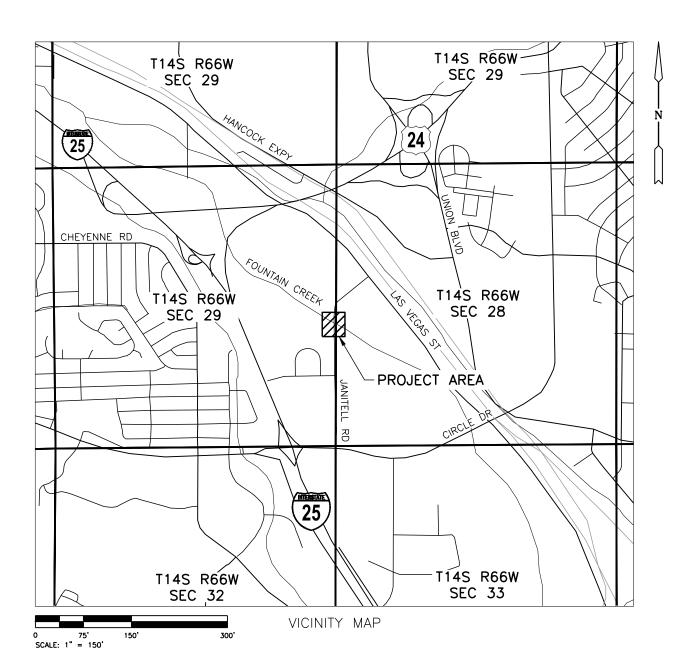
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# EL PASO COUNTY PUBLIC WORKS

JANITELL RD BRIDGE OVER FOUNTAIN CREEK SCOUR PROTECTION PROJECT



### INDEX OF SHEETS

SHEET NO.	TITLE
1	TITLE SHEET
2	M&S STANDARD PLANS LIST
3-4	GENERAL NOTES
5-6	SUMMARY OF APPROXIMATE QUANTITIES
7	CONTROL DIAGRAM
8	SUBSURFACE UTILITY ENGINEERING PLAN
9	GEOMETRIC LAYOUT
10	REMOVALS PLAN
11	SOIL RIPRAP PLAN
12	SOIL RIPRAP DETAILS
13-14	SOIL RIPRAP AND CHANNEL PROFILES
15-22	STORMWATER MANAGEMENT PLANS
23-26	EROSION CONTROL PLANS
27-38	CROSS SECTIONS



FOR BURIED UTILITY INFORMATION THREE (3) BUSINESS DAYS BEFÓRE YOU DIG CALL 811 (or 1-800-922-1987) UTILITY NOTIFICATION

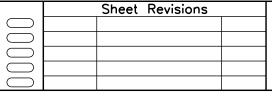
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PLAN	M STANDARD PAGE
<u>NUMBER</u>	<u>TITLE</u> <u>NUMBER</u>
□ M-100-1	STANDARD SYMBOLS (3 SHEETS)1-3
■ M-100-2	ACRONYMS AND ABBREVIATIONS (4 SHEETS)4-7
□ M-203-1	APPROACH ROADS8
□ M-203-2	DITCH TYPES9
□ M-203-11	SUPERELEVATION CROWNED AND
□ M-203-12	SUPERELEVATION STREETS (2 SHEETS)13-14
□ M-206-1	EXCAVATION AND BACKFILL FOR STRUCTURES15-16 (2 SHEETS)
■ M-206-2	EXCAVATION AND BACKFILL FOR BRIDGES (2 SHEETS)17-18
■ M-208-1	TEMPORARY EROSION CONTROL (11 SHEETS)
□ M-210-1	MAILBOX SUPPORTS (2 SHEETS)30-31
□ M-214-1	NURSERY STOCK DETAILS
□ M-216-1	SOIL RETENTION COVERING (2 SHEETS)33-34
□ M-412-1	CONCRETE PAVEMENT JOINTS (9 SHEETS)35-39 (REVISED ON JANUARY 31, 2022)
□ M-412-2	CONCRETE PAVEMENT CRACK REPAIR (6 SHEETS) (REVISED ON SEPTEMBER 6, 2022)
□ M-510-1	STRUCTURAL PLATE PIPE H-20 LOADING40
□ M-601-1	SINGLE CONCRETE BOX CULVERT (CAST-IN-PLACE)41-42 (2 SHEETS)
□ M-601-2	DOUBLE CONCRETE BOX CULVERT (CAST-IN-PLACE) 43-44 (2 SHEETS)
□ M-601-3	TRIPLE CONCRETE BOX CULVERT (CAST-IN-PLACE) 45-46 (2 SHEETS)
□ M-601-10	HEADWALL FOR PIPES 47
	TYPE "S" SADDLE HEADWALLS FOR PIPE 48
□ M-601-12	HEADWALLS AND PIPE OUTLET PAVING
□ M-601-20	WINGWALLS FOR PIPE OR BOX CULVERTS (2 SHEETS) 50-51
	METAL PIPE (4 SHEETS)
□ M-603-2	REINFORCED CONCRETE PIPE56
□ M-603-3	PRECAST CONCRETE BOX CULVERT57 (REVISED ON SEPTEMBER 10, 2020)
□ M-603-4	CORRUGATED POLYETHYLENE PIPE (AASHTO M294) AND58 CORRUGATED POLYPROPYLENE PIPE (AASHTO M330) (2 sheets) (REVISED ON MARCH 7, 2022)
□ M-603-5	POLYVINYL CHLORIDE (PVC) PIPE (AASHTO M304)59
□ M-603-6	STEEL REINFORCED POLYETHYLENE
□ M-603-10	CONCRETE AND METAL END SECTIONS
□ M-603-12	TRAVERSABLE END SECTIONS AND SAFETY GRATES 62-64 (3 SHEETS)
□ M-604-10	INLET, TYPE C65
□ M-604-11	INLET, TYPE D66
□ M-604-12	CURB INLET TYPE R (2 SHEETS)67-68
□ M-604-13	CONCRETE INLET TYPE 1369
□ M-604-20	MANHOLES (3 SHEETS)70-72
□ M-604-25	VANE GRATE INLET (5 SHEETS)73-77
□ M-604-23	· ,

PLAN	M STANDARD	PAGE
<u>NUMBER</u>	<u>TITLE</u>	<u>NUMBER</u>
□ M-606-1	MIDWEST GUARDRAIL SYSTEM TYPE 3 W-BEAM 31 INCHES (19 SHEETS) (REVISED ON MARCH 5, 202	
□ M-606-13	GUARDRAIL TYPE 7 F-SHAPE BARRIER (4 SHEETS) .	98-101
□ M-606-14	PRECAST TYPE 7 CONCRETE BARRIER (4 SHEETS) (REVISED ON AUGUST 21, 2020)	102-104
□ M-606-15	GUARDRAIL TYPE 9 SINGLE SLOPE BARRIER	105-115
□ M-607-1	WIRE FENCES AND GATES (3 SHEETS)	116-118
□ M-607-2	CHAIN LINK FENCE (3 SHEETS)	119-121
□ M-607-3	BARRIER FENCE	122
□ M-607-4	DEER FENCE, GATES, AND GAME RAMPS (7 SHEETS). (REVISED ON JULY 13, 2020)	<del>123–127</del>
□ M-607-10	PICKET SNOW FENCE	128
□ M-607-15	ROAD CLOSURE GATE (9 SHEETS)	129-137
□ M-608-1	CURB RAMPS (10 SHEETS)	138-147
□ M-609-1	CURBS, GUTTERS, AND SIDEWALKS (4 SHEETS)	148-151
□ M-611-1	CATTLE GUARD (2 SHEETS)	152-153
□ M-611-2	DEER GUARD (2 SHEETS)	154-155
	RUMBLE STRIPS (3 SHEETS)	156-158
	SAND BARREL ARRAYS (2 SHEETS)	159-160
□ M-615-1	EMBANKMENT PROTECTOR TYPE 3	161
□ M-615-2	EMBANKMENT PROTECTOR TYPE 5	162
□ M-616-1	INVERTED SIPHON	163
□ M-620-1	FIELD LABORATORY CLASS 1	164
□ M-620-2	FIELD LABORATORY CLASS 2 (2 SHEETS)	165-166
□ M-620-11	FIELD OFFICE CLASS 1	167
□ M-620-12	FIELD OFFICE CLASS 2	168
□ M-629-1	SURVEY MONUMENTS (2 SHEETS)	169-170

COLORADO
DEPARTMENT OF TRANSPORTATION

M&S STANDARDS PLANS LIST

July 31, 2019

Revised on September 6, 2022

ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

THE M&S STANDARD PLANS USED TO DESIGN THIS PROJECT ARE INDICATED BY A MARKED BOX — AND WILL BE ATTACHED TO THE PLANS. ALL THE OTHER M&S STANDARD PLANS ARE STILL ELIGIBLE FOR CONSTRUCTION IF APPROVED BY AN APPROPRIATE CDOT ENGINEER.

ILAN	3 STANDAND TAGE	
<u>NUMBER</u>	<u>TITLE</u> <u>NUMBER</u>	
☐ S-612-1	DELINEATOR INSTALLATIONS (8 SHEETS)171-178	
□ S-613-1	ROADWAY LIGHTING (6 SHEETS) 179–186- (REVISED ON SEPTEMBER 30, 2020)	
□ S-613-2	ALTERNATIVE ROADWAY LIGHTING (4 SHEETS) (NEW, ISSUED ON SEPTEMBER 30, 2020)	
☐ S-614-1	GROUND SIGN PLACEMENT (2 SHEETS)187-188	
☐ S-614-2	CLASS   SIGNS	
□ S-614-3	CLASS    SIGNS	
☐ S-614-4	CLASS III SIGNS (3 SHEETS)191-193	
□ S-614-5	BREAK-AWAY SIGN SUPPORT DETAILS194-195 FOR CLASS III SIGNS (2 SHEETS)	
□ S-614-6	CONCRETE FOOTINGS AND SIGN ISLANDS	
□ S-614-8	TUBULAR STEEL SIGN SUPPORT DETAILS (7 SHEETS)198–204 (REVISED ON DECEMBER 31, 2020)	
<del></del>	PEDESTRIAN PUSH BUTTON POST ASSEMBLY (2 SHEETS) .205—206 (SUPERSEDED ON JANUARY 23, 2020 BY S-614-45)	
☐ S-614-10	MARKER ASSEMBLY INSTALLATIONS207	
☐ S-614-11	MILEPOST SIGN DETAIL FOR HIGH SNOW AREAS208	
☐ S-614-12	STRUCTURE NUMBER INSTALLATION (2 SHEETS)209-210	
☐ S-614-14	FLASHING BEACON AND SIGN INSTALLATIONS (4 SHEETS) .211-214	
□ S-614-20	TYPICAL POLE MOUNT SIGN INSTALLATIONS215	
□ S-614-21	CONCRETE BARRIER SIGN POST INSTALLATIONS	
□ S-614-22	TYPICAL MULTI-SIGN INSTALLATIONS	
□ S-614-40	TYPICAL TRAFFIC SIGNAL 30'-75' DOUBLE MAST ARMS219-223 65'-75' SINGLE MAST ARMS (5 SHEETS) (REVISED ON JULY 22, 2022)	
□ S-614-40A	ALTERNATIVE TRAFFIC SIGNAL	
☐ S-614-41	TEMPORARY SPAN WIRE SIGNALS (13 SHEETS)228-240	
□ S-614-42	CABINET FOUNDATION DETAIL (4 SHEETS)241-244	
□ S-614-43	TRAFFIC LOOP AND MISCELLANEOUS SIGNAL DETAILS245-252 (8 SHEETS)	
□ S-614-44	PEDESTAL POLE SIGNALS (2 SHEETS)253-254	
□ S-614-45	PEDESTRIAN PUSH BUTTON POST ASSEMBLY DETAILS (6 SHEETS) (REVISED ON DECEMBER 3, 2020)	
□ S-614-50	STATIC SIGN MONOTUBE STRUCTURES (12 SHEETS)255-266	
□ S-614-60	DYNAMIC SIGN MONOTUBE STRUCTURES (14 SHEETS)267-280	
□ S-627-1	PAVEMENT MARKINGS (9 SHEETS)	
■ S-630-1	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION290-313 (24 SHEETS)	
□ S-630-2	BARRICADES, DRUMS, CONCRETE BARRIERS (TO AND VERTICAL PANELS	-
□ S-630-3	FLASHING BEACON (PORTABLE) DETAILS	
□ S-630-4	STEEL SIGN SUPPORT (TEMPORARY) INSTALLA DETAILS (2 SHEETS) 12/27/2022	
□ S-630-5	PORTABLE RUMBLE STRIPS (TEMPORARY) (2 4 41284 m	
□ S-630-6	EMERGENCY PULL-OFF AREA (TEMPORARY).	
□ S-630-7	ROLLING ROADBLOCKS FOR TRAFFIC CONTROL (3 SHEETS)	

S STANDARD

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- 2. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND ACCEPTANCE BY THE ENGINEER.
- 3. ALL WORK SHALL BE DONE TO THE LINES, GRADES, SECTIONS, AND ELEVATIONS SHOWN ON THE PLANS UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER.
- 4. ALL STATIONS ARE TO THE PROJECT CONTROL LINES, UNLESS OTHERWISE NOTED.
- 5. AN EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) IS REQUIRED FOR THIS PROJECT BECAUSE IT IS WITHIN 100 HORIZONTAL FEET OF A PERENNIAL STREAM OR A MAIN IRRIGATION DITCH. FOR MORE INFORMATION ON EL PASO COUNTY REQUIREMENTS AND PERMIT REQUESTS, VISIT HTTPS://PUBLICWORKS.ELPASOCO.COM/STORMWATER/
- THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND/OR TOES OF SLOPE AS SHOWN ON THE PLANS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITIONS AT THE CONTRACTOR'S EXPENSE. CONSTRUCTION ACTIVITIES, IN ADDITION TO NORMAL CONSTRUCTION PROCEDURES, SHALL INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS, WHERE APPROVED.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
- UTILITIES ARE DEPICTED ON THESE PLANS IN ACCORDANCE WITH THEIR ACHIEVED QUALITY LEVELS AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEER'S DOCUMENT ASCE 38, "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA"
- RELIANCE UPON THESE UTILITY DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DOES NOT RELIEVE THE EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING EXCAVATION. IT IS IMPORTANT THAT THE CONTRACTOR INVESTIGATES AND UNDERSTANDS THE SCOPE OF WORK BETWEEN THE PROJECT OWNER AND THEIR ENGINEER REGARDING THE SCOPE AND LIMITS OF THE UTILITY INVESTIGATIONS LEADING TO THESE UTILITY DEPICTIONS.
- 10. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR AT LEAST 48 HOURS BUT NO MORE THAN 1 WEEK PRIOR TO CONSTRUCTION OR EXCAVATION, FOR INFORMATION, CONTACT UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811. THE CONTRACTOR MUST VERIFY PERTINENT LOCATIONS AND ELEVATIONS. ESPECIALLY AT CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS
- 11. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL UTILITIES AND STRUCTURES AFFECTED BY THE WORK AND ANY DAMAGE SHALL BE REPAIRED AND RESTORED TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE PROJECT.
- 12. LOCATIONS FOR POTHOLING SHALL BE AS APPROVED BY THE PROJECT MANAGER.
- 13. ALL SURVEYING NECESSARY TO COMPLETE THE PROJECT WILL BE PAID FOR AS CONSTRUCTION SURVEYING 1 LUMP SUM. THE CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION DESIGNATED TO REMAIN FROM DAMAGE DURING CONSTRUCTION OPERATIONS. ANY MONUMENTS DISTURBED BY THE CONTRACTOR THAT ARE NOT DESIGNATED FOR RELOCATION SHALL BE RESET AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR AND THE PROJECT ENGINEER SHALL NOTE THOSE MONUMENTS IN THE FIELD PRIOR TO CONSTRUCTION.
- 14. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER FOR APPROVAL A STORMWATER MANAGEMENT PLAN THAT COMPLIES WITH THE REQUIREMENTS OF THE EL PASO COUNTY CRITERIA MANUAL AND THE CITY OF COLORADO SPRINGS DRAINAGE CRITERIA MANUAL, VOLUME II, AS ADOPTED BY THE EL PASO COUNTY ADDENDUM

#### WASTE MANAGEMENT:

1. THE CONTRACTOR SHALL NOT BURN, BURY, OR OTHERWISE DISCHARGE CONSTRUCTION OR DEMOLITION WASTE ON THE SITE UNLESS OTHERWISE SPECIFIED.

Sheet Revisions

THE CONTRACTOR SHALL PROVIDE A PORTABLE TOILET AND ASSOCIATED MAINTENANCE SCHEDULE FOR THE CONSTRUCTION AREA SUFFICIENT TO ACCOMMODATE THE CONSTRUCTION CREW AND ALL OTHER AUTHORIZED PERSONS TO BE ONSITE DURING CONSTRUCTION ACTIVITIES

#### **EROSION CONTROL MEASURES:**

- 1. THE CONTRACTOR SHALL PERIODICALLY INSPECT ALL INSTALLED CONTROL MEASURES, PROVIDE MAINTENANCE, AND MAKE REPAIRS AS NECESSARY TO PREVENT THEIR FAILURE.
- 2. VEHICLE TRACKING CONTROLS SHALL BE USED AT ALL VEHICLE AND EQUIPMENT ACCESS POINTS TO THE SITE TO PREVENT SEDIMENT EXITING THE PROJECT SITE ONTO PAVED PUBLIC ROADS. ACCESS SHALL BE PROVIDED ONLY AT LOCATIONS APPROVED BY THE ENGINEER. VEHICLE TRACKING CONTROL LOCATIONS SHALL BE RECORDED ON THE SWMP SITE MAP.
- 3. ALL INLETS AND CULVERTS SHALL BE PROTECTED DURING ONSITE CONSTRUCTION ACTIVITIES. INLET PROTECTION LOCATIONS SHALL BE RECORDED ON THE SWMP SITE MAP
- 4. GRADING ACTIVITIES ADJACENT TO THE ACTIVE STREAM BED SHALL BE PERFORMED IN A MANNER THAT MINIMIZES SPILLAGE OF SOIL INTO THE ACTIVE STREAM BED.
- 5. THE CONTRACTOR MUST MAINTAIN A SPILL KIT ON SITE WHEN WORKING AROUND SURFACE WATERS. IF POLLUTANTS ARE SPILLED INTO ANY SURFACE WATERS DURING THE COURSE OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR MUST NOTIFY THE OWNER'S REPRESENTATIVE OR ENGINEER IMMEDIATELY.
- 6. TO THE EXTENT PRACTICAL, FLOW SHALL BE DIVERTED AROUND EARTH DISTURBING WORK PERFORMED IN THE ACTIVE STREAM BED.
- 7. GRAVEL FILTRATION PACKS OR OTHER APPROPRIATE FILTRATION OR SETTLING METHODS SHALL BE UTILIZED TO MINIMIZE SEDIMENT CONTENT IN PUMPAGE FROM DEWATERING OR DIVERSION ACTIVITIES.

#### HAZARDOUS MATERIALS

- 1. THE CONTRACTOR SHALL TRANSPORT, USE, AND STORE HAZARDOUS MATERIAL IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS. SPILLED HAZARDOUS MATERIALS SHALL BE REMOVED FROM THE SITE AND THE PROPERTY RESTORED TO ITS PRE-SPILL STATE IN ACCORDANCE WITH REGULATORY REQUIREMENTS.
- 2. THE CONTRACTOR SHALL IMMEDIATELY REPORT SPILLS TO THE PROPER REGULATORY AUTHORITY AND SHALL IMMEDIATELY NOTIFY THE ENGINEER.
- 3. HANDLING OF CONSTRUCTION FUELS AND LUBRICANTS:
- THE CONTRACTOR SHALL EMPLOY PERSONS QUALIFIED TO HANDLE CONSTRUCTION EQUIPMENT FUELS AND LUBRICANTS. 3 A
- THE CONTRACTOR SHALL REFUEL AND SERVICE EQUIPMENT AWAY FROM FLOODPLAINS OF RIVERS, STREAMS, AND OTHER BODIES 3.B. OF WATER. THE CONTRACTOR SHALL ENSURE EQUIPMENT THAT ENTERS THE WATER IS FREE FROM EXTERNAL GREASE, OIL, AND MUD.
- THE CONTRACTOR SHALL PREVENT HANDLING AND FUELING OPERATIONS FROM CONTAMINATING THE GROUND, SURFACE WATER, AND GROUND WATER. THE CONTRACTOR SHALL USE CONTAINMENT BERMS AND AN IMPERMEABLE BASE COURSE OR OTHER SYSTEM TO CONTAIN SPILLED FLIFT

#### CONSTRUCTION ACCESS

- 1. THE COUNTY HAS OBTAINED TEMPORARY EASEMENTS AND ACCESS RIGHTS FROM ME & THEE, LLC ON THE NORTHEAST SIDE OF THE EXISTING BRIDGE. THE COUNTY INTENDS ALL CONSTRUCTION VEHICLES TO UTILIZE THE ESTABLISHED ACCESS POINT OFF OF JANITELL
- 2. THE CONTRACTOR MAY ELECT TO SEEK ALTERNATIVE ACCESS FROM THE SOUTH AT THEIR OWN DISCRETION. SHOULD THE CONTRACTOR ELECT TO DO SO, THEY ARE RESPONSIBLE FOR ALL CONTACT, COORDINATION, AND AGREEMENTS WITH THE AFFECTED PRIVATE PROPERTY OWNERS.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING, MAINTAINING, AND RESTORING THE TEMPORARY ACCESS BETWEEN JANITELL ROAD AND THE PROJECT SITE.
- 4. ACCESS TO THE WATERWAY AND WORK ZONE BY HEAVY EQUIPMENT SHALL OCCUR ADJACENT TO OR NEAR THE DESIGNATED STOCKPILE AREA
- 5. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING, ESTABLISHING, MAINTAINING, AND RESTORING AN APPROPRIATE LOCATION FOR WORK ZONE ACCESS AND STREAM CROSSINGS.



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#### **GENERAL CARE OF WATER:**

CARE OF WATER SHALL INCLUDE THE DESIGN OF ALL TEMPORARY CARE OF WATER PROVISIONS INCLUDING COFFER DAMS, SUMPS, PUMPING SYSTEMS, PIPELINES, CHANNELS, FLUMES, DRAINS, AND OTHER PROTECTIVE AND DEWATERING WORKS TO ALLOW FOR CONSTRUCTION TO BE PERFORMED UNDER DRY CONDITIONS.

- 1. NO CONSTRUCTION EQUIPMENT SHALL BE OPERATED BELOW THE EXISTING WATER SURFACE UNLESS SPECIFICALLY AUTHORIZED BY THE STORMWATER QUALITY PERMIT ISSUED BY EL PASO COUNTY AND ANY OTHER APPLICABLE LOCAL, STATE, OR FEDERAL LICENSE
- 2. THE CONTRACTOR IS RESPONSIBLE FOR ALL CARE OF WATER INCLUDING, BUT NOT LIMITED TO, DESIGNING, SUPPLYING, CONSTRUCTING, OPERATING, AND REMOVING ALL CARE OF WATER PROVISIONS (INCLUDING COFFER DAMS AND SEDIMENT REMOVAL SYSTEMS). THE CONTRACTOR IS ALSO RESPONSIBLE FOR DESIGNING, SUPPLYING, INSTALLING, MAINTAINING, AND REMOVING PROTECTIVE WORKS FOR CARE OF WATER SYSTEMS FOR WINTER OPERATIONS.
- 3. THE CONTRACTOR SHALL COMPLY WITH ALL USACE SECTION 404 PERMIT REQUIREMENTS AND THE USE OF NATIONWIDE PERMIT #3.
- CARE OF WATER SHALL INCLUDE PROVISIONS FOR HANDLING GROUNDWATER, RAINSTORM RUNOFF, SNOW, SNOW MELT, AND ICE THAT MAY ENTER THE WORK AREA.
- PROTECTIVE WORKS SHALL BE DESIGNED BY THE CONTRACTOR AS NECESSARY TO INCLUDE ENCLOSURES. INSULATION, AND HEATING SYSTEMS TO ENSURE THAT DEWATERING SYSTEMS OPERATE CONTINUOUSLY AND DO NOT BECOME FROZEN DURING COLD WEATHER.
- THE CONTRACTOR MAY BE REQUIRED TO PROVIDE AND MAINTAIN SEDIMENT PONDS, REMOVE SEDIMENT FROM WATERS COLLECTED WITHIN THE ACTIVE CONSTRUCTION AREAS PRIOR TO ALLOWING IT TO ENTER OR RETURN TO THE WATERCOURSE, AND SHALL DISPOSE OF SEDIMENTS IN A LOCATION.
- THE CONTRACTOR SHALL MONITOR WATER TURBIDITY DURING CONSTRUCTION ACTIVITIES AND SHALL SHUT DOWN WORKS AT TIMES OF EXCESS TURBIDITY IN ORDER TO ALLOW THE WATER TO CLEAR PRIOR TO THE RECOMMENCEMENT OF INSTREAM WORK.
- TURBIDITY IS EXPECTED DURING PLACEMENT AND REMOVAL OF WATER CONTROL. IF WATERS BECOME NOTICEABLY TURBID, THE CONTRACTOR SHOULD PROMPTLY HALT OPERATIONS TO ALLOW WATERS TO CLEAR PRIOR TO RESUMING OPERATIONS. FURTHERMORE, SHUTDOWNS FOR SILTY OR TURBID WATER MAY BE SPECIFIED BY THE ENGINEER OF THE OWNER'S REPRESENTATIVE, AT THEIR
- IN THE EVENT OF UNSCHEDULED CONSTRUCTION ACTIVITY THAT RESULTS IN A VISUALLY CONSPICUOUS PLUME OF SEDIMENT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND TAKE MITIGATION ACTIONS NECESSARY TO COMPLY WITH THE SPECIFIED CLEAN WATER CRITERIA.

#### **INVASIVE AQUATIC NUISANCE SPECIES:**

IN ORDER TO AVOID THE SPREAD OF INVASIVE AQUATIC SPECIES INCLUDING, BUT NOT LIMITED TO, EURASIAN WARERMILFOIL, ZEBRA MUSSEL, QUAGGA MUSSEL, AND THE NEW ZEALAND MUDSNAIL, THE FOLLOWING BMPS SHALL BE PRACTICED:

- 1. IF TOOLS, CONSTRUCTION MATS, AND/OR HEAVY EQUIPMENT ARE TO BE USED FOR INSTREAM WORK THAT HAS BEEN PREVIOUSLY UTILIZED IN ANOTHER STREAM, RIVER, LAKE, POND, OR WETLAND, REMOVE ALL MUD, PLANTS, AND ORGANIC MATERIAL AWAY FROM WATER BODIES, AND APPLY ONE OF THE FOLLOWING PROCEDURES TO PREVENT THE SPREAD OF AQUATIC NUISANCE SPECIES AND OTHER PATHOGENS:
- 1.A. IMMERSE TOOLS AND/OR OTHER EQUIPMENT IN A SOLUTION OF QUATERNARY AMMONIUM-BASED INSTITUTIONAL CLEANER AND CLEAN WATER (SIX OUNCES OF GREEN SOLUTIONS HIGH DILUTION DISINFECTANT 256 OR SUPER HDQ NEUTRAL PER GALLON OF CLEAN WATER). RINSE WITH CLEAN WATER AND DISPOSE OF CHEMICALS PROPERLY AWAY FROM WATER BODIES.
- SPRAY OR SOAK TOOLS AND/OR EQUIPMENT WITH CLEAN WATER (MUST BE 140° OR WARMER) FOR AT LEAST TEN MINUTES PRIOR TO AND AFTER WORK WITHIN A WATERWAY. GEAR AND EQUIPMENT SHOULD BE SPRAYED OR SOAKED AWAY FROM WATER BODIES. ALL EQUIPMENT SHOULD BE COMPLETELY DRAINED OF WATER AND DRIED. TOOLS AND/OR EQUIPMENT SHOULD BE COMPLETELY DRIED BETWEEN EACH USE.
- 2. IF THERE ARE QUESTIONS ABOUT THESE DISINFECTION PROCEDURES, PLEASE CONTACT CPW'S INVASIVE SPECIES PROGRAM AT (303) 291-7295 OR INVASIVE.SPECIES@STATE.CO.US



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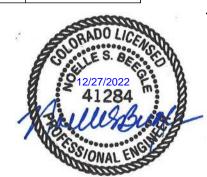
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Alfred Benesch & Company 7979 F. Tuffs Avenue, Suite 800	

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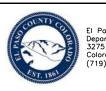
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CONTRACT	CONTRACT ITEM	LINIT	BRIDGE EPO	C 0377-00.50A					PROJE	CT TOTALS
ITEM NO.	CONTRACT ITEM	UNIT	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.
201-00000	CLEARING AND GRUBBING	LS	1						1	
202-00127	REMOVAL OF RIPRAP	CY	329						329	
203-00010	UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE)	CY	6338						6338	
203-00400	ROCK EXCAVATION	CY	751						751	
203-01597	POTHOLING	HOUR	8						8	
207-00702	TOPSOIL	CY	403						403	
208-00002	EROSION LOG TYPE 1 (12 INCH)	LF	680						680	
208-00041	ROCK CHECK DAM	EA	3						3	
208-00070	VEHICLE TRACKING PAD	EA	1						1	
208-00103	REMOVAL AND DISPOSAL OF SEDIMENT (LABOR)	HOUR	24						24	
208-00105	REMOVAL AND DISPOSAL OF SEDIMENT (EQUIPMENT)	HOUR	24						24	
208-00207	EROSION CONTROL MANAGEMENT	DAY	30						30	
208-00301	TEMPORARY DIVERSION	LF	308						308	
208-00400	WATER CONTROL	LS	1						1	
208-00520	TEMPORARY STREAM CROSSING	EA	1						1	
210-01000	RESET FENCE	LF	50						50	



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Service Colorado 80237
303-771-8868

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ITEM NO.	CONTRACT ITEM	UNII	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	
212-00005	SEEDING (NATIVE)	ACRE	0.43						0.43		
212-00032	SOIL CONDITIONING	ACRE	0.43						0.43		
216-00306	COIR MAT	SY	2077						2077		
240-00000	WILDLIFE BIOLOGIST	HOUR	8						8		
240-00015	PROTECTION OF MIGRATORY BIRDS	HOUR	8						8		
506-00412	SOIL RIPRAP (12 INCH)	CY	1259						1259		
506-00424	SOIL RIPRAP (24 INCH)	CY	4910						4910		
620-00020	SANITARY FACILITY	EA	1						1		
625-00000	CONSTRUCTION SURVEYING	LS	1						1		
626-00000	MOBILIZATION	LS	1						1		
630-00016	CONSTRUCTION TRAFFIC CONTROL	LS	1						1		
700-70010	F/A MINOR CONTRACT REVISIONS	FA	1						1		
700-70195	F/A UTILITIES	FA	1						1		
700-70310	F/A LANDSCAPING	FA	1						1		
700-70380	F/A EROSION CONTROL	FA	1						1		
700-70495	ASBESTOS REMOVAL	FA	1						1		

TABULATION OF EARTHWORK							
UNCLASSIFIED EXCAVATION	CY						
NORTH BANK	922						
OVERFLOW CHANNEL	5435						
EMBANKMENT	CY						
OVERFLOW CHANNEL	19						

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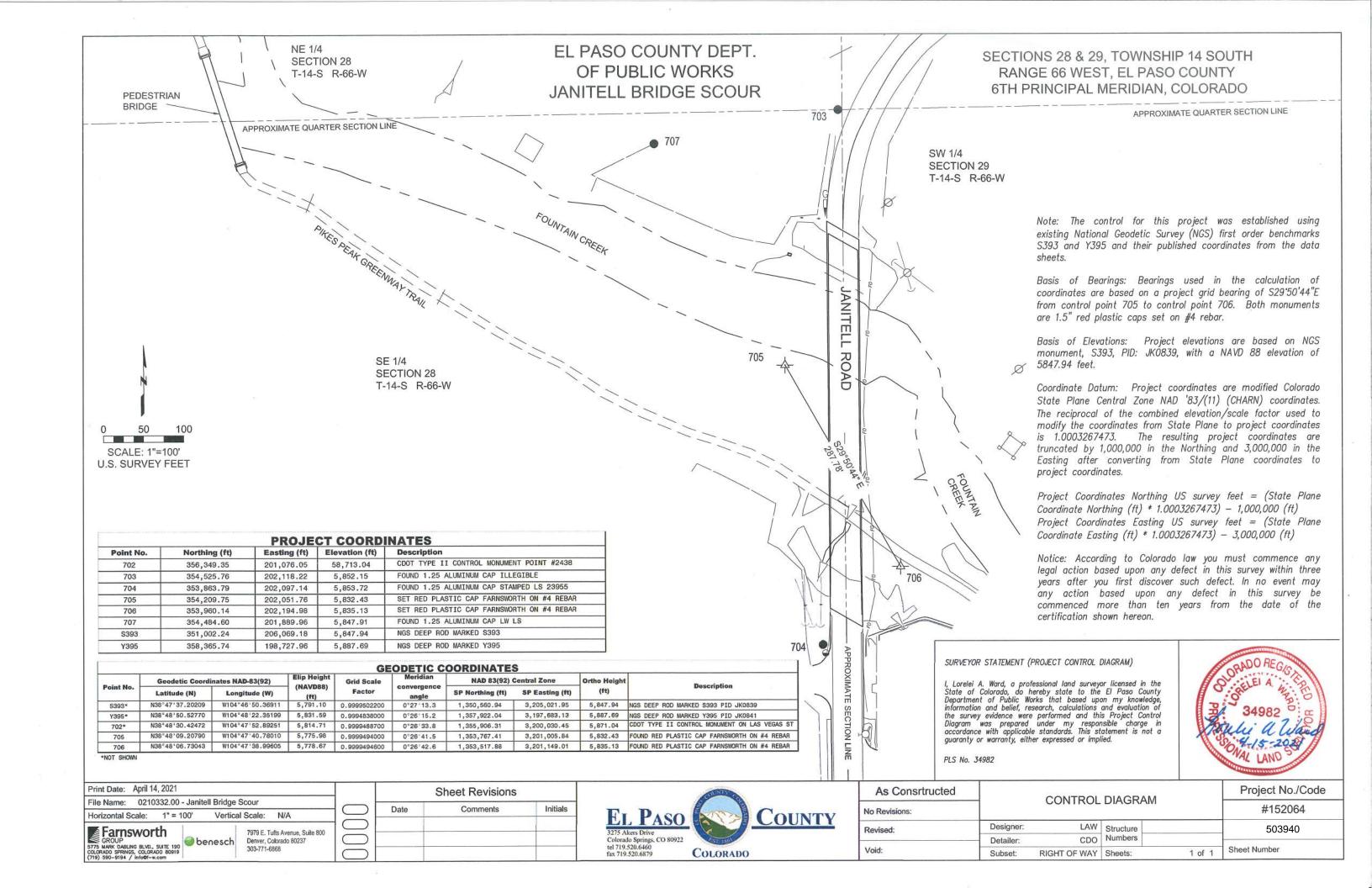


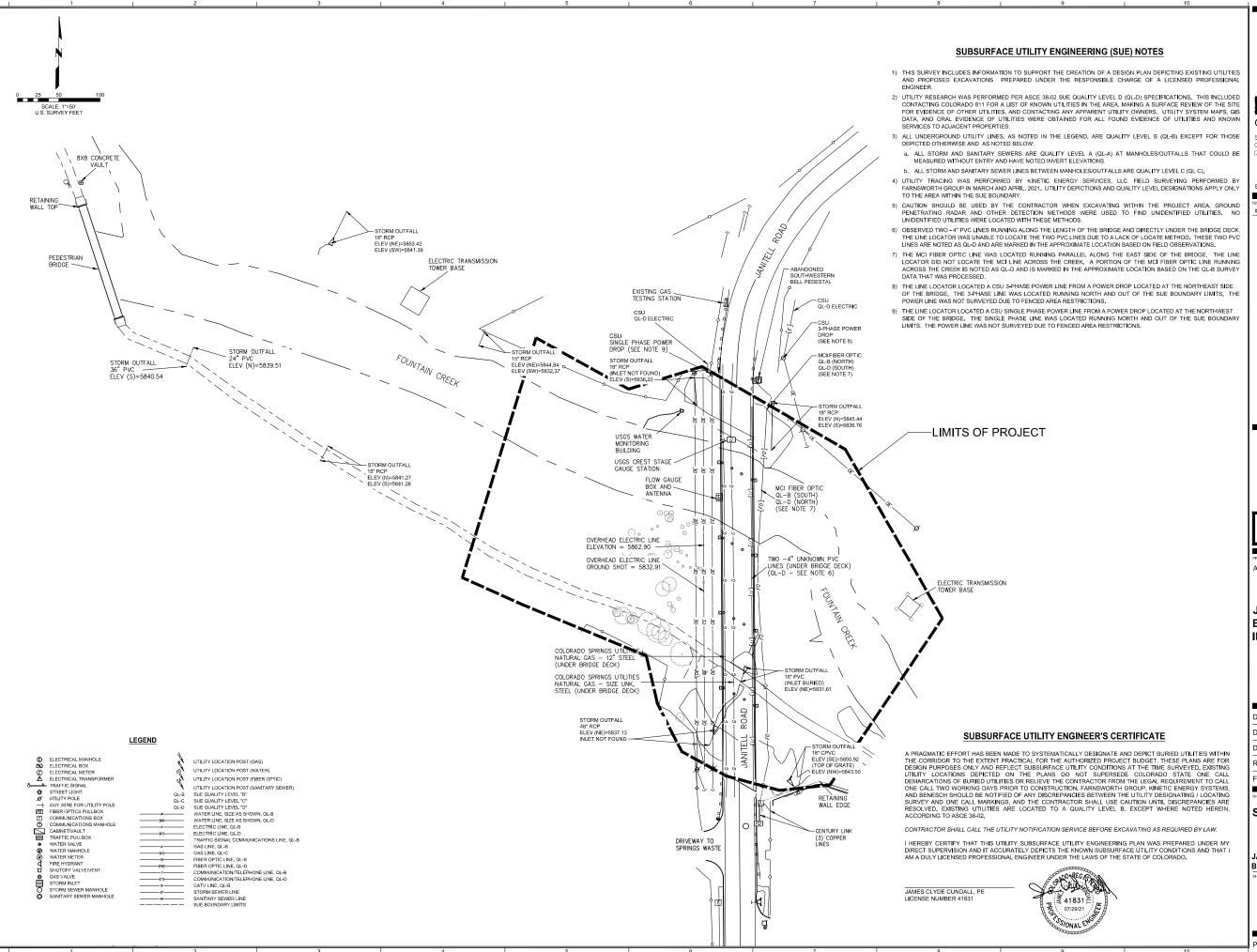
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5775 MARK DABLING BLVD., SUITE 190 COLORADO SPRINGS, COLORADO 80919 719) 590-9194 / info@f-w.com

DATE: DESCRIPTION:

UTILITY LOCATES/SUE EXHIBI

PRELIMINARY NOT FOR CONSTRUCTION

ALFRED BENESCH & COMPANY

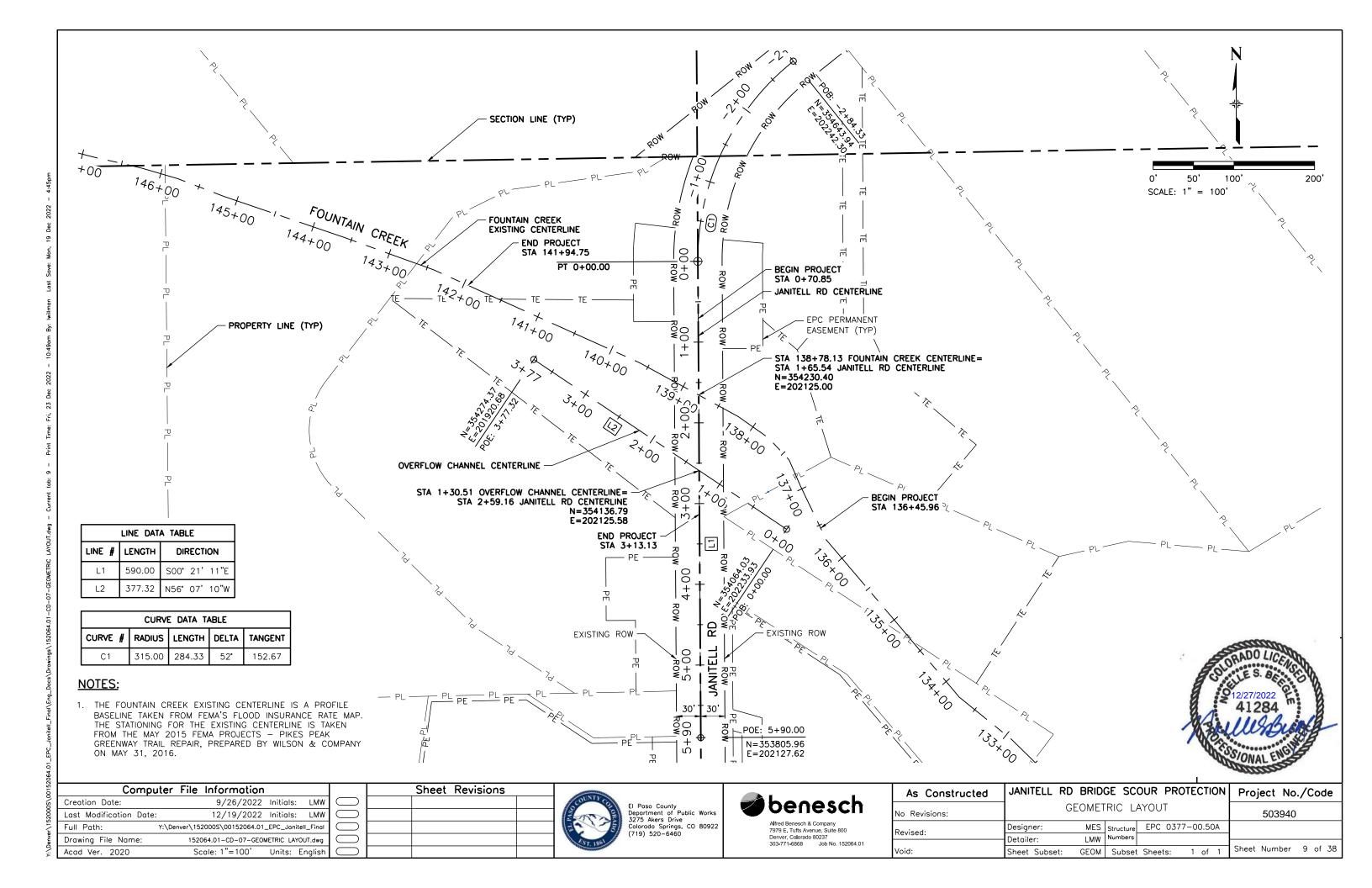
**JANITELL ROAD** BRIDGE **IMPROVEMENTS** 

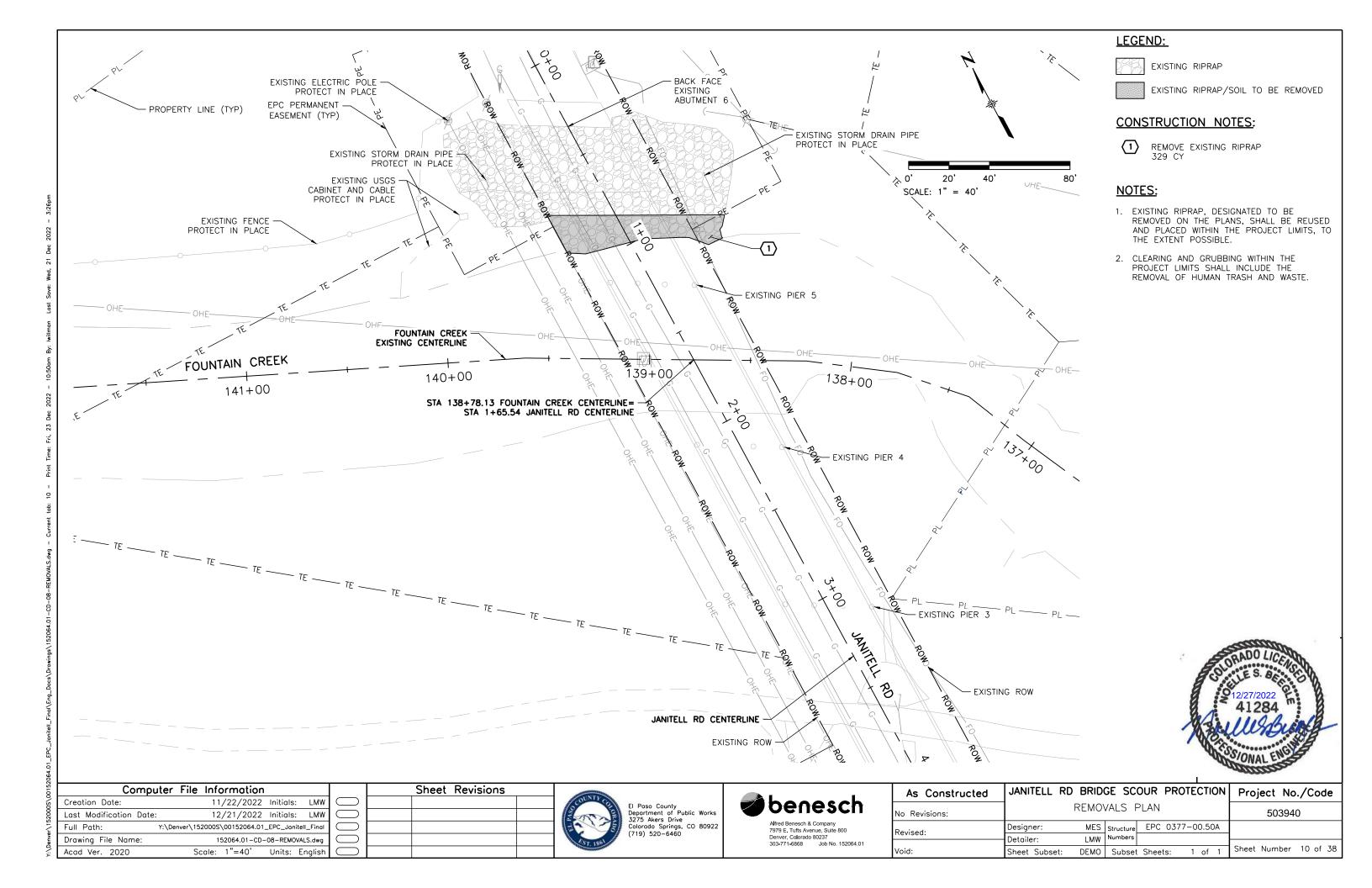
DATE:	7/28/2021
DESIGNED:	LAW
DRAWN:	CDO
REVIEWED:	GDK
FIELD BOOK NO.:	N/A

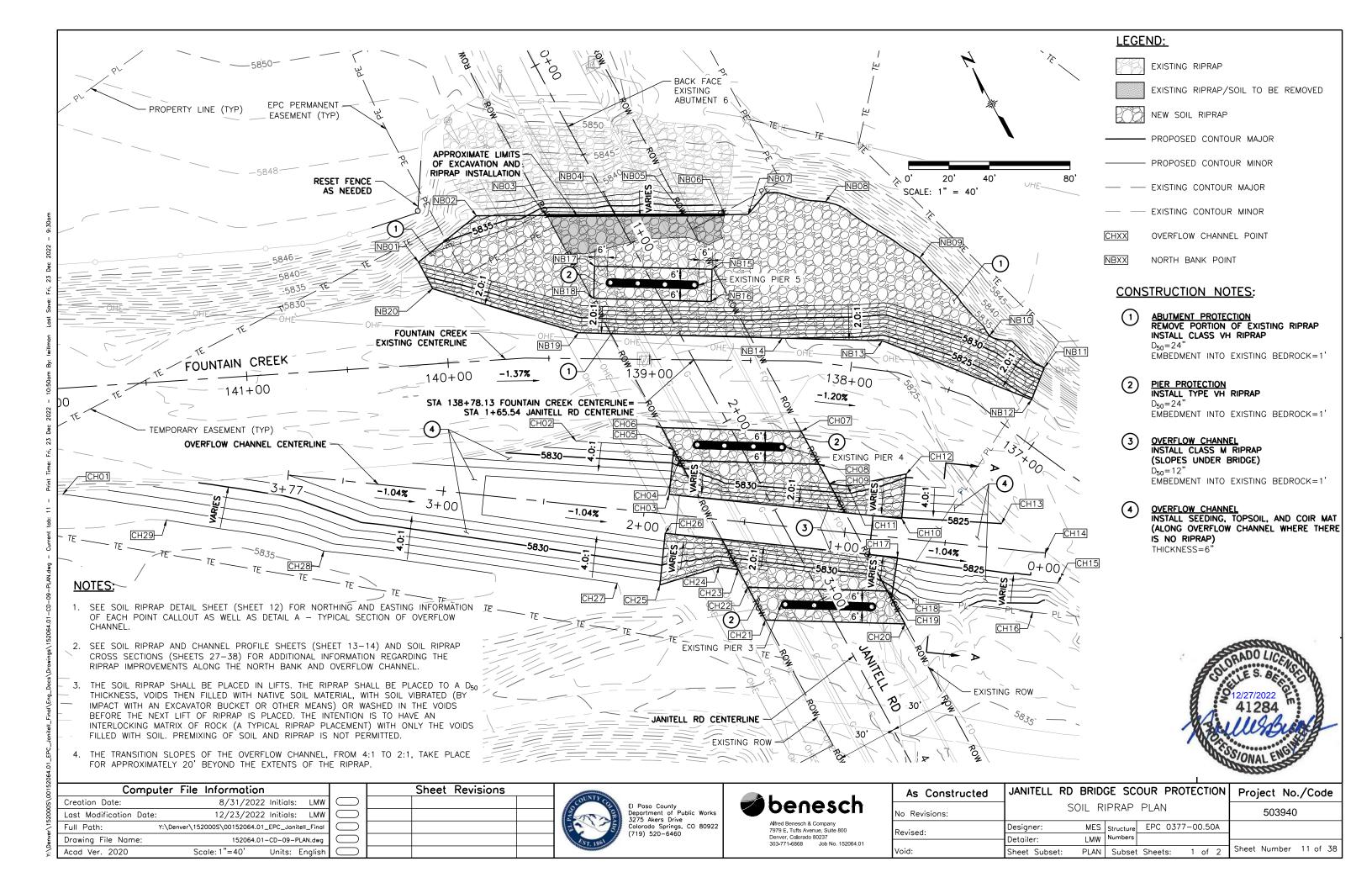
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JANITELL ROAD BRIDGE IMPROVEMENTS

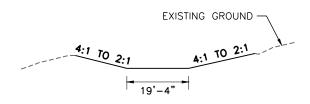
PROJECT NO.:







	NORTH BANK POINT TABLE					
POINT #	NORTHING	EASTING	DESCRIPTION			
NB01	354282.99	201856.98	GRADING LIMITS			
NB02	354337.24	202027.27	GRADING LIMITS			
NB03	354344.04	202063.41	RIPRAP LIMITS			
NB04	354327.69	202094.41	RIPRAP LIMITS			
NB05	354311.82	202124.50	RIPRAP LIMITS			
NB06	354295.95	202154.60	RIPRAP LIMITS			
NB07	354281.47	202182.68	GRADING LIMITS			
NB08	354268.94	202219.40	GRADING LIMITS			
NB09	354222.37	202247.54	GRADING LIMITS			
NB10	354172.13	202260.05	GRADING LIMITS			
NB11	354145.49	202276.59	GRADING LIMITS			
NB12	354134.39	202263.58	GRADING LIMITS - BOS			
NB13	354194.89	202211.98	GRADING LIMITS - BOS			
NB14	354219.32	202168.81	GRADING LIMITS - BOS			
NB15	354265.79	202154.06	PIER PROTECTION LIMITS			
NB16	354251.87	202146.18	PIER PROTECTION LIMITS			
NB17	354294.48	202103.38	PIER PROTECTION LIMITS			
NB18	354280.56	202095.49	PIER PROTECTION LIMITS			
NB19	354269.12	202080.82	GRADING LIMITS - BOS			
NB20	354322.32	202027.27	GRADING LIMITS - BOS			



### DETAIL A TYPICAL SECTION OVERFLOW CHANNEL

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POINT #

CH01

CH02

CH03

CH04

CH05

CH06

CH07

CH08

CH09

CH10

CH11

CH12

CH13

CH14

CH15

CH16

CH17

CH18

CH19

CH20

CH21

CH22

CH23

CH24

CH25

CH26

CH27

CH28

CH29

NORTHING

354318.45

354222.32

354177.26

354189.76

354195.56

354208.21

354174.10

354155.62

354144.63

354112.61

354139.37

354131.03

354087.14

354064.03

354048.11

354041.13

354096.52

354084.24

354079.89

354065.75

354099.89

354118.34

354128.29

354133.92

354139.82

354161.19

354150.52

354232.86

354282.99



OVERFLOW CHANNEL POINT TABLE

DESCRIPTION

GRADING LIMITS

GRADING LIMITS - TOS

GRADING LIMITS - BOS

PIER PROTECTION LIMITS

GRADING LIMITS - TOS

PIER PROTECTION LIMITS

PIER PROTECTION LIMITS

PIER PROTECTION LIMITS

GRADING LIMITS - TOS

GRADING LIMITS - BOS

BEGINNING OF TRANSITION - TOS

END OF TRANSITION - TOS

GRADING LIMITS

GRADING LIMITS

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PIER PROTECTION LIMITS

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GRADING LIMITS - TOS

BEGINNING OF TRANSITION - TOS

END OF TRANSITION - TOS

GRADING LIMITS - BOS

GRADING LIMITS

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GRADING LIMITS

EASTING

201817.64

202054.58

202082.93

202095.26

202095.22

202095.14

202155.35

202155.46

202155.53

202179.02

202163.05

202191.39

202221.58

202233.93

202232.36

202214.62

202168.21

202155.90

202155.93

202156.02

202095.81

202095.70

202095.64

202087.87

202057.79

202072.14

202039.52

201918.61

201856.98

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#### **LEGEND:**

BOS BOTTOM OF SLOPE

TOS TOP OF SLOPE

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## PROFILE VIEW — JANITELL RD CENTERLINE VERTICAL SCALE: 1"=8"

#### **NOTES:**

- 1. THICKNESS OF RIPRAP SHALL BE NO LESS THAN SHOWN AND NO MORE THAN TWO (2) INCHES GREATER THAN THICKNESS SHOWN.
- 2. PROFILE IS OF JANITELL RD CENTERLINE. SEE SOIL RIPRAP CROSS SECTIONS (SHEETS 27-38) FOR ADDITIONAL INFORMATION REGARDING THE RIPRAP IMPROVEMENTS ALONG THE NORTH BANK AND OVERFLOW CHANNEL.
- 3. THE CONTRACTOR SHALL BENCH THE PROPOSED CUT TO OSHA STANDARDS. THE CONTRACTOR SHALL DETERMINE THE APPROPRIATE MEANS AND METHODS TO ENSURE SLOPE STABILITY DURING CONSTRUCTION ACTIVITY AS WELL AS LONG TERM STABILITY AFTER WORK IS COMPLETE. NO SEPARATE PAYMENT WILL BE MADE.
- 4. THE ELEVATION OF THE TOP OF EXISTING BEDROCK IS APPROXIMATE. FOR ADDITIONAL INFORMATION, SEE THE GEOTECHNICAL INVESTIGATION FOR THE JANITELL ROAD BRIDGE, PREPARED BY CTL THOMPSON INC. ON SEPTEMBER 28, 2021.
- 5. SOIL RIPRAP EMBEDMENT INTO EXISTING BEDROCK SHALL BE A MINIMUM OF 1' WHERE SOIL RIPRAP IS CALLED OUT ON THE PLANS.

#### LEGEND:

EXIS

EXISTING RIPRAP



EXISTING RIPRAP/SOIL TO BE REMOVED



NEW SOIL RIPRAP



SEEDING, TOPSOIL, AND COIR MAT

#### **CONSTRUCTION NOTES:**

ABUTMENT PROTECTION
REMOVE EXISTING RIPRAP
INSTALL CLASS VH RIPRAP
D<sub>50</sub>=24"

EMBEDMENT INTO EXISTING BEDROCK=1'

2 PIER PROTECTION INSTALL TYPE VH RIPRAP

D<sub>50</sub>=24"
EMBEDMENT INTO EXISTING BEDROCK=1'

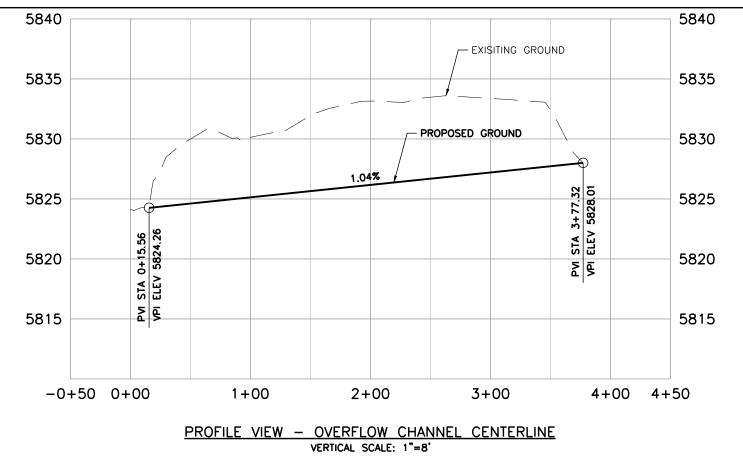
OVERFLOW CHANNEL
INSTALL CLASS M RIPRAP
(SLOPES UNDER BRIDGE)
D50=12"
EMBEDMENT INTO EXISTING BEDROCK=1'

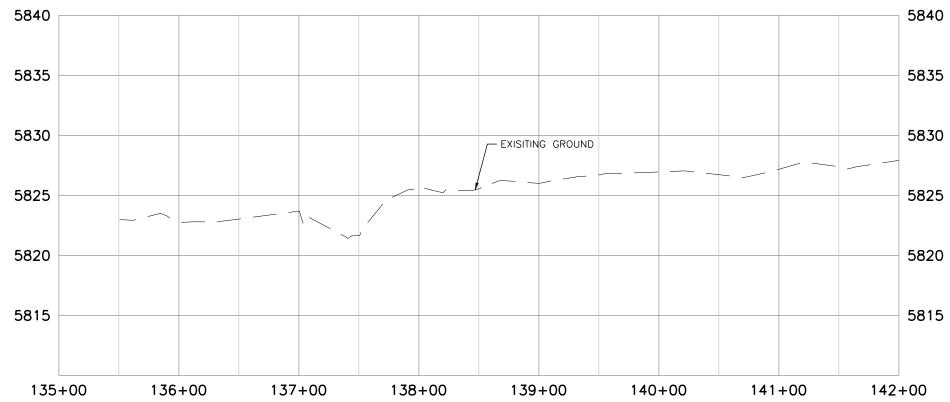
4 OVERFLOW CHANNEL
INSTALL SEEDING, TOPSOIL, AND COIR MAT
(ALONG OVERFLOW CHANNEL WHERE THERE
IS NO RIPRAP)

THICKNESS=6"



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## PROFILE VIEW — FOUNTAIN CREEK EXISTING CENTERLINE VERTICAL SCALE: 1"=8"

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#### NOTES:

 SEE SOIL RIPRAP CROSS SECTIONS (SHEETS 27-38) FOR ADDITIONAL INFORMATION REGARDING THE RIPRAP IMPROVEMENTS ALONG THE NORTH BANK AND OVERFLOW CHANNEL.

#### 1. SITE DESCRIPTION

The Contractor shall comply with all 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:

The project site is located about 2.5 miles southeast of downtown Colorado Springs, Colorado at the boundary of Section 28 (T14S R66W) and Section 29 (T14S R66W) of the 6<sup>th</sup> Prime Meridian. The project site is bounded by private property.

Location or address of construction office:

#### B. PROJECT SITE DESCRIPTION:

The project is to provide scour prevention/mitigation for the Janitell Road Bridge over Fountain Creek (structure number 0377-00.50A). Construction activities include the placement of riprap around Abutment 6 and Piers 3, 4, and 5 in addition to the excavation of an overflow channel between Piers 3 and 4. The existing soil around the piers will be excavated and replaced with riprap. The riprap thickness will vary, though one foot of riprap will be embedded into the existing bedrock. Other construction activities include the installation of erosion control measures, seeding, and other stabilization.

#### C. PROPOSED SCHEDULE FOR SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES:

The sequence of events for the project includes right-of-way and easement establishment, delineating the of limits of disturbance/construction, installing erosion control measures, diverting water, dewatering the construction site (as needed), installing a temporary stream crossing, excavating the overflow channel and areas around the piers, placing riprap around the piers and overflow channel, and installing seeding and other stabilization. All areas that are not paved or landscaped will be stabilized through establishment of vegetation cover.

#### D. ACRES OF DISTURBANCE:

- 1. Total area of construction site (LOC (PERMITTED AREA)): 3.57 acres
- 2. Total area of proposed disturbance (LDA): 2.01 acres
- 3. Total area of seeding: 0.43 acres
- 4. Total area of pre-project impervious surface: 0 sq. ft.
- 5. Total area of final impervious surface: 0 sq. ft.

#### E. EXISTING SOIL DATA:

The existing soil within the vicinity of the project site is loamy coarse sand (hydrologic soil group A). Type A soils have high infiltration rates and are well drained. The soil is well drained and is typically found in floodplains, stream terraces, alluvial fans, and depressions. The whole soil has K factors of 0.15-0.32 exhibiting relatively low susceptibility of the soil to sheet and erosion by water. Due to the lower value K factors, the soil is well drained. Data Source(s): USDA NRCS 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.

A survey including general description of existing vegetation shall be conducted by the SWMP Administrator for Design prior to any ground disturbance on the project. The SWMP Administrator for Design shall photodocument existing vegetation where all work will be occurring. The SWMP Administrator for Design shall also perform the vegetation survey transect(s) including photo documentation as outlined in Chapter 4.11.2 of CDOT's Erosion Control and Stormwater Quality Guide.

<u>Pre-Construction</u> Date of survey:	Percent Existing Vegetative Cover:
	9 9

Description of existing vegetation:

Method for determining percent vegetative cover:

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:

Post-Construction Date of survey:	Percent Vegetative Cover:	

Description of vegetation:

The method used to determine pre-construction percent cover shall be 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:

#### G. 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.

#### H. DRAINAGE PATTERNS AND RECEIVING WATER(S):

- 1. Outfall locations: Runoff within the vicinity of the project site flows to Fountain Creek which is a major drainageway that runs north to south throughout Colorado Springs and El Paso County.
- 2. Names of immediate and ultimate receiving water(s) on site: The confluence of Spring Creek with Fountain Creek is located approximately 750 feet upstream of the project site, and about 1.7 miles downstream of the project site, Sand Creek merges with Fountain Creek.
- 3. Ultimate receiving water(s): Fountain Creek and Arkansas River
- 4. Description of all stream crossings located within the Construction Site Boundary:

Location	Stream Name	Description Of Any Disturbed Upland Areas
Janitell Road Bridge	Fountain Creek	Area surrounding bridge scour mitigation

#### I. 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.

#### J. DESCRIPTION OF DRAINAGE PATTERNS FROM THE SITE:

Fountain Creek runs north to south throughout the project site. Runoff from the site will flow to Fountain Creek where it will travel downstream to the Arkansas River.

#### K. ALTERNATIVE TEMPORARY STABILIZATION SCHEDULE:

[If applicable, provide a description of the alternative temporary stabilization schedule. If temporary stabilization exceeds the 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 stabilization schedules must be approved by CDOT prior to implementation]

#### 2. SITE MAP COMPONENTS:

Pre-construction

#### A. PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES: See SWMP Site Maps

B. <u>FLOW ARROWS THAT DEPICT STORMWATER FLOW DIRECTIONS ON-SITE, RUN-ON AND RUNOFF DIRECTION:</u>

See SWMP Site Maps

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- C. ALL AREAS OF GROUND SURFACE DISTURBANCE: See SWMP Site Maps
- D. AREAS OF CUT AND FILL: See SWMP Site Maps
- 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 SWMP Site Maps. The project does not anticipate the utilization of batch plants.

- F. LOCATION OF ALL STRUCTURAL CONTROL MEASURES IDENTIFIED IN THE SWMP: See SWMP Site Maps
- G. LOCATION OF NON-STRUCTURAL CONTROL MEASURES AS APPLICABLE IN THE SWMP: See SWMP Site Maps
- 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 SWMP Site Maps
- I. LOCATIONS OF ALL STREAM CROSSING LOCATED WITHIN THE CONSTRUCTION SITE BOUNDARY: See SWMP Site Maps
- J. PROTECTION OF TREES, SHRUBS, SENSITIVE HABITAT, AND CULTURAL RESOURCES: See SWMP Site Maps
- K. LOCATIONS WHERE ALTERNATIVE TEMPORARY STABILIZATION SCHEDULES APPLY: See SWMP Site Maps

#### 3. QUALIFIED STORMWATER MANAGERS:

A. SWMP ADMINISTRATOR FOR DESIGN:

CDOT Certified Individual responsible for developing SWMP Plan Sheets and SWMP Site Maps during the design

Name/Title	Contact Information	Certification #
Nacila S Basela DE	Alfred Benesch & Company	P0C310CF
Noelle S. Beegle, PE	(303) 771-6868, nbeegle@benesch.com	B9C319CF

B. SWMP ADMINISTRATOR FOR CONSTRUCTION: (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 with 208.03, the SWMP shall remain the property of CDOT. 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.
  - 1. Review the Topsoil Management Plan and the Permanent Stabilization Site Maps.
  - 2. Attend the Environmental Pre-Construction Conference.
  - 3. Coordinate the Site Pre-Vegetation Conference.
  - 4. Review and recommend approval of products.
  - 5. Review and recommend approval of the Quantities Verification Prerequisite.
  - 6. Attend the Partial Landscape Completion Walkthrough.
  - 7. Attend the Final Landscape Completion Walkthrough.

Name/Title	Contact Information (phone and email)

#### 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 and EPC SWMP Checklist Item 10. All control measures related to potential pollutants shall be described in detail and shown on the SWMP Site Map by the Contractor's SWMP Administrator for Construction.

Toilets: Portable toilets will be located a minimum 10 feet from stormwater inlets and 50 feet from state waters. They shall be adequately staked and cleaned on a weekly basis. They will be inspected daily for spills.

#### 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 SWMF continuously reviewed and modified throughout the construction phases. During construction, SWMP Administra for Construction shall add, update, or amend the items A-G 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.



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Alfred Benesch &	Company

As Constructed	JANITELL RD BRI	DGE SCOUR PROTE	CTION	Project No./Code
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- A. <u>MATERIALS HANDLING AND SPILL PREVENTION AND RESPONSE PLAN:</u> 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. <u>CONCRETE WASHOUT</u>: 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.

#### 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). As the SWMP is considered a "living document", the QSM shall amend the SWMP when there is a change in design, construction, and/or O&M of the site which would require the implementation of new or revised best management practices or if the SWMP proves to be ineffective in achieving the general objectives of controlling pollutants in storm water discharges associated with construction activity.

#### 8. RECORD KEEPING

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) or to 70% of the predisturbance vegetation level, whichever is stricter.

#### A. SEEDING PLAN:

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

COMMON NAME	% Mix
Big Bluestem; Kaw	10
Yellow Indiangrass; Cheyenne	10
Switchgrass; Blackwell	5
Little Bluestem; Cimarron	10
Sand Lovegrass	5
Sand Dropseed	5
Canada Wildrye	10
Western Wheatgrass; Arriba	15
Slender Wheatgrass; Pryor	10
Sideoats Grama; El Reno	10
Prairie Cordgrass	5
Bottlebrush Squirreltail	5

#### B. SEEDING APPLICATION METHOD:

The following seeding methods shall be used for all areas shown on the Permanent Stabilization Site Maps. Soil compaction shall be minimized for areas where permanent stabilization will be achieved through vegetative cover.

Pay Item	Seeding Method (subsection 212.05)	Acre
212-00005	Seeding (Native)	0.43
212-00707	Seeding (Native) Hydraulic	
212-00708	Seeding (Native) Broadcast	
212-00709	Seeding (Wetland) Drill	
212-00710	Seeding (Wetland) Hydraulic	
212-00711	Seeding (Wetland) Broadcast	
	Total	0.43

#### C. SOIL STABILIZATION METHODS:

Minimum soil stabilization methods for all dissturbances to receive seeding.

1. Apply a minimum of 2 tons/ac certified weed free hay or 2 ½ tons/ac of certified weed free straw and mechanically crimp into the soil in combination with natural mulch tackifier in accordance with Section 213. 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:

- 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.
- E. <u>SOIL AMENDMENT REQUIREMENTS:</u> Minimum amendment material requirements for all disturbances to receive seeding.

0.44 Total Acres of Seeding (Native) with Topsoil Generated From

	Pay Item	Description	Amount/Acre	Units	Total For This Method
Seeding	212-00700	Organic Fertilizer	300	Pounds	129
(Native) Drill	212-00701	Compost (Mechanically Applied)	65	CY	28
Pay Item 212-	212-00703	Humate	200	Pounds	86
00706	212-00704	Mycorrhizae	8	Pounds	4
	212-00705	Elemental Sulfur	0	Pounds	0

#### F. <u>Permanent Stabilization Application Under Structures:</u>

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

H. <u>LOCATION AND DESCRIPTION OF PLANNED PERMANENT CONTROL MEASURES</u>: Is Permanent Water Quality Required. Yes \_\_\_\_\_\_No\_\_X\_

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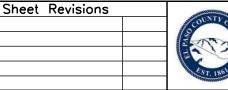
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#### 10. PRIOR TO PROJECT FINAL ACCEPTANCE

- 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.



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#### 11. NARRATIVES

#### **Control Measure Matrixes During Construction:**

1. Control measure narratives have been included for the CDOT 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 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:

	seed of the project for crosion and seament control, practices may include, but are not infinited to the folio			CONTROL MEASURE IMPLEMENTATION PHASE		
APPLICATION, CONTROL MEASURE	NARRATIVE	M- 208 STANDARD or "X" for NON- STANDARD	IN USE ON SITE	INITIAL ACTIVITIES	INTERIM ACTIVITIES	PERMANENT STABILIZATION
PROTECTION OF EXISTING WETLANDS Fence (plastic) and erosion logs	Fence (plastic) shall be placed in combination with erosion logs to prevent encroachment of construction traffic and sediment into state waters prior to start of construction disturbances. Fence (plastic) shall be placed adjacent to the wetlands; erosion logs shall be placed between the plastic fence and disturbance area. Logs shall be placed to direct flows away from or filter water running into wetlands from disturbance areas.			В	х	
PROTECTION OF EXISTING TREES/LANDSCAPING Fence (plastic)	Fence (plastic) shall be used in areas indicated in the plans to prevent encroachment of construction traffic and sediment for the protection of sensitive habitat, mature trees and/or existing landscaping prior to start of construction disturbances.			В	x	
CHECK DAM/DITCH CHECK  Erosion log, silt berm, silt dike, rock check dam	Placed in ditches immediately upon completion of ditch grading to reduce velocity of runoff in ditch. For existing ditches, place prior to start of construction disturbances.	M-208		х	х	
Storm Drain Inlet Protection In Paved Roadways (Type 1, 2 and 3 as shown on M-208-1, sheet 5 of 11)	entering the inlet throughout construction.	M-208				
Storm Drain Inlet Protection In Native Seed Areas (M-604 Standard Inlets Type C and D)	Erosion logs or aggregate bags placed around inlet grate to prevent sediment from entering inlet. Place prior to construction disturbances to protect existing inlets or immediately upon completion of new inlets.	M-208				
CULVERT INLET/OUTLET PROTECTION Erosion logs, aggregate bags	Placed at mouth of culvert inlets and over top of culvert at inlet and outlet where disturbance may be occurring adjacent to pipe to prevent sediment laden water from entering pipe or drainage. Place prior to the start of construction disturbances.	M-208				
TYPE C, TYPE D AND TYPE 13 PROTECTION Erosion logs, aggregate bags, erosion bales	Placed around inlet grate or slope and ditch paving to prevent sediment from entering inlet. Place prior to the start of construction disturbances.	M-208				
STOCKPILE PROTECTION Temporary berm, erosion logs, aggregate bags*	Placed within specified distance, in accordance with subsection 208.06, from toe to contain sediment around stockpile. *Aggregate bags are easily moved and replaced for access during the workday. Place prior to start of stockpiling, increase control as the stockpile increases size.	M-208			x	
TOE OF FILL PROTECTION  Erosion logs, temporary berm, silt fence, topsoil windrow*	Place prior to slope/embankment work to capture sediment and protect and delineate undisturbed areas. *Can be used to stockpile topsoil for salvage.	M-208		х	x	
PERIMETER CONTROL  Erosion logs, silt fence, temporary berm, topsoil windrow*	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area. *Can be used to stockpile topsoil for salvage.	M-208		В	x	
SLOPE CONTROL Silt fence, erosion logs	Placed on the contour of a slope to contain and slow down construction runoff. Place prior to the start of construction disturbances.	M-208		х	x	
TEMPORARY SEDIMENT TRAP	Used to capture sediment laden runoff from disturbed areas < 5 acres during construction. Place prior to the start of construction disturbances. Outlets that withdraw water from or near the surface may be installed when discharging from basins and impoundments.	M-208				
TEMPORARY SLOPE DRAIN	Placed as a conduit or chute to drain runoff down slope and to prevent erosion of slope.	M-208				
OUTLET PROTECTION Riprap, or approved other	Material placed as an energy dissipater to prevent erosion at outlet structure.	M-601-12				
CONCRETE WASHOUT In-ground or fabricated	Construction control, used for waste management of concrete and concrete equipment cleaning.  Place prior to the start of concrete activities.	M-208				

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APPLICATION, CONTROL MEASURE	NARRATIVE	M- 208 STANDARD or "X" for NON- STANDARD	IN USE ON SITE	INITIAL ACTIVITIES	INTERIM ACTIVITIES	PERMANENT STABILIZATION	
VEHICLE TRACKING PAD	Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to the start of construction disturbances.	M-208		В	х		
Engineered SEDIMENT BASIN	Constructed early in the project, prior to storm sewer/ditches and in accordance with 208.05(p) to capture storm flow. Outlet structure and/or outfall shall be modified for temporary sediment control using an approved non-standard detail. Outlets that withdraw water from or near the surface shall be installed when discharging from basins and impoundments, unless infeasible						
DEWATERING (Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.)	Shall be done in such a manner to prevent potential pollutants from entering state waters.			x	х		
TEMPORARY STREAM CROSSING	Constructed over stream or drainage to prevent discharge of pollutants from construction equipment into water.			x	х		
CLEAN WATER DIVERSION	Placed to divert clean surface or groundwater around the disturbance area to prevent it from mixing with construction runoff.			x	х		
OTHER							



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NON-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. COR4000000. 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: <a href="https://www.colorado.gov/pacific/sites/default/files/Vegetative%208uffer

				CONTROL MEASURE IMPLEMENTATION PHASE		
APPLICATION, CONTROL MEASURE	NARRATIVE	M- STANDARD or "For NON- STANDARD	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.			х	х	х
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.	M-208		x	x	
TOPSOIL MANAGEMENT STOCKPILE/SALVAGE Stockpile	Prior to any site disturbance work commencing, existing topsoil shall be scraped to a depth six inches or as specified, and placed in stockpiles or windrows. Upon completion of final grading, topsoil shall be evenly distributed over embankment to a depth of six inches or as specified.	M-208		x	х	х
SURFACE ROUGHENING / GRADING TECHNIQUES	Temporary stabilization of disturbance and to minimize wind and erosion.				Х	
SEEDING (TEMPORARY)	Temporary stabilization used for over wintering of disturbance or used to control erosion for areas scheduled for future construction.				х	
BONDED 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 by the Engineer for stockpiles.					
Straw or Hay MULCH/MULCH TACKIFIER	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					
SPRAY-ON MULCH BLANKET (Not to be used in areas of concentrated flows, i.e. ditch lines.)	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.				,	Х
SOIL RETENTION BLANKET (SRB)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.	M-216				
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				
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	х
OTHER						



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#### 12. TABULATION OF STORMWATER QUANTITIES

- E. 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.
- F. Establishment of seeded areas from Substantial Landscape Completion shall be paid for as: included in the price of work. This shall include mowing, weed control, reseeding/mulch/tackifier.

Pay Item	Description	Pay Unit	Initial Const.	Interim Const.	Permanent Stabilization	*Total Quantity
207-00702	Topsoil	CY			403	403
208-00002	Erosion Log Type 1 (12 Inch)	LF	680			680
208-00041	Rock Check Dam	EA	3			3
208-00070	Vehicle Tracking Pad	Each		1		1
208-00103	Removal and Disposal of Sediment (Labor)	Hour				24
208-00105	Removal and Disposal of Sediment (Equipment)	Hour				24
208-00207	Erosion Control Management (ECM)	Day				30
208-00301	Temporary Diversion	LF		308		308
208-00400	Water Control	LS		1		1
208-00520	Temporary Stream Crossing	EA		1		1
212-00005	Seeding (Native)	Acre			0.43	0.43
700-70380	F/A Erosion Control	FA				1
700-70310	F/A Landscaping	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 material used.

\*\*Pay I<sup>†</sup>em 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 CDOT'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: The gray wolf and the greenback cutthroat trout is listed as endangered, whereas the eastern black rail is listed as threatened.

#### B. <u>DEWATERING:</u>

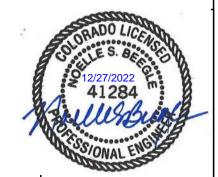
(Not covered under the CDPHE guidance document Low Risk Discharge Guidance Discharges of Uncontaminated Groundwater to Land):

https://www.colorado.gov/pacific/sites/default/files/WQ%20LOW%20RISK%20GW.pdf

- 1. Dewatering: Refer to other environmental permits in accordance with subsection 107.02 and the permits contained in Tab 16 of the SWMP.
- 2. 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.

#### 14. NOTES

A. Portable toilets shall be located a minimum of 10 feet from stormwater inlets and 50 feet from state waters. They shall be secured at all four corners to prevent overturning and cleaned on a weekly basis. They shall be inspected daily for spills.



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- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFFSITE WATERS. INCLUDING WETLANDS.
- 2. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- 3. A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR.
- 4. ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- 5. CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT MAY CONTRIBUTE POLLUTANTS TO STORMWATER. TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- 5. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES IS NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN PRIOR TO IMPLEMENTATION.
- 7. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING
  CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS. AN AREA THAT IS GOING
  TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE STABILIZED.
- 8. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLAN DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- 9. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE HYDROLOGY OR HYDRAULICS OF A PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- 10. ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
- 11. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO THE INSTALLATION OF THE CONTROL MEASURE(S).
- 12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
- 13. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUT SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK, OR STREAM.
- 14. DURING DEWATERING OPERATIONS, UNCONTAMINATED GROUNDWATER MAY BE DISCHARGED ON-SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
- 15. EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1 UNLESS OTHERWISE STABILIZED WITH RIPRAP.

- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES, OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- 17. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- 18. VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS, AND OTHER CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF PROJECT CONSTRUCTION.
- 20. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON—SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- 21. NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- 22. BULK STORAGE OF PETROLEUM PRODUCTS OR OTHER LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL HAVE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
- 23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- 24. INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- 25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS
- 26. PRIOR TO CONSTRUCTION, THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- 27. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- 28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY CTL THOMPSON INC., DATED SEPTEMBER 2021, AND SHALL BE CONSIDERED A PART OF THE PLANS
- 29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 1 ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THE GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS, CONTACT:

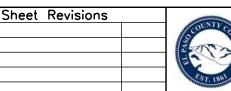
COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT WATER QUALITY CONTROL DIVISION, WQCD — PERMITS 4300 CHERRY CREEK DRIVE SOUTH DENVER, CO 80246-1530 ATTN: PERMITS UNIT

#### **STAGING NOTES:**

1. ANY MATERIAL STAGING, TEMPORARY DISPOSAL PILES, OR SOIL STOCKPILES SHALL BE WITHIN THE LIMITS. OF THE STABILIZED STAGING AREA. LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND INCLUDIN THE SWMP.



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El Paso County Department of Public Works 3275 Akers Drive Colorado Springs, CO 80922 (719) 520–6460



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#### **UTILITY NOTES:**

- 1. ALL UTILITY INSTALLATIONS WITHIN THE LIMITS OF DISTURBANCE SHOWN ON THIS PLAN ARE COVERED UNDER THIS PLAN. LOCATIONS OF UTILITIES WITHIN THE LIMITS OF DISTURBANCE MAY BE MODIFIED AFTER PLAN APPROVAL AS A FIELD CHANGE.
- 2. THE PLAN SHALL NOT SUBSTANTIALLY CHANGE THE DEPTH OF COVER OR ACCESS TO EXISTING UTILITY LINES. ACCEPTANCE OF THIS PLAN DOES NOT CONSTITUTE APPROVAL TO GRADE IN ANY UTILITY EASEMENT OR RIGHT-OF-WAY. APPROVALS TO GRADE WITHIN UTILITY EASEMENTS MUST BE OBTAINED FROM THE APPROPRIATE UTILITY COMPANY. IT IS NOT PERMISSIBLE FOR ANY PERSON TO MODIFY THE GRADE OF THE EARTH ON ANY COLORADO SPRINGS UTILITY EASEMENT OR UTILITY RIGHT-OF-WAY WITHOUT THEIR WRITTEN APPROVAL. THE PLAN SHALL NOT INCREASE OR DIVERT WATER TOWARDS UTILITY FACILITIES. ANY CHANGES TO EXISTING UTILITY FACILITIES TO ACCOMMODATE THE PLAN MUST BE APPROVED BY THE AFFECTED UTILITY OWNER PRIOR TO IMPLEMENTING THE PLAN. THE COST TO RELOCATE OR PROTECT EXISTING UTILITIES OR TO PROVIDE INTERIM ACCESS IS AT THE APPLICANT'S EXPENSE.

#### **WATERWAY PROTECTION NOTES:**

- 1. CONSTRUCTION VEHICLES SHOULD BE KEPT OUT OF A WATERWAY TO THE MAXIMUM POSSIBLE EXTENT PRACTICAL.
- 2. WHERE IN-CHANNEL WORK IS NECESSARY, STEPS SUCH AS TEMPORARY CHANNEL DIVERSIONS MUST BE TAKEN TO STABILIZE THE WORK AREA AND CONTROL EROSION DURING CONSTRUCTION.
- WHERE AN ACTIVELY-FLOWING WATERCOURSE MUST BE CROSSED REGULARLY BY CONSTRUCTION VEHICLES, A TEMPORARY CROSSING CHANNEL SHALL BE PROVIDED.
- 4. WHEN WORK TAKES PLACE WITHIN A CHANNEL, A TEMPORARY WATER DIVERSION TO BYPASS THE WORK AREA SHALL BE REQUIRED.
- TO THE EXTENT PRACTICAL, CONSTRUCTION IN A WATERWAY SHOULD BE SEQUENCED TO BEGIN AT THE MOST DOWNSTREAM POINT AND WORK PROGRESSIVELY UPSTREAM INSTALLING THE REQUIRED CHANNEL AND GRADE CONTROL FACILITIES.
- COMPLETE WORK IN SMALL SEGMENTS, EXPOSING AS LITTLE OF THE CHANNEL AT A TIME AS PRACTICAL. KEEP EQUIPMENT OPERATORS CONTAINED IN IMMEDIATE WORK AREA AND AVOID EXCESSIVE COMPACTING OF THE SOIL SURFACE BECAUSE IT INHIBITS
- WHERE FEASIBLE, IT IS BEST TO PERFORM IN-CHANNEL WORK BETWEEN OCTOBER 1 AND MARCH 31 IN COLORADO. THIS IS THE PERIOD WHEN THE CHANCES OF FLASH FLOODS AND FLOWS HIGHER THAN THE 2-YEAR FLOOD PEAK FLOWS ARE LESS LIKELY.
- DURING THE PROCESS OF CUT AND FILL, AVOID LETTING SIDE-CAST OR WASTE MATERIAL ENTER WATERWAYS OR PLACING IT ON UNSTABLE AREAS. INSTEAD, EFFICIENTLY MOVE EXCAVATED MATERIAL TO AREAS NEEDING FILL OR TO A STOCKPILE.

#### ENGINEER'S STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS. SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS

ENGINEER OF RECORD SIGNATURE

12/27/2022

DATE

#### OWNER'S STATEMENT:

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

NAME, TITLE

ADDRESS

DATE

#### PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

EL PASO COUNTY:

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE

WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR

THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR

ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE

COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO

RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO

COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA, VOLUMES

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2

YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF

CONSTRUCTION HAS NOT STARTED WITHIN THOSE TWO YEARS, THE

AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

JOSHUA PALMER, PE COUNTY ENGINEER/ECM ADMINISTRATOR

DATE

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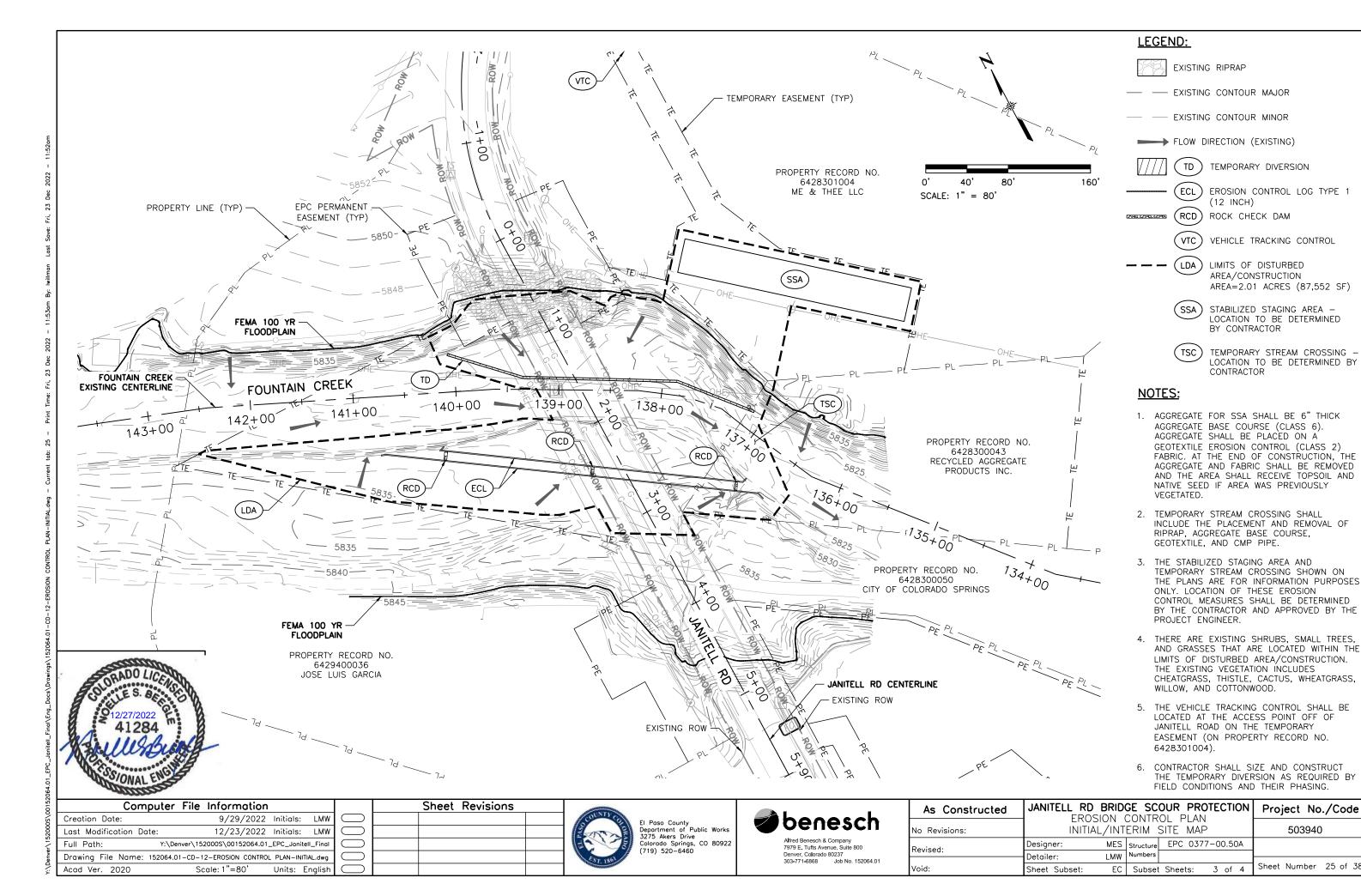
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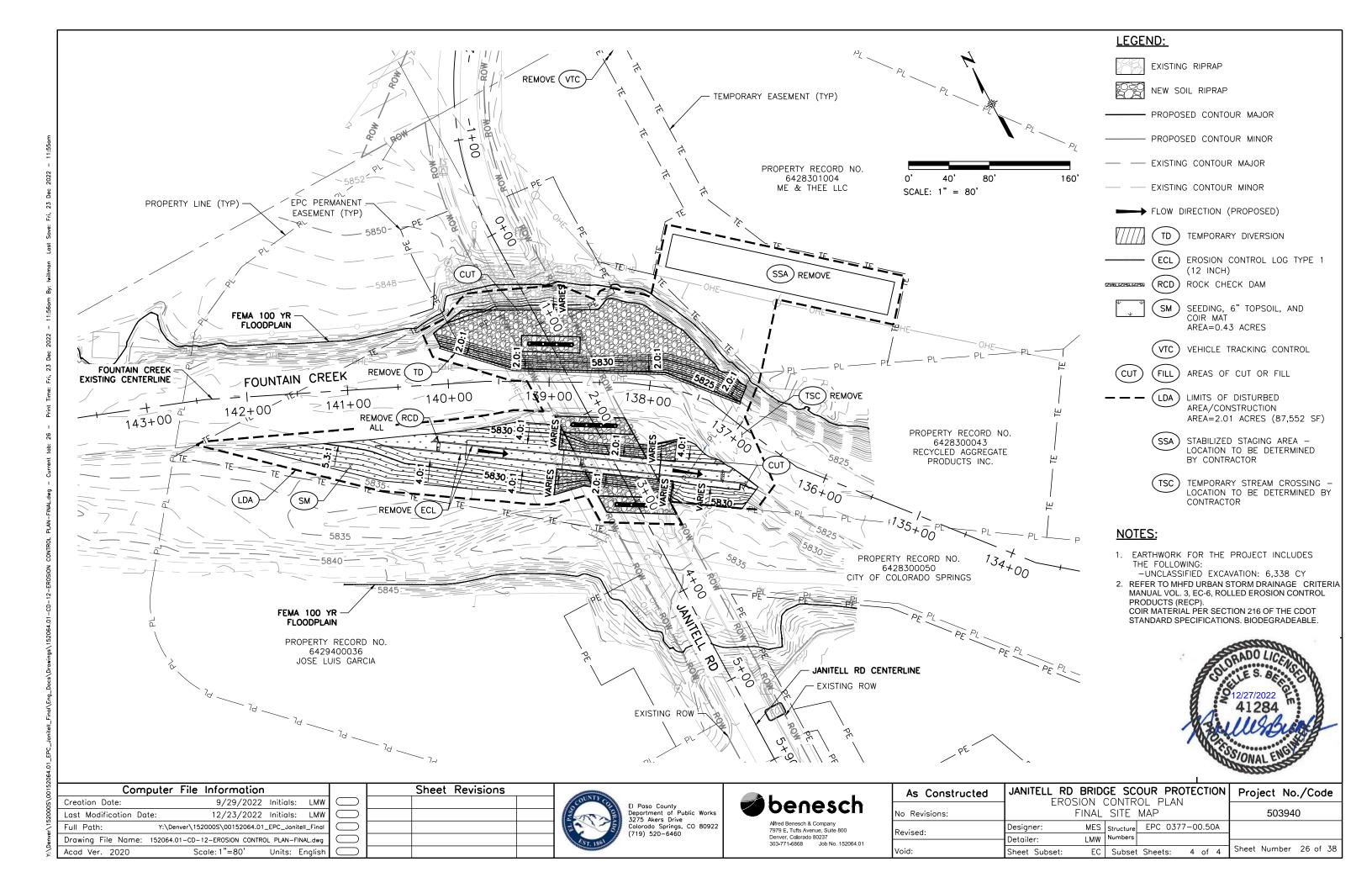
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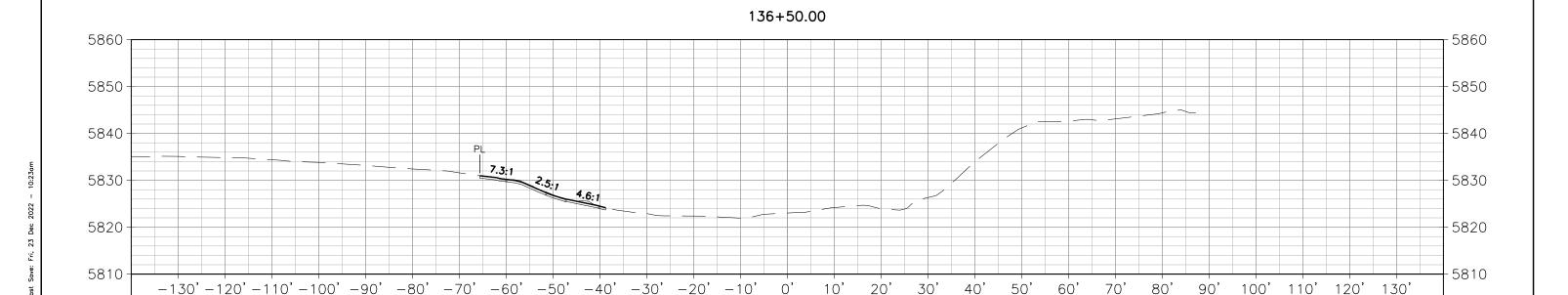


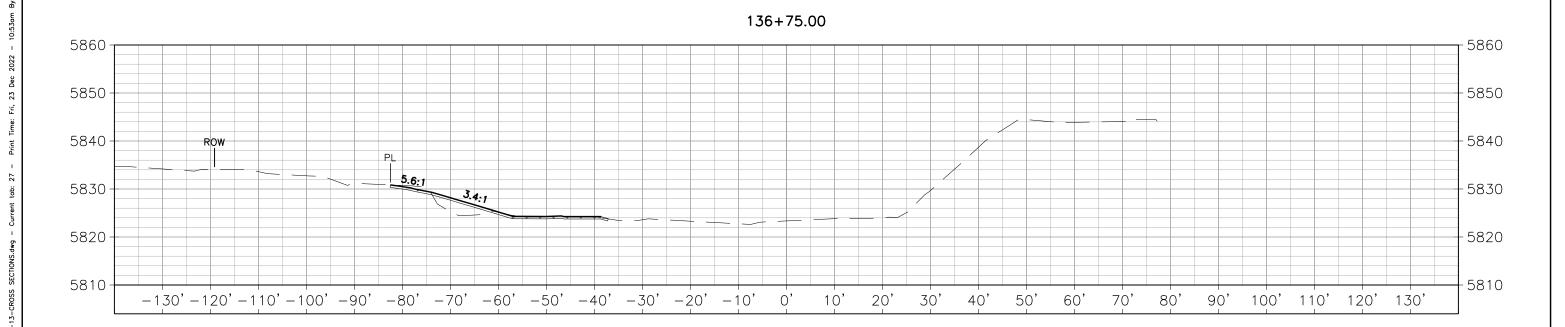
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EXISTING RIPRAP/SOIL TO BE REMOVED

NEW SOIL RIPRAP

SEEDING, TOPSOIL,

OW JANITELL ROAD RIGHT-OF-WAY

PL PROPERTY LINE

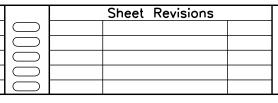
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#### NOTES:

1. CROSS SECTIONS ARE CUT PERPENDICULAR TO THE FOUNTAIN CREEK EXISTING CENTERLINE.



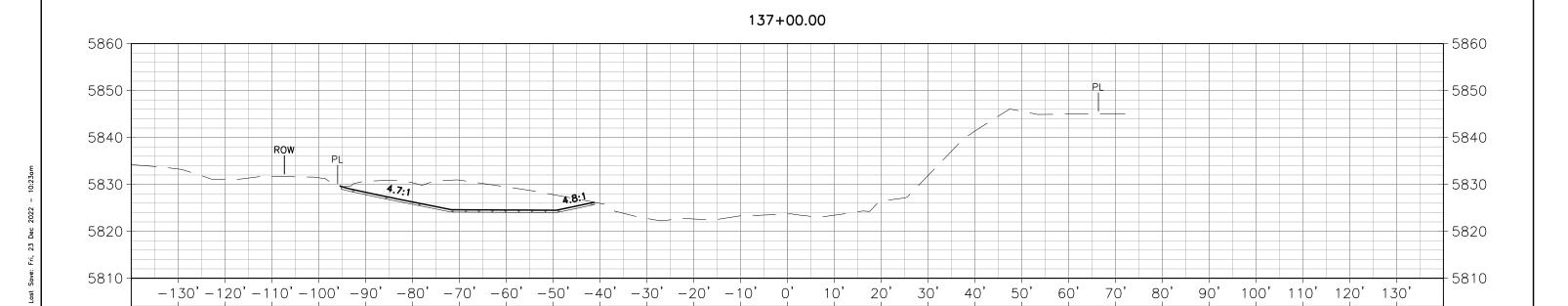
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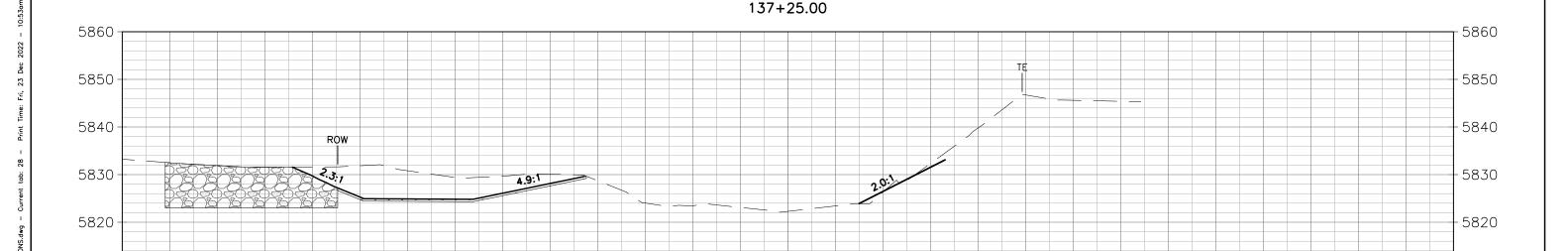




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40'

50'

60'

70'

80'

#### LEGEND:

5810

EXISTING RIPRAP/SOIL TO BE REMOVED

NEW SOIL RIPRAP

SEEDING, TOPSOIL, AND COIR MAT

JANITELL ROAD RIGHT-OF-WAY

PL PROPERTY LINE

TE TEMPORARY EASEMENT

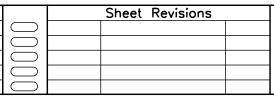
#### NOTES:

1. CROSS SECTIONS ARE CUT PERPENDICULAR TO THE FOUNTAIN CREEK EXISTING CENTERLINE.



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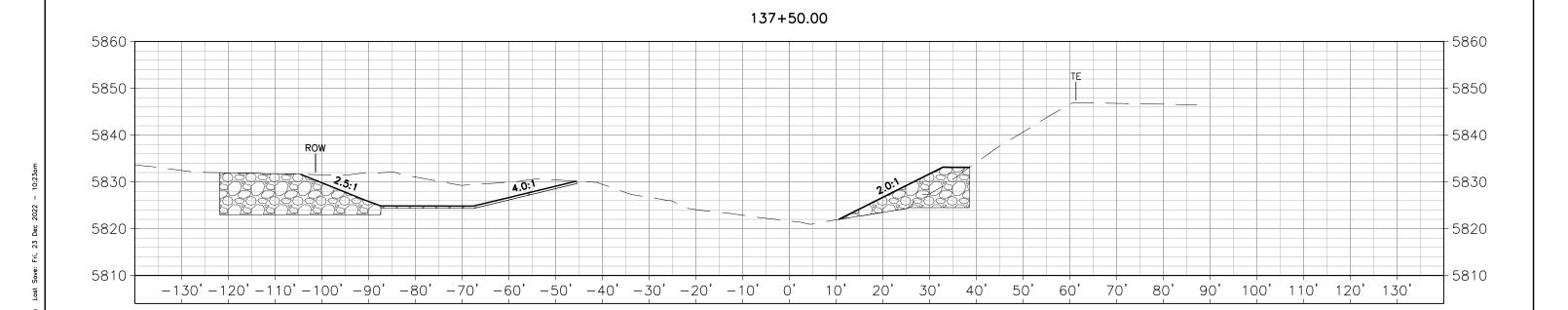


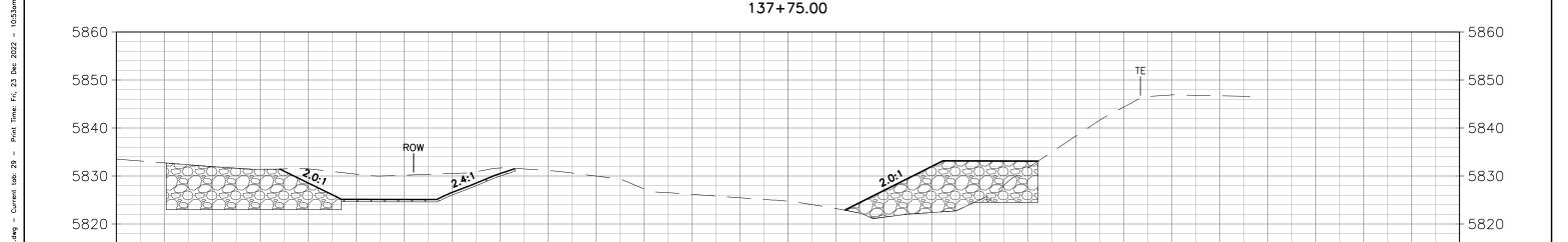
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ivevised.	Detailer:	LMW	Numbers				
Void:	Sheet Subset:	XSEC	Subset	Sheets:	2 of 12	Sheet Number	28 of 38

90' 100' 110' 120' 130'





10'

20'

30'

40'

50'

60'

70'

80'

90'

#### LEGEND:

5810

EXISTING RIPRAP/SOIL TO BE REMOVED

NEW SOIL RIPRAP

SEEDING, TOPSOIL, AND COIR MAT

TE TEMPORARY EASEMENT

JANITELL ROAD

RIGHT-OF-WAY

PROPERTY LINE

#### NOTES:

1. CROSS SECTIONS ARE CUT PERPENDICULAR TO THE FOUNTAIN CREEK EXISTING CENTERLINE.



5810

Compi	ıter File	Information		
Creation Date:		9/28/2022	Initials:	: LMW
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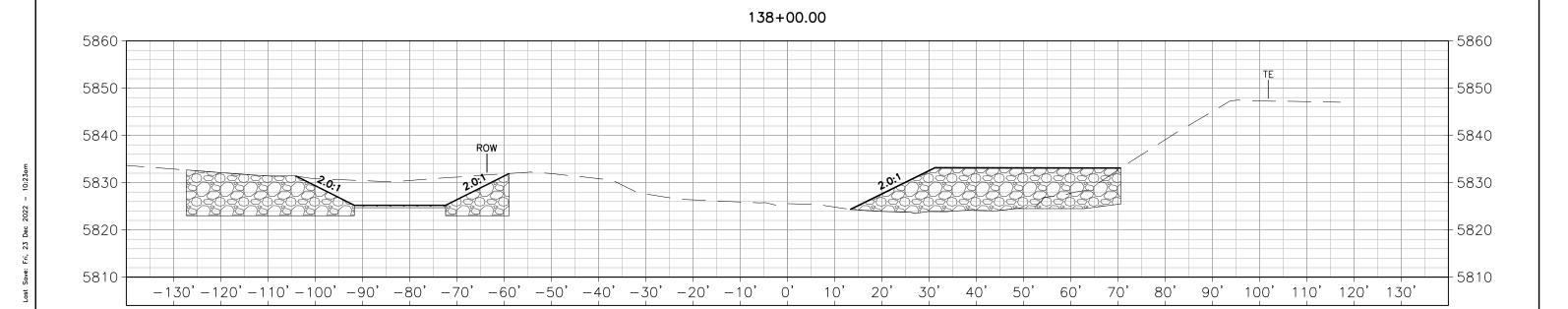


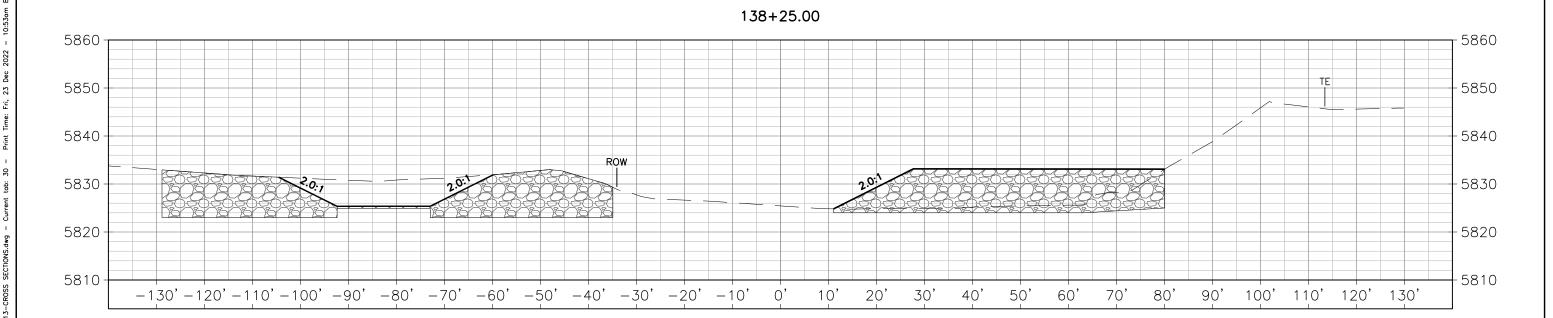
El Paso County Department of Public Works 3275 Akers Drive Colorado Springs, CO 80922 (719) 520-6460



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100' 110' 120' 130'





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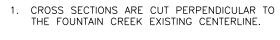
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EXISTING RIPRAP/SOIL TO BE REMOVED

NEW SOIL RIPRAP

SEEDING, TOPSOIL, AND COIR MAT

#### NOTES:



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JANITELL ROAD

RIGHT-OF-WAY

PROPERTY LINE

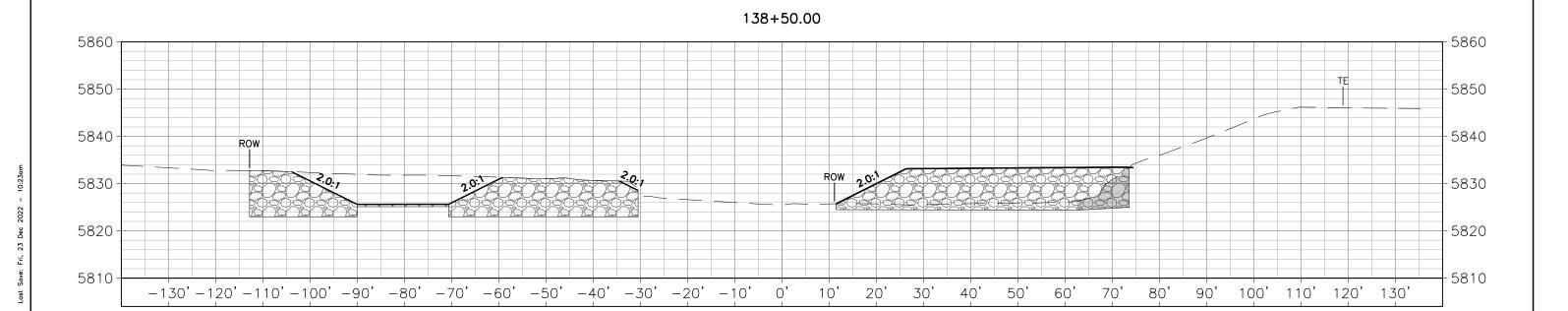
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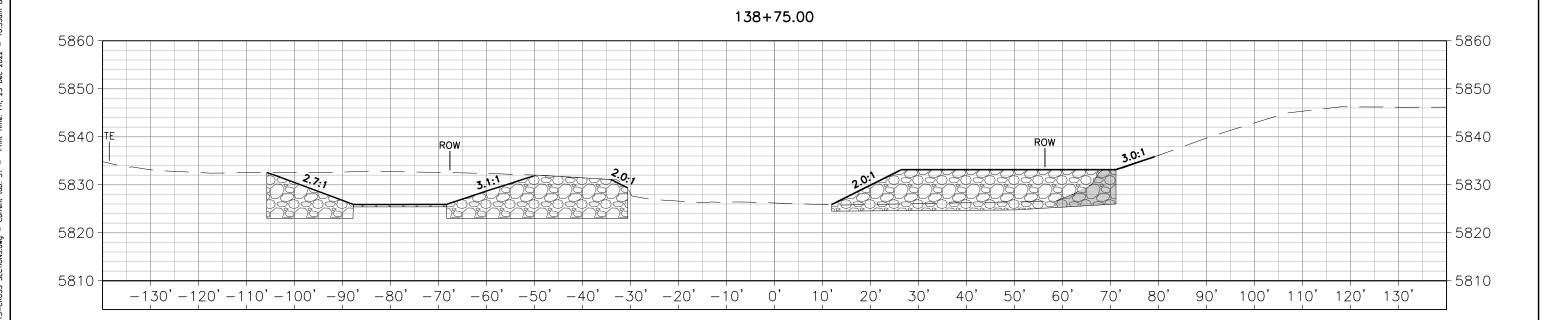
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7979 E. Tufts Aver	nue, Suite 800
Denver, Colorado	80237
303-771-6868	Job No. 152064.01

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EXISTING RIPRAP/SOIL TO BE REMOVED

NEW SOIL RIPRAP

SEEDING, TOPSOIL, AND COIR MAT

JANITELL ROAD

1. CROSS SECTIONS ARE CUT PERPENDICULAR TO THE FOUNTAIN CREEK EXISTING CENTERLINE.



NOTES:

PROPERTY LINE TE TEMPORARY EASEMENT

RIGHT-OF-WAY



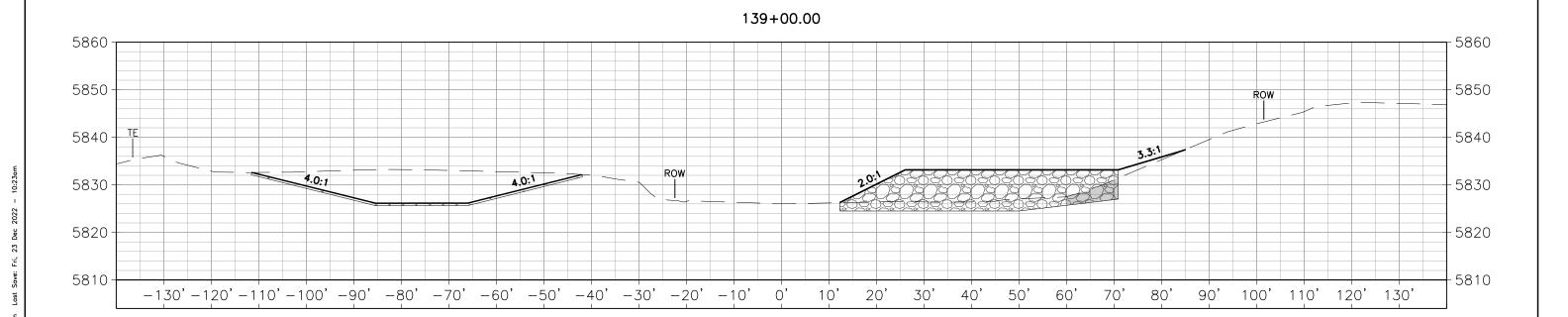
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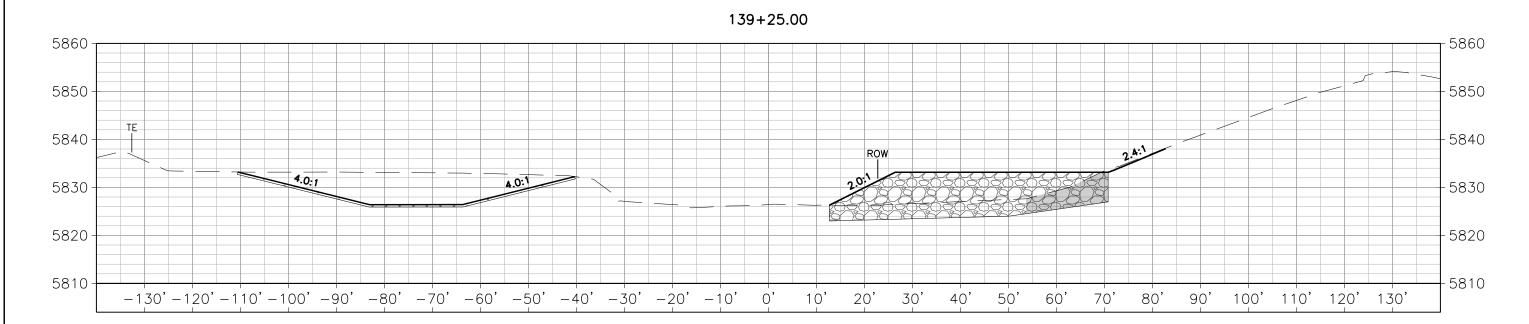
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	Alfred Benesch & Company 7979 E, Tufts Avenue, Suite 800 Denver, Colorado 80237 303-771-8688 Job No. 152064.01

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EXISTING RIPRAP/SOIL TO BE REMOVED

NEW SOIL RIPRAP

SEEDING, TOPSOIL, AND COIR MAT

TE TEMPORARY EASEMENT

JANITELL ROAD

RIGHT-OF-WAY

PROPERTY LINE

#### NOTES:

1. CROSS SECTIONS ARE CUT PERPENDICULAR TO THE FOUNTAIN CREEK EXISTING CENTERLINE.



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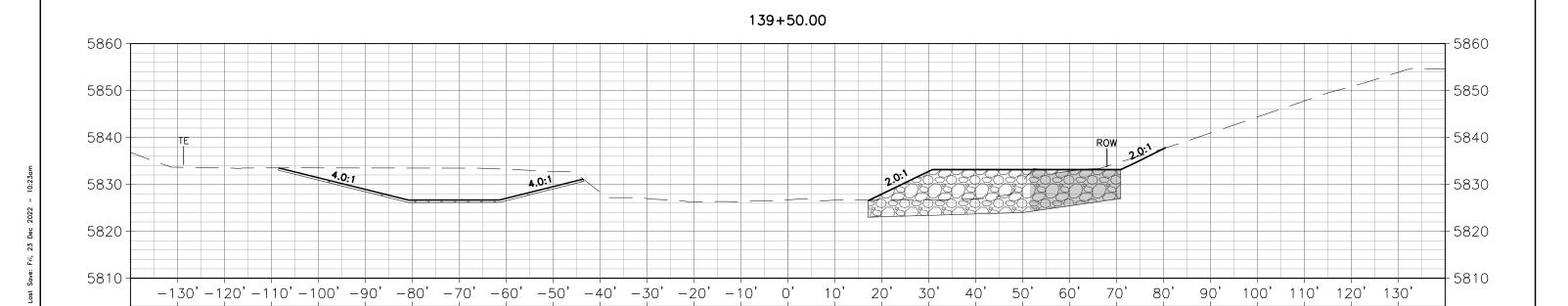
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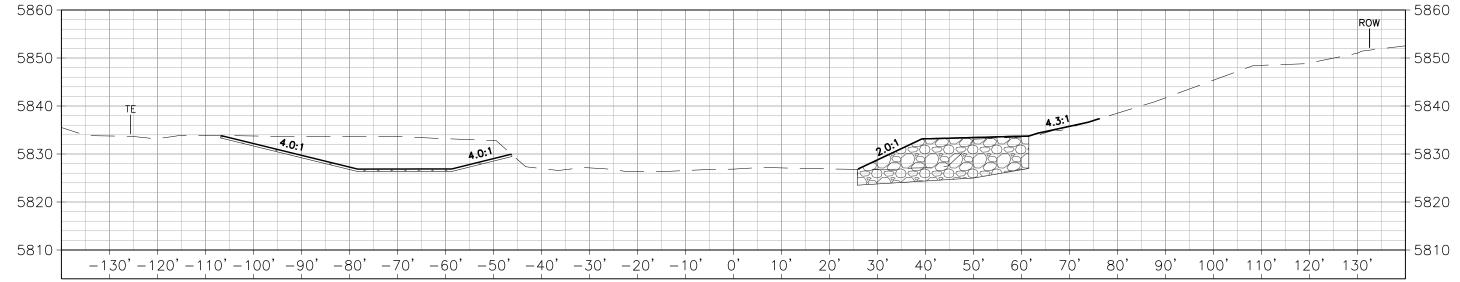
Department of Public Works 3275 Akers Drive Colorado Springs, CO 80922 (719) 520–6460 Denver, Colorado 80237 303-771-6868 Job No. 152064.01

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Alfred Benesch & Company 7979 E. Tufts Avenue, Suite 800

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EXISTING RIPRAP/SOIL
TO BE REMOVED

NEW SOIL RIPRAP

SEEDING, TOPSOIL,

PL PROPERTY LINE

TE TEMPORARY EASEMENT

JANITELL ROAD

RIGHT-OF-WAY

#### NOTES:

1. CROSS SECTIONS ARE CUT PERPENDICULAR TO THE FOUNTAIN CREEK EXISTING CENTERLINE.



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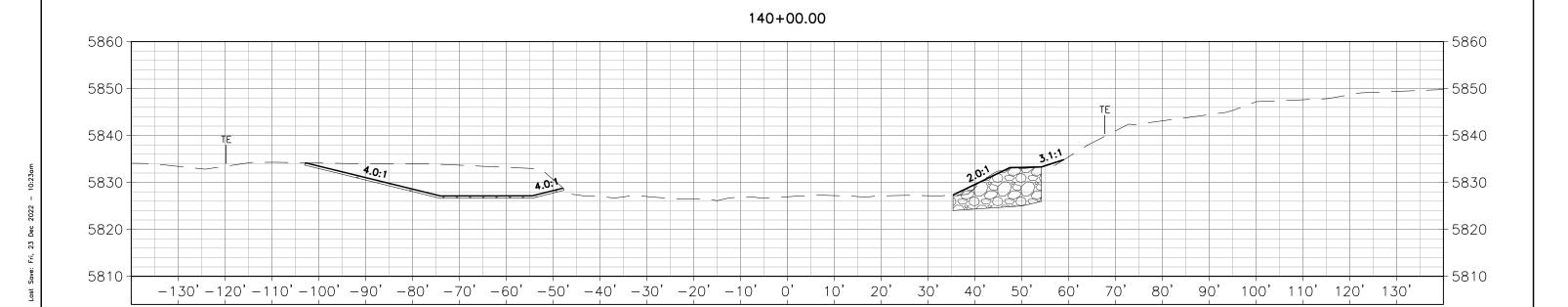
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Ο'

10'

20'

30'

40'

50'

60'

70'

80'

#### LEGEND:

5810

EXISTING RIPRAP/SOIL TO BE REMOVED

NEW SOIL RIPRAP

SEEDING, TOPSOIL, AND COIR MAT

NOTES:

1. CROSS SECTIONS ARE CUT PERPENDICULAR TO THE FOUNTAIN CREEK EXISTING CENTERLINE.



5810

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JANITELL ROAD

RIGHT-OF-WAY

PROPERTY LINE

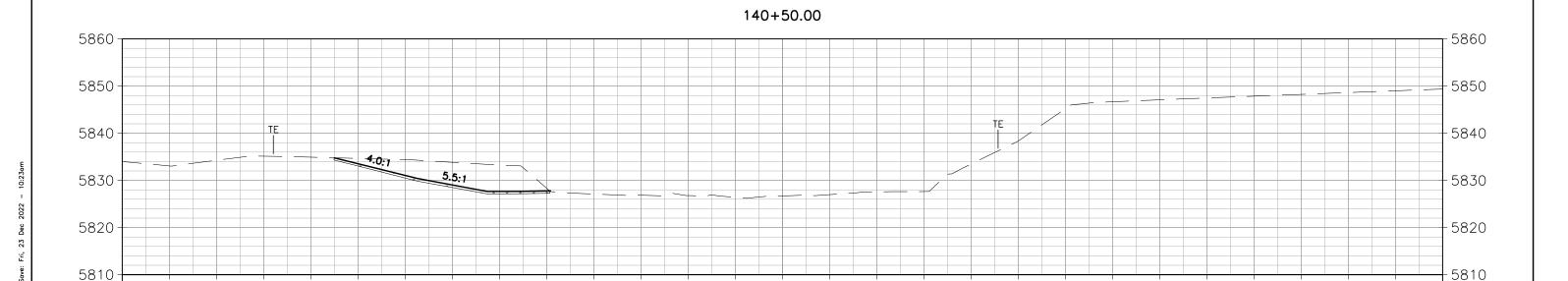
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ado Springs, CO 80922 520–6460	A <b>l</b> fred Benesch & Company 7979 E. Tufts Avenue, Suite 80 Denver, Colorado 80237
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itevised.	Detailer:	LMW	Numbers				
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90' 100' 110' 120' 130'





10'

30'

40'

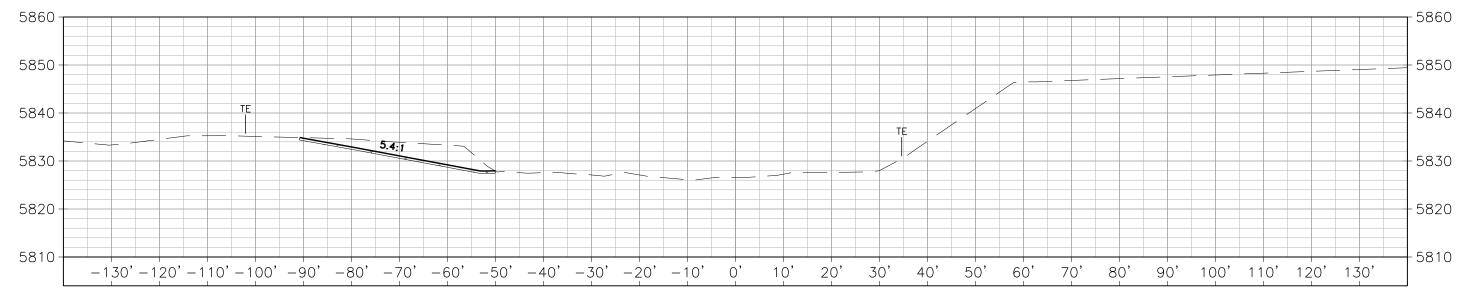
50'

60'

70'

80'

90'



#### LEGEND:

EXISTING RIPRAP/SOIL TO BE REMOVED

NEW SOIL RIPRAP

SEEDING, TOPSOIL, AND COIR MAT

JANITELL ROAD RIGHT-OF-WAY

PL PROPERTY LINE

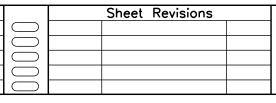
TE TEMPORARY EASEMENT

#### NOTES:

1. CROSS SECTIONS ARE CUT PERPENDICULAR TO THE FOUNTAIN CREEK EXISTING CENTERLINE.



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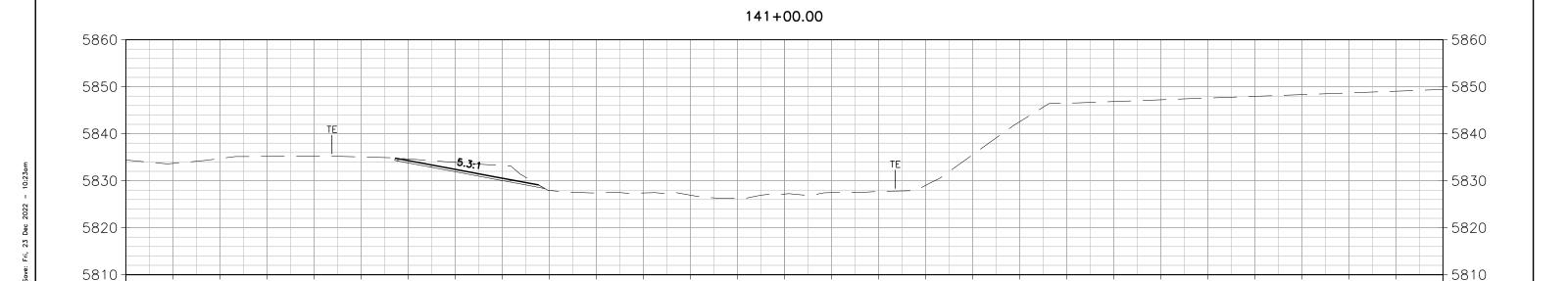


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520-6460	Denver, Colorado 80237

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benesch	No Revisions:
Alfred Benesch & Company 7979 E. Tufts Avenue, Suite 800 Denver, Colorado 80237	Revised:
303-771-6868 Job No. 152064.01	

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vevised.	Detailer:	LMW	Numbers				
/oid:	Sheet Subset:	XSEC	Subset	Sheets:	9 of 12	Sheet Number	35 of 38

100' 110' 120' 130'





10'

30'

20'

40'

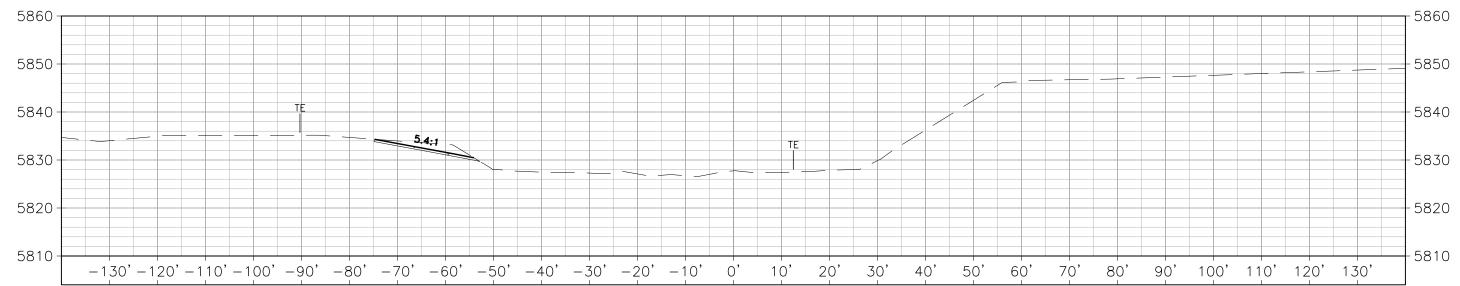
50'

60'

70'

80'

90'



#### LEGEND:

EXISTING RIPRAP/SOIL TO BE REMOVED

NEW SOIL RIPRAP

AND COIR MAT

SEEDING, TOPSOIL,

JANITELL ROAD

RIGHT-OF-WAY

PROPERTY LINE

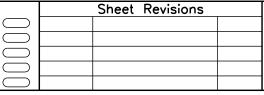
TE TEMPORARY EASEMENT

-130'-120'-110'-100'-90'-80'-70'-60'-50'-40'-30'-20'-10'

#### NOTES:

1. CROSS SECTIONS ARE CUT PERPENDICULAR TO THE FOUNTAIN CREEK EXISTING CENTERLINE.

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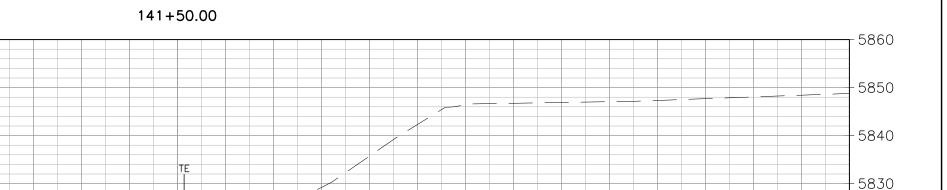


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303-771-6868 Job No. 152064.01	

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As Constructed	JANITELL	RD BRID	GE SC	OUR PR	OTECTION	Proj	ect No	./Cod	de
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100' 110' 120' 130'





10'

20'

30'

40'

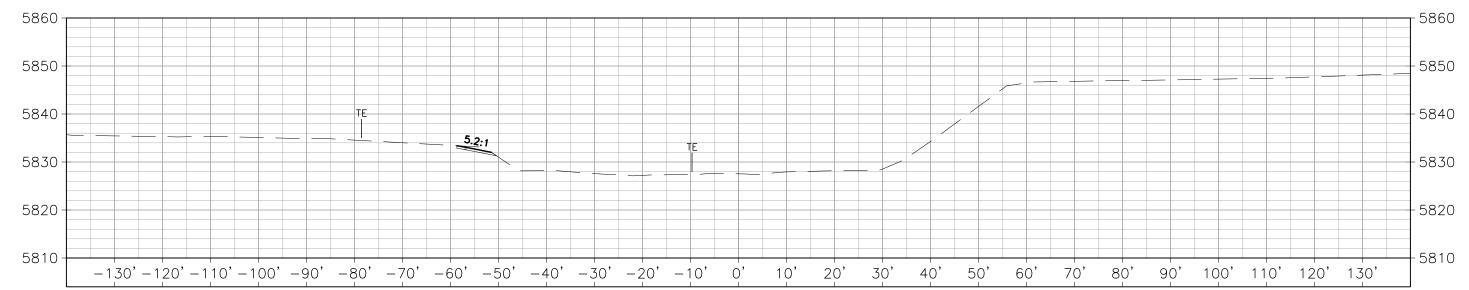
50'

60'

70'

80'

90'



#### LEGEND:

5860

5850

5840

5830

5820

5810

EXISTING RIPRAP/SOIL TO BE REMOVED

NEW SOIL RIPRAP

SEEDING, TOPSOIL,

AND COIR MAT

NOTES:

5.3:1

-130'-120'-110'-100'-90'-80'-70'-60'-50'-40'-30'-20'-10'

1. CROSS SECTIONS ARE CUT PERPENDICULAR TO THE FOUNTAIN CREEK EXISTING CENTERLINE.



100' 110' 120' 130'

5820

5810

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JANITELL ROAD

RIGHT-OF-WAY

PROPERTY LINE

TE TEMPORARY EASEMENT

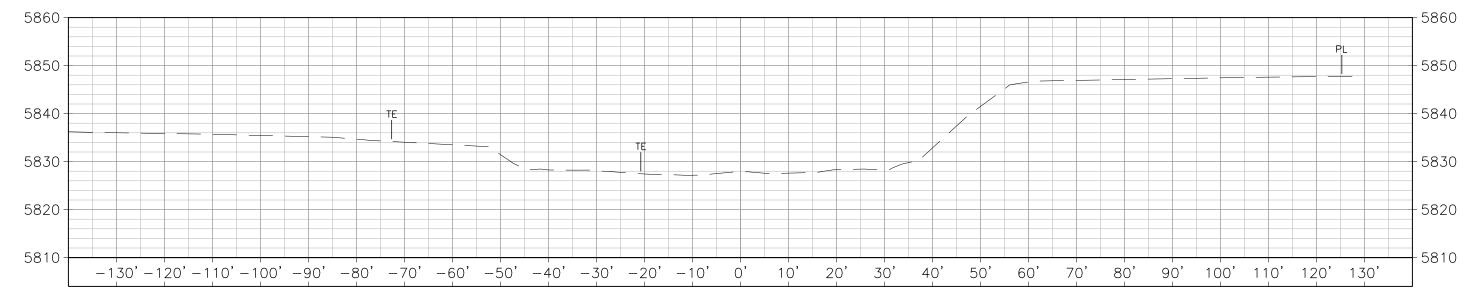


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EXISTING RIPRAP/SOIL TO BE REMOVED

NEW SOIL RIPRAP

SEEDING, TOPSOIL,

AND COIR MAT

TE TEMPORARY EASEMENT

JANITELL ROAD

RIGHT-OF-WAY

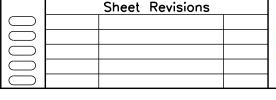
PL PROPERTY LINE

#### NOTES:

1. CROSS SECTIONS ARE CUT PERPENDICULAR TO THE FOUNTAIN CREEK EXISTING CENTERLINE.



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