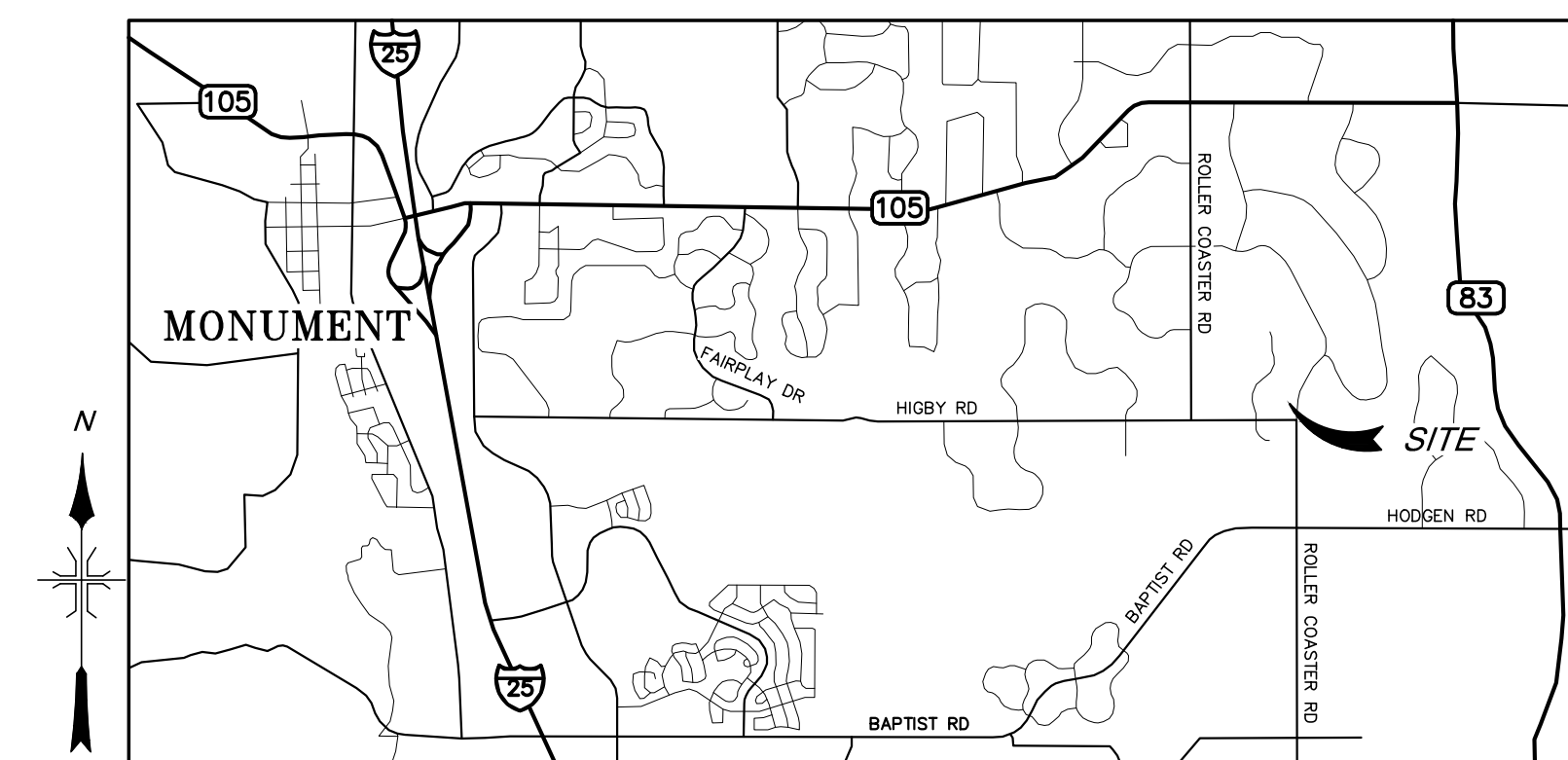


TRI-STATE

Generation and Transmission
Association, Inc.



VICINITY MAP
N.T.S.

Site Coordinates (Lat/Long): 39.0808, -104.7858

Address: 401 Higby Road, Monument, CO

Please verify address and add parcel # 6121003005
1980 E HIGBY RD

Fox Run Substation Construction of a New Substation including Grading, Drainage, and Surface Improvements El Paso County, Colorado

add sheet index

Please add missing sheet index on Pg 1

Unresolved - dschoenheit
12/08/2022 7:17:11 AM

Recommend reordering sheets to have all design call out details at end

Construction Plans prepared in cooperation with:

DMC **DEL-MONT CONSULTANTS, INC.**
ENGINEERING ▾ SURVEYING ▾ PLANNING
125 Colorado Ave. ▼ Montrose, CO 81401 ▼ (970) 249-2251 ▼ (970) 249-2342 FAX
www.del-mont.com ▼ service@del-mont.com

Grading and Erosion Control Plans (standalone)

Design Engineer's Statement:

This grading and erosion control plan was prepared under my direction and supervision and is correct to the best of my knowledge and belief. Said plan has been prepared according to the criteria established by the County for grading and erosion control plans. I accept responsibility for any liability caused by any negligent act, error or omission on my part in preparing this plan.

(Name, P.E. # _____) Date _____

Owner/Developer's Statement:

I, the owner/developer have read and will comply with the requirements of the grading and erosion control plan.

(Name, Title) _____ Date _____
(Business Name) _____
(Address) _____

El Paso County:

County plan review is provided only for general conformance with County Design Criteria. The County is not responsible for the accuracy and adequacy of the design, dimensions, and/or elevations which shall be confirmed at the job site. The County through the approval of this document assumes no responsibility for completeness and/or accuracy of this document.

Filed in accordance with the requirements of the El Paso County Land Development Code, Drainage Criteria Manual, Volumes 1 and 2, and Engineering Criteria Manual as amended.

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 2 years, the plans will need to be resubmitted for approval, including payment of review fees at the Planning and Community Development Director's discretion.

County Engineer / ECM Administrator Date _____

Please move signature blocks to pg 1. Currently on page 18.



Please add PCD File # PPR-22-44 all sheets 1-19

No.	Date	Appr.	Revision
7			
6			
5			
4			
3			
2			
1			

**FOX RUN SUBSTATION
COVER SHEET**

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

UPDATED BY: TCLEMENT 10/10/2022 5:10 PM Contract: _____

PATH: \\DMSC\Projects\Active\Projects\2021\21038-1857-Monument-Sub-Survey-&-Civil\Facility\Civil\Sheets\S9088-A-01-SHEETS.dwg

TRI-STATE Generation and Transmission Association, Inc.
A Touchstone Energy Cooperative
1100 W. 116th Ave.
P.O. Box 336905
Denver, Colorado 80233
303-452-6111

Dwn: TMC Date: 12/16/21
Appr: _____ Date: _____

S9088-A-01-001

PRELIMINARY

GENERAL NOTES:

- THE OWNER (TSGT) WILL PROVIDE THE CONTRACTOR WITH DOCUMENTATION NECESSARY TO RECOVER THE SURVEY MONUMENTS TO ESTABLISH HORIZONTAL AND VERTICAL CONTROL. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF CONSTRUCTION STAKING WITH THE RESIDENT PROJECT REPRESENTATIVE.
- THE CONTRACTOR SHALL SCHEDULE WORK SUCH THAT THE DURATION OF IMPACT TO ADJACENT PUBLIC ROADS AND RIGHTS-OF-WAY IS MINIMIZED.
- THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT HIS PERSONNEL AND SUBCONTRACTOR PERSONNEL ARE AWARE OF PROPER SAFETY PROCEDURES.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL WATER NECESSARY FOR CONSTRUCTION.
- THE CONTRACTOR SHALL INFORM THE OWNER OF DAILY WORK ACTIVITIES AND LOCATIONS IN GENERAL. THIS DAILY PLANNING SHALL INCLUDE A DISCUSSION OF SPECIFIC SAFETY MEASURES TO BE TAKEN DURING THE DAY'S WORK.
- THE CONTRACTOR SHALL COOPERATE WITH THE OWNER AND THE TESTING LABORATORY TO FACILITATE OWNER'S MANAGEMENT AND QUALITY CONTROL OF THE PROJECT CONSTRUCTION.
- THE CIVIL WORKS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING HIS OWN PROJECT OFFICE, TOILET FACILITIES AND ALL OTHER NECESSARY BUILDINGS OR SHELTERS. THE OWNER WILL NOT PROVIDE ANY FACILITIES TO THE CONTRACTOR DURING CONSTRUCTION. ALL FACILITIES AND SERVICES FOR THE RESIDENT PROJECT REPRESENTATIVE(RPR) SHALL BE PROVIDED BY THE CIVIL WORKS CONTRACTOR AND SHALL BE SUBSIDIARY TO THE VARIOUS BID ITEMS ON THIS PROJECT. THE CONTRACTOR SHALL PROVIDE LOCKABLE AND SEPARATE OFFICE SPACE FOR THE RPR; FAX MACHINE WITH SUPPLIES AND DEDICATED SERVICE, COPY MACHINE AND SUPPLIES, OFFICE DESK, FILING CABINETS, DRAFTING TABLE, MEETING TABLE, CHAIRS, ENTRANCE STEPS, AIR CONDITIONING/HEATING, AND INSIDE TOILET. TOILET FACILITIES SHALL BE MAINTAINED IN WORKING CONDITION BY THE CONTRACTOR AT ALL TIMES.
- THE CONTRACTOR'S PROJECT MANAGER SHALL ATTEND ALL SCHEDULED ROUTINE PROGRESS MEETINGS DURING THE DURATION OF THE PROJECT, AND PROVIDE UPDATED SCHEDULES AS REQUESTED. WEEKLY PROGRESS MEETINGS ARE MANDATORY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MARKING ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES. THE CONTRACTOR WILL BE REQUIRED TO WORK WITH ALL DUE CAUTION IN THE AREAS OF THE LOCATED UNDERGROUND UTILITIES IN ORDER TO AVOID DAMAGING SAID UTILITIES. IN THE EVENT OF UTILITY DAMAGE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING IMMEDIATE REPAIRS AND NOTIFICATION OF THE PROPER AUTHORITIES AND SERVICE PROVIDERS.
- THE CONTRACTOR SHALL SUBMIT HIS CONSTRUCTION WORK SCHEDULE TO THE OWNER PROJECTING HIS UPCOMING WORK FOR THE NEXT THREE WEEKS. THE OWNER SHALL REVIEW THIS PLAN WEEKLY WITH THE CONTRACTOR SO THAT EVERYONE IS AWARE OF UPCOMING CONSTRUCTION EVENTS.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN AND SAFE CONSTRUCTION WORK AREA. THE CONTRACTOR SHALL PERFORM CLEAN-UP OPERATIONS ON A DAILY BASIS.
- THE CONTRACTOR SHALL HAVE SUFFICIENT EQUIPMENT AND PERSONNEL ON SITE TO ACCOMPLISH EFFICIENT AND PROMPT CONSTRUCTION OF THE VARIOUS WORK ITEMS, INCLUDING WORK ON MORE THAN ONE WORK ITEM SIMULTANEOUSLY.
- NO TRENCHES IN OR DIRECTLY ADJACENT TO OPERATIONAL PAVEMENT SHALL REMAIN OPEN OVERNIGHT OR WHEN THE CONTRACTOR FINISHES WORK FOR THE DAY IN THE AREA. TRENCHES NOT BACKFILLED SHALL BE COVERED WITH STEEL PLATES TO ALLOW FOR SAFE PASSAGES BY VEHICLES ACROSS THE TRENCH, IF APPROVED BY THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO EXISTING FACILITIES NOT DESIGNATED FOR RECONSTRUCTION OR REPLACEMENT, AT HIS EXPENSE.
- DAMAGE TO EXISTING PAVEMENTS DUE TO MOVING OR USAGE OF HEAVY EQUIPMENT OR THE TRANSPORT OF MATERIALS TO OR ON THE SITE SHALL BE REPAIRED TO EQUAL OR BETTER QUALITY BY THE CONTRACTOR AT HIS EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATE REPAIR OF ANY DAMAGE TO UNDERGROUND CABLES ENCOUNTERED.
- ALL ABOVE GROUND AND GROUND LEVEL ELECTRICAL RELATED APPURTENANCES (I.E., LIGHTS, CABLE BOXES, CABLE AND/OR DUCT MARKERS, TELEPHONE PEDESTALS, UTILITY POLES, CONDUIT, ETC.) SHALL BE PROTECTED AT ALL TIMES. ANY DAMAGE DONE TO SAID APPURTENANCES BY THE CONTRACTOR SHALL BE REPAIRED TO LIKE QUALITY AT THE CONTRACTOR'S EXPENSE. THE REPAIRS SHALL BE PERFORMED TO THE SATISFACTION OF THE OWNER'S PROJECT MANAGER, AND ANY RESPONSIBLE UTILITY PROVIDER.
- CONSTRUCTION WORKERS WILL NOT BE ALLOWED TO ESTABLISH OVERNIGHT RESIDENCE ON THE PREMISES. ALL CONSTRUCTION WORKERS SHALL LEAVE THE CONSTRUCTION SITE AT THE END OF THEIR WORK PERIOD.
- WORK CANNOT COMMENCE UNTIL:
 - THE CONTRACTOR'S STORMWATER MANAGEMENT PERIMETER CONTROLS INCLUDING THE STABILIZED CONSTRUCTION ENTRANCE AND DISCHARGE POINT CONTROLS ARE IN PLACE.
 - ALL SAFETY EQUIPMENT FOR PERSONNEL AND CONSTRUCTION EQUIPMENT IS IN PLACE AND OPERABLE.
- A COMPLETE PROJECT SCHEDULE IS TO BE SUBMITTED WITHIN 10 DAYS OF NOTICE TO PROCEED.
- THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND RESTRICTIONS FOR SERVICING AND MAINTAINING EQUIPMENT AND DISPOSAL OF USED LUBRICANTS, ETC.

EMBANKMENT AND GRADING NOTES:

- THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGING EXISTING PAVEMENT THAT MUST REMAIN IN SERVICE. DAMAGE MUST BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- DESIGN CONTOURS AND SPOT ELEVATIONS SHOWN IN PLANS REPRESENT FINAL FINISHED SURFACE ELEVATIONS UNLESS OTHERWISE NOTED.
- ESTIMATED QUANTITIES OF EXCAVATION AND EMBANKMENT IN THESE PLANS WERE CALCULATED BASED ON THE REMOVAL OF 6" OF TOPSOIL WITH AN ASSUMED SETTLEMENT OF 0%.
- QUANTITIES OF EXCAVATION AND EMBANKMENT TO BE MEASURED AND PAID FOR WILL BE BASED ON THE PLAN QUANTITIES ON THIS SHEET. THE METHOD OF COMPUTATION FOR QUANTITIES, WAS BASED ON A PRISMOIDAL VOLUMETRIC COMPUTATION VALIDATED THROUGH AVERAGE END AREA OF CROSS SECTIONS WITH ALLOWANCE FOR MATERIAL DEFORMATION THROUGH THE PROCESS OF EXCAVATION AND PLACEMENT.
- EXCAVATED ROCK (8" DIAMETER AND GREATER) MAY BE USED ONLY IN LOWER LEVELS OR OUTER PORTIONS OF FILLS, NOT LIKELY TO RECEIVE TRAFFIC, SUBJECT TO THE OWNER'S APPROVAL. THE MAXIMUM ALLOWABLE SIZE OF MATERIAL IN THE TOP 6" OF SUBGRADE IS 4" DIAMETER.
- EARTHEN EMBANKMENTS AND TRENCH BACKFILL SHALL BE PLACED IN ACCORDANCE WITH TSGT SPECIFICATIONS.
- SOIL MATERIAL, OTHER THAN TOPSOIL, FOUND UNFIT FOR USE IN THE CONSTRUCTION OF EMBANKMENTS SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE.
- EXPOSED SUBGRADE SHALL BE SCARIFIED AND RECOMPACTED TO THE DEPTH REQUIREMENTS IN THE PROJECT SPECIFICATIONS, PRIOR TO BEGINNING PLACEMENT OF EMBANKMENT FILTS AND BASE MATERIAL. RECOMPACTION SHALL COMPLY WITH THE COMPACTION REQUIREMENTS IN THE PROJECT SPECIFICATIONS.
- OVERALL ACCESS ROAD EXCAVATION AND EXCAVATION OF THE DETENTION POND ARE INCLUDED IN THE UNCLASSIFIED EXCAVATION QUANTITY.

Please move EPC Standard GEC notes up to top pages. They are now on currently on page 18

TABLE OF ESTIMATED QUANTITIES					
UNIT NO.	BID UNIT	NAME AND DESCRIPTION OF CONSTRUCTION ASSEMBLY UNIT	NO. OF UNITS	U.O.M.	AS-CONSTRUCTED NO. OF UNITS
1	M-1	STRIP 6" TOPSOIL AND STOCKPILE IN ONSITE LOCATION (SUBSTATION & DRIVEWAY)	3,753	CY	3,753
2	M-2	EXCAVATION (SUBSTATION, & DRIVEWAY) (IN-SITU VOLUME)	4,606	CY	4,606
3	M-3	GRADE, PROCESS AND COMPACT EXISTING SURFACE AND SUB-SURFACE MATERIAL (SUBSTATION & DRIVEWAY)	22,516	SY	22,516
4	M-4	EMBANKMENT (SUBSTATION & DRIVEWAY), COMPACTED, COMPLETE, IN PLACE	8,023	SY	8,023
5	M-5	IMPORT AND INSTALL 8" THICK MODIFIED CLASS 5 BASE MATERIAL (YARD AREA) COMPACTED, COMPLETE, IN PLACE	3,020	CY	3,020
6	M-6	IMPORT AND INSTALL 12" THICK MODIFIED CLASS 5 BASE MATERIAL (ACCESS DRIVEWAYS) COMPACTED, COMPLETE, IN PLACE		CY	133
7	M-7	IMPORT AND INSTALL 3" THICK SURFACE AGGREGATE (YARD AREA)	1133	CY	1,133
8	M-8	GEOTEXTILE FABRIC UNDERLAYER (DRIVEWAY)	466	SY	466
9	M-9	12" CLASS III REINFORCED CONCRETE PIPE (DETENTION POND DISCHARGE STRUCTURE PIPE), COMPLETE, IN PLACE	32	LF	32
10	M-10	18" CLASS IV REINFORCED CONCRETE PIPE (SOUTH DRIVEWAY CULVERT PIPE), COMPLETE, IN PLACE	56	LF	56
11	M-11	24" CLASS IV REINFORCED CONCRETE PIPE (NORTH DRIVEWAY CULVERT PIPE), COMPLETE, IN PLACE	64	LF	64
12	M-12	24" CLASS III REINFORCED CONCRETE PIPE (SUBDRAIN POND DISCHARGE PIPE), COMPLETE, IN PLACE	8	LF	8
13	M-13	12" PERFORATED ADS N-12 PIPE (SUBDRAIN), COMPLETE, IN PLACE	874	LF	874
14	M-14	12" NON-PERFORATED ADS N-12 PIPE (SUBDRAIN), COMPLETE, IN PLACE	148	LF	148
15	M-15	14" NON-PERFORATED ADS N-12 PIPE (SUBDRAIN), COMPLETE, IN PLACE	54	LF	54
16	M-16	FLARED END SECTION FOR 12" REINFORCED CONCRETE (DETENTION POND DISCHARGE STRUCTURE PIPE)	1	EA	1
17	M-17	FLARED END SECTION FOR 18" REINFORCED CONCRETE DRIVEWAY CULVERT PIPE (SOUTH DRIVEWAY)	2	EA	2
18	M-18	FLARED END SECTION FOR 24" REINFORCED CONCRETE DRIVEWAY CULVERT PIPE (NORTH DRIVEWAY)	2	EA	2
19	M-19	FLARED END SECTION FOR 24" REINFORCED CONCRETE SUBDRAIN POND DISCHARGE PIPE	1	EA	1
20	M-20	60" x 72" CONCRETE BOX DETENTION POND OUTLET STRUCTURE	1	EA	1
21	M-21	D50=6" RIP RAP DETENTION PAD, INCL. UNDERLINER, COMPLETE IN PLACE (3 PADS TOTAL)	46	SY	46
22	M-22	D50=6" RIP RAP RUN DOWN ARMORING, INCL. UNDERLINER (POND SPILLWAY)	38	SY	38
23	M-23	GRAVIGATION (INCL. SURFACE GRADING AND TOPSOIL SPREADING)	3,753	CY	3,753
24	M-24	SEEDING	1.70	AC	3.77
25		CONCRETE WASHOUT (WITH LOCATION SIGN), COMPLETE, IN PLACE	1	EA	1
26	M-26	EROSION CONTROL BMP INSTALLATION AND MAINTENANCE FOR DURATION OF PROJECT	1	LS	1
27	M-27	WATER TRUCK FOR DUST MITIGATION	1	EA	1
	N-1	CHAIN LINK FENCE, COMPLETE, IN PLACE (SUBSTATION YARD)	1,397	LF	1,397
29	N-2	30' WIDE CHAIN LINK FABRIC GATE (2-15' GATES, SUBSTATION YARD), COMPLETE, IN PLACE	2	EA	2
30	N-3	3' WIDE CHAIN LINK FABRIC MAN GATE (TOP SWING, SUBSTATION YARD), COMPLETE, IN PLACE	1	EA	1
31	N-4	4-STRAND BARBED WIRE FIELD FENCE, COMPLETE, IN PLACE (PROPERTY)	1,780	LF	2,204
32	N-4 CO	20' WIDE BARBED WIRE FENCE GATES	0	EA	2

NOTICE: ESTIMATED QUANTITIES TABLE IS NOT COMPLETE

- APPROPRIATE GRADING SHALL BE DONE AROUND EACH END OF CULVERTS AND HEADWALLS TO INSURE THAT RUNOFF IS PROPERLY CHANNLED INTO AND OUT OF THE CULVERTS.
- THE GRADES AND SLOPES FOR THE CONSTRUCTION REPRESENTED IN THESE PLANS ARE NECESSARY TO PROVIDE FOR THE PROPER DRAINAGE AND UTILITY OF THE SITE. CONTRACTOR SHALL PROVIDE FOR ACCURATE AND CONSISTENT MEASUREMENT OF ELEVATIONS TO ACHIEVE THE GRADES NOTED IN THESE PLANS.
- RIP RAP MATERIAL AND PLACEMENT SHALL BE IN COMPLIANCE WITH TSGT SPECIFICATIONS.
- CONTRACTOR SHALL REMOVE TOPSOIL IN AREAS DESIGNATED BY TSGT AS STOCKPILE LOCATIONS PRIOR TO STOCKPILING MATERIALS OTHER THAN TOPSOIL.

TOPSOIL NOTES:

- ORGANIC MATERIAL IS PRESENT IN THE TOP 6" OF THE SITE. THIS MATERIAL IS NOT CONSIDERED TO BE ACCEPTABLE AS STRUCTURAL EMBANKMENT. EARTHEN MATERIAL WITH ORGANIC CONTAMINATION SHALL BE CONSIDERED TOPSOIL.
- TOPSOIL MATERIAL REMOVED FROM THE CONSTRUCTION AREAS ON THE SITE SHALL BE STOCKPILED ON-SITE FOR RE-USE IN TOPSOIL PLACEMENT AFTER OVERALL GRADING IS COMPLETE. EXCESS TOPSOIL MATERIAL REMAINING AFTER CONSTRUCTION SHALL BE SPREAD OVER BORROW AREAS ON-SITE OR HAULED OFF.
- TOPSOIL SHALL BE REMOVED TO A MINIMUM DEPTH OF 6" IN THE AREA OF THE SWITCH YARD, COMMUNICATIONS YARD, FENCE APRONS, POND BERM AREA, AND ACCESS DRIVEWAYS. THE CONTRACTOR SHALL VERIFY WITH THE OWNER THAT THE EXPOSED MATERIAL IS AN ACCEPTABLE SUBGRADE. AS NECESSARY AND DIRECTED BY THE OWNER, THE CONTRACTOR SHALL REMOVE ADDITIONAL MATERIAL TO ESTABLISH AN ACCEPTABLE SUBGRADE SURFACE.

DEMOBILIZATION NOTES:

- CONDITIONS OF THE PROJECT AREA UPON COMPLETION OF THE JOB SHALL BE AS GOOD AS OR BETTER THAN THE CONDITIONS PRIOR TO STARTING WORK, IN ADDITION TO THE WORK ITEMS LISTED.
- THE PROJECT AREA SHALL BE FREE OF ANY CONTRACTOR STOCKPILE MATERIALS UPON COMPLETION OF THE JOB UNLESS OTHERWISE DIRECTED BY THE OWNER.
- UPON COMPLETION OF THE PROJECT, ALL OF THE HAUL ROUTES SHALL BE PROPERLY CLEANED TO PREVENT OBSTRUCTION AND/OR CAUSE INCONVENIENCE TO NORMAL REGULAR TRAFFIC. ALL TEMPORARY HAUL ROUTES SHALL BE REMOVED AND BROUGHT BACK TO ORIGINAL CONDITION OR BETTER. ALL RUTTED AREAS SHALL BE GRADED SMOOTH. SEEDING SHALL BE APPLIED AS INCIDENTAL.
- THE JOB TRAILER, ALL OF THE CONSTRUCTION EQUIPMENT, AND ANY FACILITIES TEMPORARILY PLACED ON SITE FOR THE PROJECT SHALL BE REMOVED FROM THE SITE.
- ANY PROPERTIES BELONGING TO THE OWNER SHALL BE RETURNED TO THE OWNER.
- PROPER DRAINAGE (NO LOCALIZED PONDING) SHALL BE MAINTAINED, PRIOR TO, DURING AND AFTER MOBILIZATION.
- DEMOBILIZATION SHALL BE DONE TO THE SATISFACTION OF THE OWNER.
- DEMOBILIZATION SHALL BE DONE IN A MANNER THAT WILL NOT CAUSE ANY INCONVENIENCE TO SITE OPERATIONS OR THE CONTINUED CONSTRUCTION OF THE OTHER APPURTENANCES ON THE SITE.
- ANY DAMAGE TO PROPERTIES DURING DEMOBILIZATION SHALL BE REPAIRED AND PAID FOR AT THE CONTRACTOR'S EXPENSE.
- SAFETY REGULATIONS SHALL BE OBSERVED AT ALL TIMES DURING DEMOBILIZATION.
- THE COST FOR DEMOBILIZATION SHALL BE CONSIDERED SUBSIDIARY TO THE PAY ITEM FOR MOBILIZATION.

FOX RUN SUBSTATION NOTES

TRI-STATE Generation and Transmission Association, Inc. A Touchstone Energy Cooperative
 1100 W. 116th Ave.
 P.O. Box 33890
 Denver, Colorado 80233
 303-452-6111

Dwn: TMC Date: 12/16/21
 Appd: Date:

S9088-A-01-002

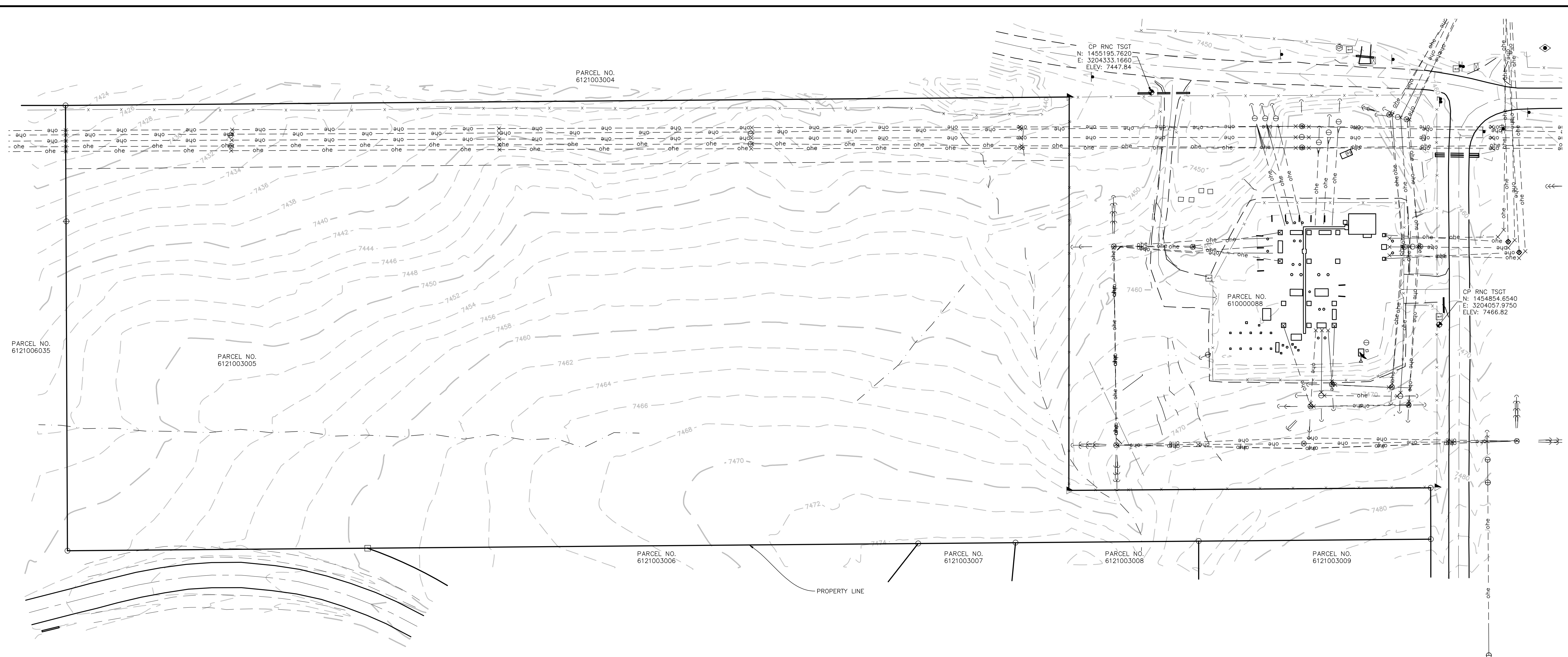
PRELIMINARY

7	6	5	4	3	2	1	No.	Date	Dwn.	Appd.	Revision	M.F.
---	---	---	---	---	---	---	-----	------	------	-------	----------	------

--	--	--	--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--	--	--	--

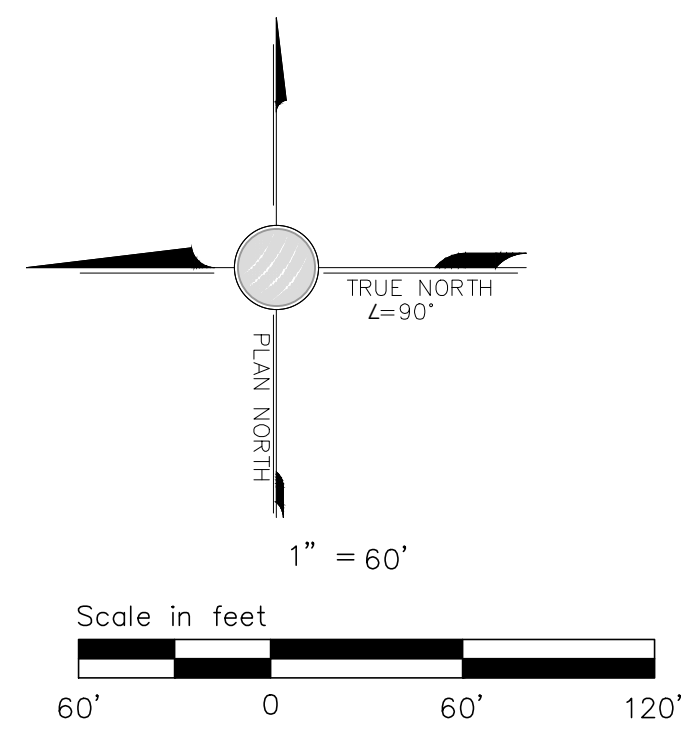
UPDATED BY: TCLEMENT 10/10/2022 5:10 PM Contract: 10/10/2022 5:10 PM
 PATH: \\DMS14\Projects\Active Projects\2021\21038-1857-Monument Sub Survey & Civil\Facility\Civil\Sheets\S9088-A-01-SHEETS.dwg



LEGEND

	EXISTING PROPERTY FENCE
	EXISTING UNDERGROUND POWER
	EXISTING COUNTY ROAD R.O.W.
	EXISTING CULVERT
	PROPOSED SUBDRAIN
	PROPOSED CULVERT
	PROPOSED GRADE BRAKE LINE
	PROPOSED SUBSTATION FENCE
	PROPOSED DRAINAGE FLOWLINE
	PROPOSED RIPRAP

- NOTE:**
- COORDINATE SYSTEM NAD83 COLORADO CENTRAL ZONE
 - SCALE FACTOR 1.0003608453



**FOX RUN SUBSTATION
EXISTING CONDITIONS**

TRI-STATE GENERATION & TRANSMISSION
ASSOCIATION, INCORPORATED

TRI-STATE
Generation and Transmission
Association, Inc.
A Touchstone Energy Cooperative
1100 W. 116th Ave.
P.O. Box 33695
Denver, Colorado 80233
303-452-6111

Dwn: TMC Date: 12/16/21
Appd: Date:

S9088-A-01-003

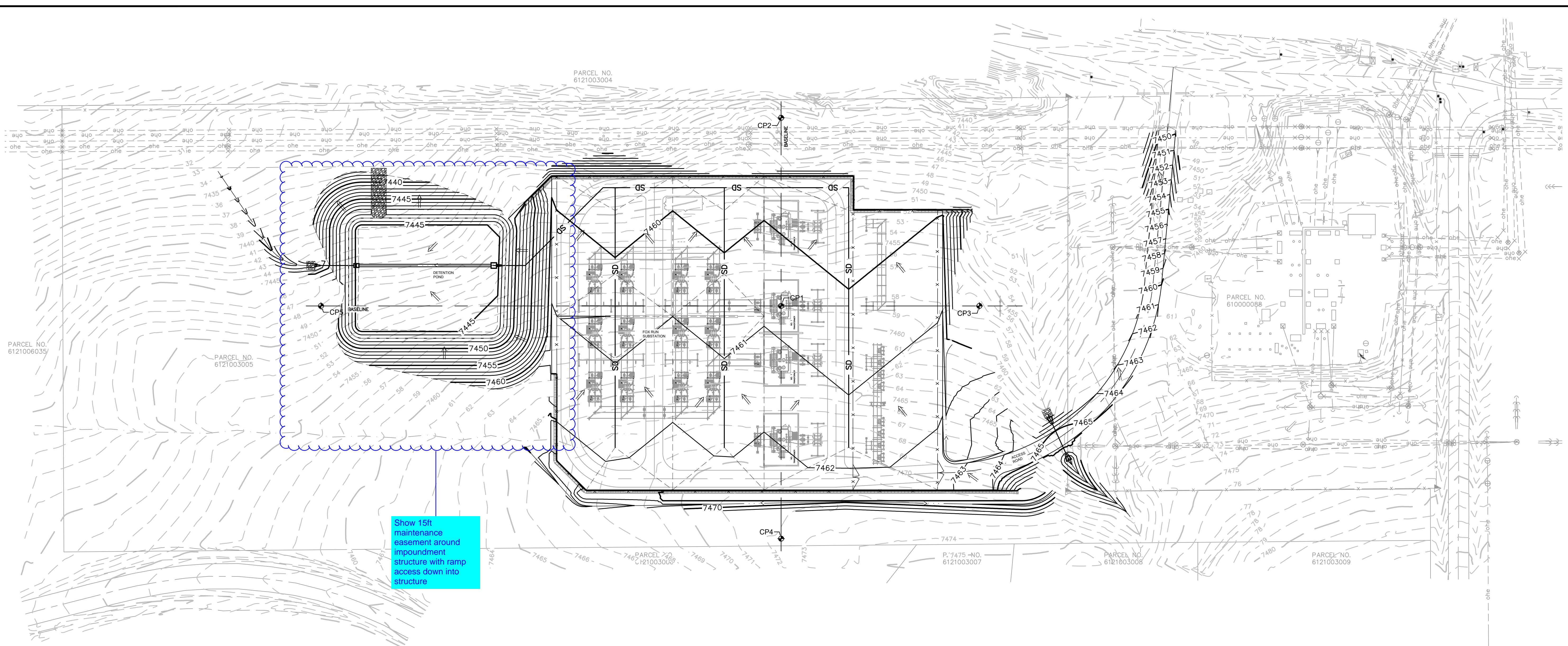
No.	Date	Dwn.	Appd.	Revision	M.F.
7					
6					
5					
4					
3					
2					
1					

Reference Drawings

Dwg. No.	Mfr.	Drawing Title

PRELIMINARY

PATH: \\DMS\Projects\Active Projects\2021\21038-TSGT Monument Sub Survey & Civil\Facility\Civil\Sheets\S9088-A-01-SHEETS.dwg



Show 15ft maintenance easement around impoundment structure with ramp access down into structure

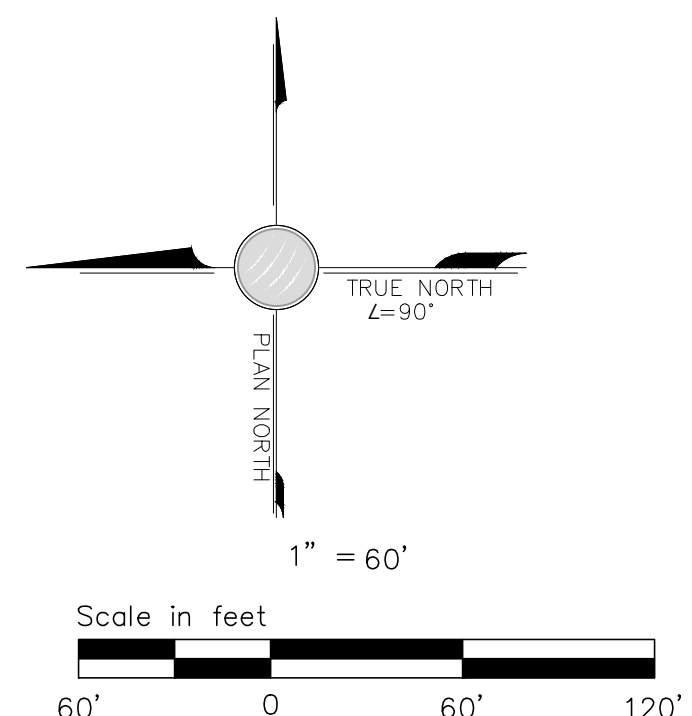
LEGEND

	EXISTING PROPERTY FENCE
	EXISTING UNDERGROUND POWER
	EXISTING COUNTY ROAD R.O.W.
	EXISTING CULVERT
	PROPOSED SUBDRAIN
	PROPOSED CULVERT
	PROPOSED GRADE BRAKE LINE
	PROPOSED SUBSTATION FENCE
	PROPOSED DRAINAGE FLOWLINE
	PROPOSED RIPRAP

NOTE:

1. THE HORIZONTAL LOCATION FOR THE CONTROL POINT AT THE INTERSECTION OF THE TWO BASELINES IS FIXED. LOCATIONS FOR OTHER CONTROL POINTS MAY BE ADJUSTED ALONG THE BASELINE AS NECESSARY TO PROVIDE FOR CLEAR LINES OF SIGHT AROUND EXISTING VEGETATION TO REMAIN.
2. SURVEYOR SHALL SET THE CONTROL POINTS OUTSIDE THE SWITCHYARD SECURITY FENCE IN-THE-FIELD, AND REPORT THE COORDINATES AND ELEVATIONS TO THE OWNER'S AUTHORIZED TECHNICAL REPRESENTATIVE (OATR).

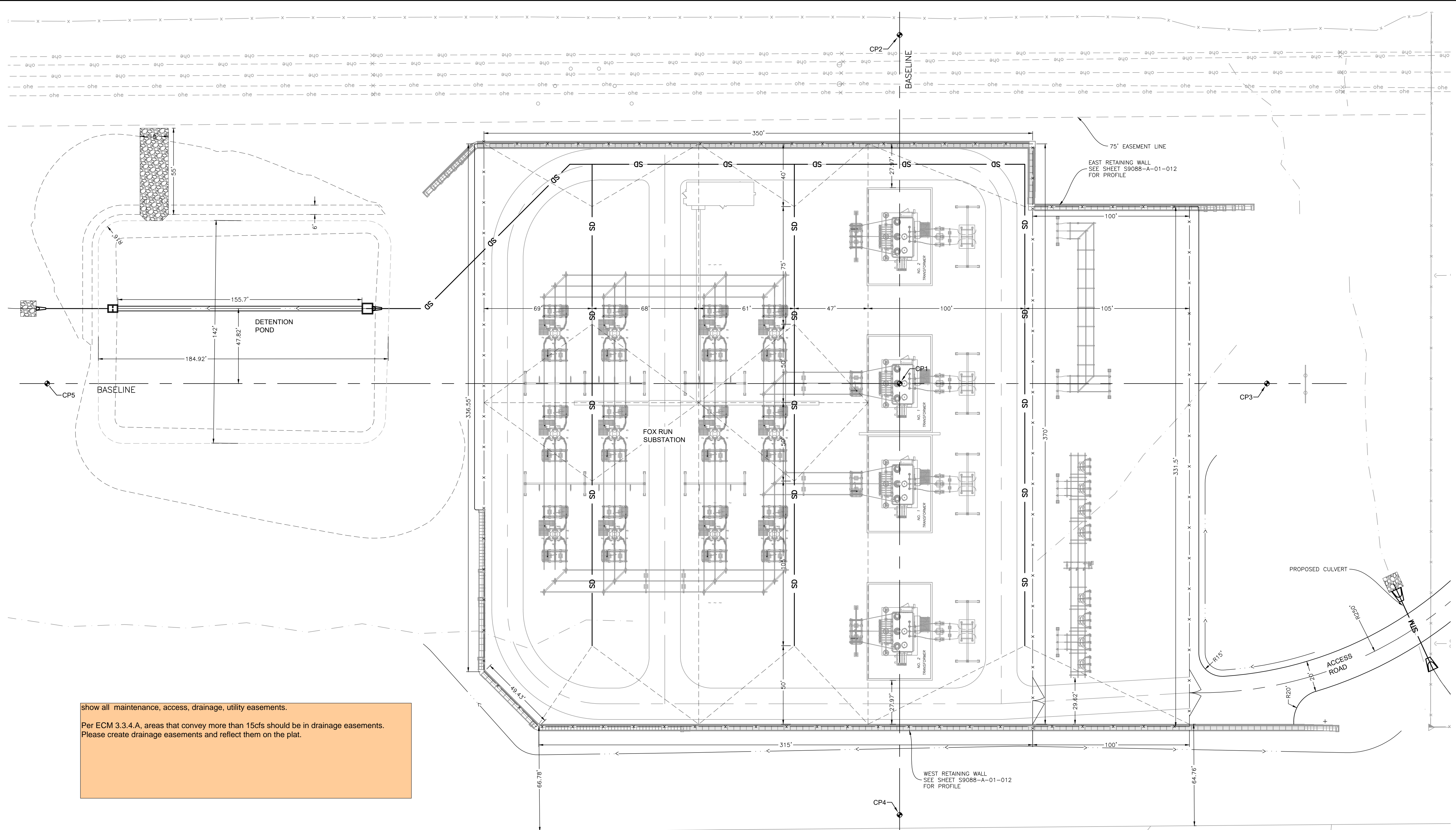
Point #	Control Point	Northing	Easting
5001	CP1	1455632.15	3204080.98
5002	CP2	1455632.15	3204303.24
5003	CP3	1455397.89	3204080.98
5004	CP4	1455632.15	3203805.94
5005	CP5	1456175.92	3204080.98



FOX RUN SUBSTATION		OVERALL SITE	TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED
 1100 W. 116th Ave. P.O. Box 338905 Denver, Colorado 80233 303-452-6111		Dwn: TMC Appd:	Date: 12/16/21 Date:
FOX RUN SUBSTATION OVERALL SITE TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED		No. 7 6 5 4 3 2 1	Revision M.F. Date Appd. Dwn. Date
FOX RUN SUBSTATION OVERALL SITE TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED		No. 7 6 5 4 3 2 1	Revision M.F. Date Appd. Dwn. Date

PRELIMINARY

S9088-A-01-004



show all maintenance, access, drainage, utility easements.
 Per ECM 3.3.4.A, areas that convey more than 15cfs should be in drainage easements. Please create drainage easements and reflect them on the plat.

LEGEND

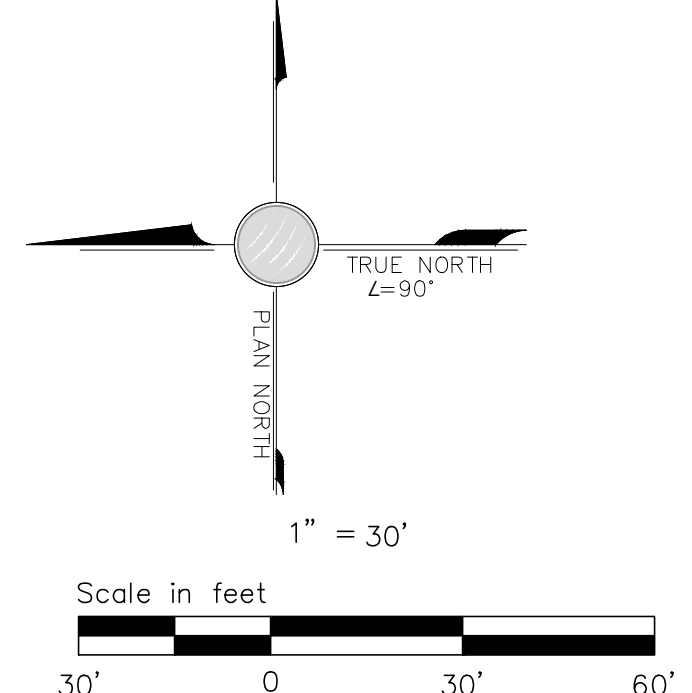
	EXISTING PROPERTY FENCE
	EXISTING UNDERGROUND POWER
	EXISTING COUNTY ROAD R.O.W.
	EXISTING CULVERT
	PROPOSED SUBDRAIN
	PROPOSED CULVERT
	PROPOSED GRADE BRAKE LINE
	PROPOSED SUBSTATION FENCE
	PROPOSED DRAINAGE FLOWLINE
	PROPOSED RIPRAP

NOTE:

1. THE HORIZONTAL LOCATION FOR THE CONTROL POINT AT THE INTERSECTION OF THE TWO BASELINES IS FIXED. LOCATIONS FOR OTHER CONTROL POINTS MAY BE ADJUSTED ALONG THE BASELINE AS NECESSARY TO PROVIDE FOR CLEAR LINES OF SIGHT AROUND EXISTING VEGETATION TO REMAIN.
2. SURVEYOR SHALL SET THE CONTROL POINTS OUTSIDE THE SWITCHYARD SECURITY FENCE IN-THE-FIELD, AND REPORT THE COORDINATES AND ELEVATIONS TO THE OWNER'S AUTHORIZED TECHNICAL REPRESENTATIVE (OATR).

Construction Control Point Table

Point #	Control Point	Northing	Eastng
5001	CP1	1455632.15	3204080.98
5002	CP2	1455632.15	3204303.24
5003	CP3	1455397.89	3204080.98
5004	CP4	1455632.15	3203805.94
5005	CP5	1456175.92	3204080.98



PARCEL NO.
6121003006

PARCEL NO.
6121003007

FOX RUN SUBSTATION
 SITE LAYOUT
 TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED
 UPDATED BY: TC/LEVENT 10/10/2022 5:10 PM Contract: 10/10/2022 5:10 PM
 PATH: \\DMS1A\Projects\Active Projects\2021\2036-TSGT-Monument Sub Survey & Civil\Facility\Civil\Sheets\S9088-A-01-SHEETS.dwg

TRI-STATE
 Generation and Transmission Association, Inc.
 A Touchstone Energy/Cooperative
 1100 W. 116th Ave.
 P.O. Box 338905
 Denver, Colorado 80233
 303-452-6111

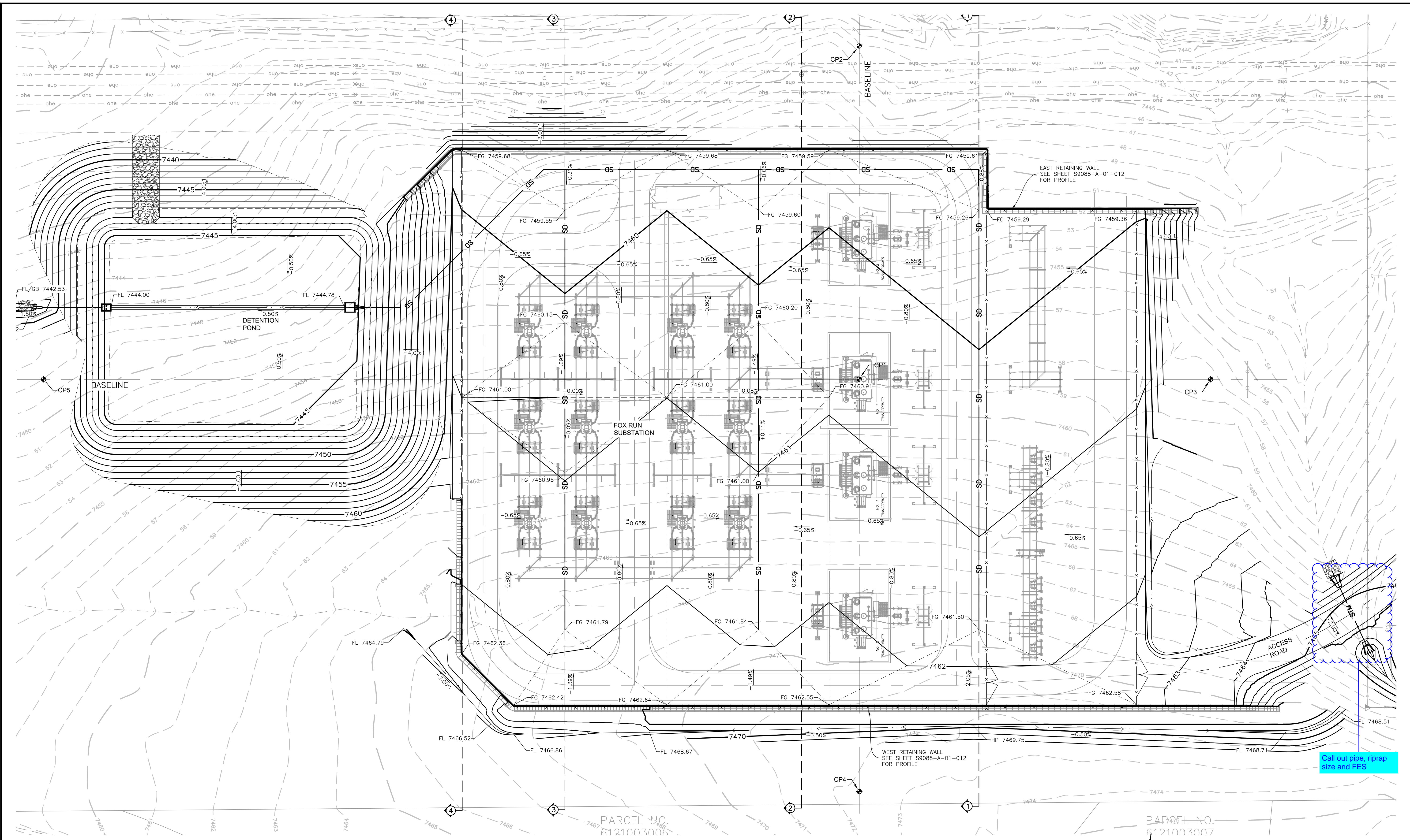
Dwn: TMC Date: 12/16/21
 Appd: Date:

S9088-A-01-005

No.	Date	Dwn.	Appd.	Revision	M.F.
7					
6					
5					
4					
3					
2					
1					

Reference Drawings
 Dwg. No. Mgr. Drawing Title

PRELIMINARY



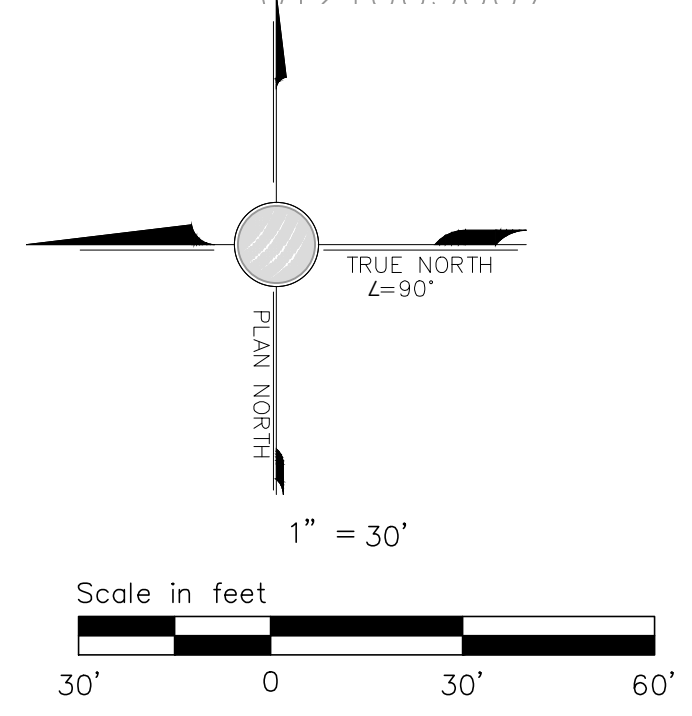
LEGEND

	EXISTING PROPERTY FENCE
	EXISTING UNDERGROUND POWER
	EXISTING COUNTY ROAD R.O.W.
	EXISTING CULVERT
	PROPOSED SUBDRAIN
	PROPOSED CULVERT
	PROPOSED GRADE BRAKE LINE
	PROPOSED SWITCHYARD SECURITY FENCE
	PROPOSED DRAINAGE FLOWLINE
	PROPOSED RIPRAP

- NOTE:**
1. THE HORIZONTAL LOCATION FOR THE CONTROL POINT AT THE INTERSECTION OF THE TWO BASELINES IS FIXED. LOCATIONS FOR OTHER CONTROL POINTS MAY BE ADJUSTED ALONG THE BASELINE AS NECESSARY TO PROVIDE FOR CLEAR LINES OF SIGHT AROUND EXISTING VEGETATION TO REMAIN.
 2. SURVEYOR SHALL SET THE CONTROL POINTS OUTSIDE THE SWITCHYARD SECURITY FENCE IN-THE-FIELD, AND REPORT THE COORDINATES AND ELEVATIONS TO THE OWNER'S AUTHORIZED TECHNICAL REPRESENTATIVE (OATR).

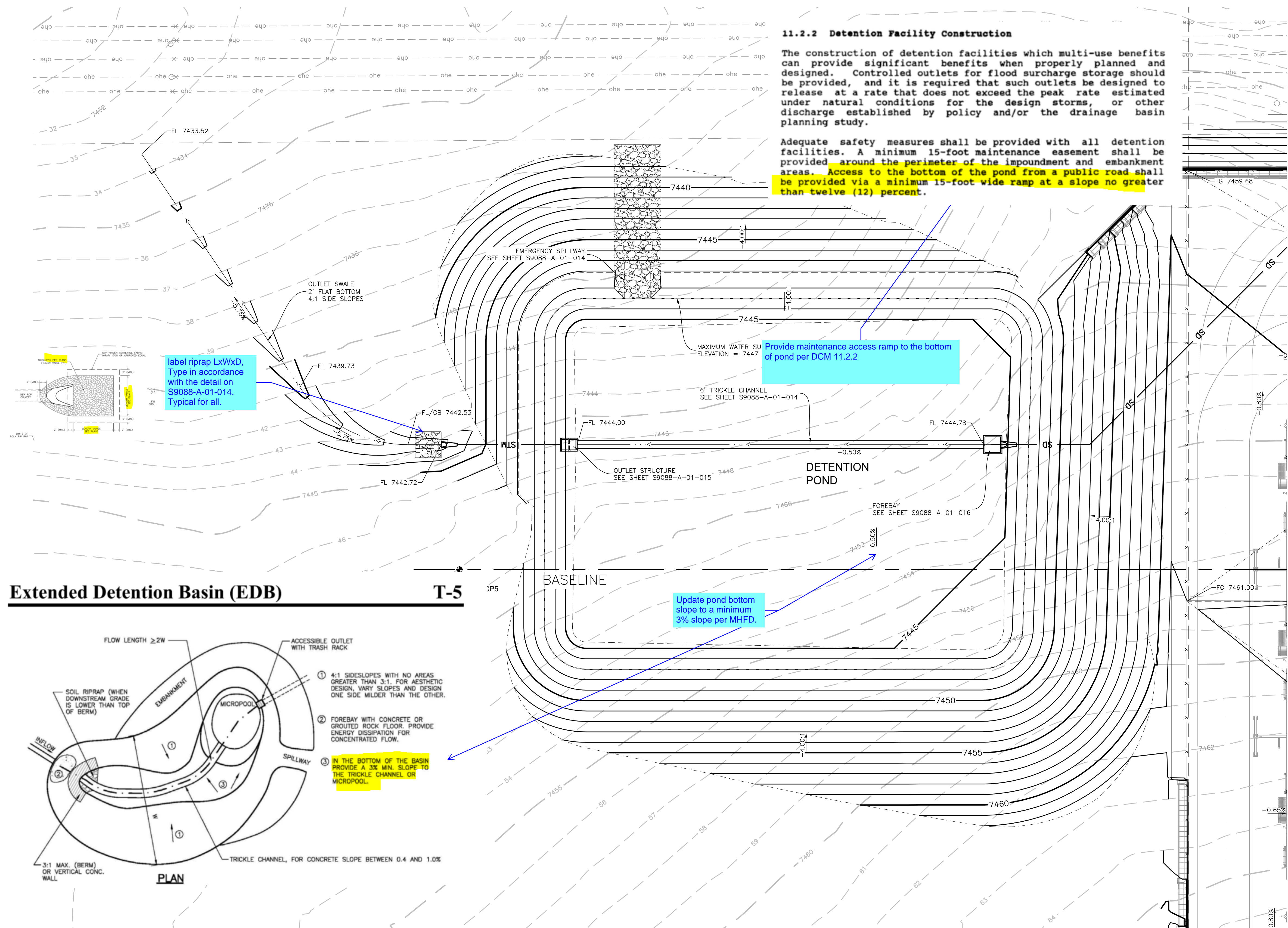
Construction Control Point Table

Point #	Control Point	Northing	Easting
5001	CP1	1455632.15	3204080.98
5002	CP2	1455632.15	3204303.24
5003	CP3	1455397.89	3204080.98
5004	CP4	1455632.15	3203805.94
5005	CP5	1456175.92	3204080.98



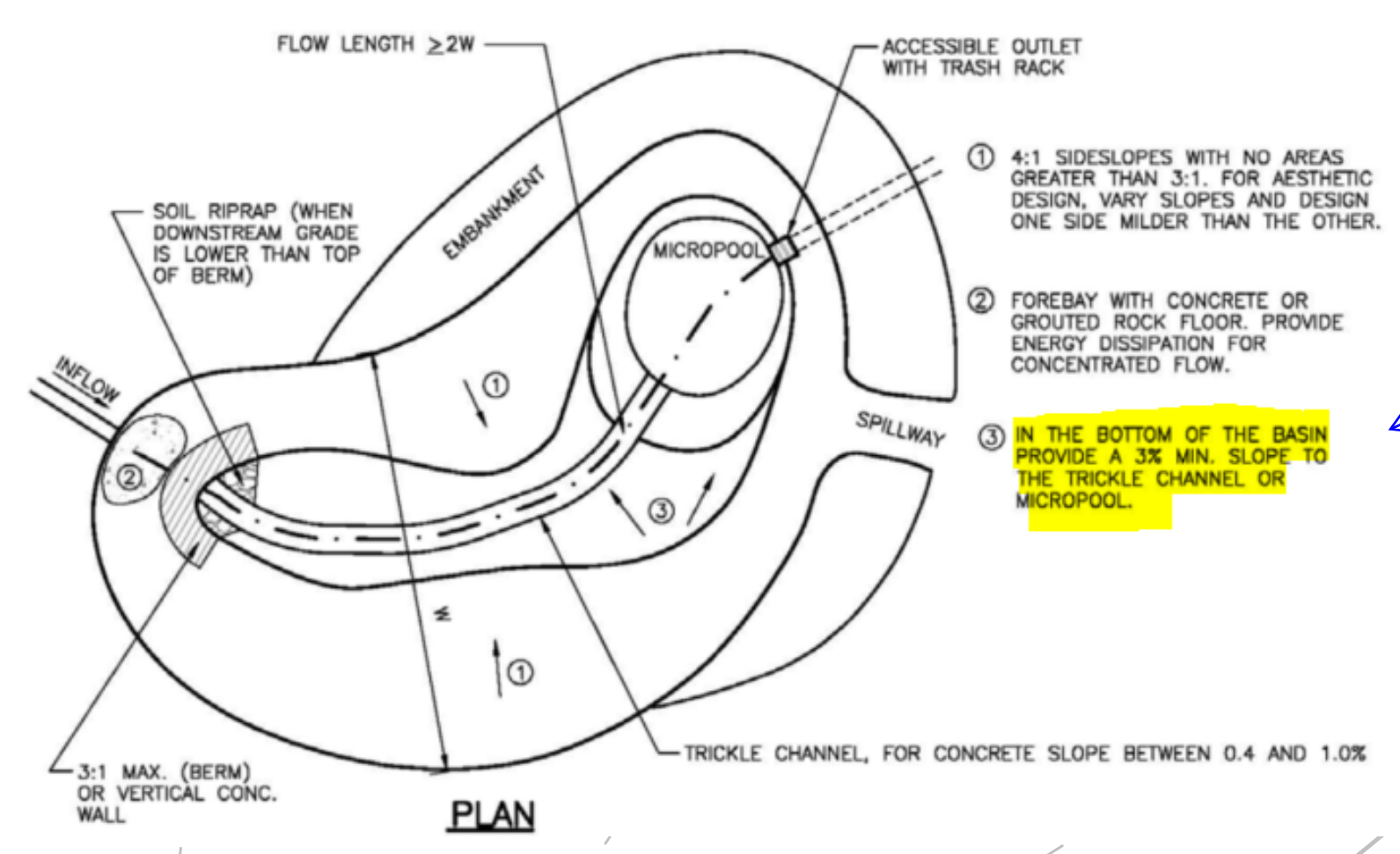
Call out pipe, riprap size and FES

FOX RUN SUBSTATION GRADING PLAN																																															
TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED																																															
1100 W. 116th Ave. P.O. Box 33890 Denver, Colorado 80233 303-452-6111																																															
UPDATED BY: TCLEMENT 10/10/2022 5:10 PM Contract: \DMS\FA\Projects\Active Projects\2021\2038-TSGT-Monument Sub Survey & Civil\Facility\Civil\Sheets\S9088-A-01-SHEETS.dwg																																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>No.</th><th>Date</th><th>Dwn.</th><th>Appd.</th><th>Revision</th></tr> <tr><td>7</td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td></td><td></td><td></td><td></td></tr> </table>	No.	Date	Dwn.	Appd.	Revision	7					6					5					4					3					2					1					<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Dwg. No.</th><th>Mgr.</th><th>Reference Drawings</th></tr> <tr><td></td><td></td><td></td></tr> </table>	Dwg. No.	Mgr.	Reference Drawings			
No.	Date	Dwn.	Appd.	Revision																																											
7																																															
6																																															
5																																															
4																																															
3																																															
2																																															
1																																															
Dwg. No.	Mgr.	Reference Drawings																																													
PRELIMINARY																																															
S9088-A-01-006																																															



Extended Detention Basin (EDB)

T-5



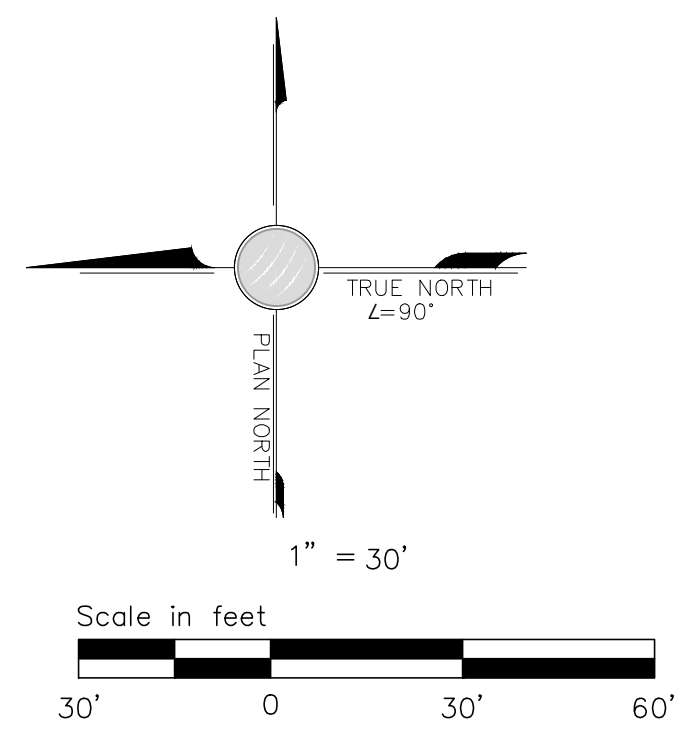
LEGEND

- EXISTING PROPERTY FENCE
- EXISTING UNDERGROUND POWER
- EXISTING COUNTY ROAD R.O.W.
- EXISTING CULVERT
- SD PROPOSED SUBDRAIN
- STM PROPOSED CULVERT
- PROPOSED GRADE BRAKE LINE
- PROPOSED SUBSTATION FENCE
- PROPOSED DRAINAGE FLOWLINE
- PROPOSED RIPRAP

NOTE:

1. THE HORIZONTAL LOCATION FOR THE CONTROL POINT AT THE INTERSECTION OF THE TWO BASELINES IS FIXED. LOCATIONS FOR OTHER CONTROL POINTS MAY BE ADJUSTED ALONG THE BASELINE AS NECESSARY TO PROVIDE FOR CLEAR LINES OF SIGHT AROUND EXISTING VEGETATION TO REMAIN.
2. SURVEYOR SHALL SET THE CONTROL POINTS OUTSIDE THE SWITCHYARD SECURITY FENCE IN-THE-FIELD, AND REPORT THE COORDINATES AND ELEVATIONS TO THE OWNER'S AUTHORIZED TECHNICAL REPRESENTATIVE (OATR).

Point #	Control Point	Northing	Easting
5001	CP1	1455632.15	3204080.98
5002	CP2	1455632.15	3204303.24
5003	CP3	1455397.89	3204080.98
5004	CP4	1455632.15	3203805.94
5005	CP5	1456175.92	3204080.98



FOX RUN SUBSTATION

DETENTION POND GRADING

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

TRI-STATE
Generation and Transmission Association, Inc.
A Touchstone Energy/Cooperative
1100 W. 116th Ave.
P.O. Box 33895
Denver, Colorado 80233
303-452-6111

Dwn: TMC Date: 12/16/21
Appd: Date:

S9088-A-01-007

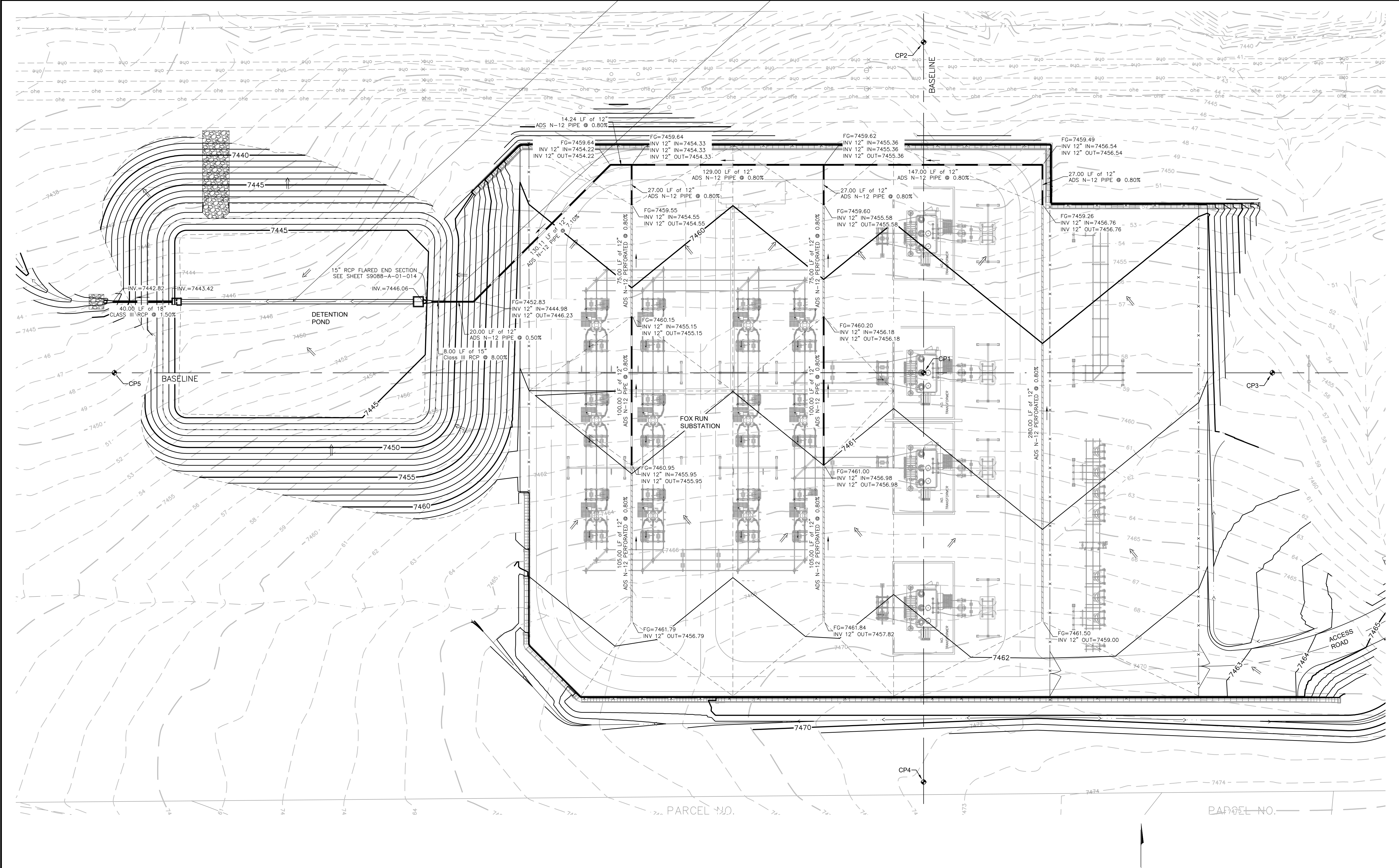
PRELIMINARY

No.	Date	Dwn.	Appd.	Revision	M.F.
7					
6					
5					
4					
3					
2					
1					

PATH: \\DMS1A\Projects\Active Projects\2021\21036-1857-Monument Sub Survey & Civil\Facility\Civil\Sheets\S9088-A-01-SHEETS.dwg

Include control joints every ~10ft to avoid cracking

include connection detail



LEGEND

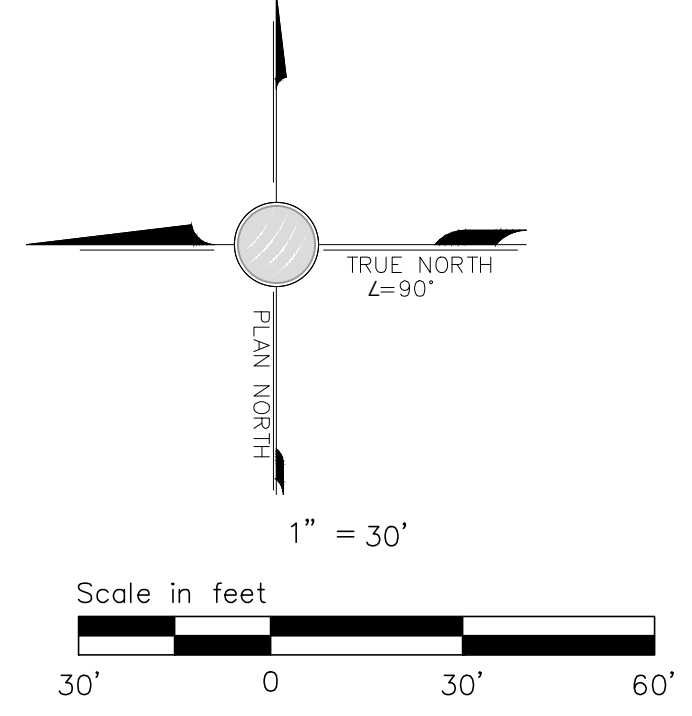
	EXISTING PROPERTY FENCE
	EXISTING UNDERGROUND POWER
	EXISTING COUNTY ROAD R.O.W.
	EXISTING CULVERT
	PROPOSED SUBDRAIN
	PROPOSED CULVERT
	PROPOSED GRADE BRAKE LINE
	PROPOSED SUBSTATION FENCE
	PROPOSED DRAINAGE FLOWLINE
	PROPOSED RIPRAP

NOTE:

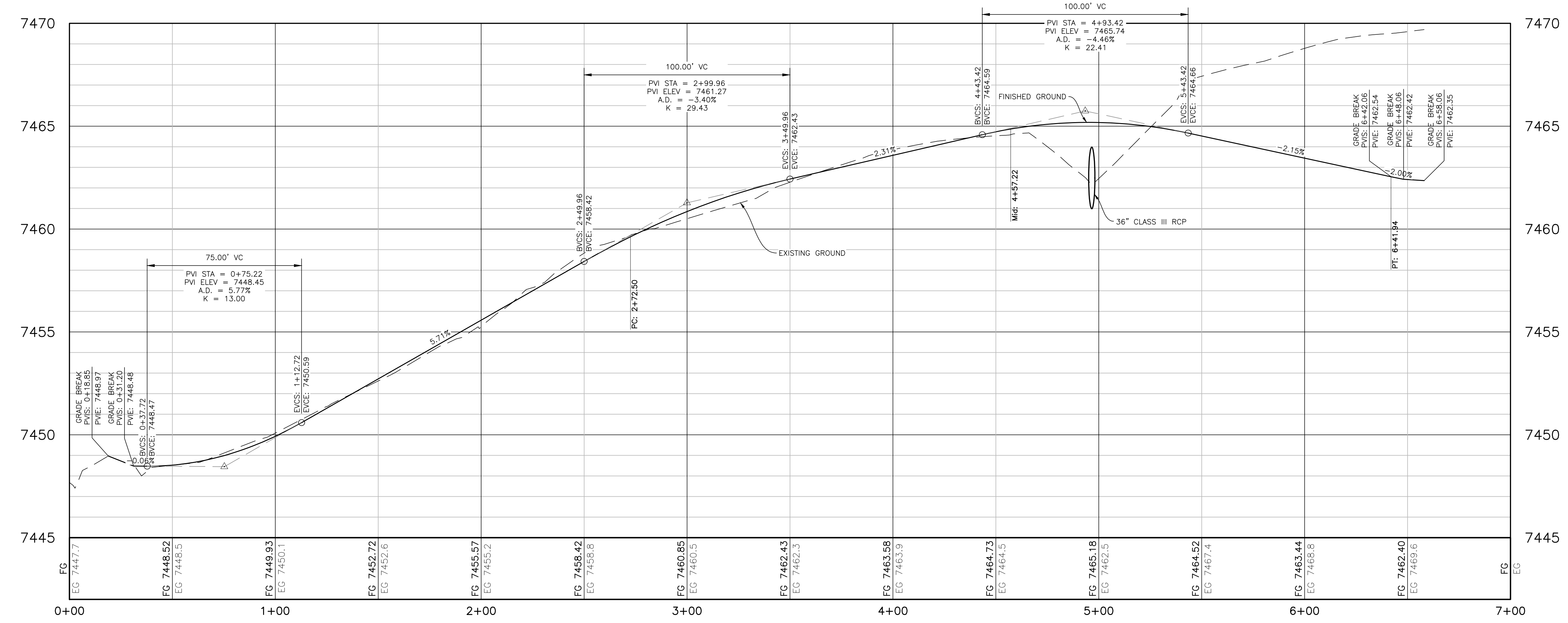
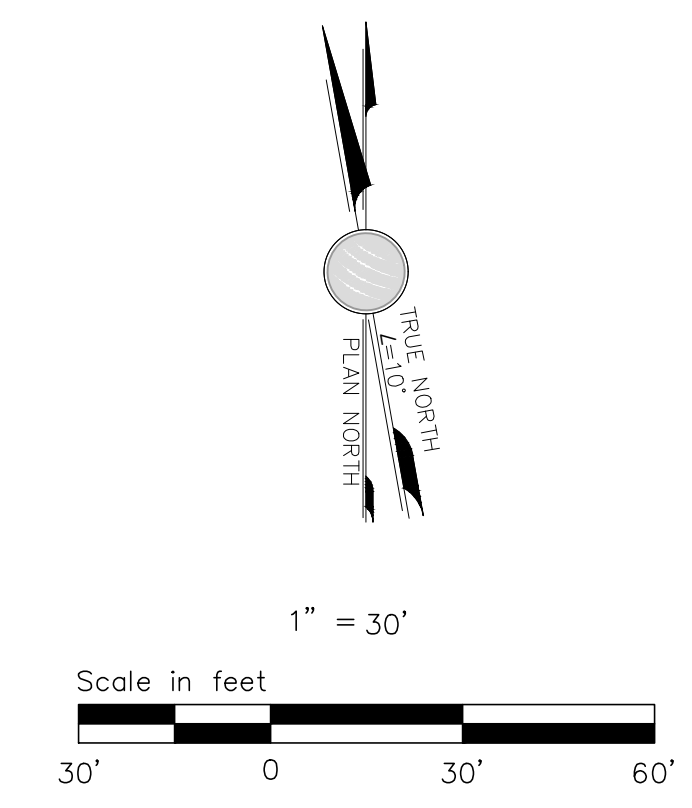
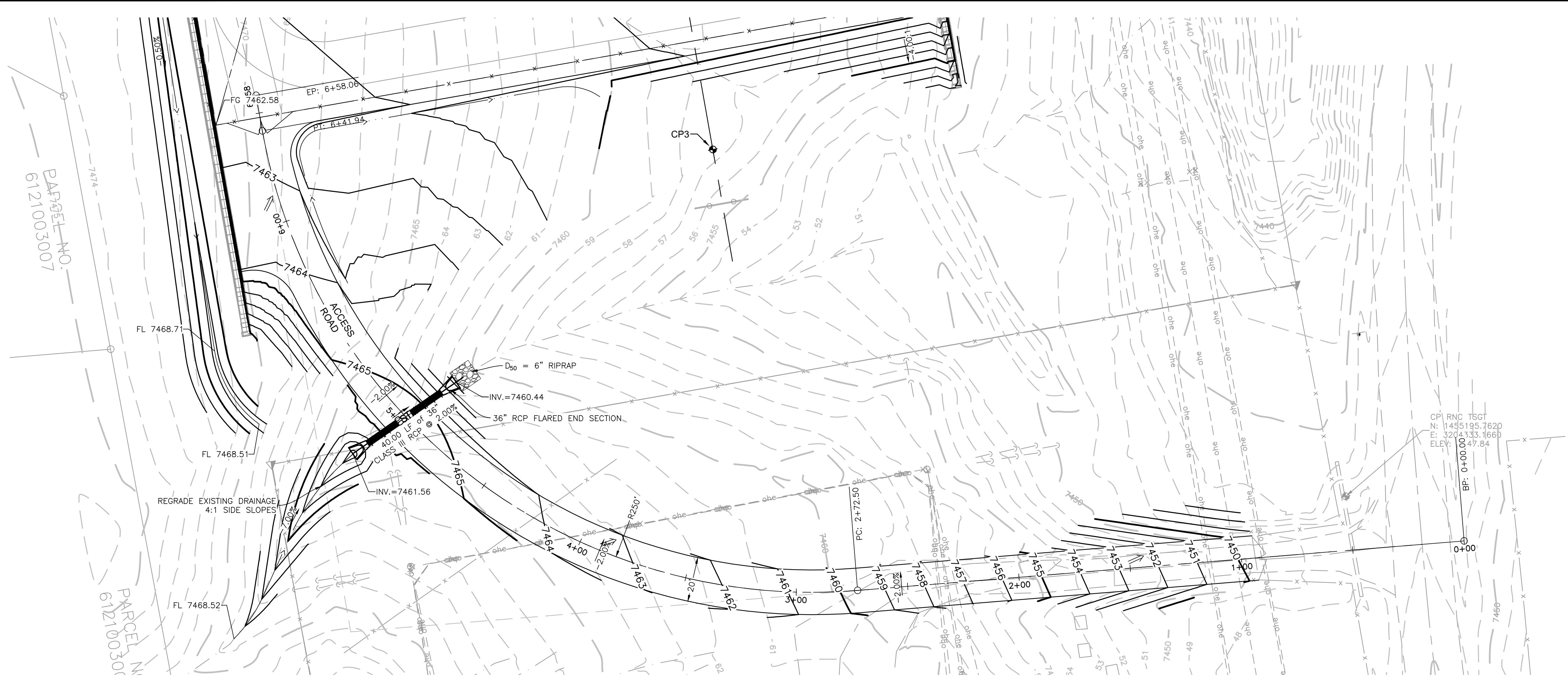
1. THE HORIZONTAL LOCATION FOR THE CONTROL POINT AT THE INTERSECTION OF THE TWO BASELINES IS FIXED. LOCATIONS FOR OTHER CONTROL POINTS MAY BE ADJUSTED ALONG THE BASELINE AS NECESSARY TO PROVIDE FOR CLEAR LINES OF SIGHT AROUND EXISTING VEGETATION TO REMAIN.
2. SURVEYOR SHALL SET THE CONTROL POINTS OUTSIDE THE SWITCHYARD SECURITY FENCE IN-THE-FIELD, AND REPORT THE COORDINATES AND ELEVATIONS TO THE OWNER'S AUTHORIZED TECHNICAL REPRESENTATIVE (OATR).

Construction Control Point Table

Point #	Control Point	Northing	Easting
5001	CP1	1455632.15	3204080.98
5002	CP2	1455632.15	3204303.24
5003	CP3	1455397.89	3204080.98
5004	CP4	1455632.15	3203805.94
5005	CP5	1456175.92	3204080.98



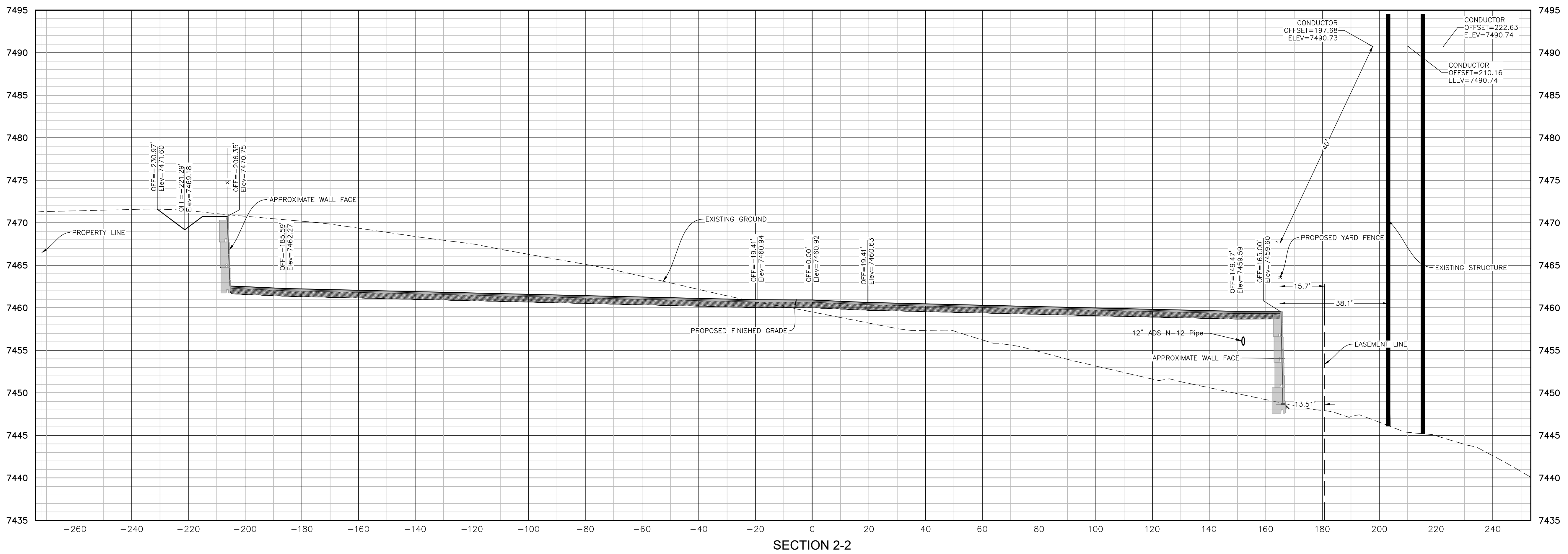
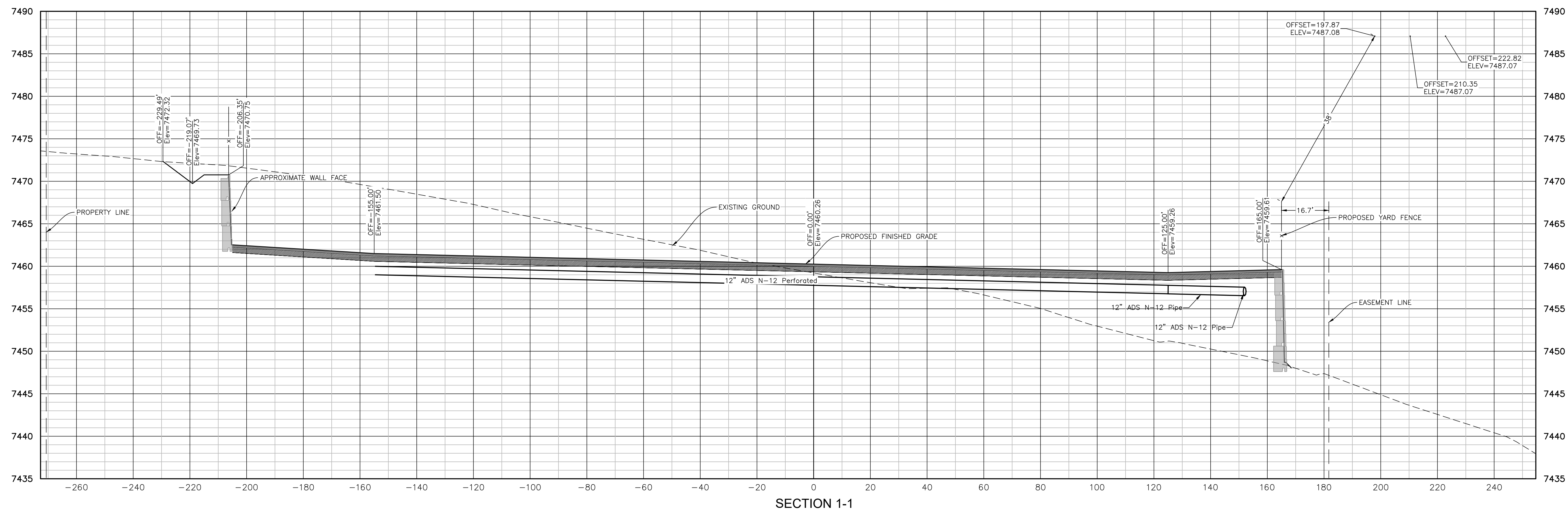
<p>FOX RUN SUBSTATION</p> <p>SUBDRAIN PLAN</p>	<p>TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED</p> <p>1100 W. 116th Ave. P.O. Box 33893 Denver, Colorado 80233 303-452-6111</p>			
<p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 1</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 2</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 3</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 4</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 5</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 6</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 7</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 8</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 9</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 10</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 11</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 12</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 13</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 14</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 15</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 16</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 17</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 18</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 19</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 20</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 21</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 22</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 23</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 24</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 25</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 26</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 27</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 28</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 29</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 30</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 31</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 32</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 33</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 34</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 35</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 36</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 37</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 38</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 39</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 40</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 41</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 42</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 43</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 44</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 45</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 46</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 47</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 48</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 49</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 50</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 51</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 52</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 53</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 54</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 55</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 56</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 57</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 58</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 59</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 60</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 61</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 62</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 63</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 64</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 65</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 66</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 67</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 68</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 69</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 70</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 71</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 72</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 73</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 74</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 75</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 76</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 77</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 78</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 79</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 80</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 81</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 82</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 83</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 84</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 85</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 86</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 87</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 88</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 89</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 90</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 91</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 92</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 93</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 94</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 95</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 96</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 97</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 98</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 99</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 100</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 101</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 102</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 103</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 104</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 105</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 106</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 107</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 108</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 109</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 110</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 111</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 112</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 113</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 114</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 115</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 116</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 117</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 118</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 119</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 120</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 121</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 122</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 123</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 124</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 125</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 126</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 127</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 128</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 129</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 130</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 131</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 132</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 133</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 134</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 135</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 136</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 137</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 138</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 139</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 140</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 141</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 142</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 143</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 144</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 145</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 146</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 147</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 148</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 149</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 150</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 151</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 152</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 153</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 154</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 155</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 156</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 157</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 158</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 159</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 160</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 161</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 162</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 163</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 164</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 165</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 166</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 167</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 168</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 169</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 170</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 171</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 172</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 173</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 174</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 175</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 176</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 177</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 178</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 179</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 180</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 181</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 182</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 183</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 184</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 185</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 186</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 187</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 188</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 189</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 190</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 191</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 192</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 193</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 194</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 195</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 196</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 197</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 198</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 199</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 200</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 201</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		<p>NO. 202</p> <p>DATE: 12/16/21</p> <p>APP'D: TMC</p>		
<p>NO. 203</p> <p>DATE: 12/16/</p>				



 1100 W. 116th Ave. P.O. Box 33893 Denver, Colorado 80233 303-452-6111		FOX RUN SUBSTATION ACCESS DRIVEWAY PLAN & PROFILE TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED UPDATED BY: TCLEMENT 10/10/2022 5:10 PM Contract:		No. Date Dwn. Appd.	
7					
6					
5					
4					
3					
2					
1					
Dwg. No.		M.F.		Reference Drawings	
Appd.		Date		Drawing Title	
TMC		12/16/21		Access Driveway Plan & Profile	

PRELIMINARY

S9088-A-01-009



Reference Drawings		M.F.	
Dwg. No.	Mfr.	Revision	M.F.
7			
6			
5			
4			
3			
2			
1			
No.	Date	Dwn.	Appd.

FOX RUN SUBSTATION
YARD SECTIONS

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

1100 W. 116th Ave.
 P.O. Box 33893
 Denver, Colorado 80233
 303-452-6111

UPDATED BY: TC/EMT 10/10/2022 5:10 PM Contract: . . .
 PATH: \\DMS14\Projects\Active Projects\2021\21038-1857-Monument Sub Survey & Civil\Facility\Civil\Sheets\S9088-A-01-SHEETS.dwg

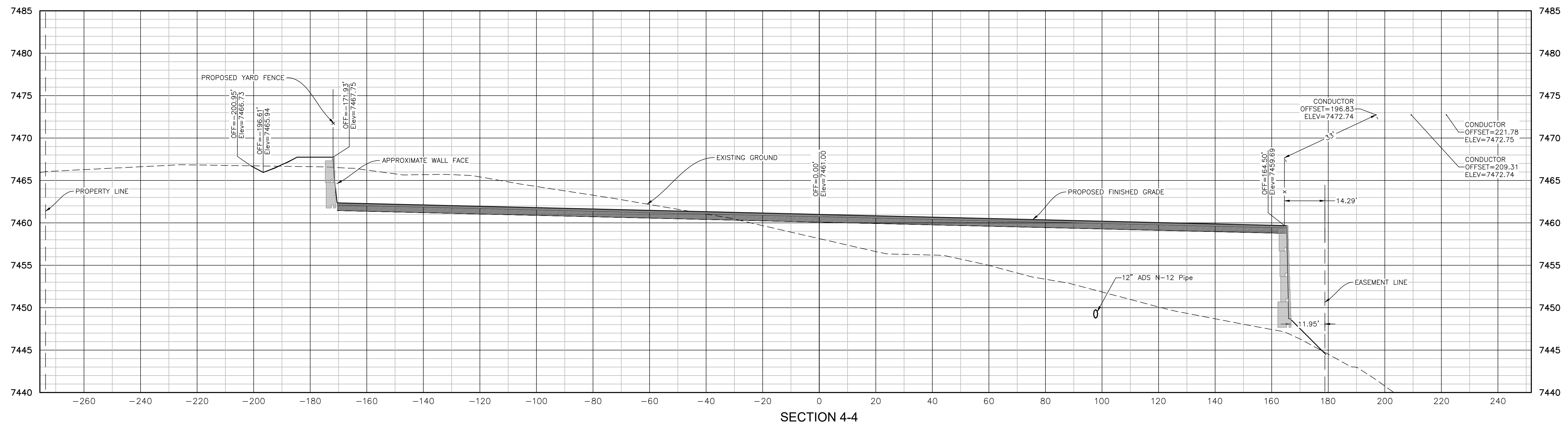
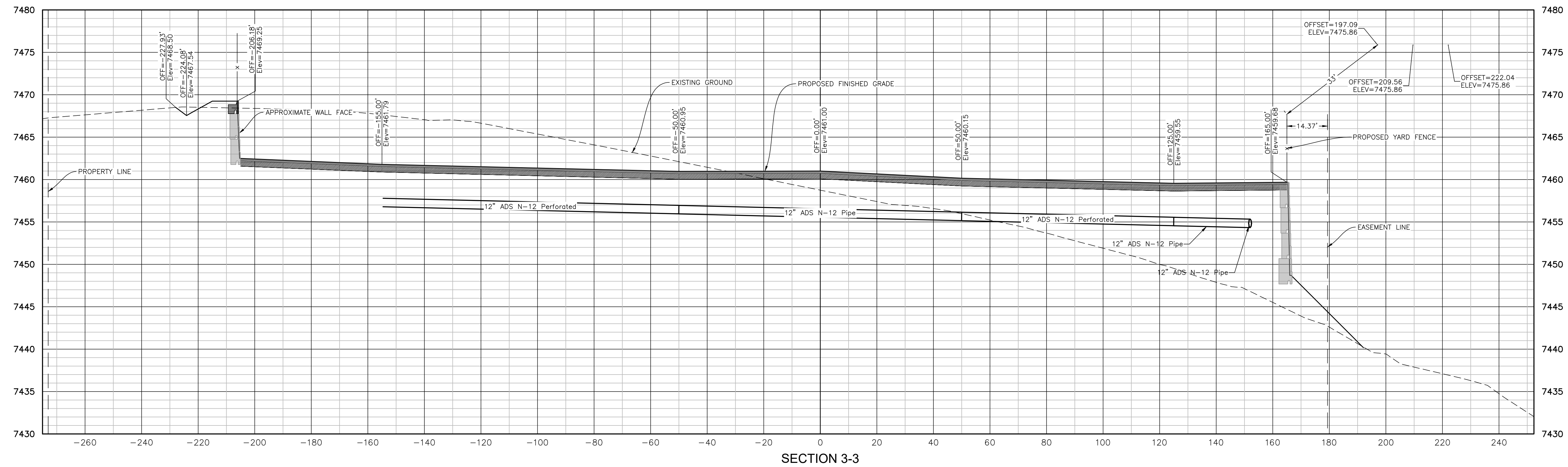
TRI-STATE
 Generation and Transmission Association, Inc.

1100 W. 116th Ave.
 P.O. Box 33893
 Denver, Colorado 80233
 303-452-6111

Dwn: TMC Date: 12/16/21
 Appd: Date:

S9088-A-01-010

PRELIMINARY



No.	Date	Dwn.	Appd.	Revision	M.F.	Dwg. No.	Mgr.	Reference Drawings
7								
6								
5								
4								
3								
2								
1								

FOX RUN SUBSTATION
YARD SECTIONS

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

UPDATED BY: TC/LEMENT 10/10/2022 5:10 PM Contract: . . .
PATH: \\DMS1A\Projects\Active Projects\2021\2038-7857-Monument Sub Survey & Civil\Facility\Civil\Sheets\S9088-A-01-SHEETS.dwg

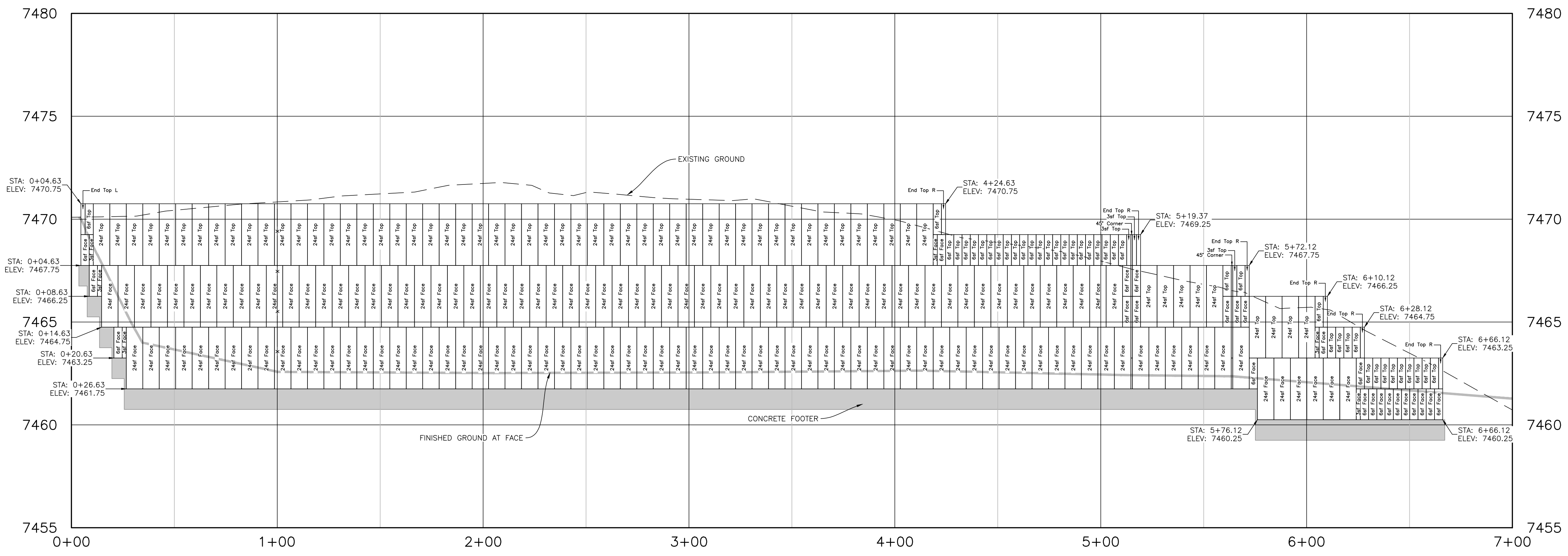
TRI-STATE
Generation and Transmission Association, Inc.
A Touchstone Energy Cooperative

1100 W. 116th Ave.
P.O. Box 33893
Denver, Colorado 80233
303-452-6111

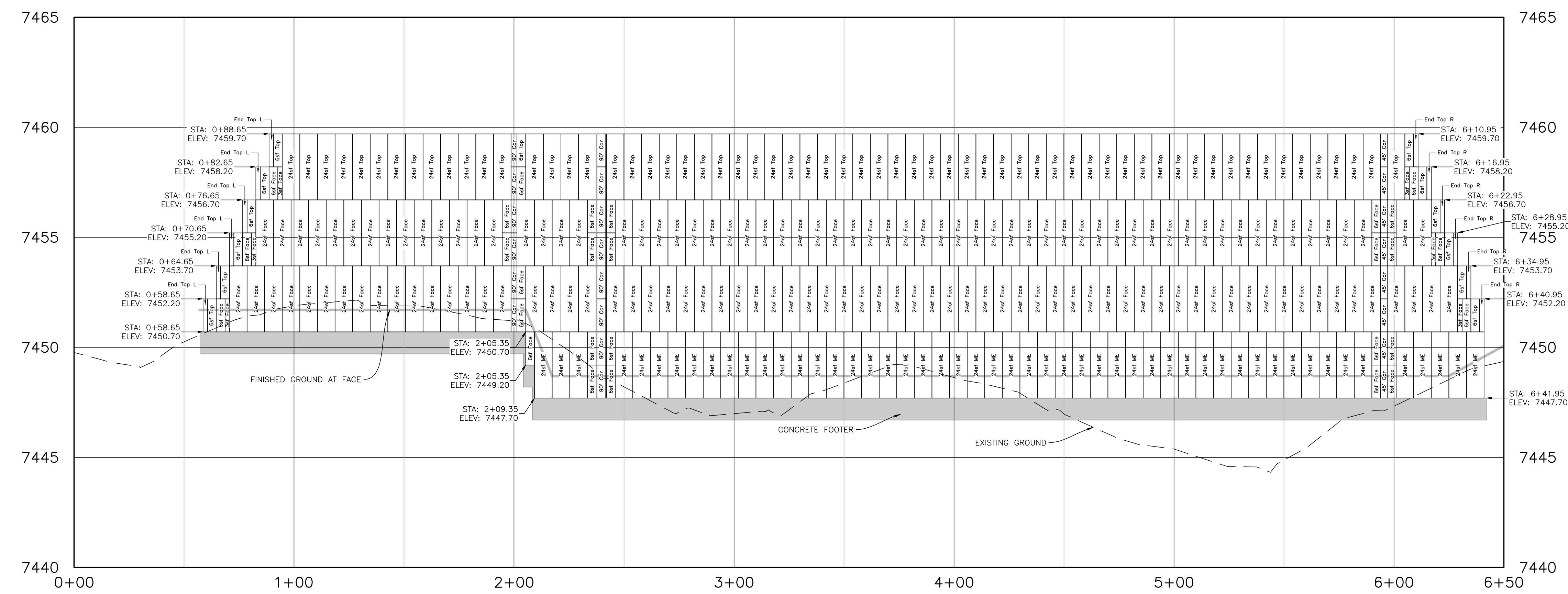
Dwn: TMC Date: 12/16/21
Appd: Date:

S9088-A-01-011

PRELIMINARY



WEST WALL



EAST WALL

STONE STRONG RETAINING WALL SYSTEMS		
LABEL	DESCRIPTION	QTY.
24SF Face	24SF Block	267
24SF Top	24SF Top Block	122
24SF ME	24SF Mass Extender	51
6SF Face	6SF Block	52
6SF Top	6SF Top Block	53
3SF Face	3SF Block	12
3SF Top	3SF Top Block	3
End Top L	End Top Block Left	7
End Top R	End Top Block Right	12
Half DF	Half Dual Face	0
Full DF	Full Dual Face	0
45° COR	45° Corner Block	17
90° COR	90° Corner Block	14

FOX RUN SUBSTATION
RETAINING WALL PROFILES
 TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED
 UPDATED BY: TCLEMNT 10/10/2022 5:10 PM Contract: .
 PATH: \\DMS1A\Projects\Active Projects\2021\21038-SSG Monument Sub Survey & Civil\Facility\Civil\Sheets\S9088-A-01-SHEETS.dwg

TRI-STATE
 Generation and Transmission Association, Inc.
 A Touchstone Energy Cooperative
 1100 W. 116th Ave.
 P.O. Box 33695
 Denver, Colorado 80233
 303-452-6111

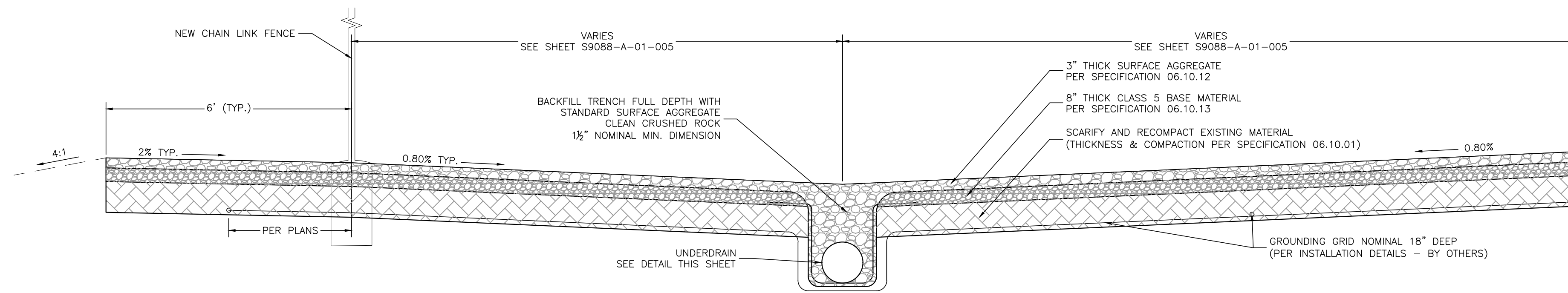
Dwn: TMC Date: 12/16/21
 Appd: Date:

S9088-A-01-012

No.	Date	Dwn.	Appd.	Revision
7				
6				
5				
4				
3				
2				
1				

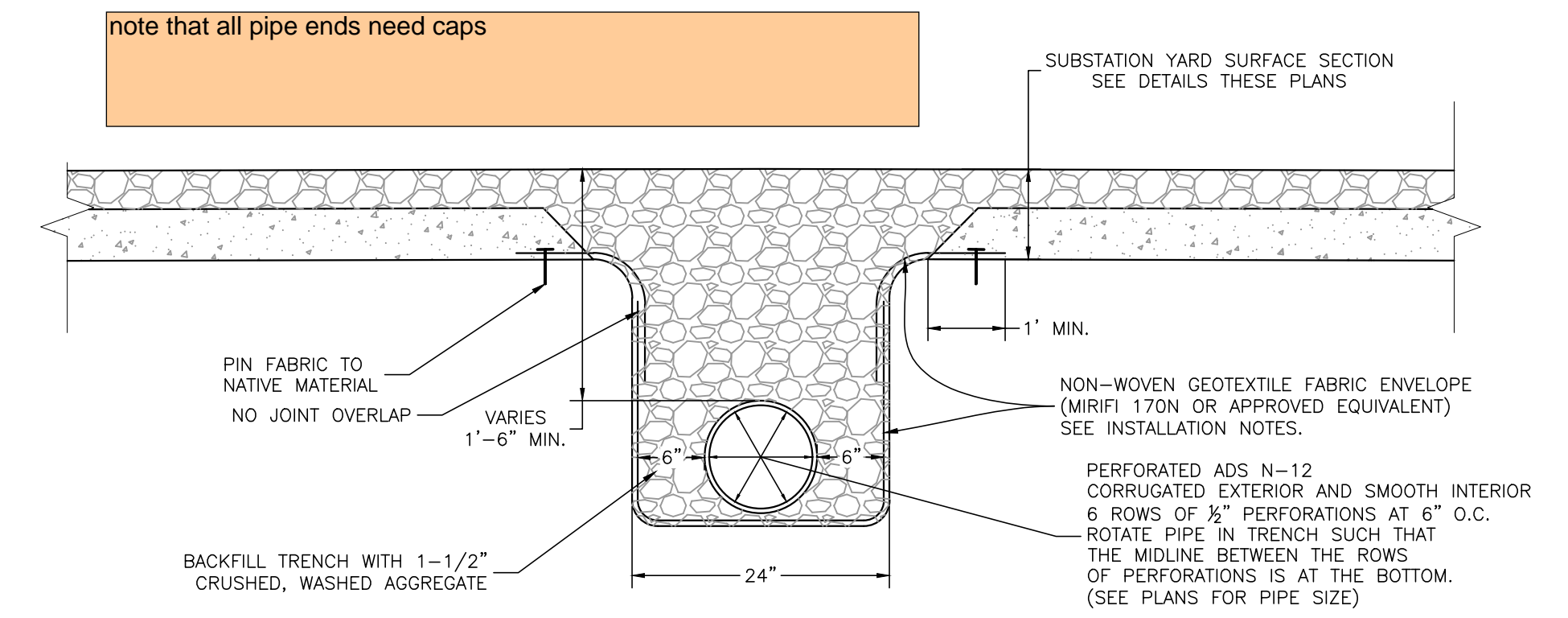
Dwg. No. M.F.
 Reference Drawings

PRELIMINARY



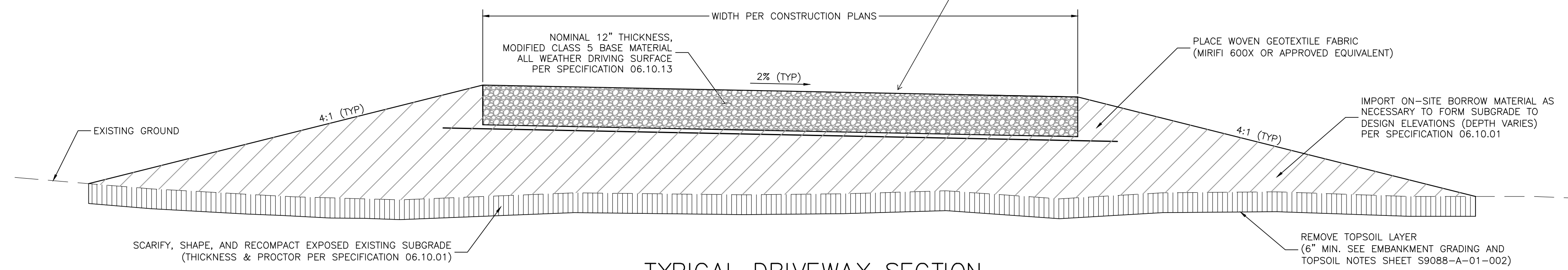
TYPICAL INTERIOR UNDERDRAIN & YARD SECTION
N.T.S.

- PIPE, AGGREGATE, & FABRIC INSTALLATION NOTES:
1. LAY FABRIC IN TRENCH PRIOR TO PLACEMENT OF AGGREGATE.
 2. INSTALL PERFORATED PIPE TO DESIGN GRADES WITH PERFORATIONS PER DETAIL.
 3. BACKFILL TO DESIGN SURFACE GRADES AND ELEVATIONS WITH 1/2" CRUSHED AGGREGATE PER SPECIFICATIONS.



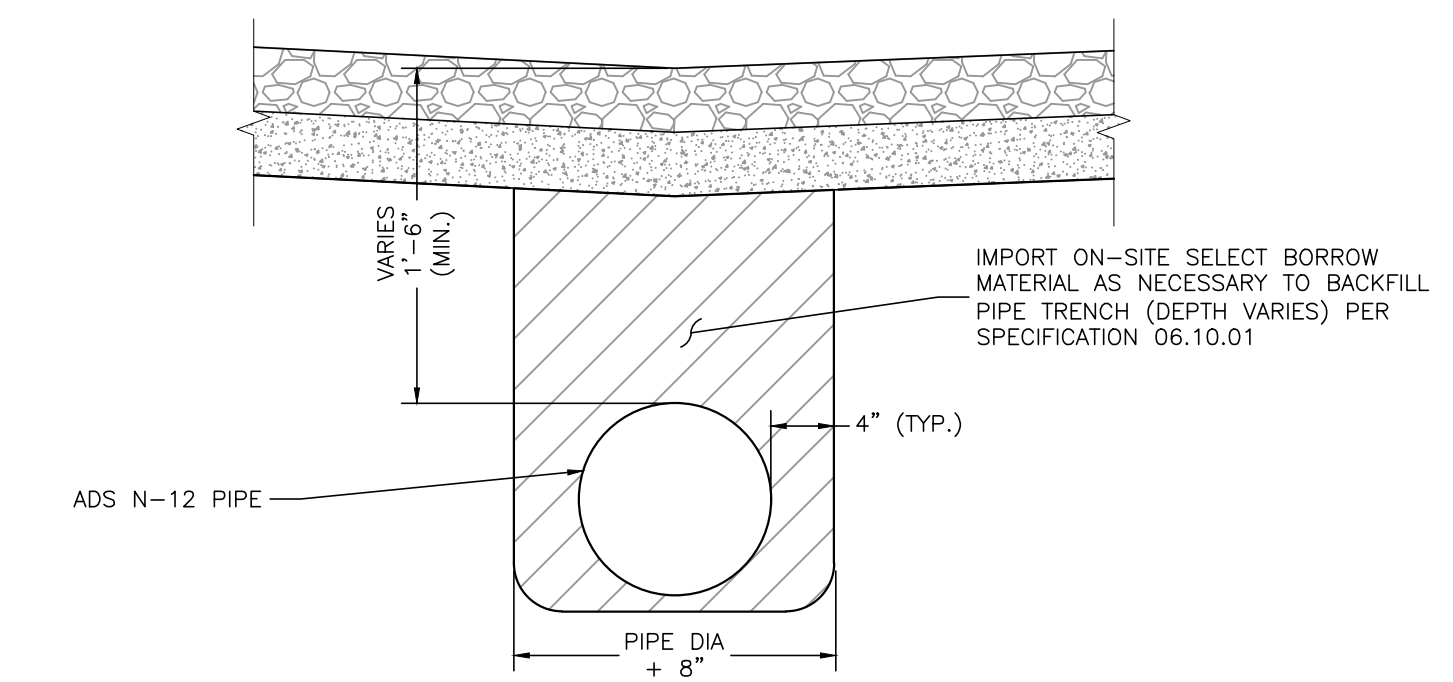
TYPICAL PERFORATED SUBDRAIN DETAIL
N.T.S.

-Stabilized access ramp shall be a minimum of 15ft wide and no greater than 12% slope, in accordance with DCMv1, Chap 11.2.2.



TYPICAL DRIVEWAY SECTION
N.T.S.

is this the maintenance access road?



TYPICAL SOLID SUBDRAIN DRAIN DETAIL
N.T.S.

Reference Drawings	Mgr.	Dwg. No.	Drawing Title
--------------------	------	----------	---------------

No.	Date	Dwn.	Appd.	Revision	M.F.
7					
6					
5					
4					
3					
2					
1					

FOX RUN SUBSTATION
CIVIL DETAILS
TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED
UPDATED BY: TCLEMENT 10/10/2022 5:10 PM Contract: .
PATH: \\DMS1A\Projects\Active Projects\2021\2038-1857-Monument Sub Survey & Civil\Facility\Civil\Sheets\S9088-A-01-SHEETS.dwg

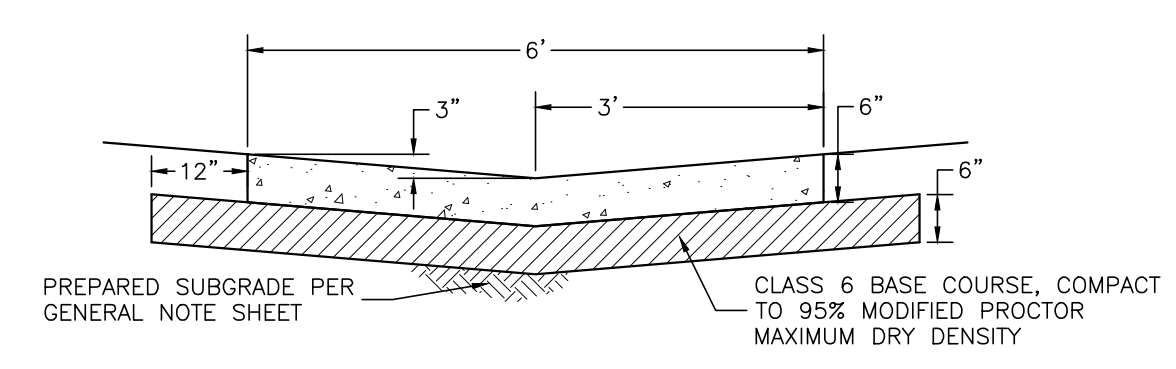
TRI-STATE Generation and Transmission Association, Inc.
A Touchstone Energy/Cooperative
1100 W. 116th Ave.
P.O. Box 33890
Denver, Colorado 80233
303-452-6111

Dwn: TMC Date: 12/16/21
Appd: Date:

S9088-A-01-013

PRELIMINARY

per Input: Emergency Spillway (Rectangular or Trapezoidal)		Calculated Parameters for Spillway			
Spillway Invert Stage =	3.00	ft (relative to basin bottom at Stage = 0 ft)	Spillway Design Flow Depth =	0.78	feet
Spillway Crest Length =	0.00	feet	Stage at Top of Freeboard =	4.78	feet
Spillway End Slopes =	0.17	H:V	Basin Area at Top of Freeboard =	0.53	acres
Freeboard above Max Water Surface =	1.00	feet	Basin Volume at Top of Freeboard =	1.52	acre-ft



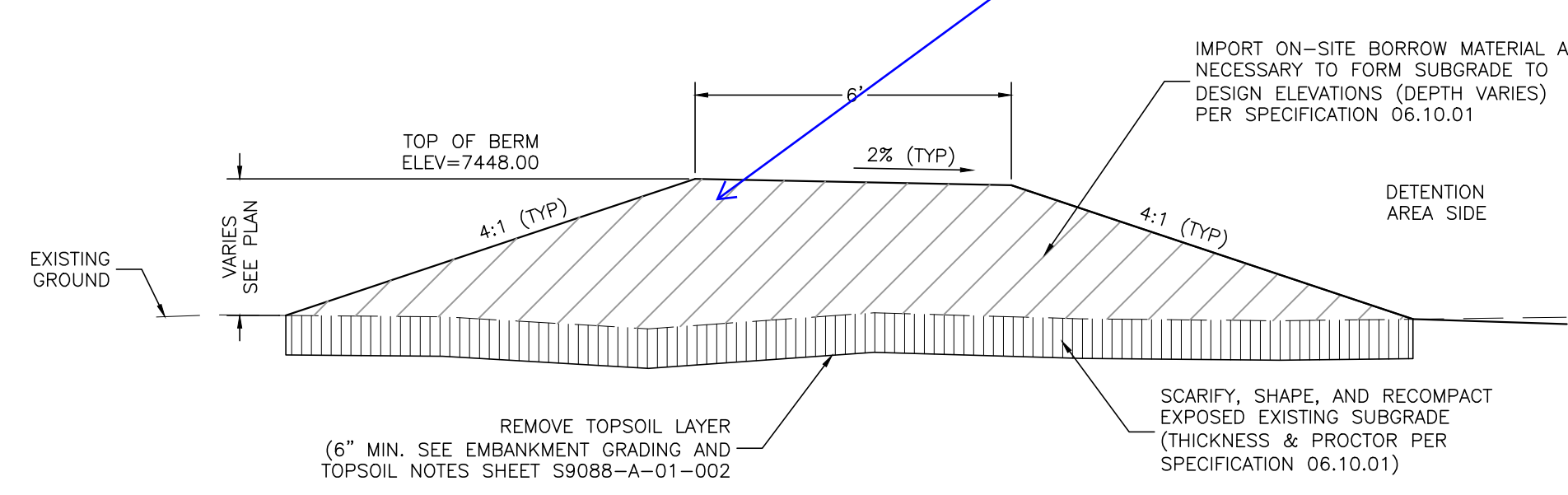
6' TRICKLE CHANNEL
N.T.S.

Update top of berm height to be 1.78 feet higher than the weir crest elevation per the MHFD-detention worksheet in the drainage report.

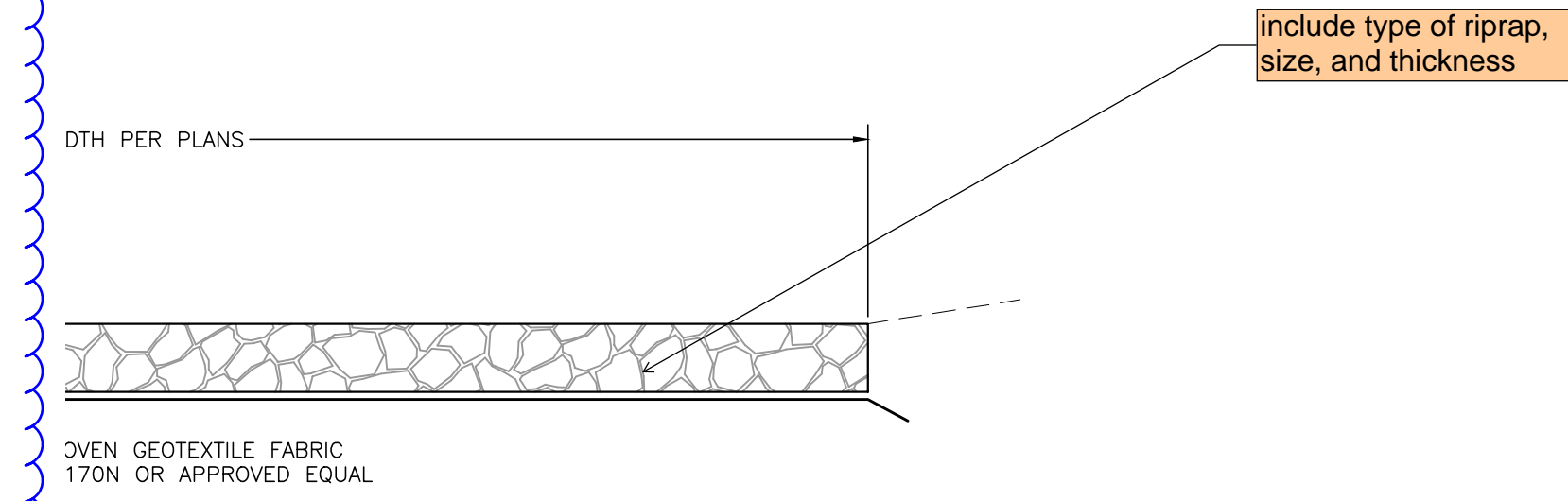
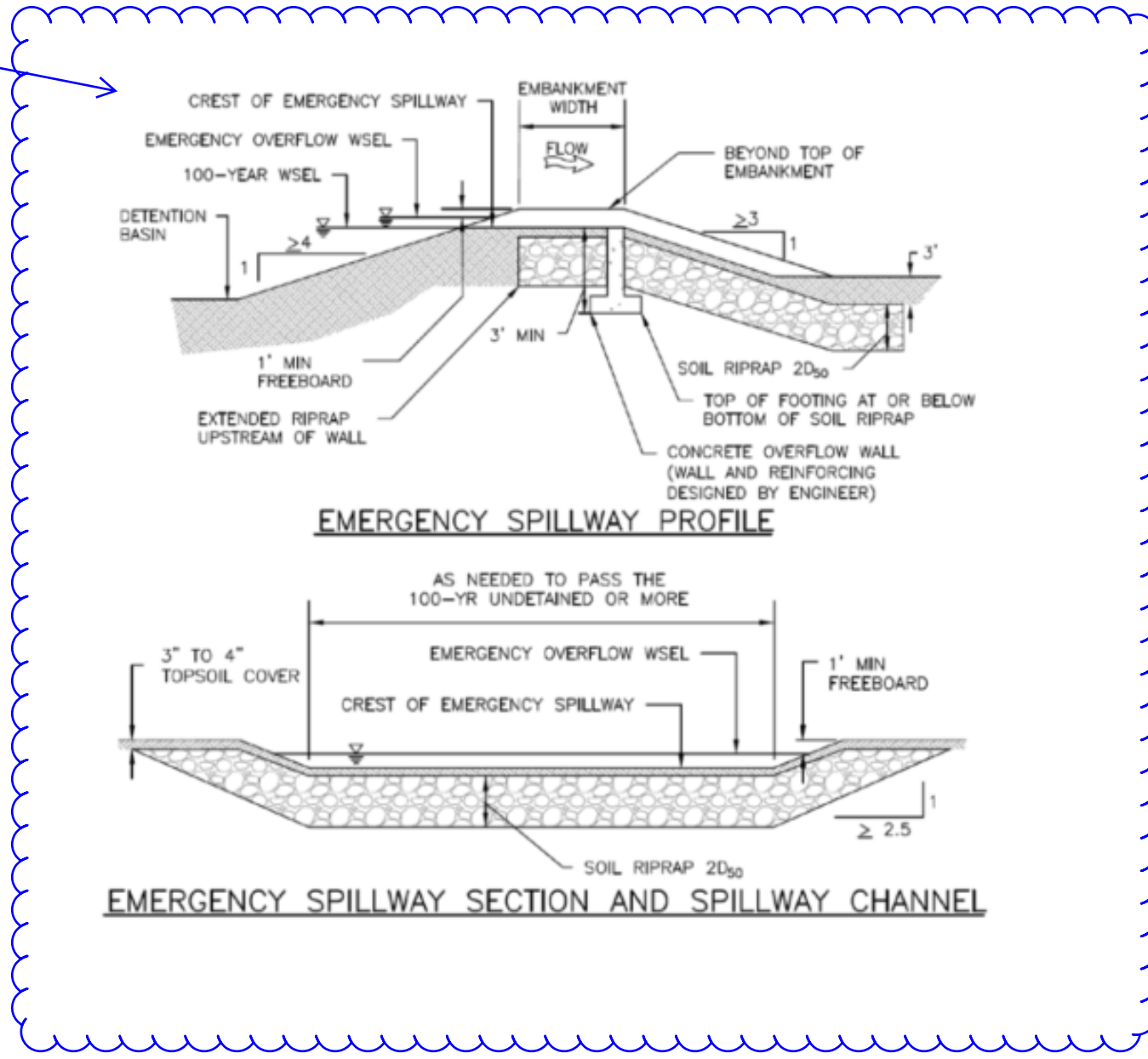


DETECTION BERM EMERGENCY OVERFLOW WEIR DETAIL
N.T.S.

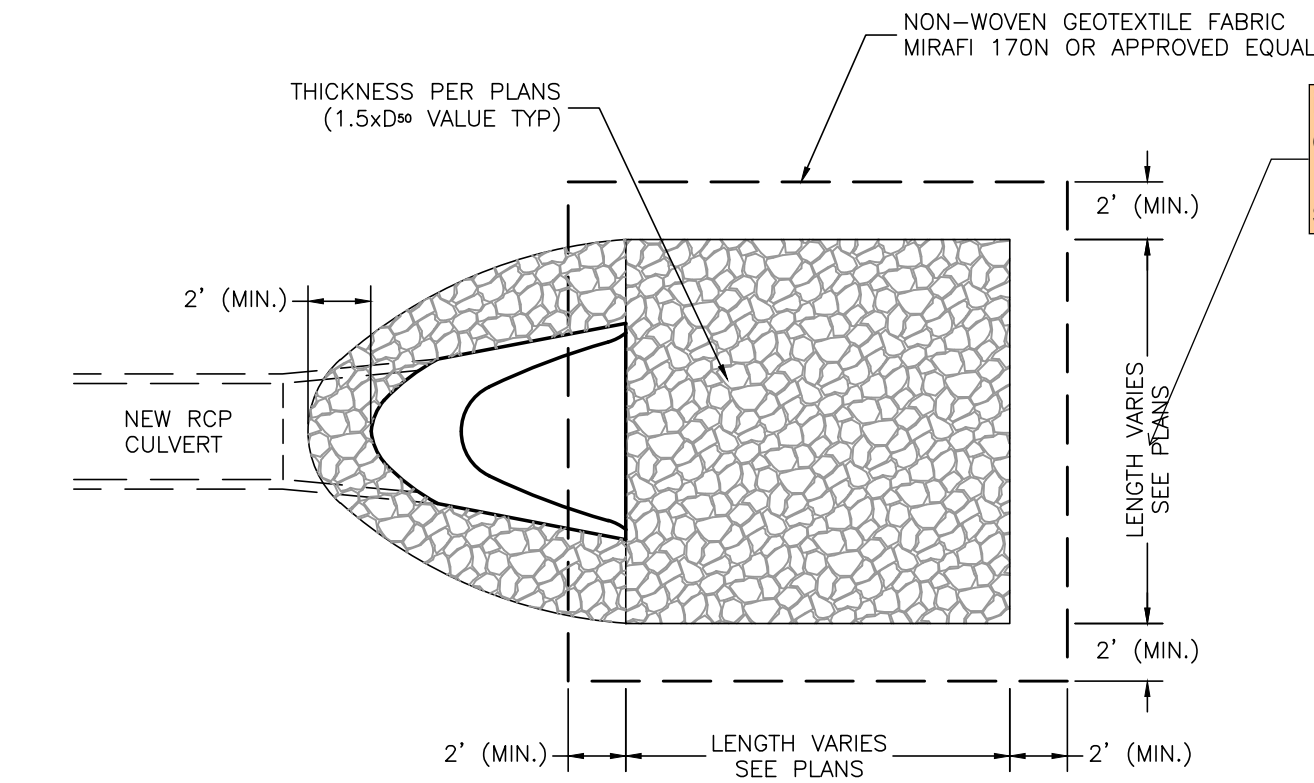
Update spillway to include soil riprap. See example provided.



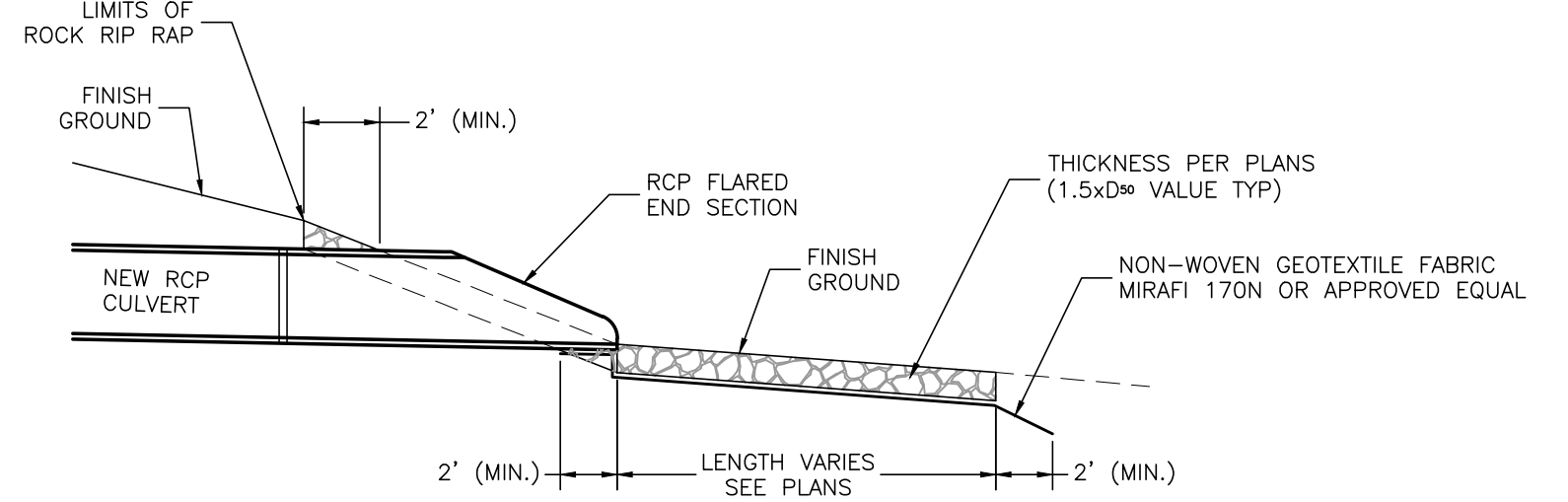
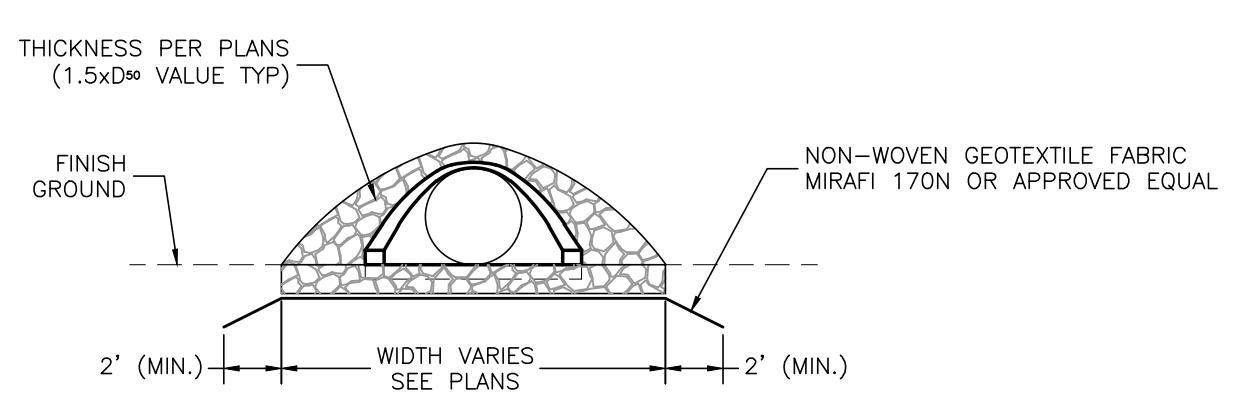
TYPICAL DETENTION POND BERM SECTION
N.T.S.



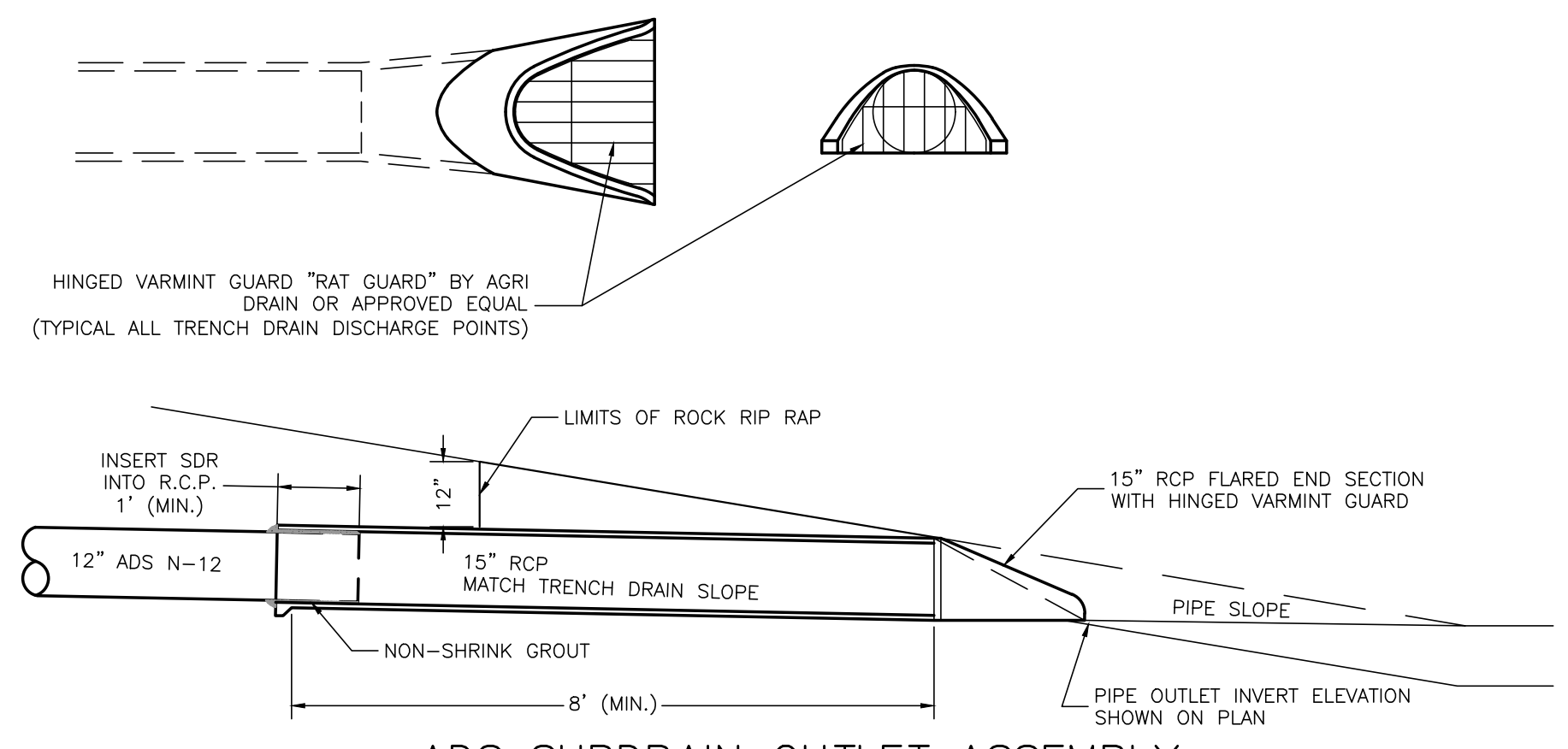
RIPPRAP INSTALLATION
N.T.S.



include site specific dimensions, type of riprap, gradation, pipe size, elevations.



RCP CULVERT OUTLET DETAIL
N.T.S.



ADS SUBDRAIN OUTLET ASSEMBLY
N.T.S.

FOX RUN SUBSTATION

DRAINAGE DETAILS

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

TRI-STATE
Generation and Transmission Association, Inc.
A Touchstone Energy/Cooperative
1100 W. 116th Ave.
P.O. Box 33890
Denver, Colorado 80233
303-452-6111

Dwn:	TMC	Date:	12/16/21
Appd:		Date:	

S9088-A-01-014

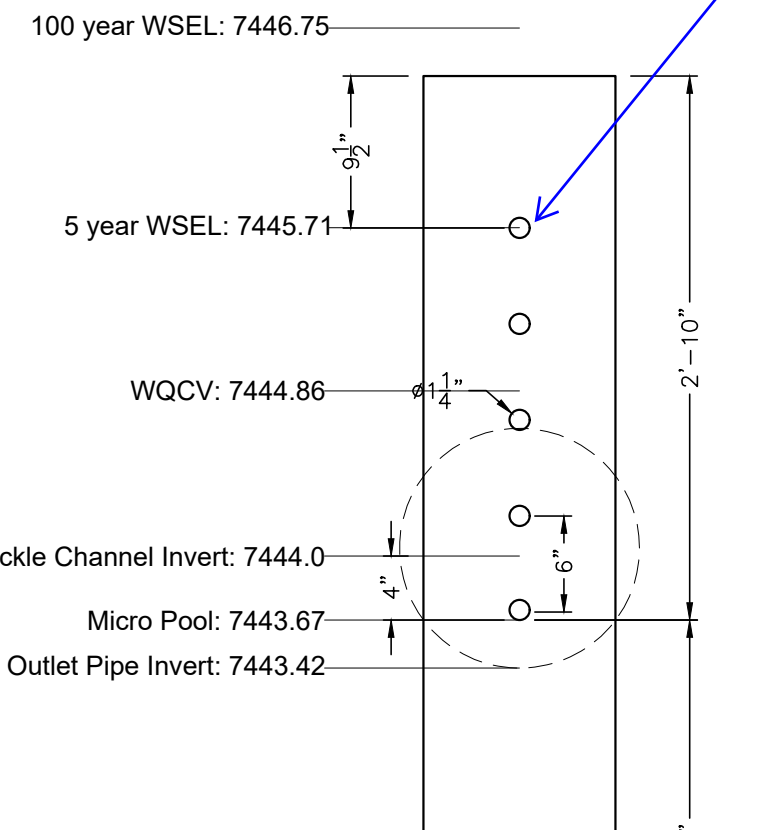
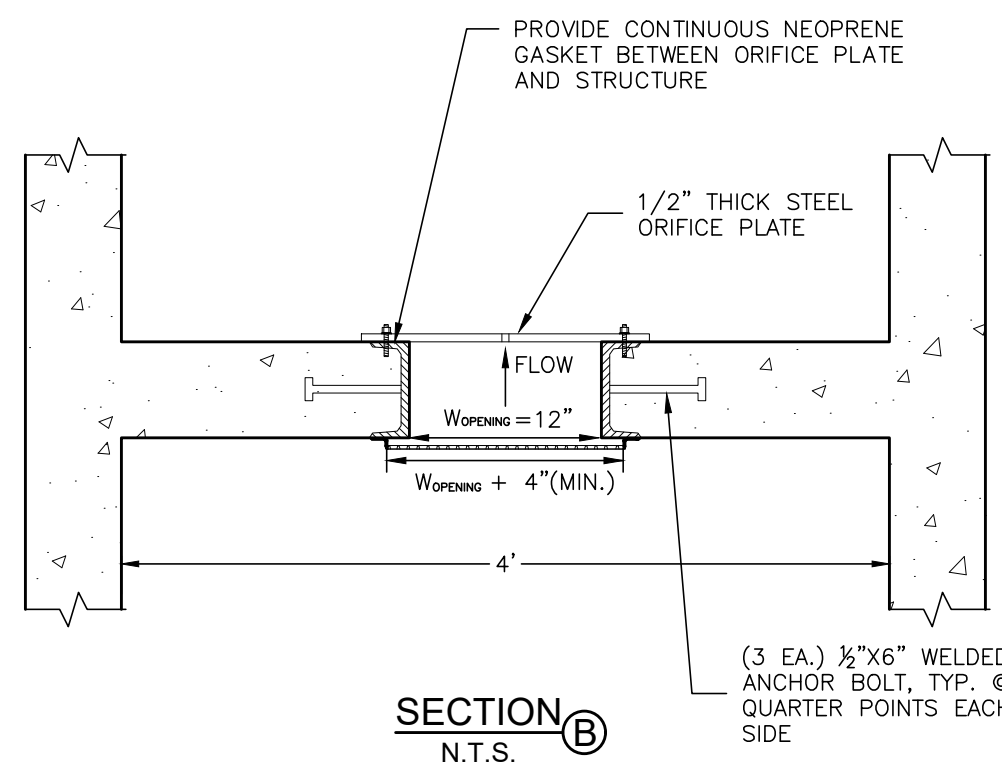
PRELIMINARY

Dwg. No.		Mgr.		Reference Drawings

No.	Date	Dwn.	Appd.	Revision
7				
6				
5				
4				
3				
2				
1				

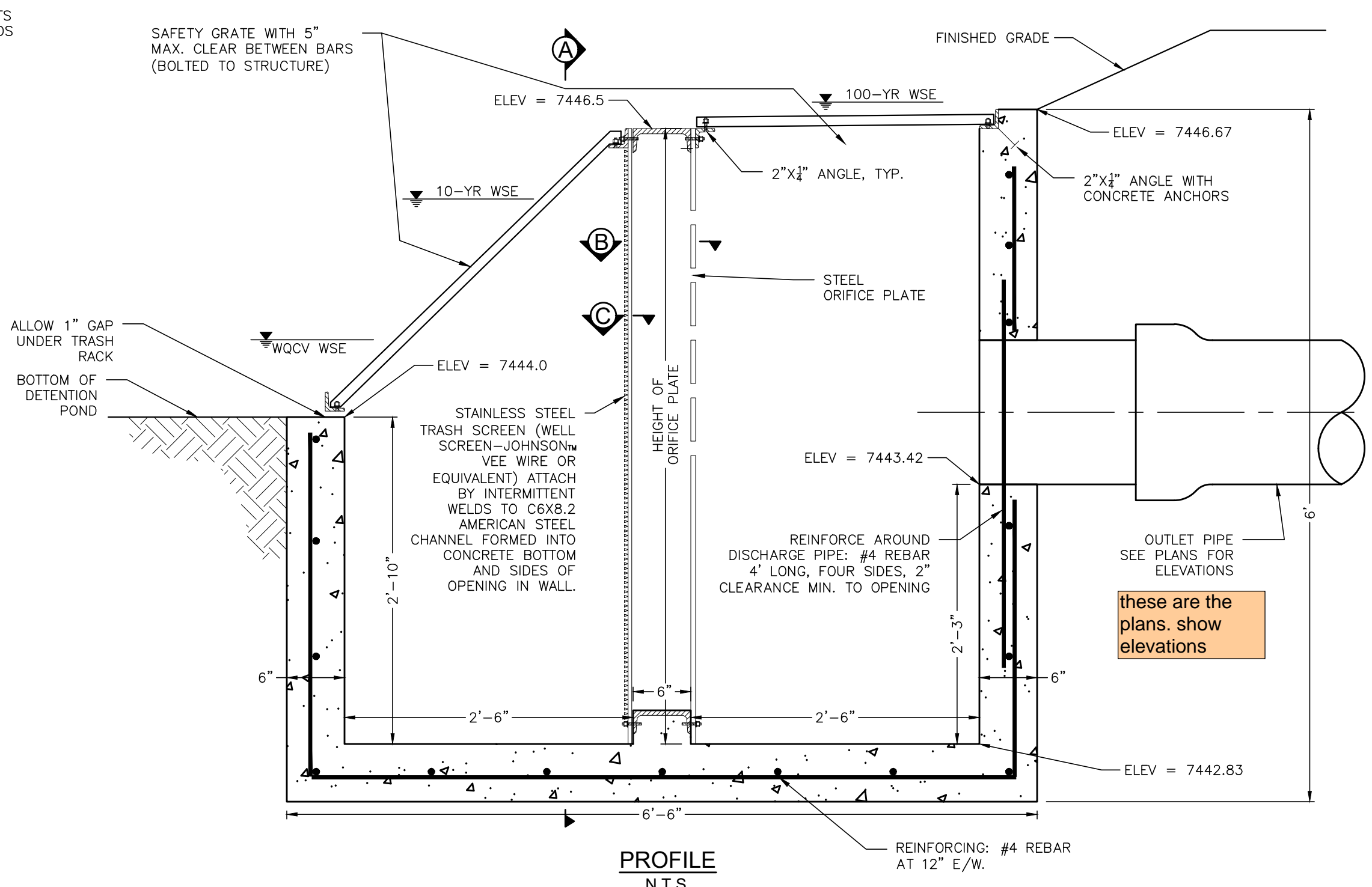
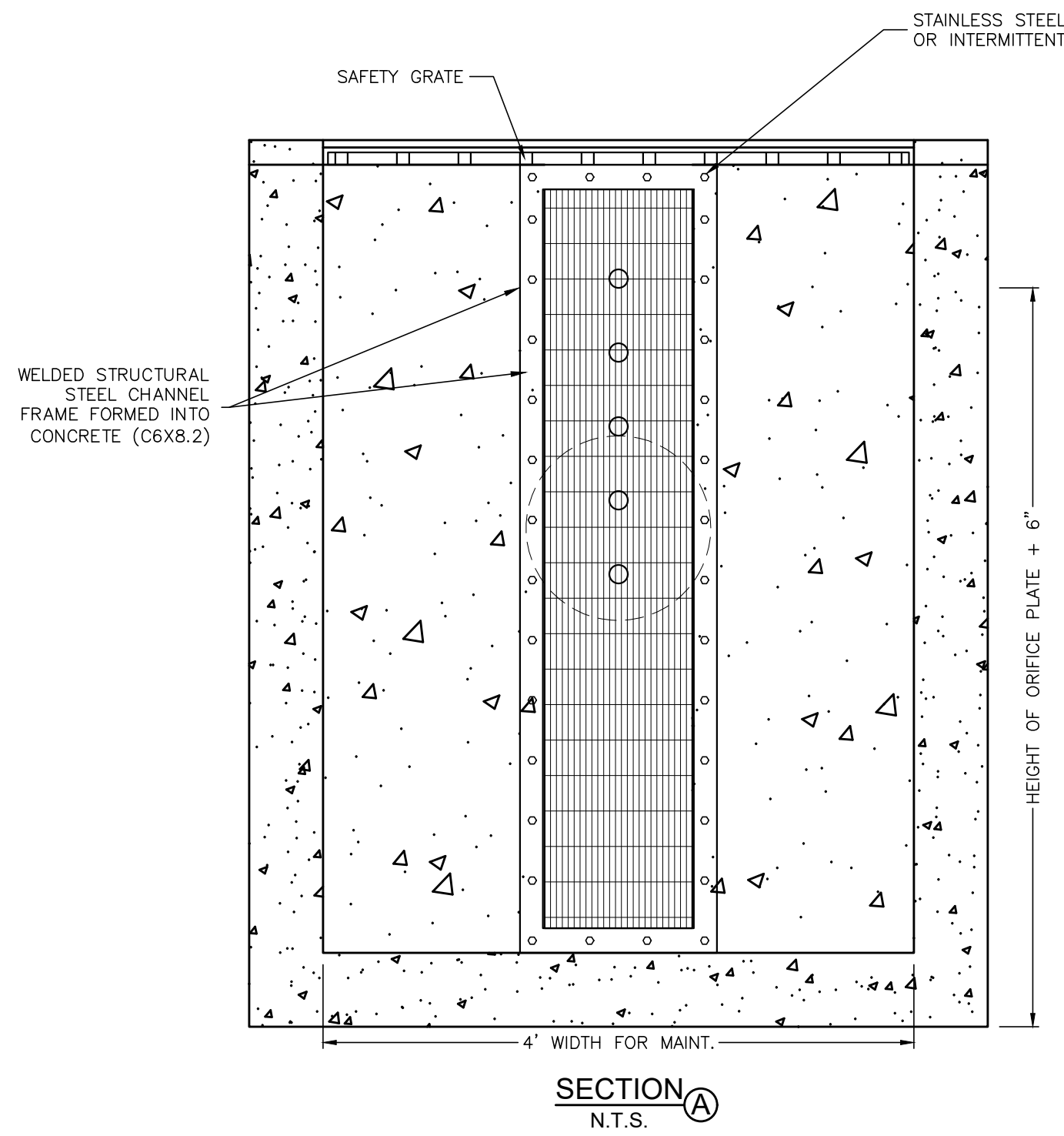
PATH: \\DMS1A\Projects\Active Projects\2021\21038-1857-Monument Sub Survey & Civil\Facility\Civil\Sheets\S9088-A-01-SHEETS.dwg

Stage of Orifice Control	Row 1 (Upstream)	Row 2 (Upstream)	Row 3 (Upstream)	Row 4 (Upstream)	Row 5 (Upstream)
Orifice Area (sq. in.)	1.22	1.22	1.22	1.22	1.22



number of orifice does not match the MHD model which only shows 4 orifice.

Additional width is needed so the plate can be bolted to the concrete since the opening is 1 ft wide.



ORIFICE PLATE NOTES:

1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.
2. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER.

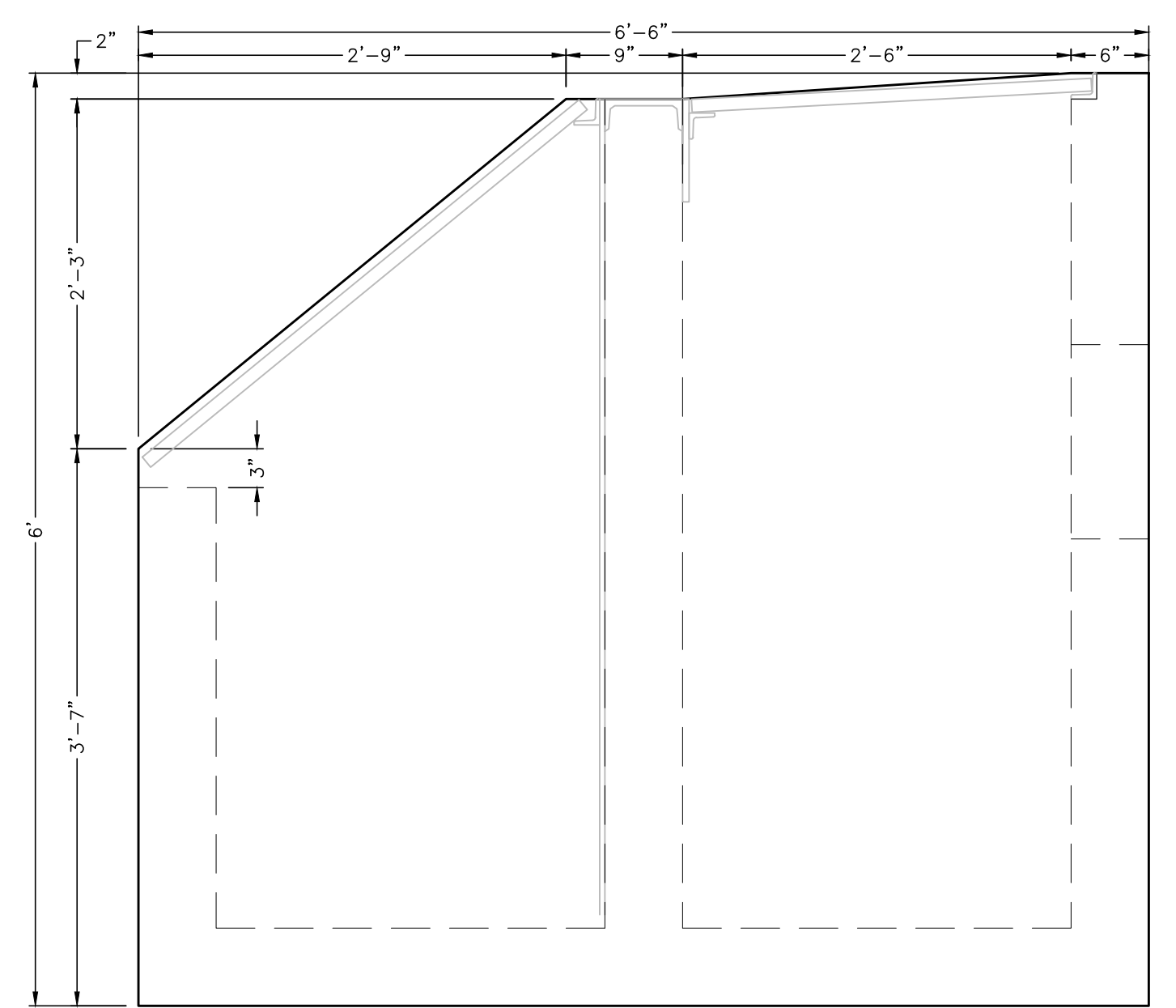
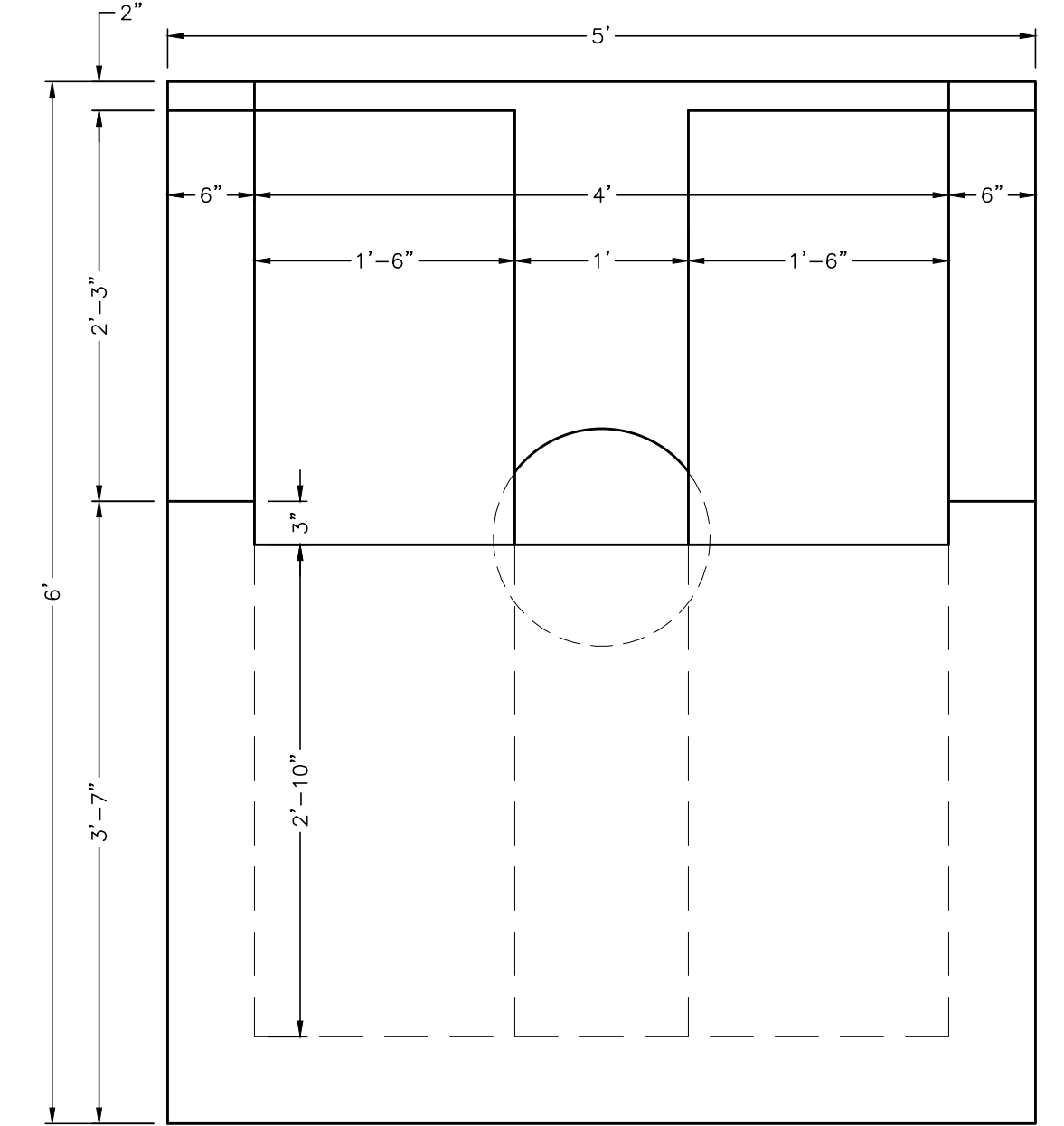
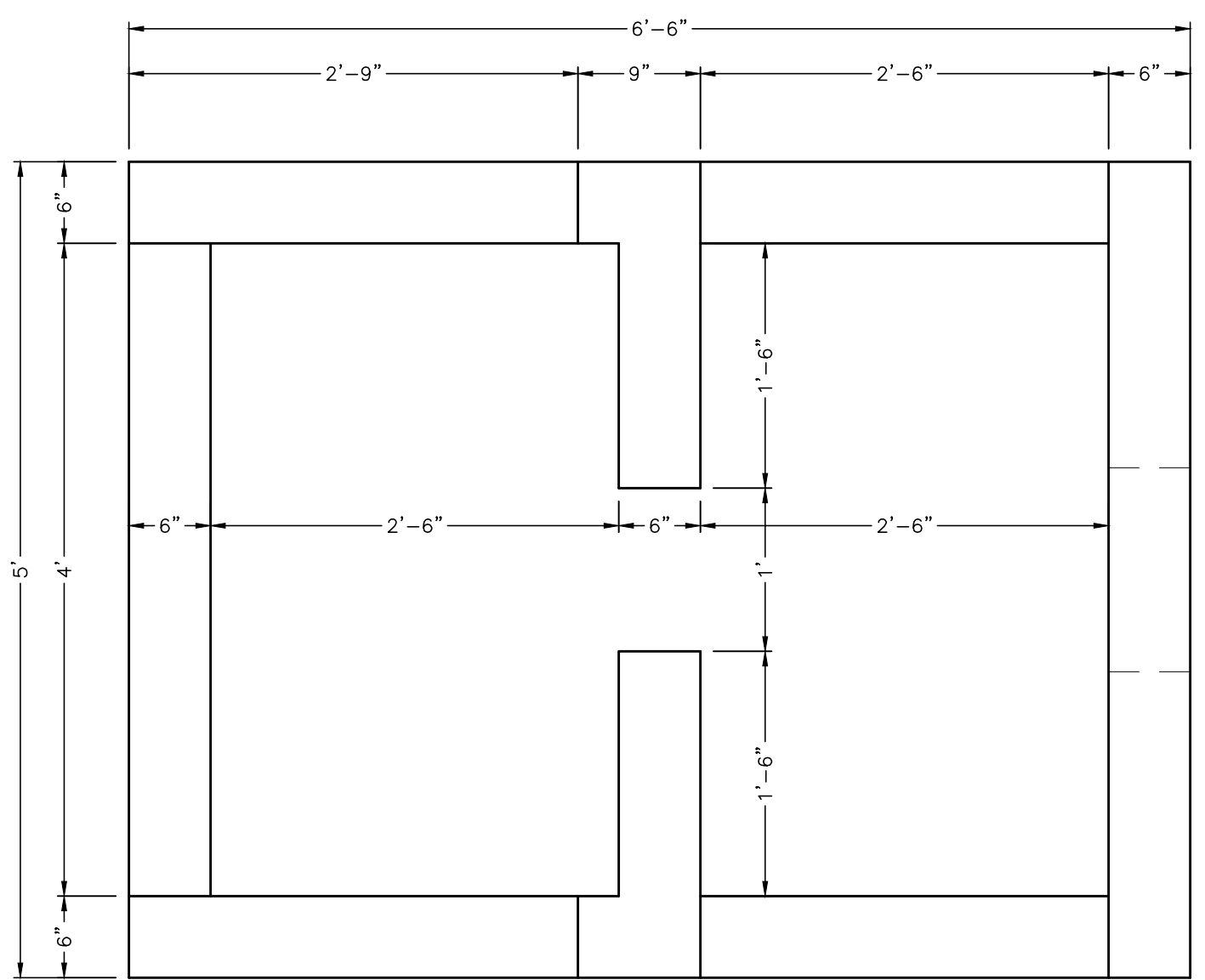
WQCV TRASH RACKS:

1. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
2. TRASH RACK OPEN AREAS ARE FOR SPECIFIED TRASH RACK MATERIALS. TOTAL TRASH RACK SIZE MAY NEED TO BE ADJUSTED FOR MATERIALS HAVING DIFFERENT OPEN AREA/GROSS AREA RATIO (R VALUE).
3. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

OVERFLOW SAFETY GRATES:

1. ALL SAFETY GRATES SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS.
2. SAFETY GRATES SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL GRATES SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
3. SAFETY GRATES SHALL BE DESIGNED SUCH THAT THE DIAGONAL DIMENSION OF EACH OPENING IS SMALLER THAN THE DIAMETER OF THE OUTLET PIPE.
4. STRUCTURAL DESIGN OF SAFETY GRATES SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

ORIFICE PLATE AND TRASH RACK DETAILS AND NOTES



CONCRETE OUTLET STRUCTURE TOP VIEW N.T.S.

CONCRETE OUTLET STRUCTURE FRONT VIEW N.T.S.

CONCRETE OUTLET STRUCTURE SIDE VIEW N.T.S.

Delete the highlighted notes. These are notes to the design engineer as they prepare the construction plans and not applicable to the contractor during construction. Calculation/design to be done by the design engineer and reflected on the construction plans.

these are the plans. show elevations

FOX RUN SUBSTATION
OUTLET STRUCTURE DETAILS

TRI-STATE Generation and Transmission Association, Inc.
1100 W. 116th Ave.
P.O. Box 33890
Denver, Colorado 80233
303-452-6111

Dwn: TMC Date: 12/16/21
Appd: Date:

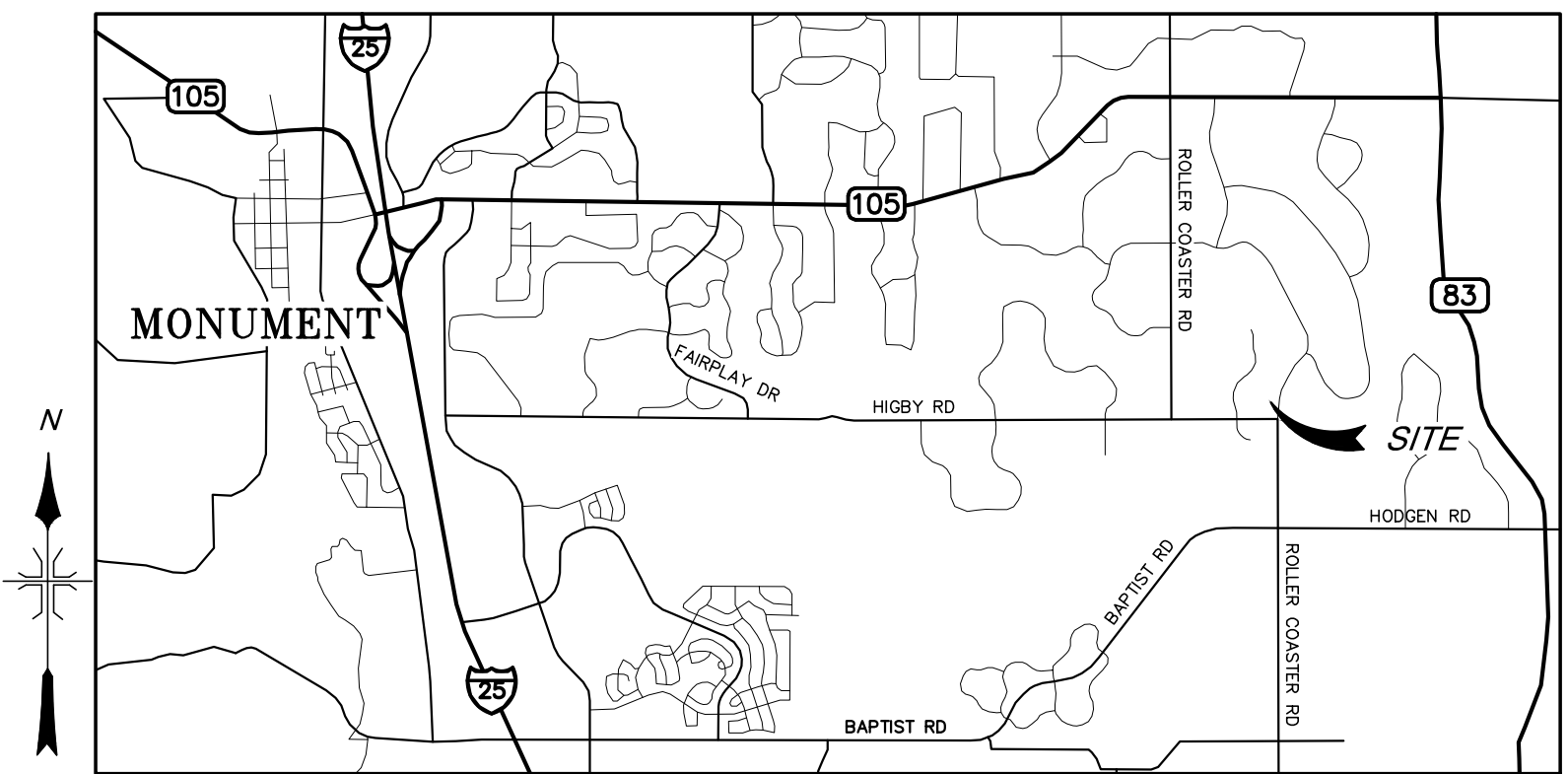
S9088-A-01-015

PRELIMINARY

STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS:

1. 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 OFF-SITE 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 FROM 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. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
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 COULD CONTRIBUTE POLLUTANTS TO STORMWATER CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
6. 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 ARE 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.
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.
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 PLANT 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 DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
10. EARTH DISTURBANCES 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 LOOSENEED PRIOR TO 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 WASHOUTS 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 OF UNCONTAMINATED GROUND WATER 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 OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
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. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
19. THE OWNER/DEVELOPER 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 DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
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 CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
22. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER 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. OWNER/DEVELOPER AND THEIR AGENTS 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 OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY 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 YEH AND ASSOCIATES AND SHALL BE CONSIDERED A PART OF THESE PLANS.
29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:
 COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
 WATER QUALITY CONTROL DIVISION
 WQCD - PERMITS
 4300 CHERRY CREEK DRIVE SOUTH
 DENVER, CO 80246-1530
 ATTN: PERMITS UNIT

if you move the GEC notes, you dont need this sheet.



VICINITY MAP
N.T.S.

Site Coordinates (Lat/Long): 39.0808, -104.7858
 Address: 401 Higby Road, Monument, CO
 Parcel Number 6121003005

move signature blocks to cover sheet

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 detailed roadway, drainage, grading and erosion control plans and specifications, and said plans and specifications are in conformity with applicable master drainage plans and master transportation plans. Said plans and specifications meet the purposes for which the particular roadway and drainage facilities are designed and are correct to the best of my knowledge and belief. I accept responsibility for any liability caused by any negligent acts, errors or omissions on my part in preparation of these detailed plans and specifications.

Engineer of Record Signature _____ Date _____

OWNER'S STATEMENT:

I, the owner/developer have read and will comply with the requirements of the grading and erosion control plan and all of the requirements specified in these detailed plans and specifications.

Owner Signature _____ Date _____

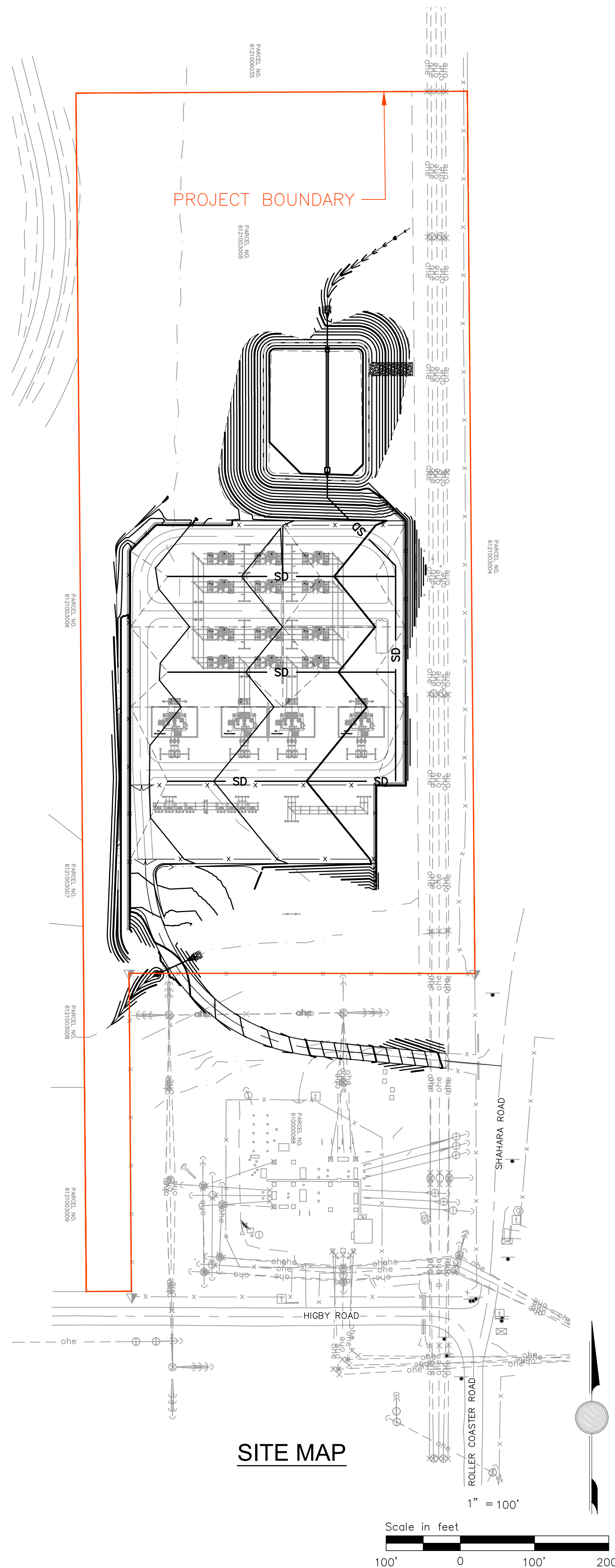
EL PASO COUNTY:

County plan review is provided only for general conformance with County Design Criteria. The County is not responsible for the accuracy and adequacy of the design, dimensions, and/ or elevations which shall be confirmed at the job site. The County through the approval of this document assumes no responsibility for completeness and/ or accuracy of this document. Filed in accordance with the requirements of the El Paso County Land Development Code, Drainage Criteria Manual Volumes 1 and 2, and Engineering Criteria Manual, as amended. 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 2 years, the plans will need to be resubmitted for approval, including payment of review fees at the Planning and Community Development Director's discretion.

County Engineer Signature/ ECM Administrator _____ Date _____

add: Joshua Palmer, P.E.

include date



SITE MAP

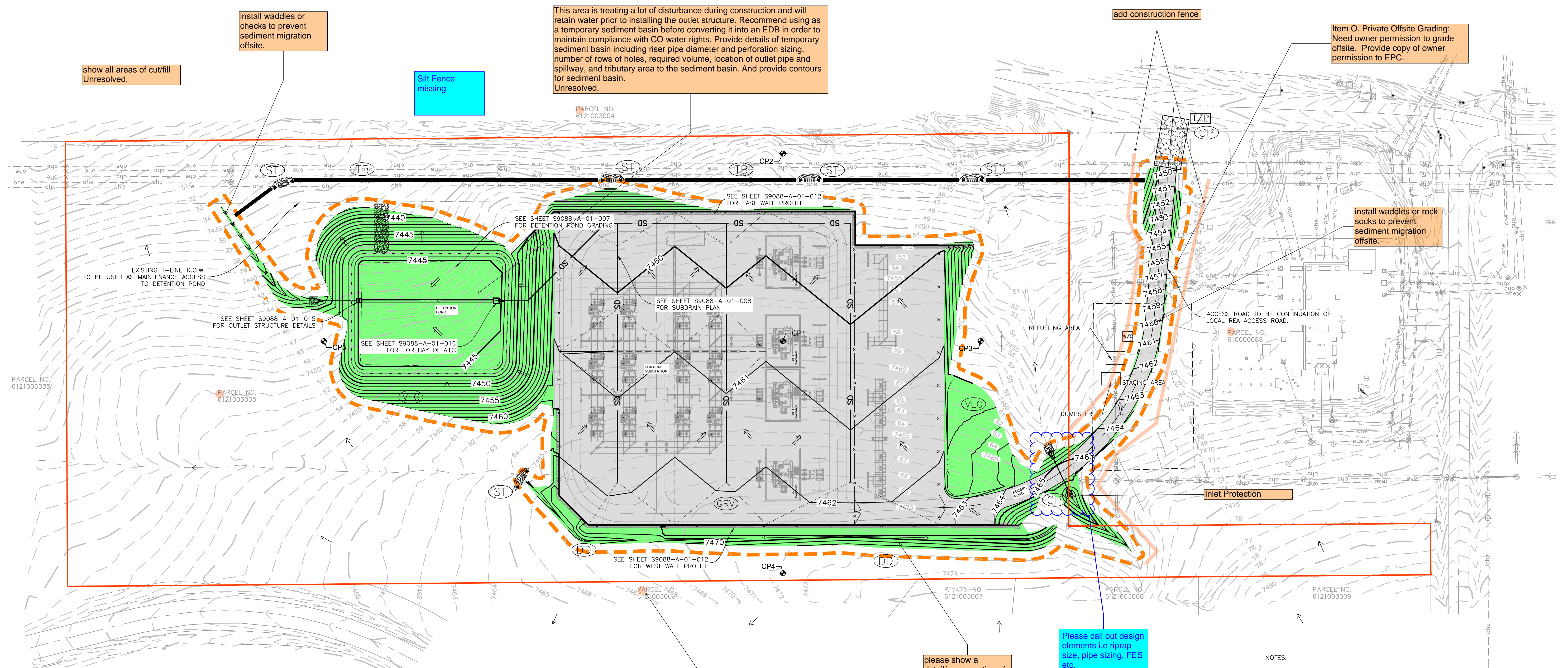


Revision		M.F.		Reference Drawings	
7					
6					
5					
4					
3					
2					
1					
No.	Date	Dwn.	Appd.	Dwg. No.	Mgr.

FOX RUN SUBSTATION
EROSION CONTROL PLAN NOTES
 TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED
 1100 W. 116th Ave.
 P.O. Box 33895
 Denver, Colorado 80233
 303-452-6111
 UPDATED BY: TC/LEMIT 10/10/2022 5:10 PM Contract: _____
 PATH: \\DMS1A\Projects\Active Projects\2021\21038-1857-Monument Sub-Survey & Civil\Facility\Civil\Sheets\93088-A-01-SHEETS.dwg

Down: TMC Date: 12/16/21
 Appd: _____ Date: _____

S9088-A-01-018
 PCD File No. PPR2244



show all areas of cut/fill
Unresolved.

install wattles or checks to prevent sediment migration offsite.

Silt Fence missing

This area is treating a lot of disturbance during construction and will retain water prior to installing the outlet structure. Recommend using as a temporary sediment basin before converting it into an EDB in order to maintain compliance with CO water rights. Provide details of temporary sediment basin including riser pipe diameter and perforation sizing, number of rows of holes, required volume, location of outlet pipe and spillway, and tributary area to the sediment basin. And provide contours for sediment basin.
Unresolved.

add construction fence

Item O. Private Offsite Grading: Need owner permission to grade offsite. Provide copy of owner permission to EPC.

install wattles or rock socks to prevent sediment migration offsite.

EXISTING T-LINE R.O.W. TO BE USED AS MAINTENANCE ACCESS TO DETENTION POND

SEE SHEET S9088-A-01-015 FOR OUTLET STRUCTURE DETAILS

SEE SHEET S9088-A-01-016 FOR FOREBAY DETAILS

SEE SHEET S9088-A-01-007 FOR DETENTION POND GRADING

SEE SHEET S9088-A-01-008 FOR SUBDRAIN PLAN

SEE SHEET S9088-A-01-012 FOR EAST WALL PROFILE

SEE SHEET S9088-A-01-012 FOR WEST WALL PROFILE

PARCEL NO. 6121006035

PARCEL NO. 6121003005

PARCEL NO. 6121003007

PARCEL NO. 6121003008

PARCEL NO. 6121003009

ACCESS ROAD TO BE CONTINUATION OF LOCAL REA ACCESS ROAD.

REFUELING AREA

STAGING AREA

DUMPSTER

VEG

Inlet Protection

- NOTES:
- EXISTING VEGETATION CONSISTS OF NATIVE GRASSES AND WEEDS AT 30-60% GROUND COVER.
 - NO BATCH PLANTS WILL BE UTILIZED ON SITE.
 - NO PART OF THE SITE LIES WITHIN THE FEMA 100 YEAR FLOODPLAIN.

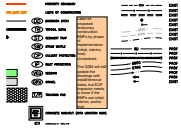
Add Silt Fence to legend

LEGEND

- | | | | | | |
|--|------------------------|--|------------------------|--|-------------------------------|
| | PROPERTY BOUNDARY | | LIMITS OF CONSTRUCTION | | EXISTING OVERHEAD POWER LINE |
| | LIMITS OF CONSTRUCTION | | | | EXISTING FENCE |
| | | | | | EXISTING CULVERT |
| | | | | | EXISTING UTILITY POLE |
| | | | | | EXISTING GUY ANCHOR |
| | | | | | EXISTING INDEX CONTOUR |
| | | | | | EXISTING INTERMEDIATE CONTOUR |
| | | | | | EXISTING DRAINAGE FLOWLINE |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Grading & Erosion Control Plan_V2.pdf Markup Summary

12/11/2022 3:05:32 PM (1)

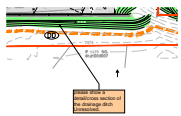


Subject: Engineer
Page Label: [19] S9088-A-01-019
Author: dotprete
Date: 12/11/2022 3:05:32 PM
Status:
Color: ■
Layer:
Space:

Label all proposed temporary construction BMPs by phase of implementation (initial, interim, final). Unresolved.

The QSM will still update the drawings with install/removal dates, but ECP Inspector needs to know if the BMPs are initial, interim, and/or final

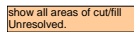
12/11/2022 3:06:02 PM (1)



Subject: Engineer
Page Label: [19] S9088-A-01-019
Author: dotprete
Date: 12/11/2022 3:06:02 PM
Status:
Color: ■
Layer:
Space:

please show a detail/cross section of the drainage ditch Unresolved.

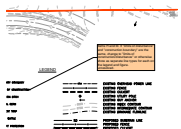
12/11/2022 3:06:09 PM (1)



Subject: Engineer
Page Label: [19] S9088-A-01-019
Author: dotprete
Date: 12/11/2022 3:06:09 PM
Status:
Color: ■
Layer:
Space:

show all areas of cut/fill Unresolved.

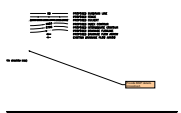
12/11/2022 3:06:44 PM (1)



Subject: Engineer
Page Label: [19] S9088-A-01-019
Author: dotprete
Date: 12/11/2022 3:06:44 PM
Status:
Color: ■
Layer:
Space:

Items H and M. If "limits of disturbance" and "construction boundary" are the same, change to "limits of construction/disturbance" or otherwise show as separate line types for each on the legend and figure. unresolved.

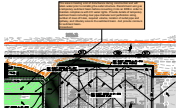
12/11/2022 3:11:26 PM (1)



Subject: Engineer
Page Label: [19] S9088-A-01-019
Author: dotprete
Date: 12/11/2022 3:11:26 PM
Status:
Color: ■
Layer:
Space:

Provide BMP details. Unresolved.

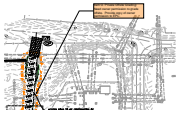
12/11/2022 3:11:55 PM (1)



Subject: Engineer
Page Label: [19] S9088-A-01-019
Author: dotprete
Date: 12/11/2022 3:11:55 PM
Status:
Color: ■
Layer:
Space:

This area is treating a lot of disturbance during construction and will retain water prior to installing the outlet structure. Recommend using as a temporary sediment basin before converting it into an EDB in order to maintain compliance with CO water rights. Provide details of temporary sediment basin including riser pipe diameter and perforation sizing, number of rows of holes, required volume, location of outlet pipe and spillway, and tributary area to the sediment basin. And provide contours for sediment basin.
Unresolved.

12/11/2022 3:12:25 PM (1)



Subject: Engineer
Page Label: [19] S9088-A-01-019
Author: dotprete
Date: 12/11/2022 3:12:25 PM
Status:
Color: ■
Layer:
Space:

Item O. Private Offsite Grading: Need owner permission to grade offsite. Provide copy of owner permission to EPC.

12/11/2022 3:14:37 PM (1)



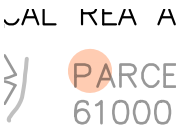
Subject: Engineer
Page Label: [19] S9088-A-01-019
Author: dotprete
Date: 12/11/2022 3:14:37 PM
Status:
Color: ■
Layer:
Space:

12/11/2022 3:14:39 PM (1)



Subject: Engineer
Page Label: [19] S9088-A-01-019
Author: dotprete
Date: 12/11/2022 3:14:39 PM
Status:
Color: ■
Layer:
Space:

12/11/2022 3:14:43 PM (1)



Subject: Engineer
Page Label: [19] S9088-A-01-019
Author: dotprete
Date: 12/11/2022 3:14:43 PM
Status:
Color: ■
Layer:
Space:

12/11/2022 3:14:46 PM (1)



Subject: Engineer
Page Label: [19] S9088-A-01-019
Author: dotprete
Date: 12/11/2022 3:14:46 PM
Status:
Color: ■
Layer:
Space:

12/11/2022 3:14:51 PM (1)



Subject: Engineer
Page Label: [19] S9088-A-01-019
Author: dotprete
Date: 12/11/2022 3:14:51 PM
Status:
Color: ■
Layer:
Space:

include subdivision names, property owners, etc.

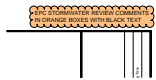
12/11/2022 3:38:32 PM (1)



Subject: Engineer
Page Label: [1] S9088-A-01-001
Author: dotprete
Date: 12/11/2022 3:38:32 PM
Status:
Color: ■
Layer:
Space:

add sheet index

12/11/2022 3:38:49 PM (1)



Subject: Stormwater Comments Color
Page Label: [1] S9088-A-01-001
Author: dotprete
Date: 12/11/2022 3:38:49 PM
Status:
Color: ■
Layer:
Space:

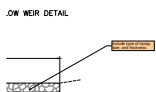
12/11/2022 3:55:40 PM (1)



Subject: Engineer
Page Label: [18] S9088-A-01-018
Author: dotprete
Date: 12/11/2022 3:55:40 PM
Status:
Color: ■
Layer:
Space:

if you move the GEC notes, you dont need this sheet.

12/11/2022 4:01:43 PM (1)



Subject: Engineer
Page Label: [14] S9088-A-01-014
Author: dotprete
Date: 12/11/2022 4:01:43 PM
Status:
Color: ■
Layer:
Space:

include type of riprap, size, and thickness

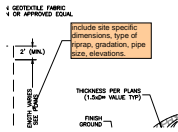
12/11/2022 4:15:58 PM (1)



Subject: Engineer
Page Label: [16] S9088-A-01-016
Author: dotprete
Date: 12/11/2022 4:15:58 PM
Status:
Color: ■
Layer:
Space:

show elevations

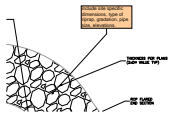
12/11/2022 4:31:52 PM (1)



Subject: Engineer
Page Label: [14] S9088-A-01-014
Author: dotprete
Date: 12/11/2022 4:31:52 PM
Status:
Color: ■
Layer:
Space:

include site specific dimensions, type of riprap, gradation, pipe size, elevations.

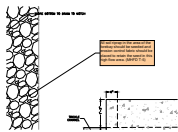
12/11/2022 4:31:59 PM (1)



Subject: Engineer
Page Label: [16] S9088-A-01-016
Author: dotprete
Date: 12/11/2022 4:31:59 PM
Status:
Color: ■
Layer:
Space:

include site specific dimensions, type of riprap, gradation, pipe size, elevations.

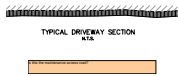
12/11/2022 4:36:33 PM (1)



Subject: Engineer
Page Label: [16] S9088-A-01-016
Author: dotprete
Date: 12/11/2022 4:36:33 PM
Status:
Color: ■
Layer:
Space:

All soil riprap in the area of the forebay should be seeded and erosion control fabric should be placed to retain the seed in this high flow area. (MHFD T-5)

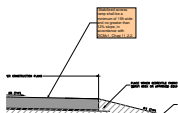
12/11/2022 4:37:27 PM (1)



Subject: Engineer
Page Label: [13] S9088-A-01-013
Author: dotprete
Date: 12/11/2022 4:37:27 PM
Status:
Color: ■
Layer:
Space:

is this the maintenance access road?

12/11/2022 4:37:54 PM (1)



Subject: Engineer
Page Label: [13] S9088-A-01-013
Author: dotprete
Date: 12/11/2022 4:37:54 PM
Status:
Color: ■
Layer:
Space:

-Stabilized access ramp shall be a minimum of 15ft wide and no greater than 12% slope, in accordance with DCMv1, Chap 11.2.2.

12/11/2022 4:39:46 PM (1)

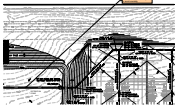
SEE PLANS FOR ELEVATIONS

these are the plans. show elevations

Subject: Engineer
Page Label: [15] S9088-A-01-015
Author: dotprete
Date: 12/11/2022 4:39:46 PM
Status:
Color: ■
Layer:
Space:

these are the plans. show elevations

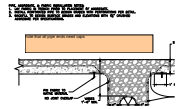
12/11/2022 4:40:39 PM (1)



Subject: Engineer
Page Label: [8] S9088-A-01-008
Author: dotprete
Date: 12/11/2022 4:40:39 PM
Status:
Color: ■
Layer:
Space:

Include control joints every ~10ft to avoid cracking

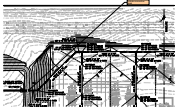
12/11/2022 4:58:51 PM (1)



Subject: Engineer
Page Label: [13] S9088-A-01-013
Author: dotprete
Date: 12/11/2022 4:58:51 PM
Status:
Color: ■
Layer:
Space:

note that all pipe ends need caps

12/11/2022 5:05:17 PM (1)



Subject: Engineer
Page Label: [8] S9088-A-01-008
Author: dotprete
Date: 12/11/2022 5:05:17 PM
Status:
Color: ■
Layer:
Space:

include connection detail

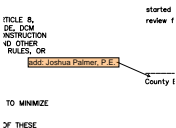
12/11/2022 5:11:17 PM (1)



Subject: Engineer
Page Label: [18] S9088-A-01-018
Author: dotprete
Date: 12/11/2022 5:11:17 PM
Status:
Color: ■
Layer:
Space:

include date

12/11/2022 5:12:39 PM (1)



Subject: Engineer
Page Label: [18] S9088-A-01-018
Author: dotprete
Date: 12/11/2022 5:12:39 PM
Status:
Color: ■
Layer:
Space:

add: Joshua Palmer, P.E.

12/11/2022 5:13:27 PM (1)



Subject: Engineer
Page Label: [18] S9088-A-01-018
Author: dotprete
Date: 12/11/2022 5:13:27 PM
Status:
Color: ■
Layer:
Space:

move signature blocks to cover sheet

12/11/2022 5:15:30 PM (1)

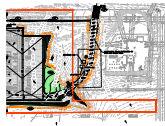


Subject: Engineer
Page Label: [5] S9088-A-01-005
Author: dotprete
Date: 12/11/2022 5:15:30 PM
Status:
Color: ■
Layer:
Space:

show all maintenance, access, drainage, utility easements.

Per ECM 3.3.4.A, areas that convey more than 15cfs should be in drainage easements. Please create drainage easements and reflect them on the plat.

12/11/2022 5:16:33 PM (1)



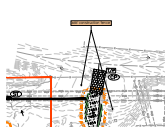
Subject: PolyLine
Page Label: [19] S9088-A-01-019
Author: dotprete
Date: 12/11/2022 5:16:33 PM
Status:
Color: ■
Layer:
Space:

12/11/2022 5:16:44 PM (1)



Subject: PolyLine
Page Label: [19] S9088-A-01-019
Author: dotprete
Date: 12/11/2022 5:16:44 PM
Status:
Color: ■
Layer:
Space:

12/11/2022 5:17:21 PM (1)



Subject: Engineer
Page Label: [19] S9088-A-01-019
Author: dotprete
Date: 12/11/2022 5:17:21 PM
Status:
Color: ■
Layer:
Space:

add construction fence

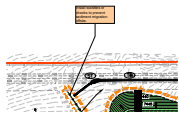
12/11/2022 5:18:06 PM (1)



Subject: Engineer
Page Label: [19] S9088-A-01-019
Author: dotprete
Date: 12/11/2022 5:18:06 PM
Status:
Color: ■
Layer:
Space:

install waddles or rock socks to prevent sediment migration offsite.

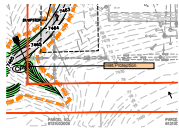
12/11/2022 5:18:39 PM (1)



Subject: Engineer
Page Label: [19] S9088-A-01-019
Author: dotprete
Date: 12/11/2022 5:18:39 PM
Status:
Color: ■
Layer:
Space:

install waddles or checks to prevent sediment migration offsite.

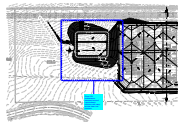
12/11/2022 5:20:21 PM (1)



Subject: Engineer
Page Label: [19] S9088-A-01-019
Author: dotprete
Date: 12/11/2022 5:20:21 PM
Status:
Color: ■
Layer:
Space:

Inlet Protection

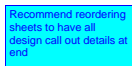
12/12/2022 6:47:35 AM (1)



Subject: Cloud+
Page Label: [4] S9088-A-01-004
Author: eschoenheit
Date: 12/12/2022 6:47:35 AM
Status:
Color: ■
Layer:
Space:

Show 15ft maintenance easement around impoundment structure with ramp access down into structure

12/6/2022 10:49:15 AM (1)



Subject: Text Box
Page Label: [1] S9088-A-01-001
Author: eschoenheit
Date: 12/6/2022 10:49:15 AM
Status:
Color: ■
Layer:
Space:

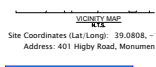
Recommend reordering sheets to have all design call out details at end

12/6/2022 6:36:53 AM (1)



Subject: File Attachment
Page Label: [2] S9088-A-01-002
Author: eschoenheit
Date: 12/6/2022 6:36:53 AM
Status:
Color: ■
Layer:
Space:

12/6/2022 6:39:10 AM (1)



Subject: Text Box
Page Label: [1] S9088-A-01-001
Author: eschoenheit
Date: 12/6/2022 6:39:10 AM
Status:
Color: ■
Layer:
Space:

Please verify address and add parcel #
6121003005
1980 E HIGBY RD

12/6/2022 6:39:13 AM (1)



Subject: Highlight
Page Label: [1] S9088-A-01-001
Author: eschoenheit
Date: 12/6/2022 6:39:13 AM
Status:
Color: ■
Layer:
Space:

address: 401 Higby Road, Monument, CO

12/6/2022 6:41:07 AM (1)



Subject: File Attachment
Page Label: [1] S9088-A-01-001
Author: eschoenheit
Date: 12/6/2022 6:41:07 AM
Status:
Color: ■
Layer:
Space:

12/6/2022 6:42:20 AM (1)



Subject: Image
Page Label: [1] S9088-A-01-001
Author: eschoenheit
Date: 12/6/2022 6:42:20 AM
Status:
Color: ■
Layer:
Space:

12/6/2022 6:42:41 AM (1)



Subject: Arrow
Page Label: [1] S9088-A-01-001
Author: eschoenheit
Date: 12/6/2022 6:42:41 AM
Status:
Color: ■
Layer:
Space:

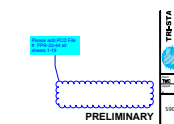
12/6/2022 7:14:19 AM (1)



Subject: Text Box
Page Label: [19] S9088-A-01-019
Author: eschoenheit
Date: 12/6/2022 7:14:19 AM
Status:
Color: ■
Layer:
Space:

Silt Fence missing

12/6/2022 7:20:57 AM (1)



Subject: Cloud+
Page Label: [1] S9088-A-01-001
Author: eschoenheit
Date: 12/6/2022 7:20:57 AM
Status:
Color: ■
Layer:
Space:

Please add PCD File # PPR-22-44 all sheets 1-19

12/6/2022 7:23:52 AM (1)



Subject: Arrow
Page Label: [2] S9088-A-01-002
Author: eschoenheit
Date: 12/6/2022 7:23:52 AM
Status:
Color: ■
Layer:
Space:

12/6/2022 7:24:58 AM (1)

Please add missing sheet index on Pg 1

Subject: Text Box
Page Label: [1] S9088-A-01-001
Author: eschoenheit
Date: 12/6/2022 7:24:58 AM
Status:
Color: ■
Layer:
Space:

Please add missing sheet index on Pg 1

12/6/2022 7:45:30 AM (1)

Add Silt Fence to legend

PROF

Subject: Text Box
Page Label: [19] S9088-A-01-019
Author: eschoenheit
Date: 12/6/2022 7:45:30 AM
Status:
Color: ■
Layer:
Space:

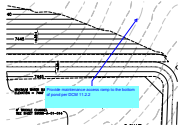
Add Silt Fence to legend

12/7/2022 4:20:51 PM (1)



Subject: Image
Page Label: [7] S9088-A-01-007
Author: dsdlaforce
Date: 12/7/2022 4:20:51 PM
Status:
Color: ■
Layer:
Space:

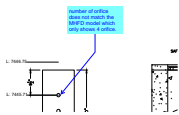
12/7/2022 4:20:56 PM (1)



Subject: Callout
Page Label: [7] S9088-A-01-007
Author: dsdlaforce
Date: 12/7/2022 4:20:56 PM
Status:
Color: ■
Layer:
Space:

Provide maintenance access ramp to the bottom of pond per DCM 11.2.2

12/7/2022 4:32:42 PM (1)



Subject: Callout
Page Label: [15] S9088-A-01-015
Author: dsdlaforce
Date: 12/7/2022 4:32:42 PM
Status:
Color: ■
Layer:
Space:


number of orifice does not match the MHFD model which only shows 4 orifice.

12/7/2022 4:33:56 PM (1)

Subject: Image
Page Label: [15] S9088-A-01-015
Author: dsdlaforce
Date: 12/7/2022 4:33:56 PM
Status:
Color: 
Layer:
Space:


12/7/2022 4:34:47 PM (1)



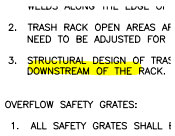
Subject: Highlight
Page Label: [15] S9088-A-01-015
Author: dsdlaforce
Date: 12/7/2022 4:34:47 PM
Status:
Color: 
Layer:
Space:


12/7/2022 4:38:16 PM (1)



Subject: Highlight
Page Label: [15] S9088-A-01-015
Author: dsdlaforce
Date: 12/7/2022 4:38:16 PM
Status:
Color: 
Layer:
Space:


12/7/2022 4:38:18 PM (1)



Subject: Highlight
Page Label: [15] S9088-A-01-015
Author: dsdlaforce
Date: 12/7/2022 4:38:18 PM
Status:
Color: 
Layer:
Space:


12/7/2022 4:38:33 PM (1)



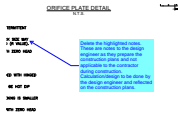
Subject: Highlight
Page Label: [15] S9088-A-01-015
Author: dsdlaforce
Date: 12/7/2022 4:38:33 PM
Status:
Color: 
Layer:
Space:

12/7/2022 4:38:40 PM (1)



Subject: Highlight
Page Label: [15] S9088-A-01-015
Author: dsdlaforce
Date: 12/7/2022 4:38:40 PM
Status:
Color: 
Layer:
Space:

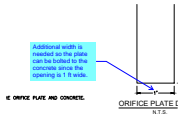
12/7/2022 4:39:04 PM (1)



Subject: Callout
Page Label: [15] S9088-A-01-015
Author: dsdlaforce
Date: 12/7/2022 4:39:04 PM
Status:
Color: ■
Layer:
Space:

Delete the highlighted notes. These are notes to the design engineer as they prepare the construction plans and not applicable to the contractor during construction. Calculation/design to be done by the design engineer and reflected on the construction plans.

12/7/2022 4:43:59 PM (1)



Subject: Callout
Page Label: [15] S9088-A-01-015
Author: dsdlaforce
Date: 12/7/2022 4:43:59 PM
Status:
Color: ■
Layer:
Space:

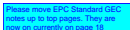
Additional width is needed so the plate can be bolted to the concrete since the opening is 1 ft wide.

12/8/2022 6:17:11 AM (1)



Subject: Unresolved
Page Label: [1] S9088-A-01-001
Author: eschoenheit
Date: 12/8/2022 6:17:11 AM
Status:
Color: ■
Layer:
Space:

12/8/2022 6:18:51 AM (1)



Subject: Text Box
Page Label: [2] S9088-A-01-002
Author: eschoenheit
Date: 12/8/2022 6:18:51 AM
Status:
Color: ■
Layer:
Space:

Please move EPC Standard GEC notes up to top pages. They are now on currently on page 18

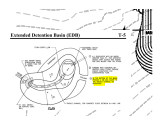
12/8/2022 6:21:28 AM (1)



Subject: Text Box
Page Label: [1] S9088-A-01-001
Author: eschoenheit
Date: 12/8/2022 6:21:28 AM
Status:
Color: ■
Layer:
Space:

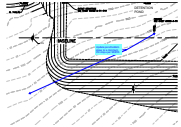
Please move signature blocks to pg 1. Currently on page 18.

12/8/2022 6:26:43 AM (1)



Subject: Image
Page Label: [7] S9088-A-01-007
Author: dsdlaforce
Date: 12/8/2022 6:26:43 AM
Status:
Color: ■
Layer:
Space:

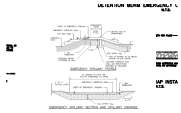
12/8/2022 6:27:54 AM (1)



Subject: Callout
Page Label: [7] S9088-A-01-007
Author: dsdlaforce
Date: 12/8/2022 6:27:54 AM
Status:
Color: ■
Layer:
Space:

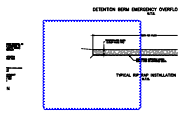
Update pond bottom slope to a minimum 3% slope per MHFD.

12/8/2022 6:34:27 AM (1)



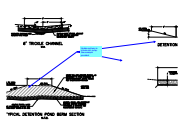
Subject: Image
Page Label: [14] S9088-A-01-014
Author: dsdlaforce
Date: 12/8/2022 6:34:27 AM
Status:
Color: ■
Layer:
Space:

12/8/2022 6:34:35 AM (1)



Subject: Cloud
Page Label: [14] S9088-A-01-014
Author: dsdlaforce
Date: 12/8/2022 6:34:35 AM
Status:
Color: ■
Layer:
Space:

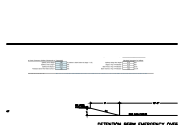
12/8/2022 6:37:18 AM (1)



Subject: Callout
Page Label: [14] S9088-A-01-014
Author: dsdlaforce
Date: 12/8/2022 6:37:18 AM
Status:
Color: ■
Layer:
Space:

Update spillway to include soil riprap. See example provided.

12/8/2022 6:38:14 AM (1)




Subject: Image
Page Label: [14] S9088-A-01-014
Author: dsdlaforce
Date: 12/8/2022 6:38:14 AM
Status:
Color: ■
Layer:
Space:

12/8/2022 6:38:21 AM (1)

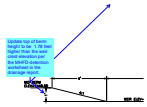



Subject: Highlight
Page Label: [14] S9088-A-01-014
Author: dsdlaforce
Date: 12/8/2022 6:38:21 AM
Status:
Color: ■
Layer:
Space:

12/8/2022 6:38:24 AM (1)

Subject: Highlight
Page Label: [14] S9088-A-01-014
Author: dsdlaforce
Date: 12/8/2022 6:38:24 AM
Status:
Color: 
Layer:
Space:

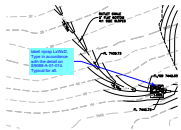
12/8/2022 6:39:32 AM (1)




Subject: Callout
Page Label: [14] S9088-A-01-014
Author: dsdlaforce
Date: 12/8/2022 6:39:32 AM
Status:
Color: 
Layer:
Space:

Update top of berm height to be 1.78 feet higher than the weir crest elevation per the MHFD-detention worksheet in the drainage report.

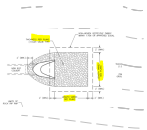
12/8/2022 6:46:04 AM (1)



Subject: Callout
Page Label: [7] S9088-A-01-007
Author: dsdlaforce
Date: 12/8/2022 6:46:04 AM
Status:
Color: 
Layer:
Space:

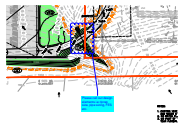
label riprap LxWxD, Type in accordance with the detail on S9088-A-01-014. Typical for all.


12/8/2022 6:46:07 AM (1)



Subject: Image
Page Label: [7] S9088-A-01-007
Author: dsdlaforce
Date: 12/8/2022 6:46:07 AM
Status:
Color: 
Layer:
Space:

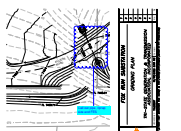
12/8/2022 8:21:24 AM (1)




Subject: Cloud+
Page Label: [19] S9088-A-01-019
Author: eschoenheit
Date: 12/8/2022 8:21:24 AM
Status:
Color: 
Layer:
Space:

Please call out design elements i.e riprap size, pipe sizing, FES etc.

12/8/2022 8:29:14 AM (1)



Subject: Cloud+
Page Label: [6] S9088-A-01-006
Author: eschoenheit
Date: 12/8/2022 8:29:14 AM
Status:
Color: 
Layer:
Space:

Call out pipe, riprap size and FES