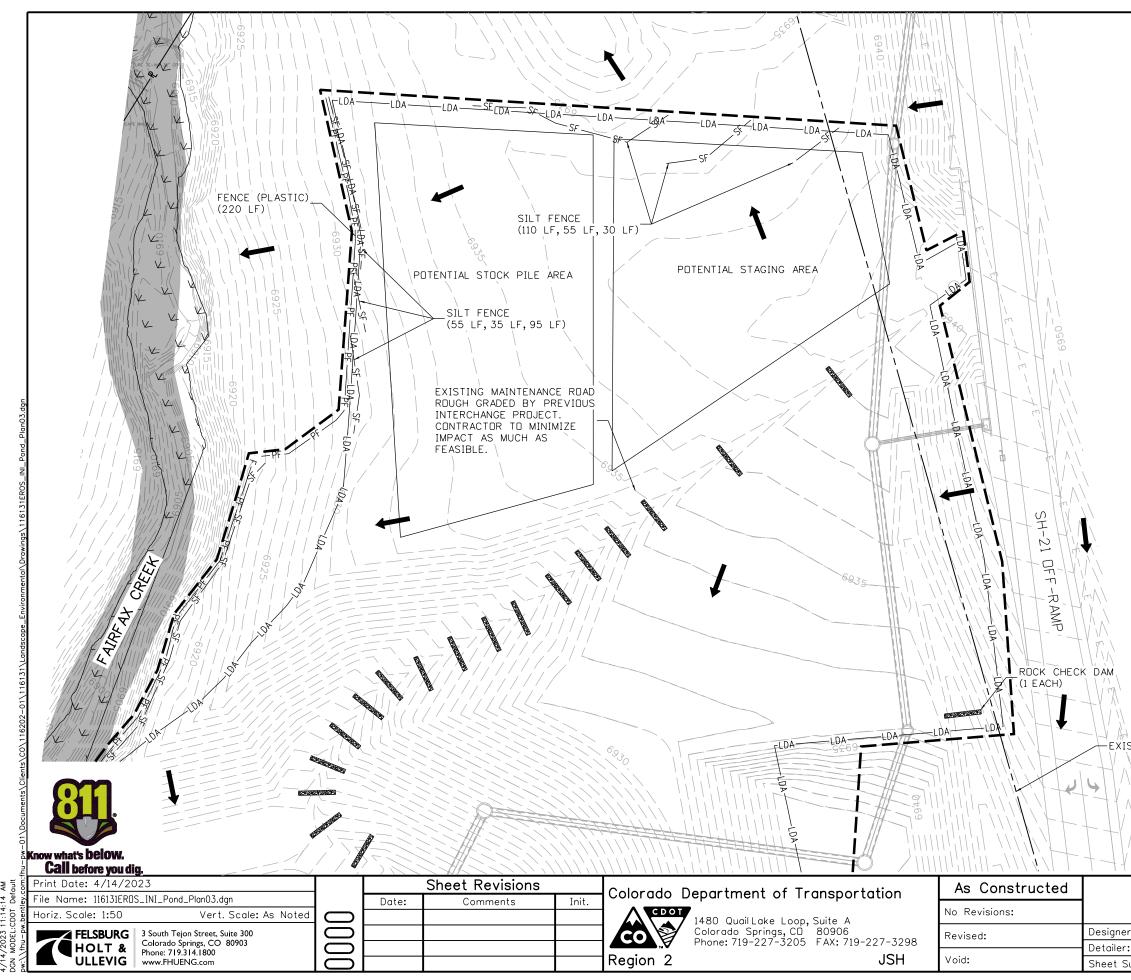
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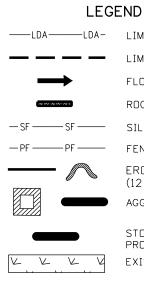


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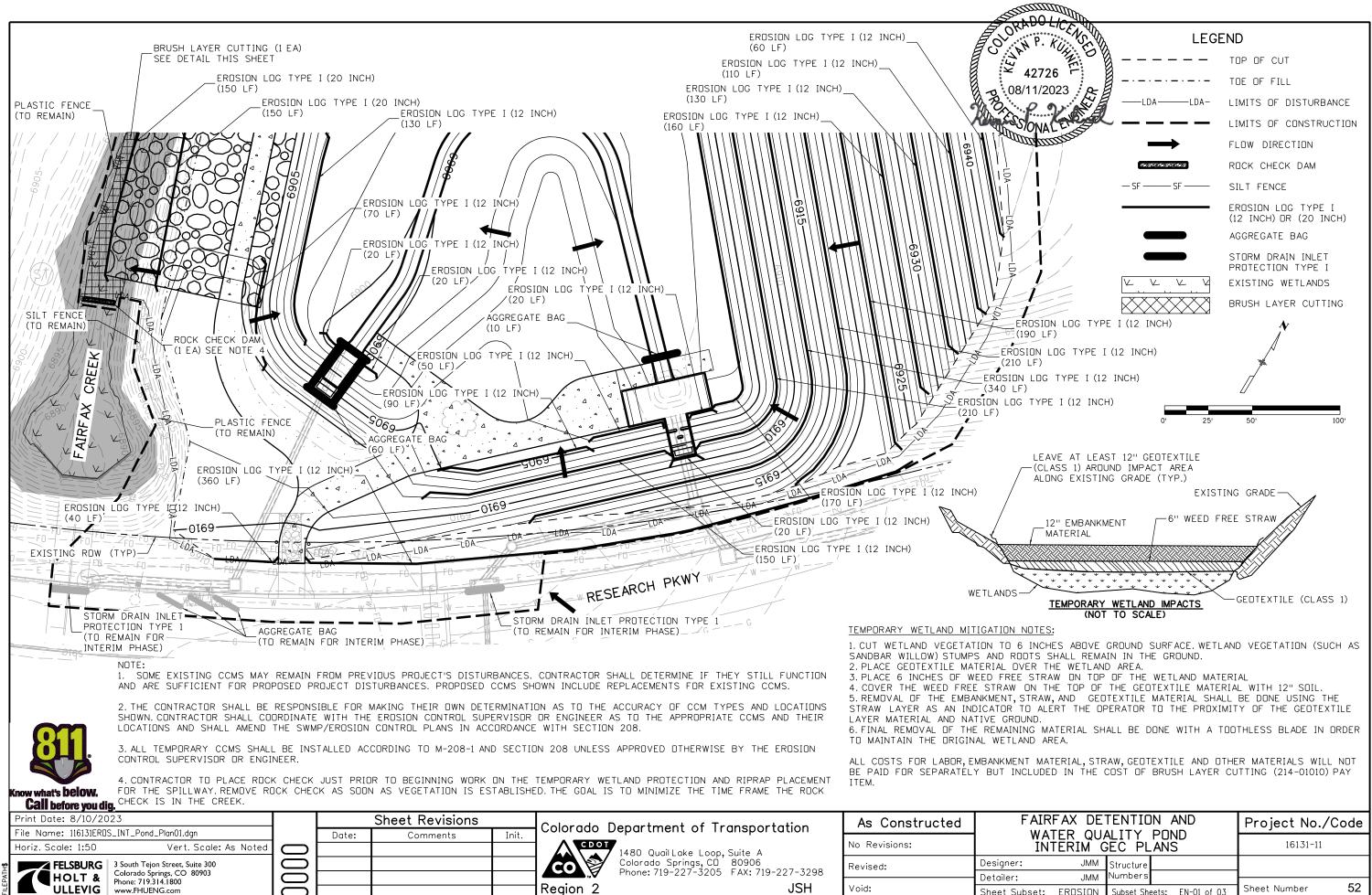
NOTE:

1. SOME EXISTING CCMS MAY REMAIN FROM PREVIOUS PROJECT'S DISTURBANCES. CONTRACTOR SHALL DETERMINE IF THEY STILL FUNCTION AND ARE SUFFICIENT FOR PROPOSED PROJECT DISTURBANCES. PROPOSED CCMS SHOWN INCLUDE REPLACEMENTS FOR EXISTING CCMS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THEIR DWN DETERMINATION AS TO THE ACCURACY OF CCM TYPES AND LOCATIONS SHOWN. CONTRACTOR SHALL COORDINATE WITH THE EROSION CONTROL SUPERVISOR OR ENGINEER AS TO THE APPROPRIATE CCMS AND THEIR LOCATIONS AND SHALL AMEND THE SWMP/EROSION CONTROL PLANS IN ACCORDANCE WITH SECTION 208.

3. ALL TEMPORARY CCMS SHALL BE INSTALLED ACCORDING TO M-208-1 AND SECTION 208 UNLESS APPROVED OTHERWISE BY THE EROSION CONTROL SUPERVISOR OR ENGINEER.

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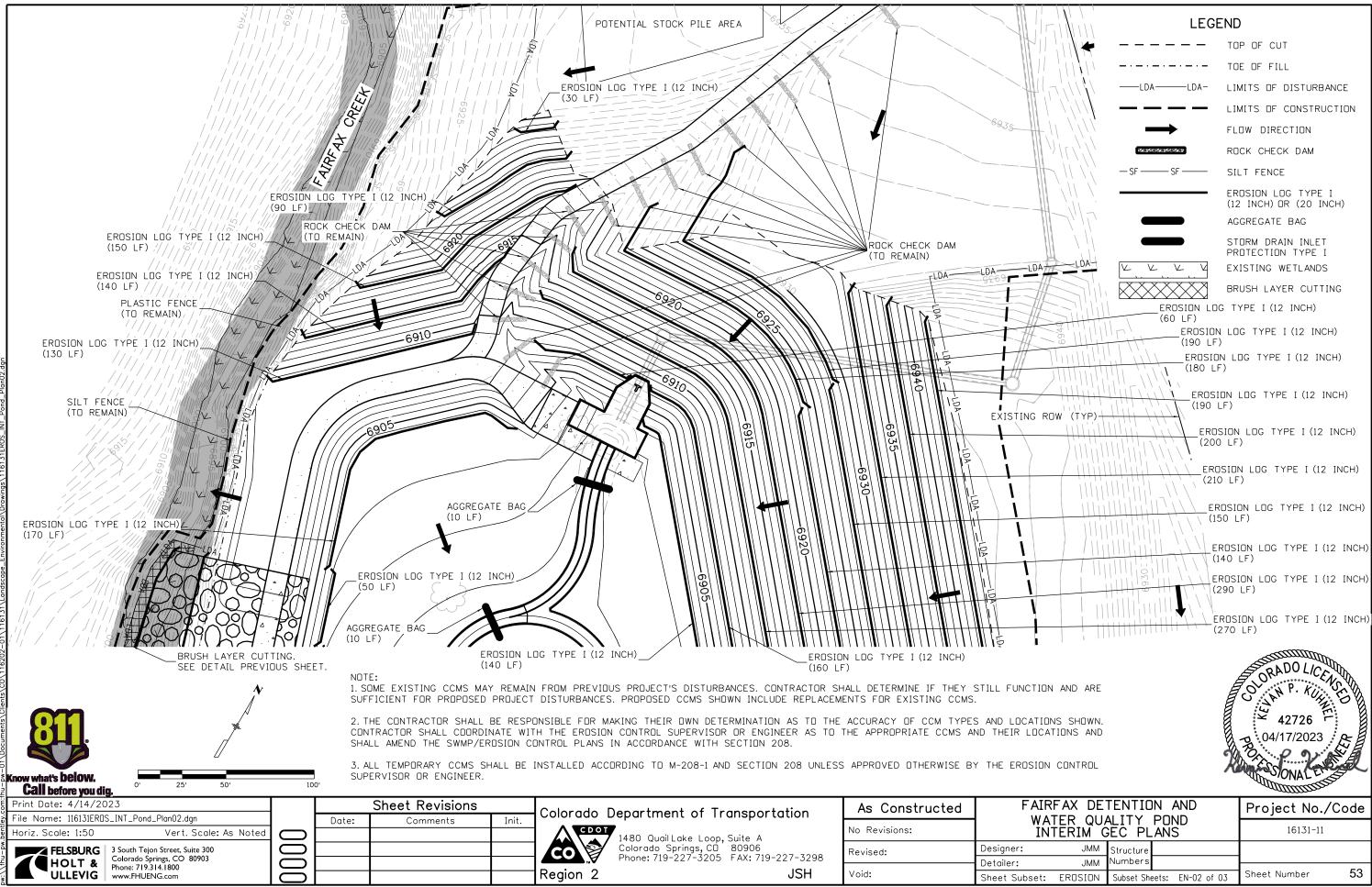
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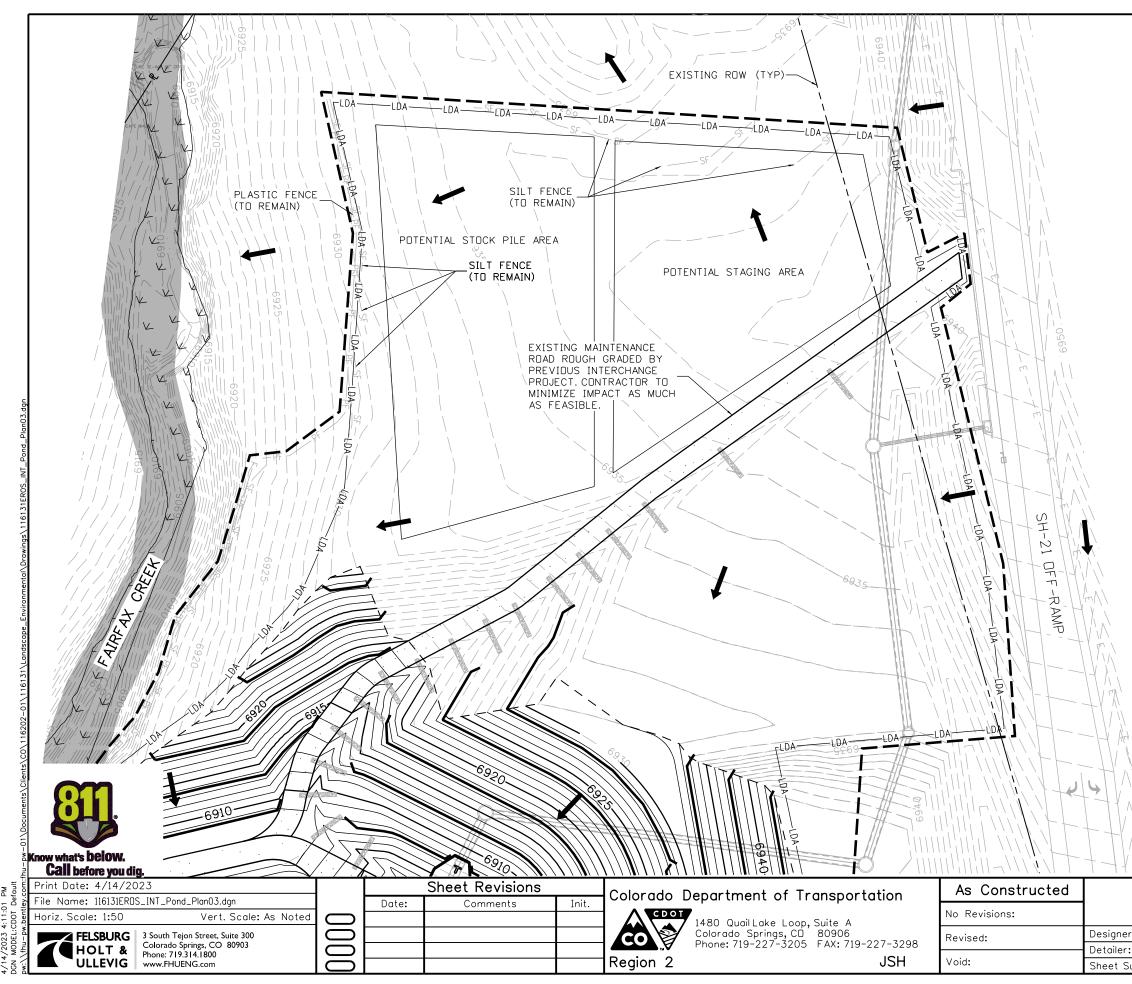
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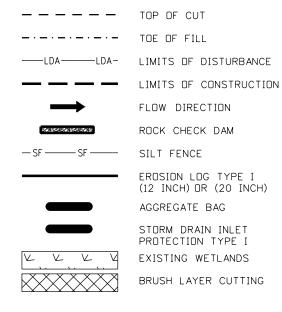
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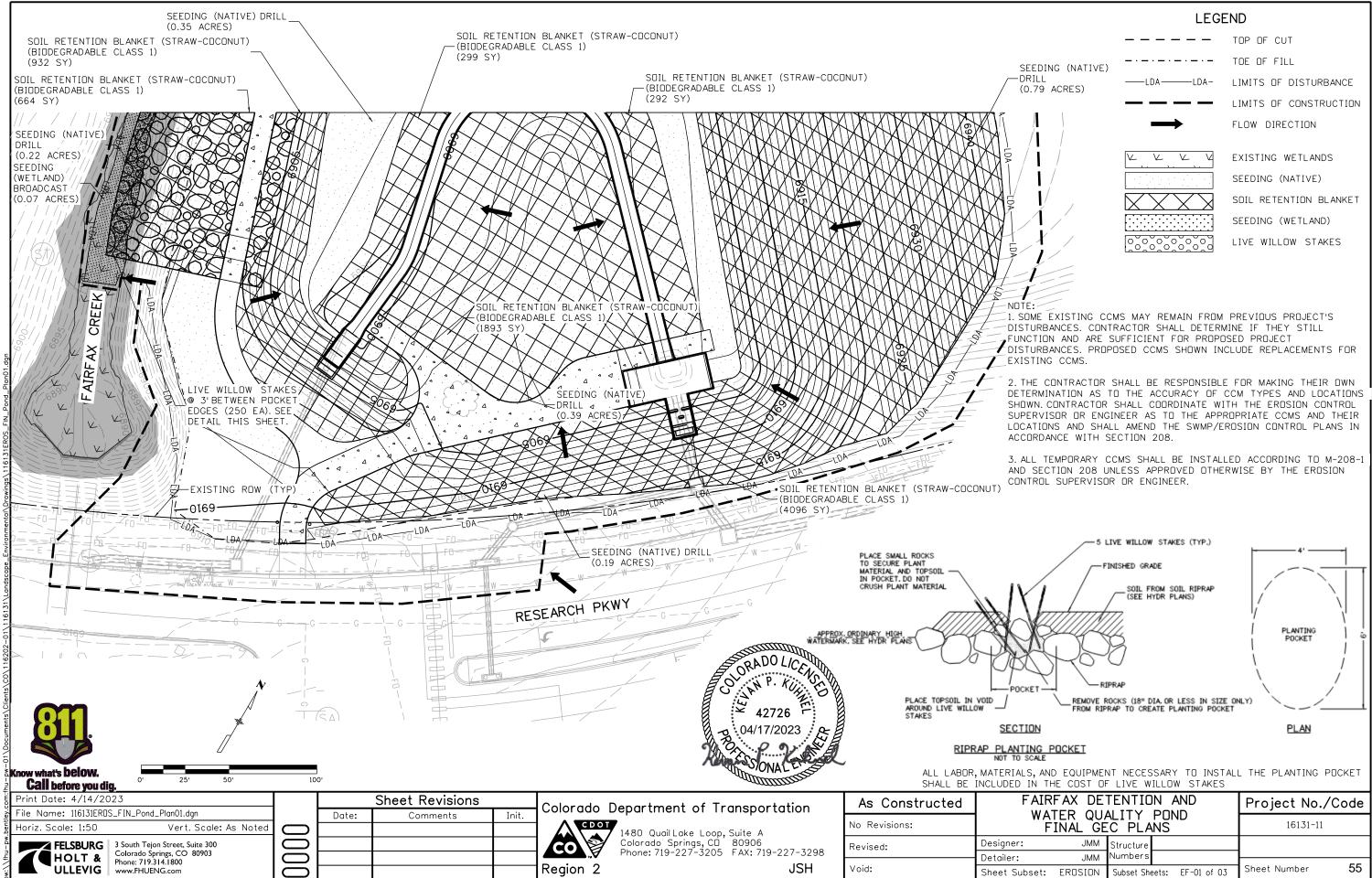
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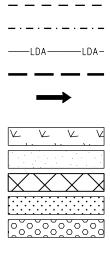
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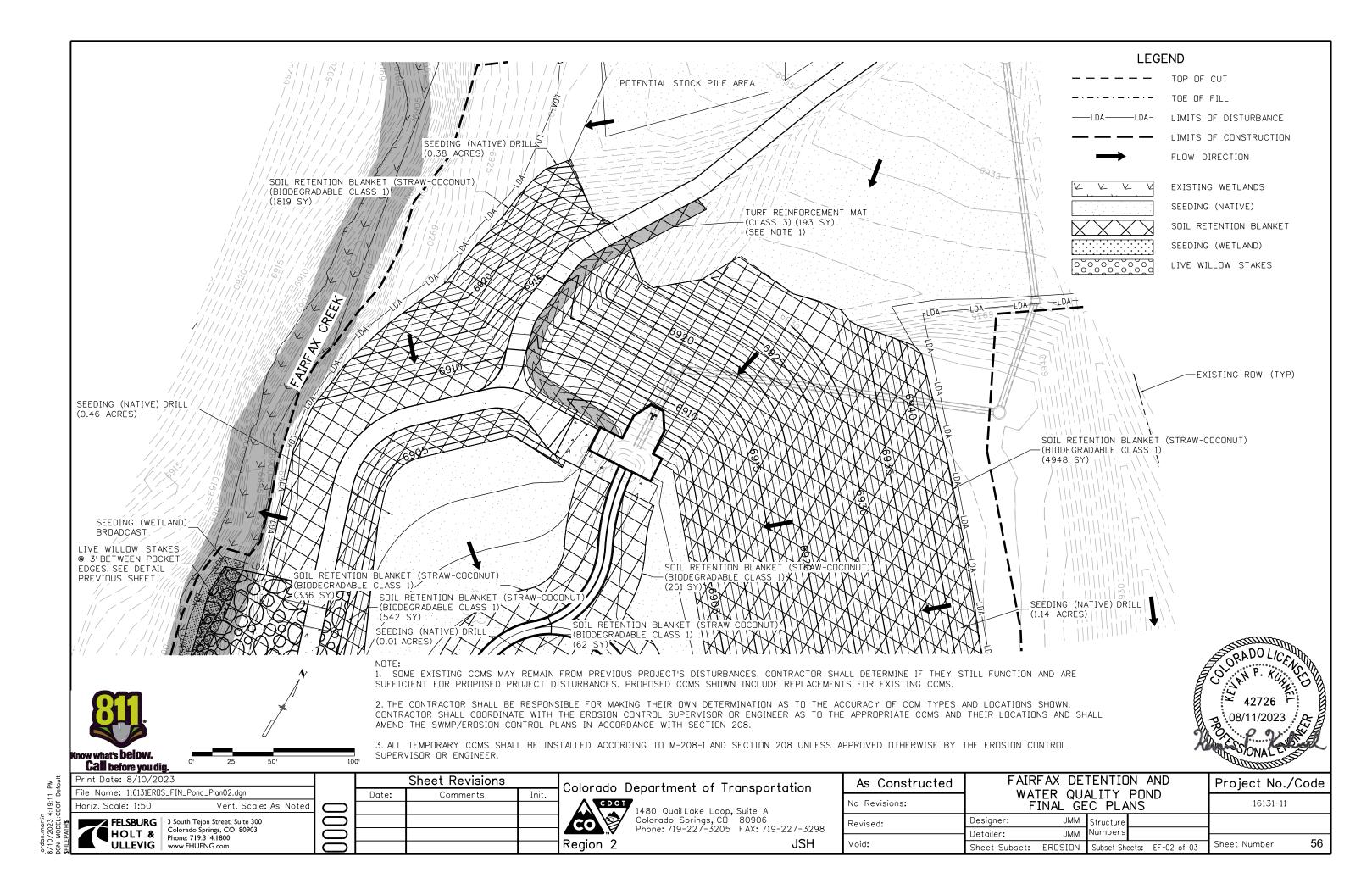
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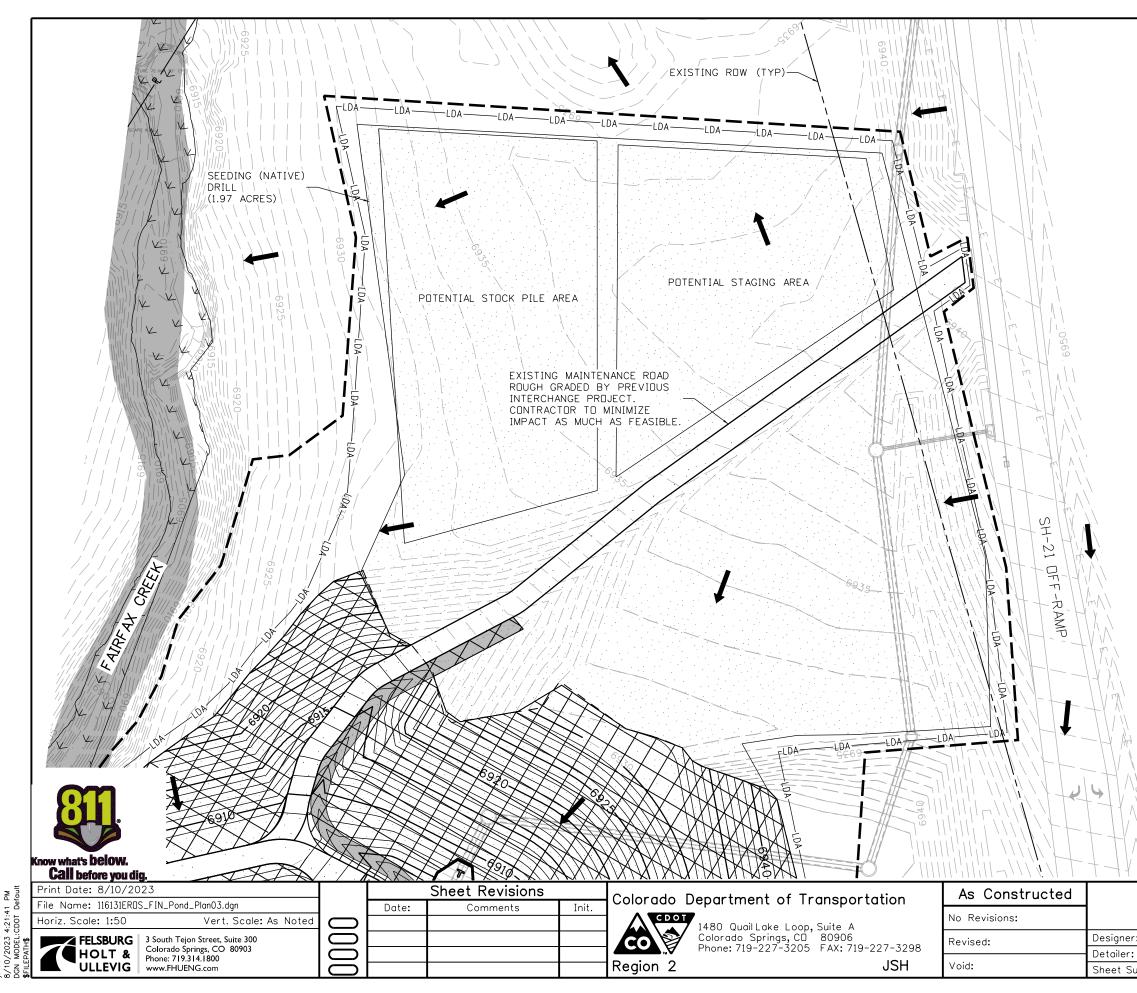
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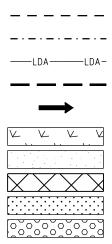








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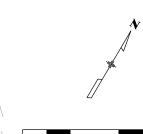
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NOTE:

1. SOME EXISTING CCMS MAY REMAIN FROM PREVIOUS PROJECT'S DISTURBANCES. CONTRACTOR SHALL DETERMINE IF THEY STILL FUNCTION AND ARE SUFFICIENT FOR PROPOSED PROJECT DISTURBANCES. PROPOSED CCMS SHOWN INCLUDE REPLACEMENTS FOR EXISTING CCMS.

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