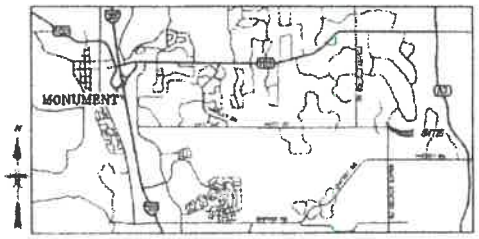
EPC STORMWATER REVIEW COMMENTS
IN ORANGE BOXES WITH BLACK TEXT



VICINITY MAP
N.T.S.

Site Coordinates (Lat/Long): 39.0808, -104.7858
Address: 17090 Shahara Road, Monument, CO
Parcel No. 6121003005

TRI-STATE

Generation and Transmission Association, Inc.

please rescan so that this sheet is legible or consider electronic signatures

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

SHEET INDEX

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51172-A-01-018	EROSION CONTROL PLAN
51172-A-01-019	EROSION CONTROL DETAILS

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

COLORADO LICENSED
KENT C. GILBERT
PROFESSIONAL ENGINEER
3/15/23

ENGINEER'S STATEMENT:

These detailed plans and specifications were prepared under my direction and supervision. Said plans and specifications have been prepared accordingly 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 3/15/23

OWNER'S STATEMENT:

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

Tri-State Generation and Transmission Association, Inc.

By: Barry W. Ingold — Date 3/16/23

Barry W. Ingold, Chief Operating Officer

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 the 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.

Joshua Palmer, P.E. — Date
County Engineer Signature/ECM Administrator

BID SET

FOX RUN SUBSTATION
COVER SHEET
TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

TRI-STATE
1100 W. 116th Ave.
P.O. Box 33695
Denver, Colorado 80233
303-452-6111

3/16/23

51172-A-01-001

PCD File No. PPR2244

GENERAL NOTES:

1. 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.
2. THE CONTRACTOR SHALL SCHEDULE WORK SUCH THAT THE DURATION OF IMPACT TO ADJACENT PUBLIC ROADS AND RIGHTS-OF-WAY IS MINIMIZED.
3. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT HIS PERSONNEL AND SUBCONTRACTOR PERSONNEL ARE AWARE OF PROPER SAFETY PROCEDURES
4. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL WATER NECESSARY FOR CONSTRUCTION.
5. 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.
6. THE CONTRACTOR SHALL COOPERATE WITH THE OWNER AND THE TESTING LABORATORY TO FACILITATE OWNER'S MANAGEMENT AND QUALITY CONTROL OF THE PROJECT CONSTRUCTION.
7. 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.
8. 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.
9. 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.
10. 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.
11. THE CONTRACTOR SHALL MAINTAIN A CLEAN AND SAFE CONSTRUCTION WORK AREA. THE CONTRACTOR SHALL PERFORM CLEAN-UP OPERATIONS ON A DAILY BASIS.
12. 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.
13. 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.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO EXISTING FACILITIES NOT DESIGNATED FOR RECONSTRUCTION OR REPLACEMENT, AT HIS EXPENSE.
15. 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.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATE REPAIR OF ANY DAMAGE TO UNDERGROUND CABLES ENCOUNTERED.
17. 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.
18. 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.
19. WORK CANNOT COMMENCE UNTIL:
    - 19.1. THE CONTRACTOR'S STORMWATER MANAGEMENT PERIMETER CONTROLS INCLUDING THE STABILIZED CONSTRUCTION ENTRANCE AND DISCHARGE POINT CONTROLS ARE IN PLACE.
    - 19.2. ALL SAFETY EQUIPMENT FOR PERSONNEL AND CONSTRUCTION EQUIPMENT IS IN PLACE AND OPERABLE.
20. A COMPLETE PROJECT SCHEDULE IS TO BE SUBMITTED WITHIN 10 DAYS OF NOTICE TO PROCEED.
21. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND RESTRICTIONS FOR SERVICING AND MAINTAINING EQUIPMENT AND DISPOSAL OF USED LUBRICANTS, ETC.

EMBANKMENT AND GRADING NOTES:

1. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGING EXISTING PAVEMENT THAT MUST REMAIN IN SERVICE. DAMAGE MUST BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
2. DESIGN CONTOURS AND SPOT ELEVATIONS SHOWN IN PLANS REPRESENT FINAL FINISHED SURFACE ELEVATIONS UNLESS OTHERWISE NOTED.
3. 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%.
4. 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 .
5. 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.
6. EARTHEN EMBANKMENTS AND TRENCH BACKFILL SHALL BE PLACED IN ACCORDANCE WITH TSGT SPECIFICATIONS.
7. 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.
8. EXPOSED SUBGRADE SHALL BE SCARIFIED AND RECOMPACTED TO THE DEPTH REQUIREMENTS IN THE PROJECT SPECIFICATIONS, PRIOR TO BEGINNING PLACEMENT OF EMBANKMENT LIFTS AND BASE MATERIAL. RECOMPACTION SHALL COMPLY WITH THE COMPACTION REQUIREMENTS IN THE PROJECT SPECIFICATIONS.
9. OVERALL ACCESS ROAD EXCAVATION AND EXCAVATION OF THE DETENTION POND ARE INCLUDED IN THE UNCLASSIFIED EXCAVATION QUANTITY.
10. APPROPRIATE GRADING SHALL BE DONE AROUND EACH END OF CULVERTS AND HEADWALLS TO INSURE THAT RUNOFF IS PROPERLY CHANNELED INTO AND OUT OF THE CULVERTS.
11. 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.
12. RIP RAP MATERIAL AND PLACEMENT SHALL BE IN COMPLIANCE WITH TSGT SPECIFICATIONS.
13. CONTRACTOR SHALL REMOVE TOPSOIL IN AREAS DESIGNATED BY TSGT AS STOCKPILE LOCATIONS PRIOR TO STOCKPILING MATERIALS OTHER THAN TOPSOIL.

TOPSOIL NOTES:

1. 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.
2. 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.
3. 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:

1. 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.
2. THE PROJECT AREA SHALL BE FREE OF ANY CONTRACTOR STOCKPILE MATERIALS UPON COMPLETION OF THE JOB UNLESS OTHERWISE DIRECTED BY THE OWNER.
3. 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.
4. THE JOB TRAILER, ALL OF THE CONSTRUCTION EQUIPMENT, AND ANY FACILITIES TEMPORARILY PLACED ON SITE FOR THE PROJECT SHALL BE REMOVED FROM THE SITE.
5. ANY PROPERTIES BELONGING TO THE OWNER SHALL BE RETURNED TO THE OWNER.
6. PROPER DRAINAGE (NO LOCALIZED PONDING) SHALL BE MAINTAINED, PRIOR TO, DURING AND AFTER MOBILIZATION.
7. DEMOBILIZATION SHALL BE DONE TO THE SATISFACTION OF THE OWNER.
8. 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.
9. ANY DAMAGE TO PROPERTIES DURING DEMOBILIZATION SHALL BE REPAIRED AND PAID FOR AT THE CONTRACTOR'S EXPENSE.
10. SAFETY REGULATIONS SHALL BE OBSERVED AT ALL TIMES DURING DEMOBILIZATION.
11. THE COST FOR DEMOBILIZATION SHALL BE CONSIDERED SUBSIDIARY TO THE PAY ITEM FOR MOBILIZATION.

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-08.01	STRIP 6" TOPSOIL AND STOCKPILE ONSITE LOCATION	6,170	CY	
2	M-08.02	EXCAVATION (IN-SITU VOLUME)	23,840	CY	
3	M-08.03	GRADE, PROCESS AND COMPACT EXISTING SURFACE AND SUB-SURFACE MATERIAL	32,690	SY	
4	M-08.04	EMBANKMENT, COMPACTED, COMPLETE, IN PLACE	19,500	CY	
5	M-08.05	IMPORT AND INSTALL 8" THICK MODIFIED CLASS 5 BASE MATERIAL, COMPACTED, COMPLETE, IN PLACE (YARD)	4,050	CY	
6	M-08.06	IMPORT AND INSTALL 3" THICK SURFACE AGGREGATE (YARD)	1,520	CY	
7	M-08.07	IMPORT AND INSTALL 12" THICK CLASS 5 BASE MATERIAL, COMPACTED, COMPLETE, IN PLACE (DRIVEWAY)	520	CY	
8	M-08.08	GEOTEXTILE FABRIC UNDERLAYER (DRIVEWAY)	1,540	SY	
9	M-08.09	12" PERFORATED ADS N-12 PIPE (SUBDRAIN). COMPLETE, IN PLACE	540	LF	
10	M-08.10	12" NON-PERFORATED ADS N-12 PIPE (SUBDRAIN). COMPLETE, IN PLACE	810	LF	
11	M-08.11	15" CLASS III REINFORCED CONCRETE PIPE (SUBDRAIN OUTLET), COMPLETE IN PLACE	8	LF	
12	M-08.12	18" CLASS III REINFORCED CONCRETE PIPE (POND OUTLET), COMPLETE IN PLACE	60	LF	
13	M-08.13	24" CLASS III REINFORCED CONCRETE PIPE (ACCESS ROAD CULVERTS), COMPLETE IN PLACE	80	LF	
14	M-08.14	FLARED END SECTION FOR 15" REINFORCED CONCRETE PIPE CULVERT	1	EA	
15	M-08.15	FLARED END SECTION FOR 18" REINFORCED CONCRETE PIPE CULVERT	1	EA	
16	M-08.16	FLARED END SECTION FOR 24" REINFORCED CONCRETE PIPE CULVERT	4	EA	
17	M-08.17	DETENTION POND CONCRETE OUTLET STRUCTURE, COMPLETE, IN PLACE	1	EA	
18	M-08.18	DETENTION POND CONCRETE FOREBAY, COMPLETE, IN PLACE	1	EA	
19	M-08.19	6' CONCRETE TRICKLE CHANNEL (DETENTION POND), COMPLETE, IN PLACE	164	LF	
20	M-08.20	STONE STRONG RETAINING WALL (PER BLOCK COUNT ON SHEET 11), INCLUDING FOOTER, COMPLETE IN PLACE	1	LS	
21	M-08.21	D50=6" RIP RAP DISCHARGE PAD, INCL. UNDERLINER, COMPLETE IN PLACE	38	SY	
22	M-08.22	D50=6" RIP RAP RUN-DOWN ARMORING, INCL. UNDERLINER, COMPLETE IN PLACE (POND SPILLWAY & SOUTH SWALE)	500	SY	
23	M-08.23	SITE RESTORATION (INCL. SURFACE GRADING AND TOPSOIL SPREADING)	1	LS	
24	M-08.24	SEEDING	3.10	AC	
25	M-08.25	CONCRETE WASHOUT (WITH LOCATION SIGN), COMPLETE, IN PLACE)	1	EA	
26	M-08.26	EROSION CONTROL BMP INSTALLATION AND MAINTENANCE FOR DURATION OF PROJECT	1	LS	
27	M-08.27	WATER TRUCK FOR DUST MITIGATION	1	EA	
28	N-08.01	CHAIN LINK FENCE W/ VINYL SLATS, COMPLETE, IN PLACE (SUBSTATION YARD)	1,600	LF	
29	N-08.02	30' WIDE CHAIN LINK FABRIC GATE (2-15' GATES, SUBSTATION YARD), COMPLETE, IN PLACE	1	EA	

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 RECEIPT 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 LOOSENED 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 PERMITTEE 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 (DATED NOV. 11, 2021) 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

BID SET

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FOX RUN SUBSTATION

CONSTRUCTION NOTES

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

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PATH: \\DMS14\Projects\Active Projects\2021\21036-TSGT Monument Sub Survey & Civil\Facility\Civil\Sheets\S1172-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

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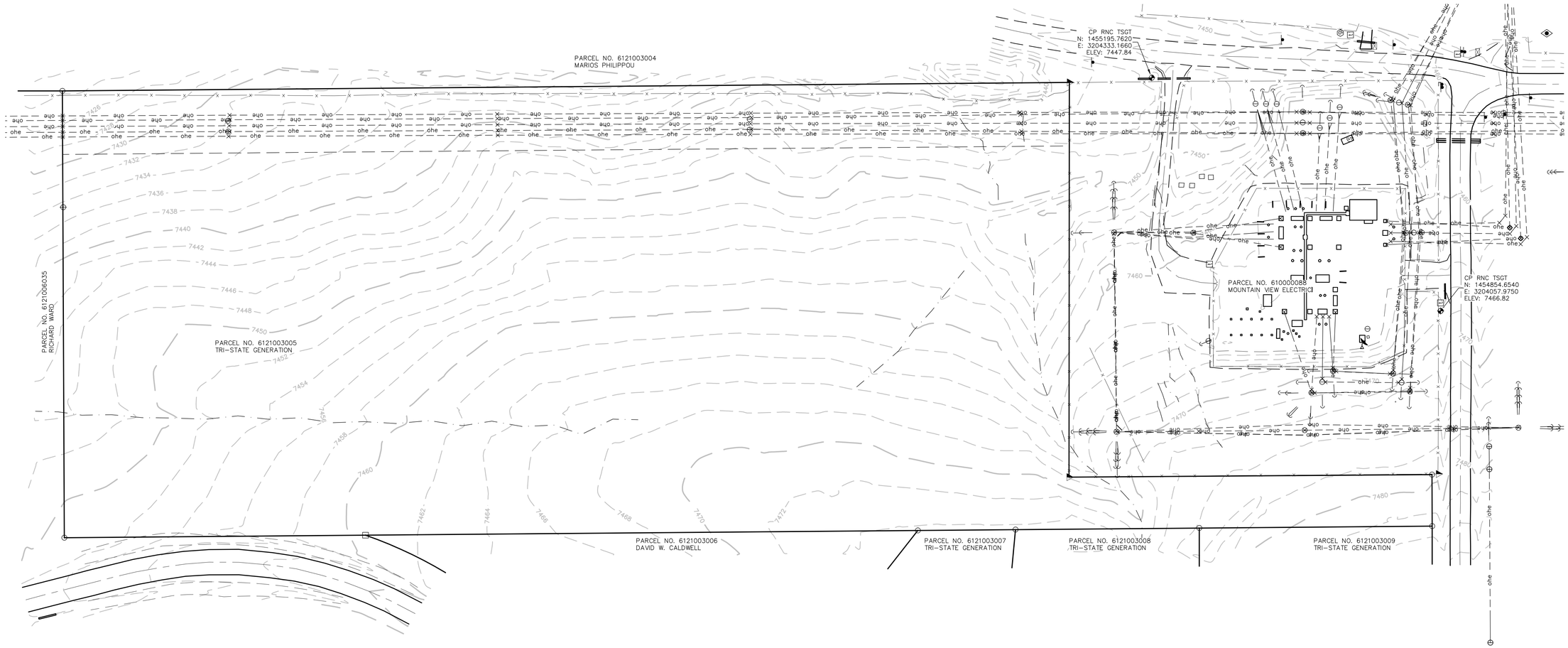
S1172-A-01-002

PCD File No. PPR2244

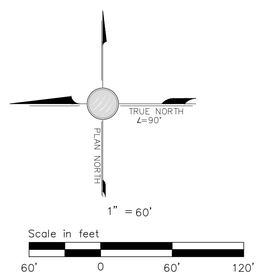


LEGEND

- 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. COORDINATE SYSTEM NAD83 COLORADO CENTRAL ZONE
2. SCALE FACTOR 1.0003608453



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Drawing Title
Mfgr.
Reference Drawings
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FOX RUN SUBSTATION

EXISTING CONDITIONS

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

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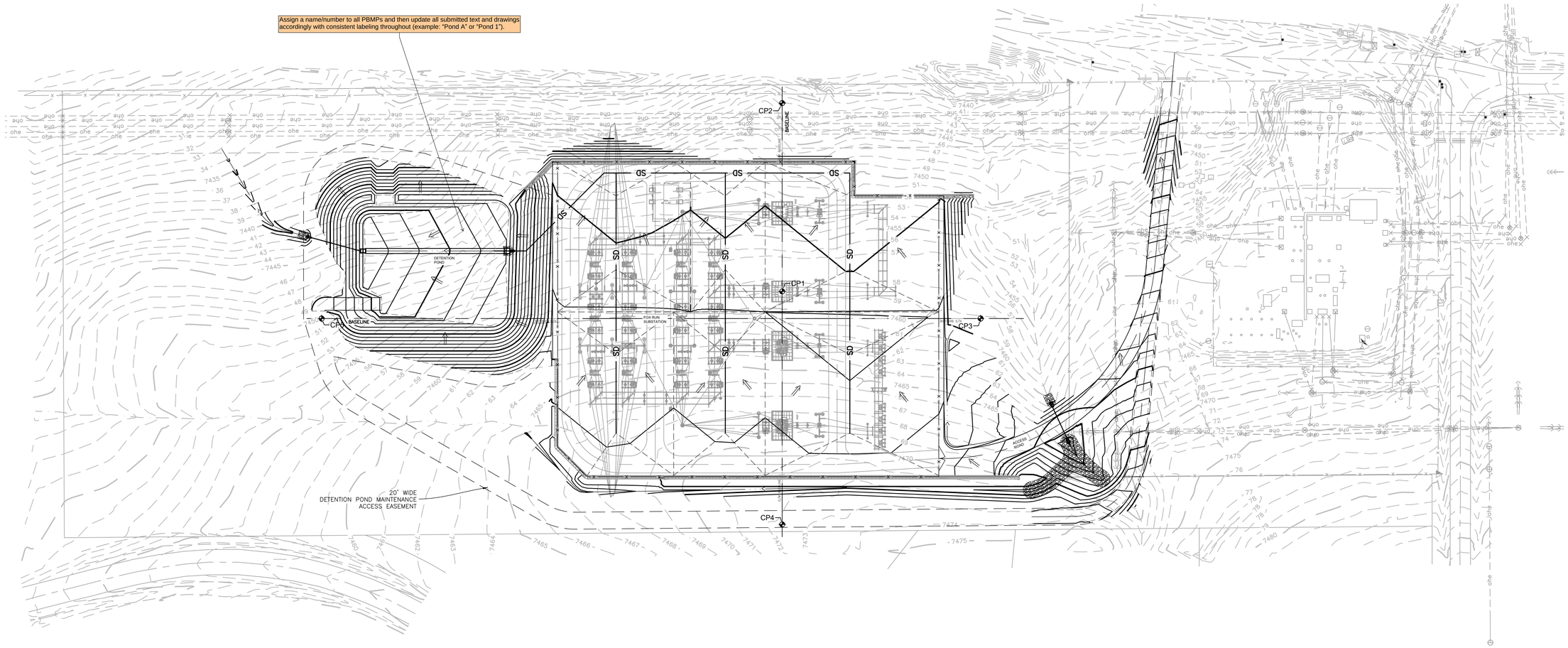
S1172-A-01-003

PCD File No. PPR2244

call out proposed East and West Walls

show section lines associated with Sheets S1172-A-01-010 and S1172-A-01-011

Assign a name/number to all PBMPs and then update all submitted text and drawings accordingly with consistent labeling throughout (example: "Pond A" or "Pond 1").



LEGEND

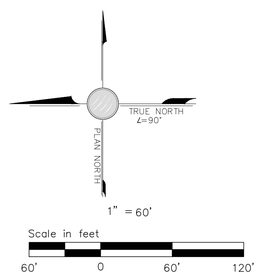
- EXISTING PROPERTY FENCE
- EXISTING UNDERGROUND POWER
- EXISTING COUNTY ROAD R.O.W.
- EXISTING CULVERT
- PROPOSED SUBDRAIN
- PROPOSED CULVERT
- PROPOSED GRADE BRAKE LINE
- PROPOSED SUBSTATION FENCE
- PROPOSED DRAINAGE FLOWLINE
- PROPOSED RIPRAP

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	3204048.98
5004	CP4	1455632.15	3203805.94
5005	CP5	1456175.92	3204048.98



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FOX RUN SUBSTATION

OVERALL SITE

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

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P.O. Box 33695
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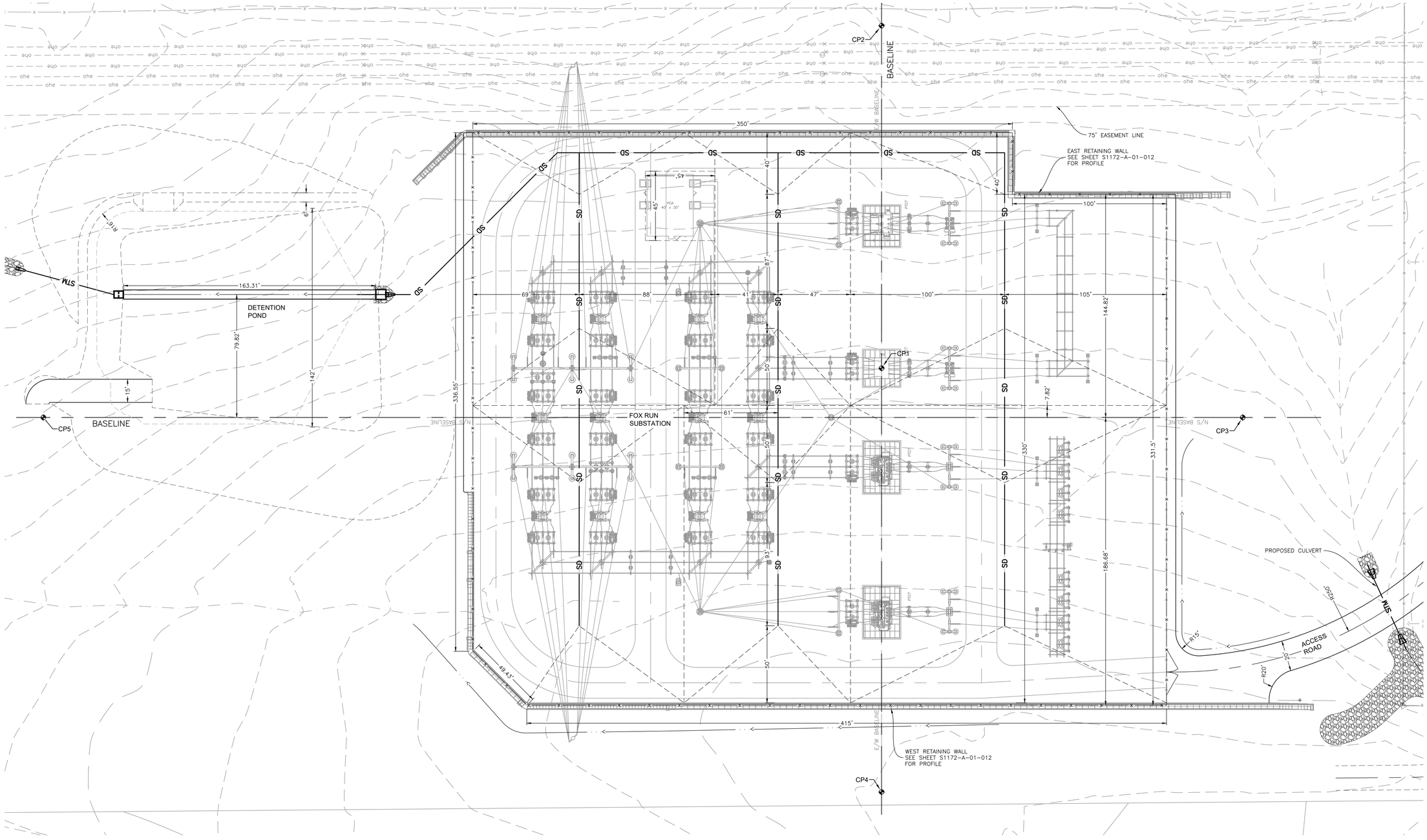
S1172-A-01-004

PCD File No. PPR2244



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:

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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	3204048.98
5004	CP4	1455632.15	3203805.94
5005	CP5	1456175.92	3204048.98

TRUE NORTH
$\angle$=90°
PLAN NORTH

1" = 30'

Scale in feet
30' 0 30' 60'

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Drawing Title
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FOX RUN SUBSTATION
SITE LAYOUT

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

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S1172-A-01-005

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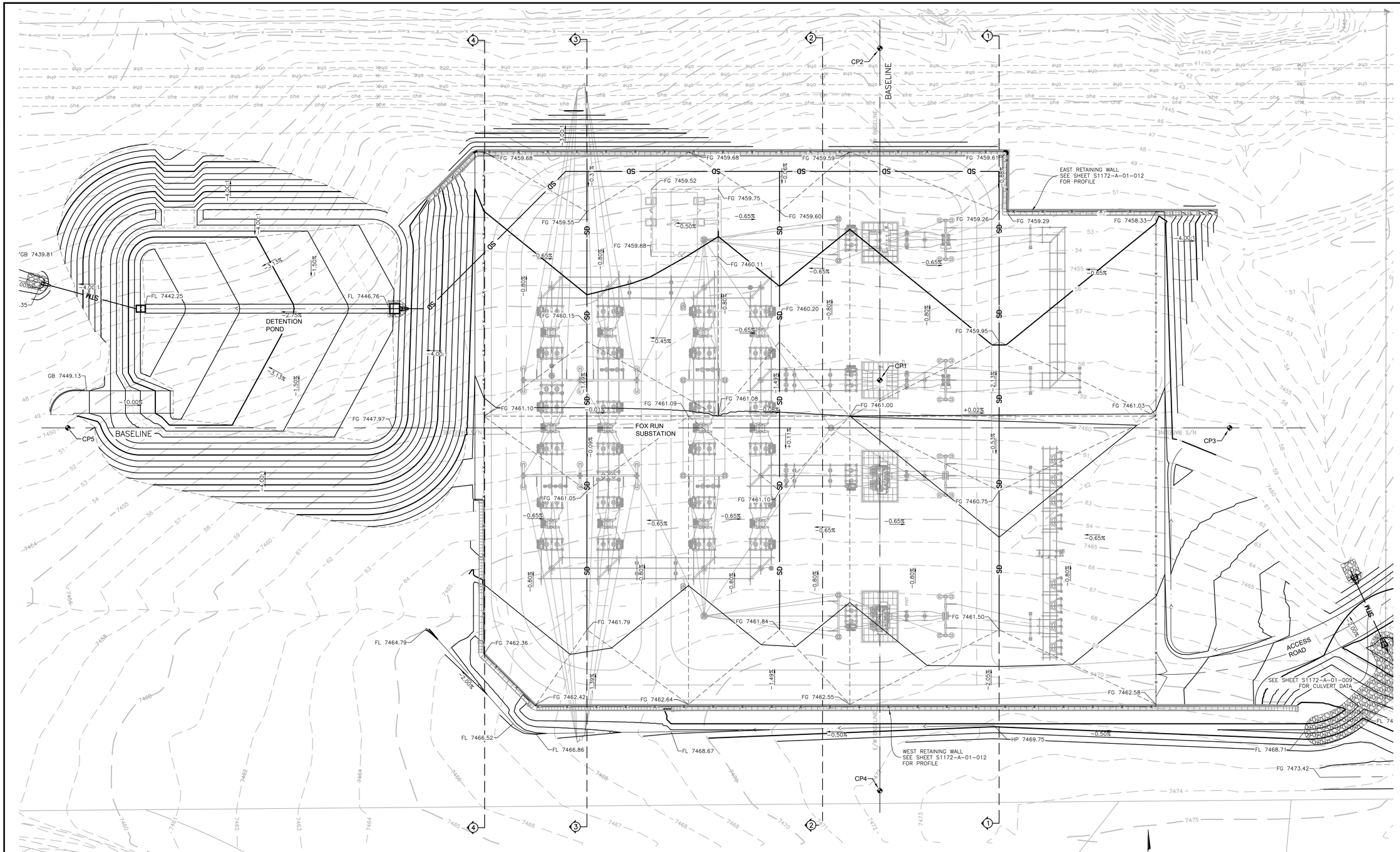

LEGEND

- 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:

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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	3204048.98
5004	CP4	1455632.15	3203805.94
5005	CP5	1456175.92	3204048.98

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FOX RUN SUBSTATION
GRADING PLAN

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

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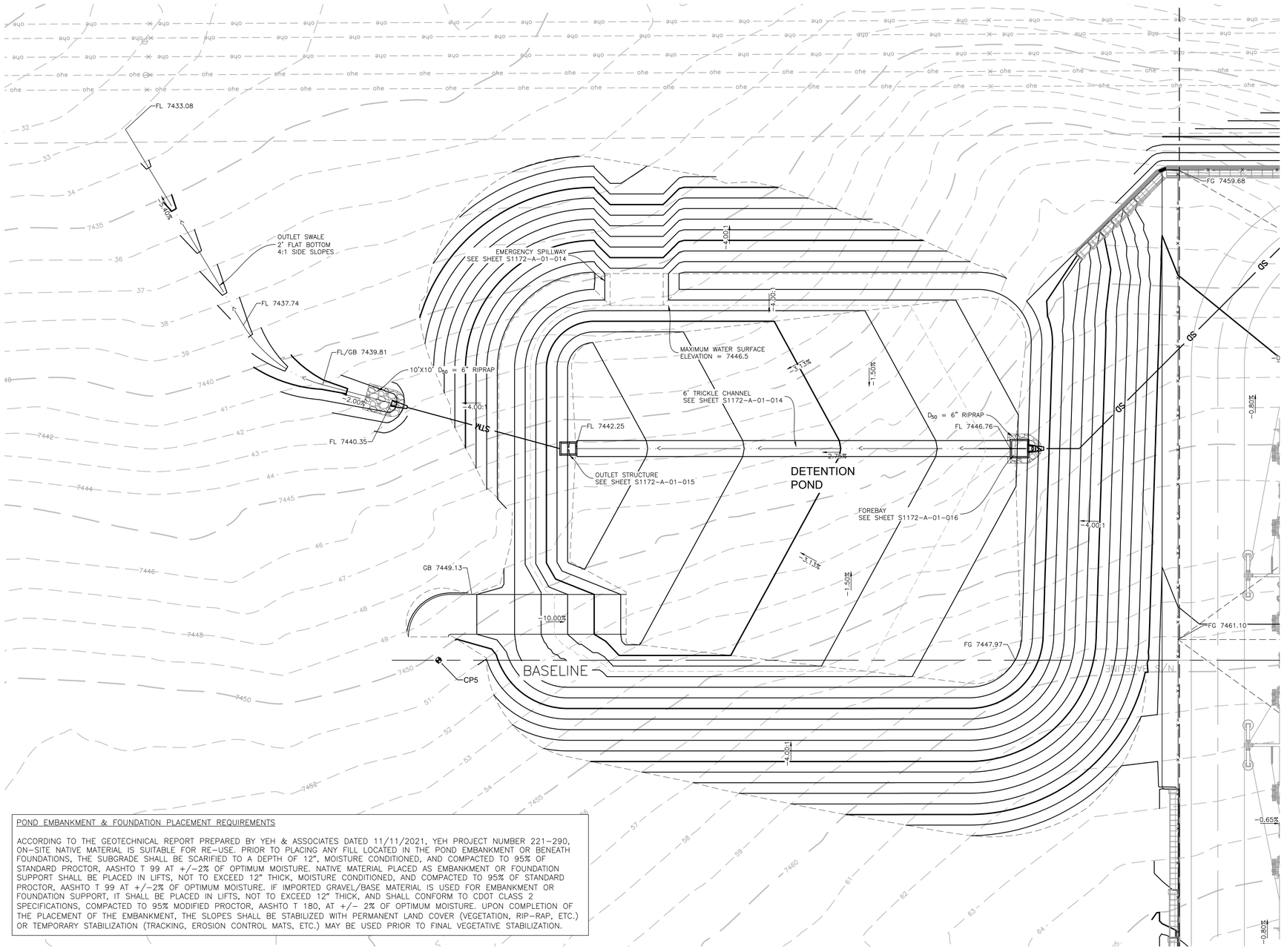
S1172-A-01-006

PCD File No. PPR2244



POND EMBANKMENT & FOUNDATION PLACEMENT REQUIREMENTS

ACCORDING TO THE GEOTECHNICAL REPORT PREPARED BY YEH & ASSOCIATES DATED 11/11/2021, YEH PROJECT NUMBER 221-290, ON-SITE NATIVE MATERIAL IS SUITABLE FOR RE-USE. PRIOR TO PLACING ANY FILL LOCATED IN THE POND EMBANKMENT OR BENEATH FOUNDATIONS, THE SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF 12", MOISTURE CONDITIONED, AND COMPACTED TO 95% OF STANDARD PROCTOR, AASHTO T 99 AT +/-2% OF OPTIMUM MOISTURE. NATIVE MATERIAL PLACED AS EMBANKMENT OR FOUNDATION SUPPORT SHALL BE PLACED IN LIFTS, NOT TO EXCEED 12" THICK, MOISTURE CONDITIONED, AND COMPACTED TO 95% OF STANDARD PROCTOR, AASHTO T 99 AT +/-2% OF OPTIMUM MOISTURE. IF IMPORTED GRAVEL/BASE MATERIAL IS USED FOR EMBANKMENT OR FOUNDATION SUPPORT, IT SHALL BE PLACED IN LIFTS, NOT TO EXCEED 12" THICK, AND SHALL CONFORM TO CDOT CLASS 2 SPECIFICATIONS, COMPACTED TO 95% MODIFIED PROCTOR, AASHTO T 180, AT +/- 2% OF OPTIMUM MOISTURE. UPON COMPLETION OF THE PLACEMENT OF THE EMBANKMENT, THE SLOPES SHALL BE STABILIZED WITH PERMANENT LAND COVER (VEGETATION, RIP-RAP, ETC.) OR TEMPORARY STABILIZATION (TRACKING, EROSION CONTROL MATS, ETC.) MAY BE USED PRIOR TO FINAL VEGETATIVE STABILIZATION.

LEGEND

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

NOTE:

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Construction Control Point Table

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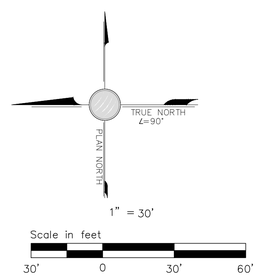
5003	CP3	1455397.89	3204048.98
5004	CP4	1455632.15	3203805.94
5005	CP5	1456175.92	3204048.98



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Mfgr. Reference Drawings
Dwg. No.
M.F.
Revision

FOX RUN SUBSTATION

DETENTION POND GRADING

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A Touchstone Energy Cooperative
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S1172-A-01-007

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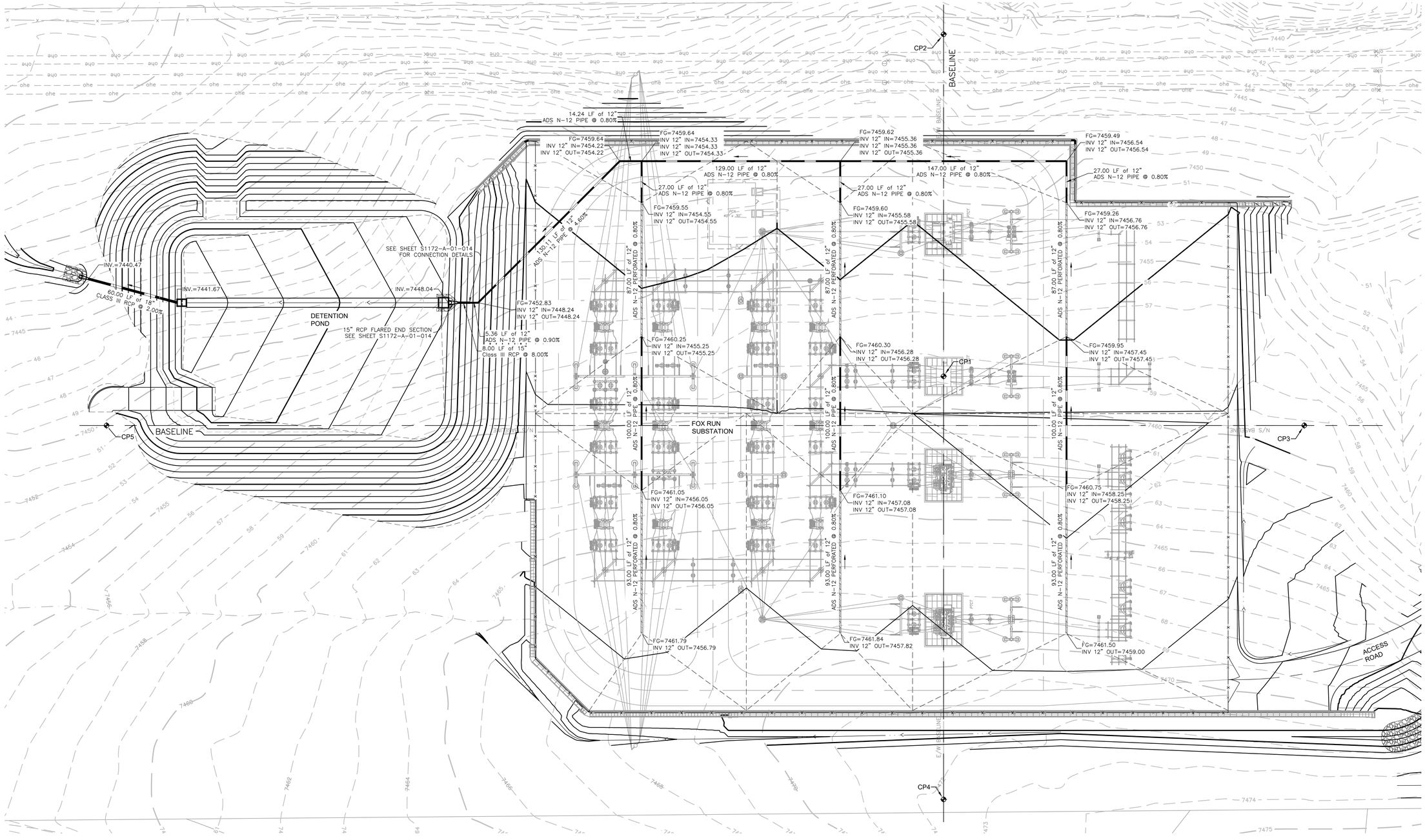

LEGEND

- EXISTING PROPERTY FENCE
- EXISTING UNDERGROUND POWER
- EXISTING COUNTY ROAD R.O.W.
- EXISTING CULVERT
- PROPOSED SUBDRAIN
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- PROPOSED SUBSTATION FENCE
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- PROPOSED RIPRAP

NOTE:

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5004	CP4	1455632.15	3203805.94
5005	CP5	1456175.92	3204048.98

TRUE NORTH ∠=90°
PLAN NORTH
1" = 30'

Scale in feet
30' 0 30' 60'

BID SET

Drawing Title
Dwg. No. | Mfgr. | Reference Drawings

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No. | Date | Dwn. | Appd.
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FOX RUN SUBSTATION
SUBDRAIN PLAN

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

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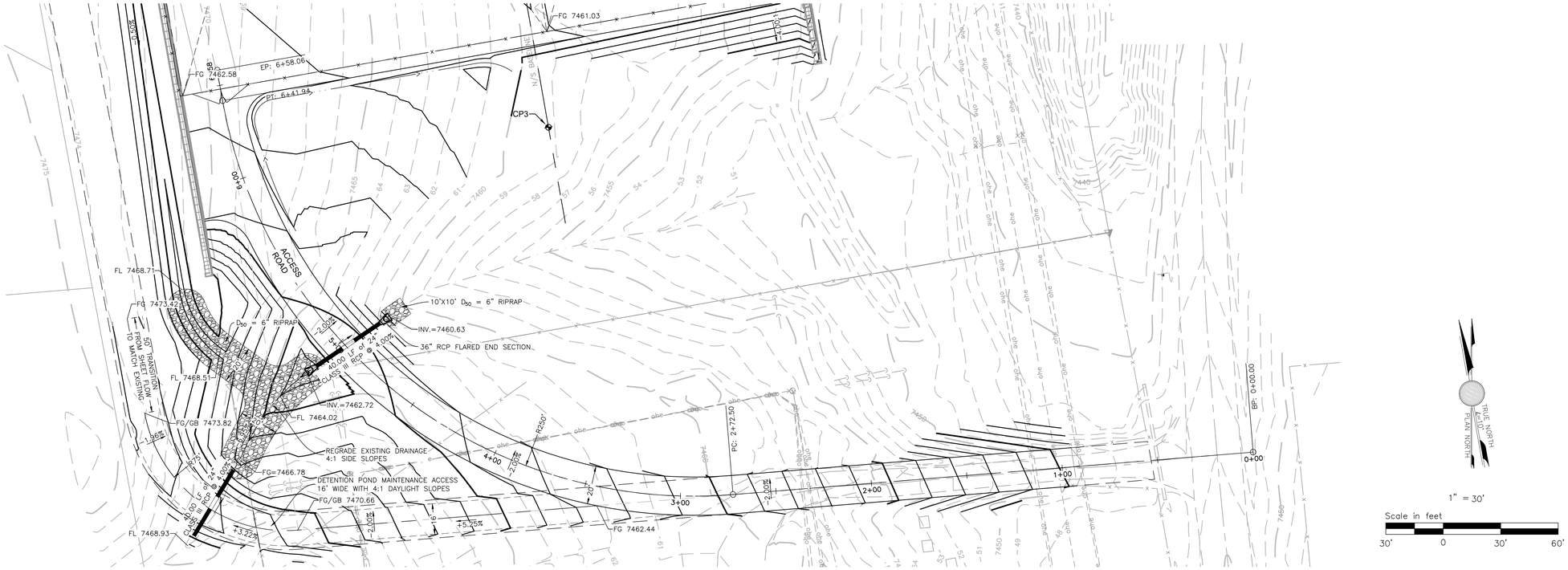
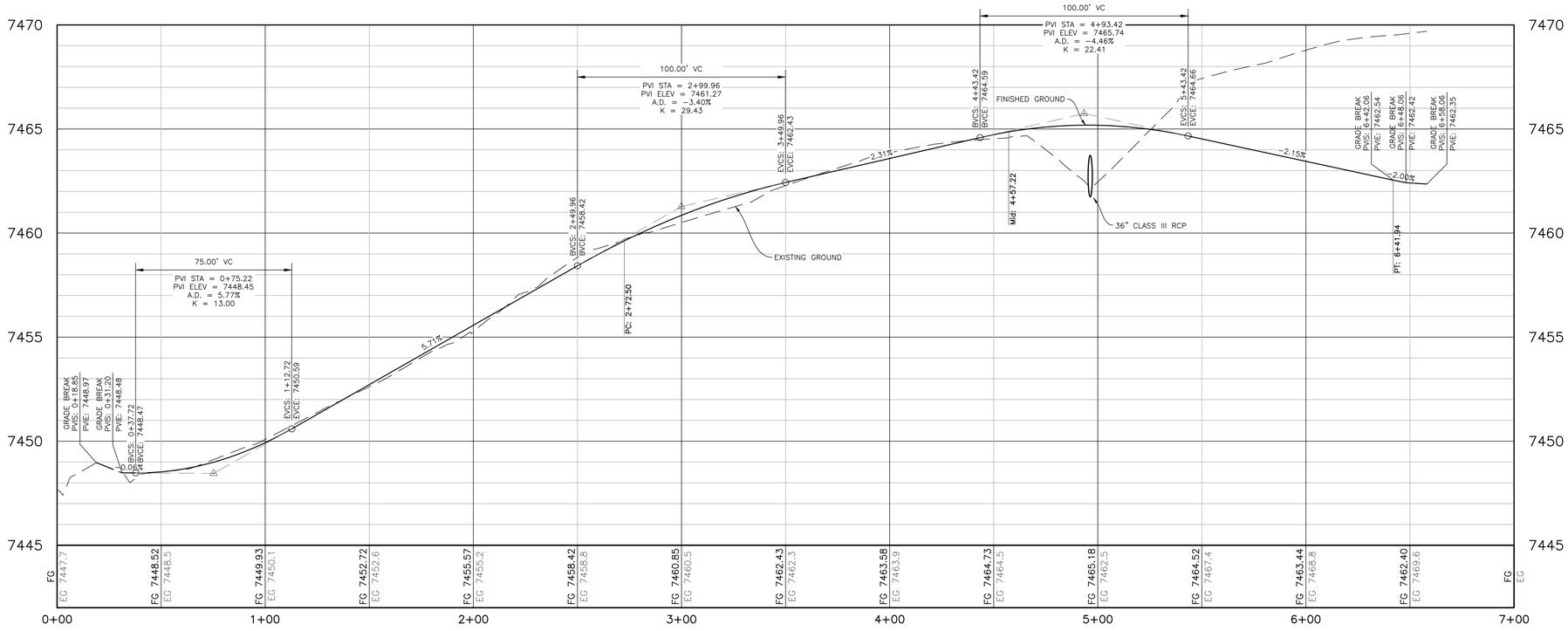
S1172-A-01-008

PCD File No. PPR2244





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Revision

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Dwg. No.

FOX RUN SUBSTATION

ACCESS DRIVEWAY PLAN & PROFILE

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

UPDATED BY: TCLEMENT 3/14/2023 12:01 PM Contract:

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S1172-A-01-009

PCD File No. PPR2244

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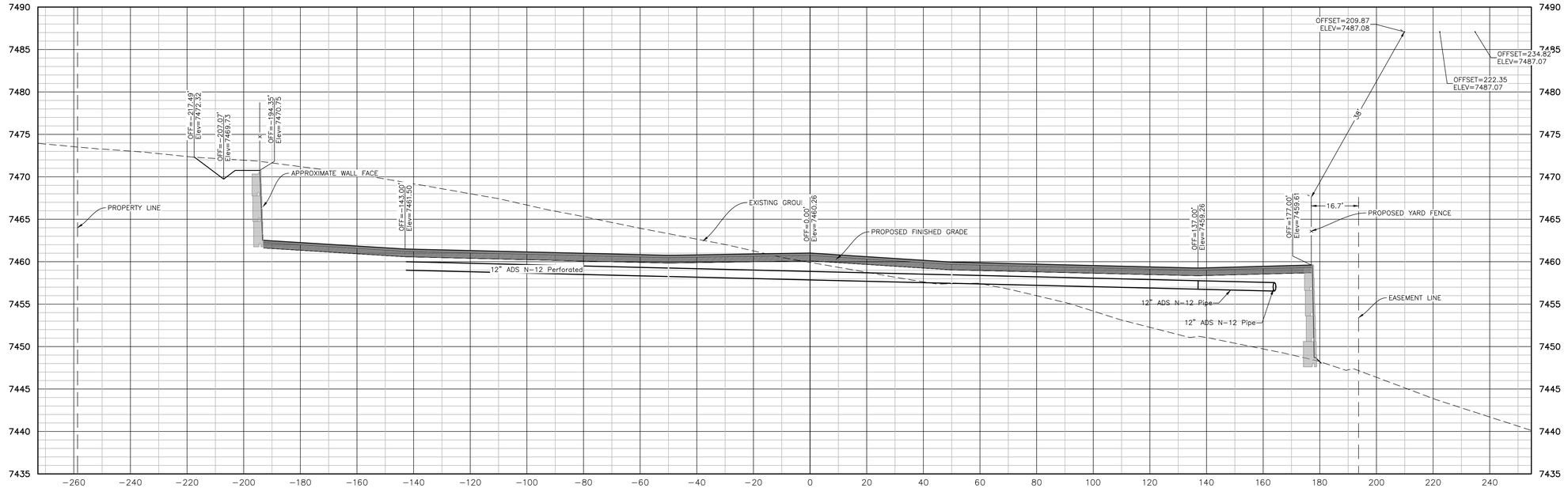
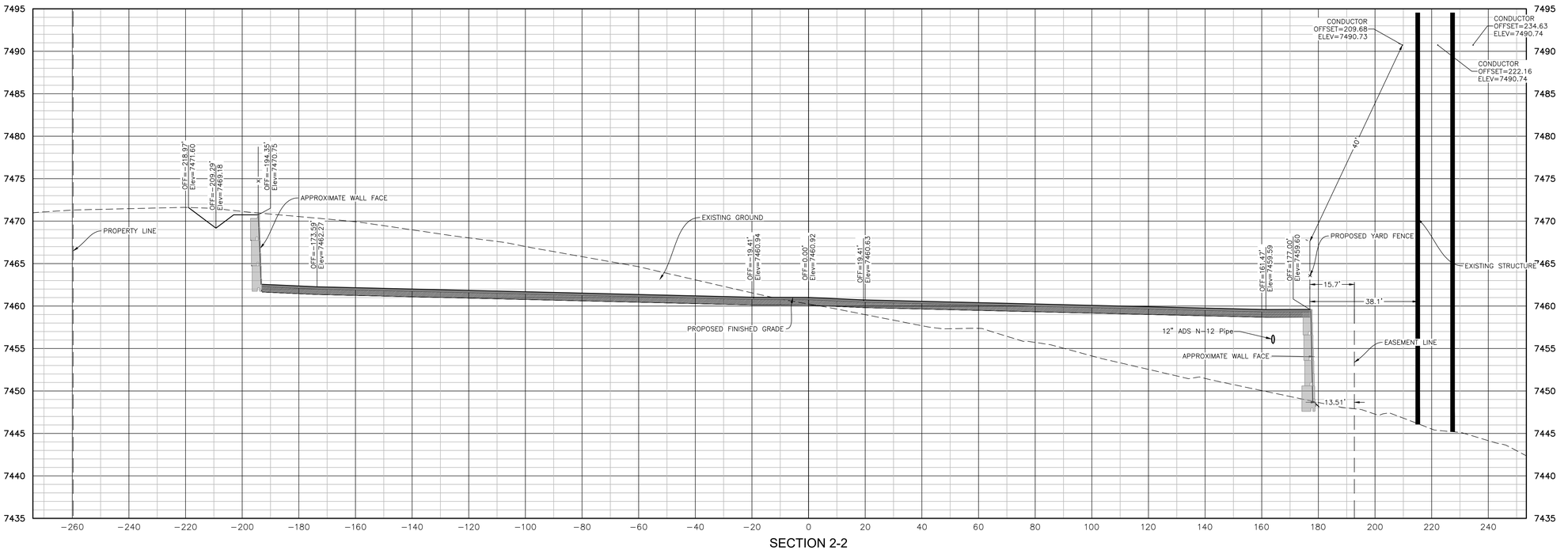


SECTION 1-1



SECTION 2-2

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Revision

FOX RUN SUBSTATION

YARD SECTIONS

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

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303-452-6111

Dwn:	Date:
TMC	3/06/23
Appd:	Date:
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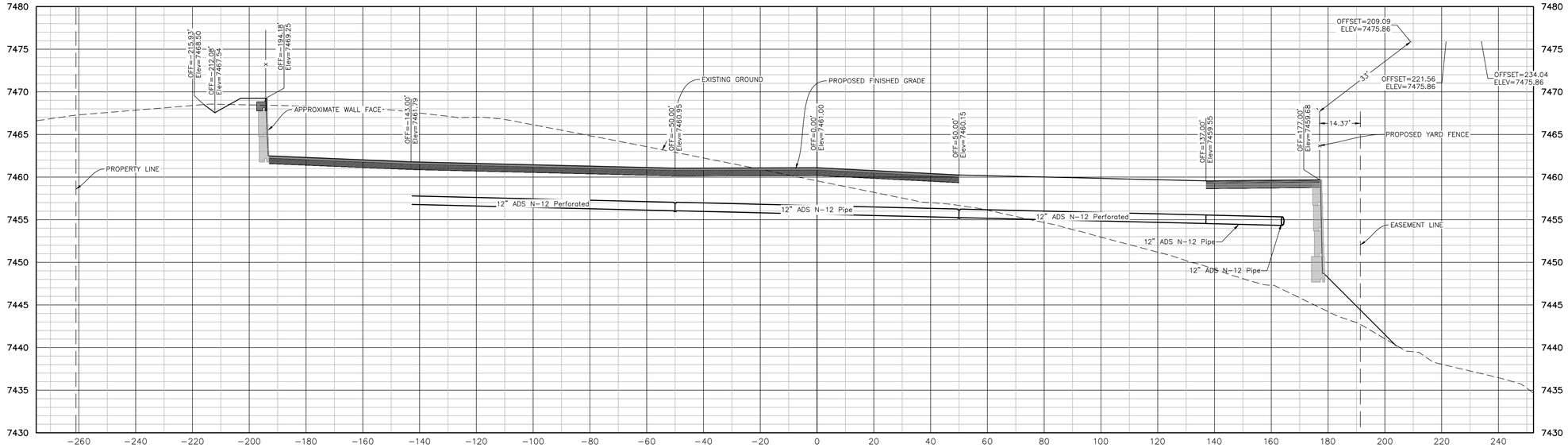
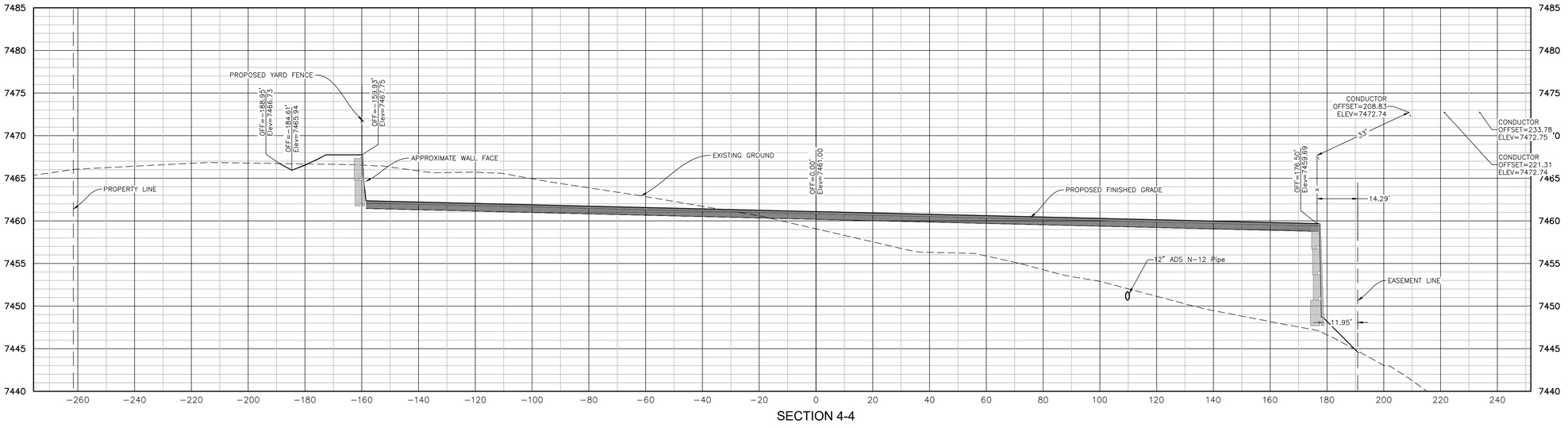
S1172-A-01-010

PCD File No. PPR2244



SECTION 3-3



SECTION 4-4

BID SET

No.	Date	Dwn.	Appd.	Revision	M.F.
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Drawing Title

Mfgr. Reference Drawings

Dwg. No.

FOX RUN SUBSTATION

YARD SECTIONS

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

UPDATED BY: TCLEMENT 3/14/2023 12:01 PM Contract: -

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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:	Date:
TMC	3/06/23
Appd:	Date:
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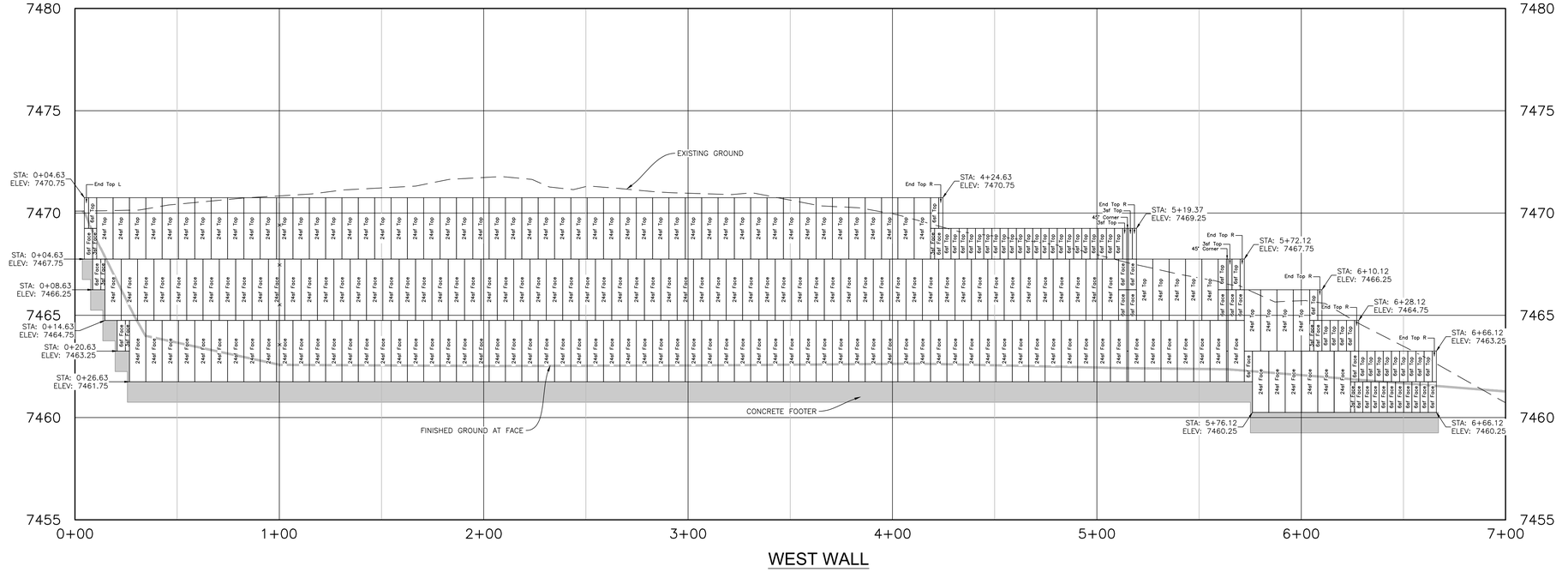
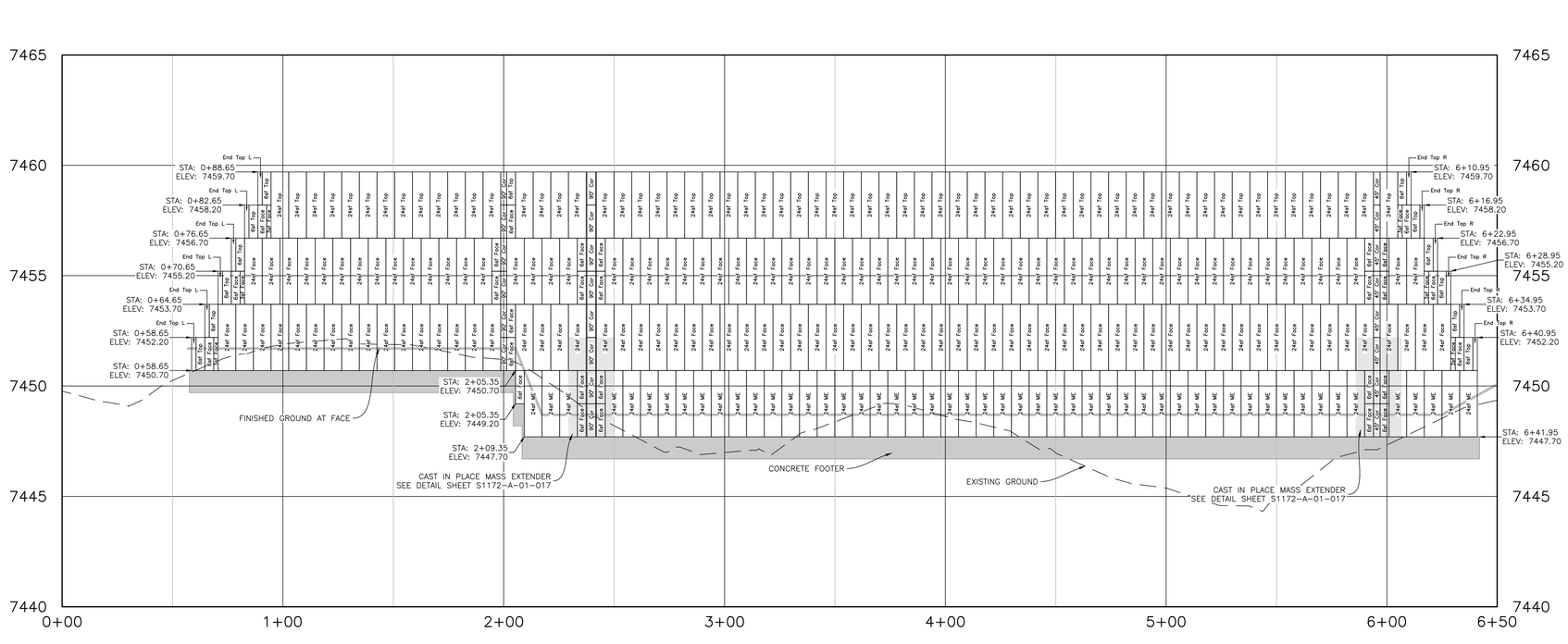
S1172-A-01-011

PCD File No. PPR2244



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

BID SET

Drawing Title
Mfgr. Reference Drawings
Dwg. No.

M.F.
Revision
Appd.
Dwn.
Date

No.	Date	Dwn.
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FOX RUN SUBSTATION

RETAINING WALL PROFILES

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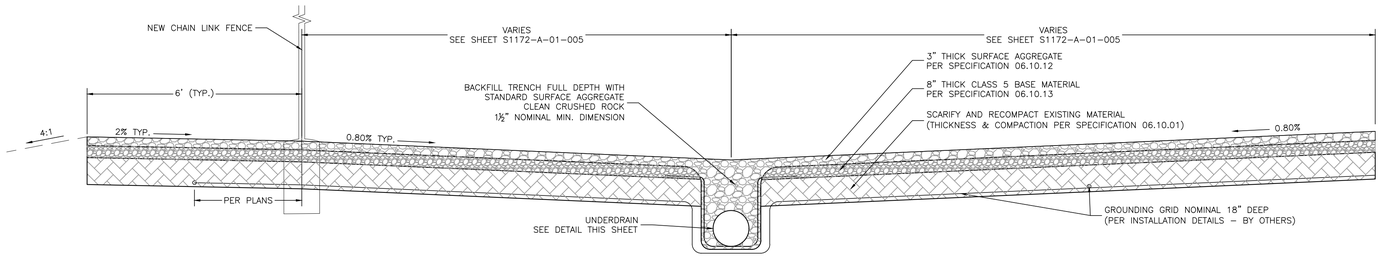
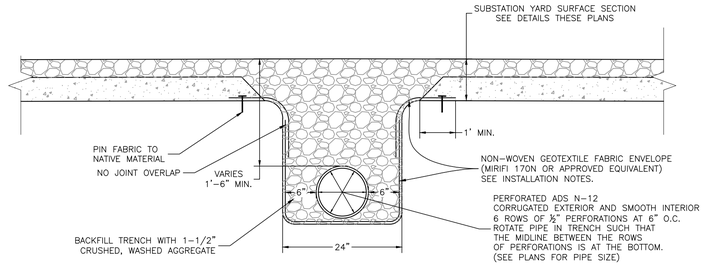
S1172-A-01-012

PCD File No. PPR2244



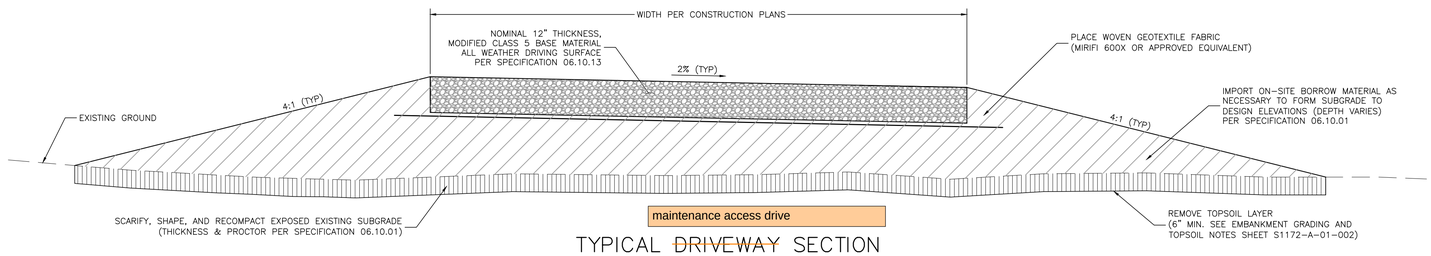
TYPICAL INTERIOR UNDERDRAIN & YARD SECTION
N.T.S.

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 1½" CRUSHED AGGREGATE PER SPECIFICATIONS.
4. ALL BURIED PIPE ENDS SHALL BE CAPPED



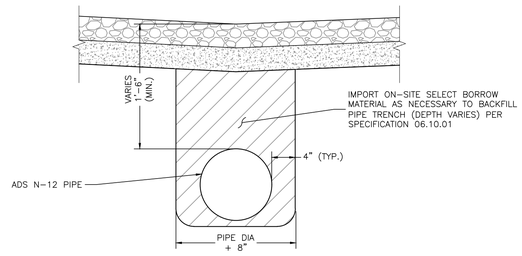
TYPICAL PERFORATED SUBDRAIN DETAIL
N.T.S.

width is not shown on plans. its should be a minimum of 15' wide



maintenance access drive

TYPICAL ~~DRIVEWAY~~ SECTION
N.T.S.



TYPICAL SOLID SUBDRAIN DRAIN DETAIL
N.T.S.

BID SET

No.	Date	Dwn.	Appd.	Revision	M.F.
7					
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Dwg. No. | Mfgr. | Reference Drawings | Drawing Title

FOX RUN SUBSTATION
CIVIL DETAILS
TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED
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S1172-A-01-013

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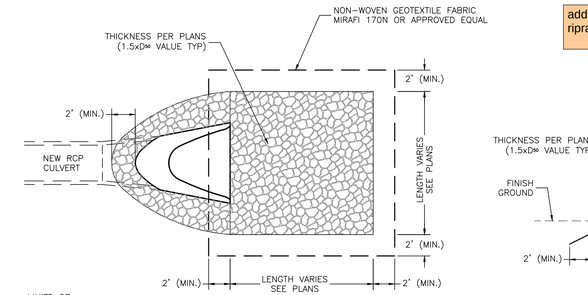
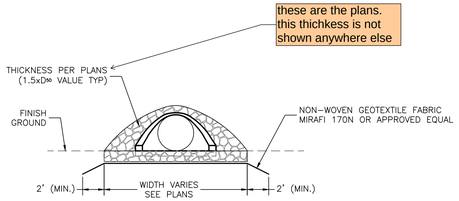
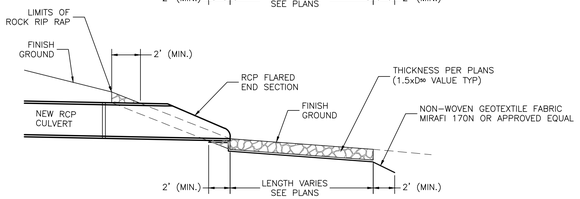


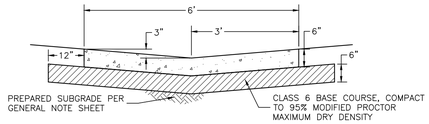
add a table for Outlet pipe and two culverts, include pipe size, riprap type and dimensions (length, width, and thickness)

these are the plans. this thichkess is not shown anywhere else



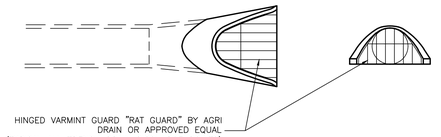


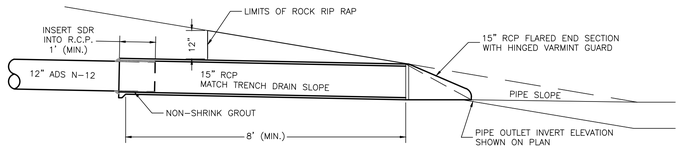
RCP CULVERT OUTLET DETAIL
N.T.S.



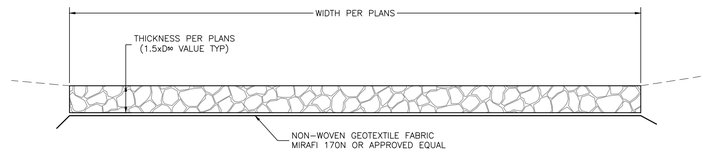
NOTE: TRICKLE CHANNEL TO BE INSTALLED WITH CONTROL JOINTS AT 10 FOOT INCREMENTS

6' TRICKLE CHANNEL
N.T.S.

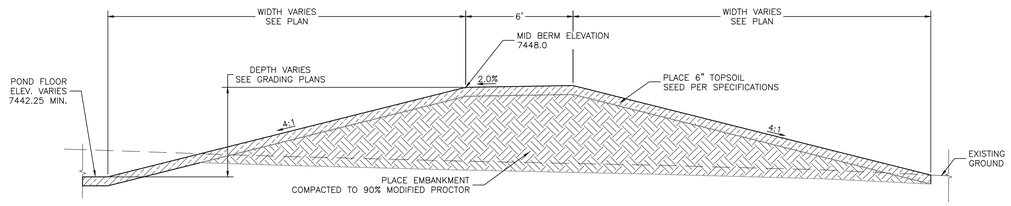




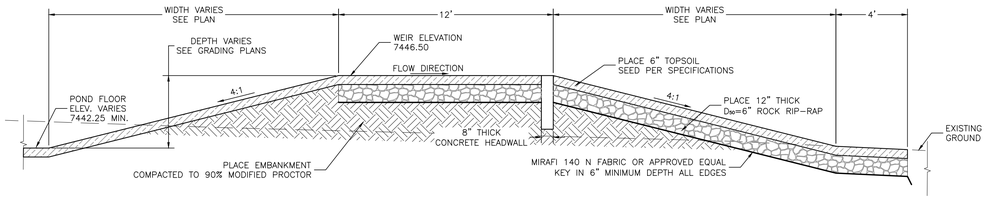
ADS SUBDRAIN OUTLET ASSEMBLY
N.T.S.



TYPICAL RIP RAP INSTALLATION
N.T.S.

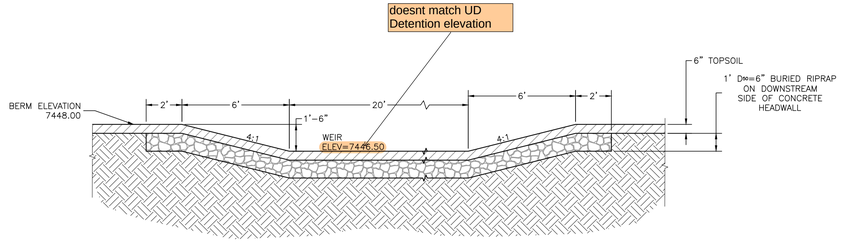


TYPICAL POND BERM SECTION
N.T.S.

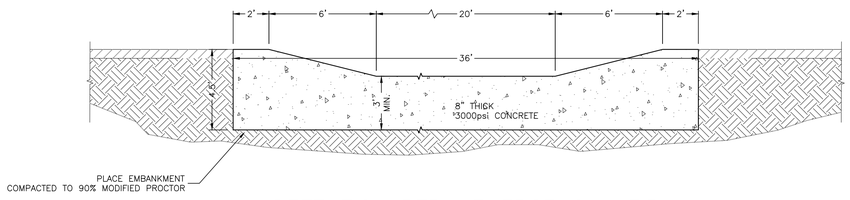


TYPICAL POND BERM & OVERFLOW WEIR SECTION
N.T.S.

doesnt match UD Detention elevation



DETENTION BERM EMERGENCY WEIR DETAIL
N.T.S.



DETENTION BERM EMERGENCY WEIR CONCRETE HEADWALL DETAIL
N.T.S.

BID SET

No.	Date	Dwn.	Appd.	Revision	M.F.
7					
6					
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Drawing Title
Mfgr. Reference Drawings
Dwg. No.

FOX RUN SUBSTATION
DRAINAGE DETAILS

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

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S1172-A-01-014

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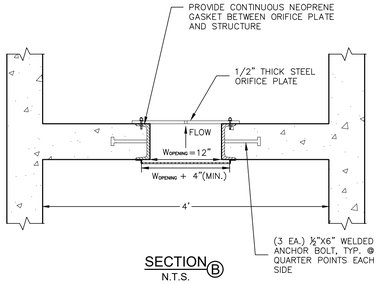
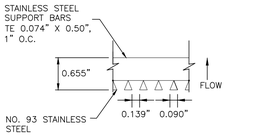


SECTION Ⓑ
N.T.S.

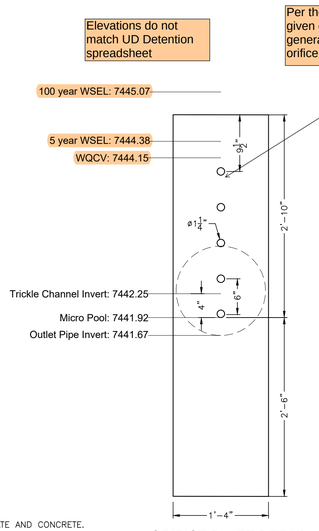


R VALUE = (NET OPEN AREA)/(GROSS RACK AREA)
= 0.60

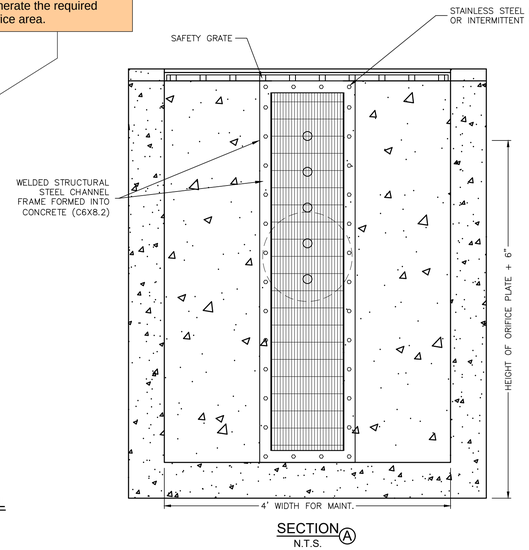
SECTION Ⓒ
N.T.S.

Elevations do not match UD Detention spreadsheet

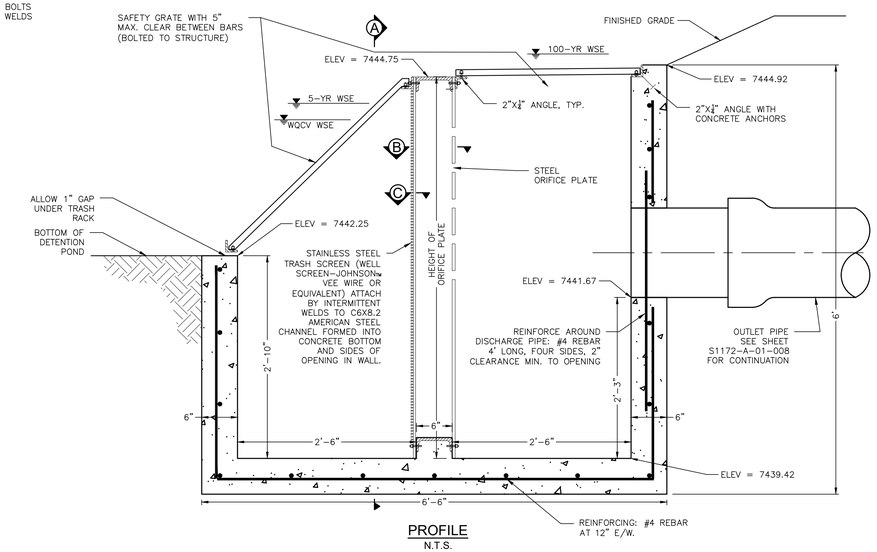
Per the drainage report, the given diameters do not generate the required orifice area.



ORIFICE PLATE DETAIL
N.T.S.



SECTION Ⓐ
N.T.S.



PROFILE
N.T.S.

ORIFICE PLATE NOTES:

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

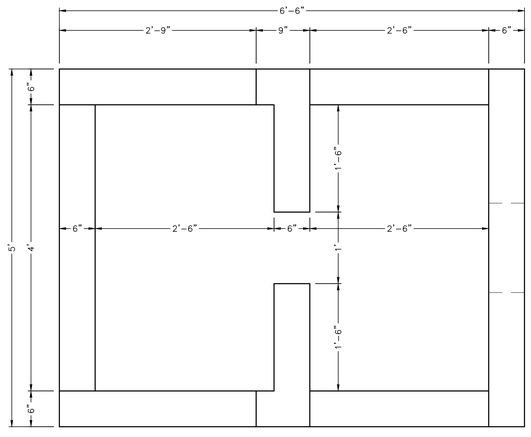
WQCV TRASH RACKS:

1. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.

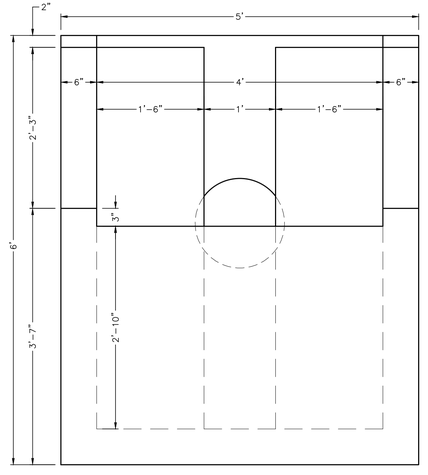
OVERFLOW SAFETY GRATES:

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.

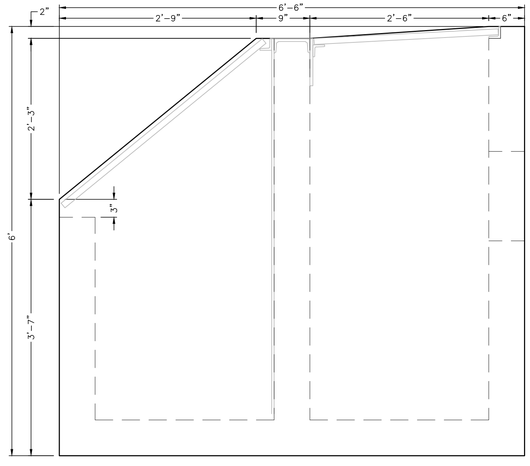
ORIFICE PLATE AND TRASH RACK DETAILS AND NOTES



CONCRETE OUTLET STRUCTURE
TOP VIEW
N.T.S.



CONCRETE OUTLET STRUCTURE
FRONT VIEW
N.T.S.



CONCRETE OUTLET STRUCTURE
SIDE VIEW
N.T.S.

BID SET

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Drawing Title | Mfgr. | Reference Drawings
Dwg. No. | M.F.
Revision | Appd.

FOX RUN SUBSTATION
OUTLET STRUCTURE DETAILS

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

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S1172-A-01-015

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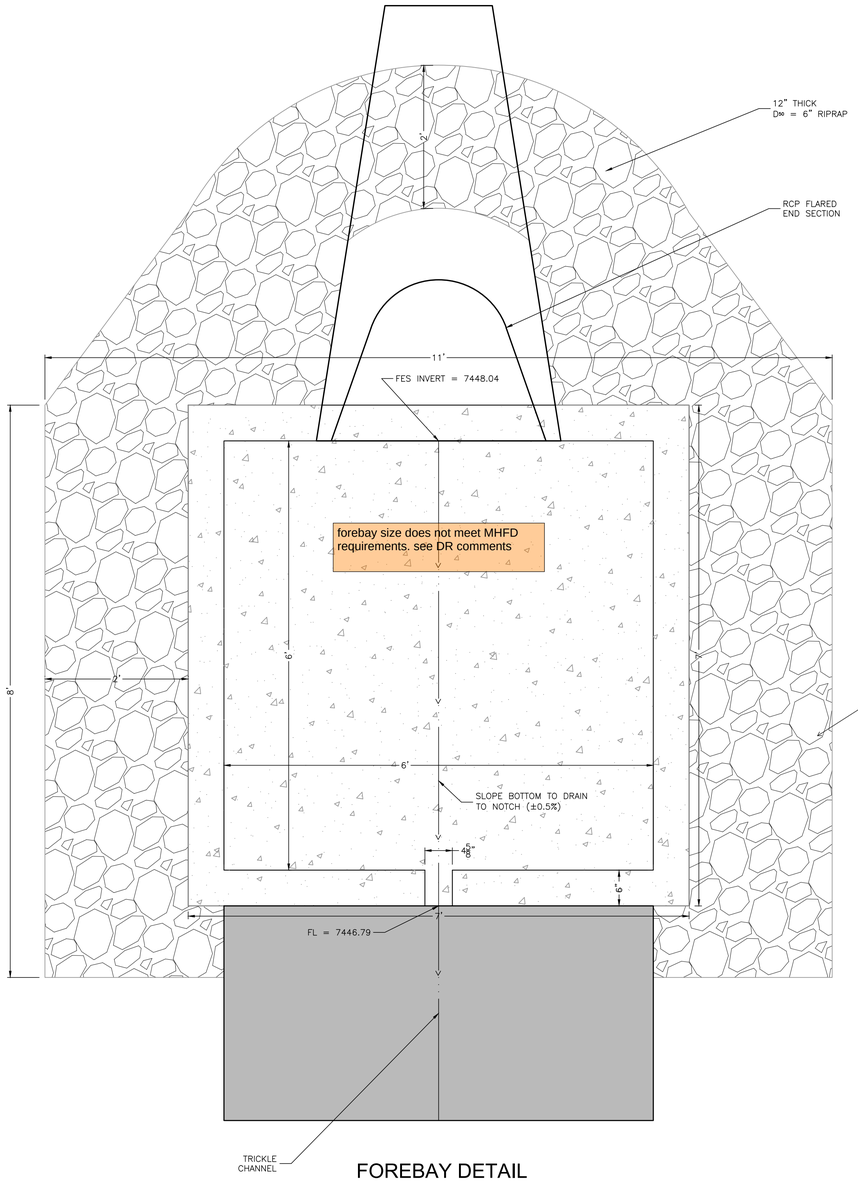
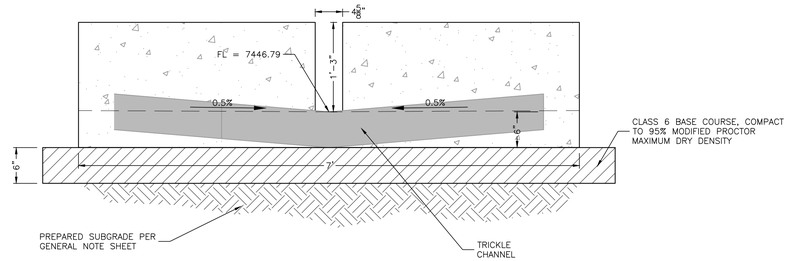
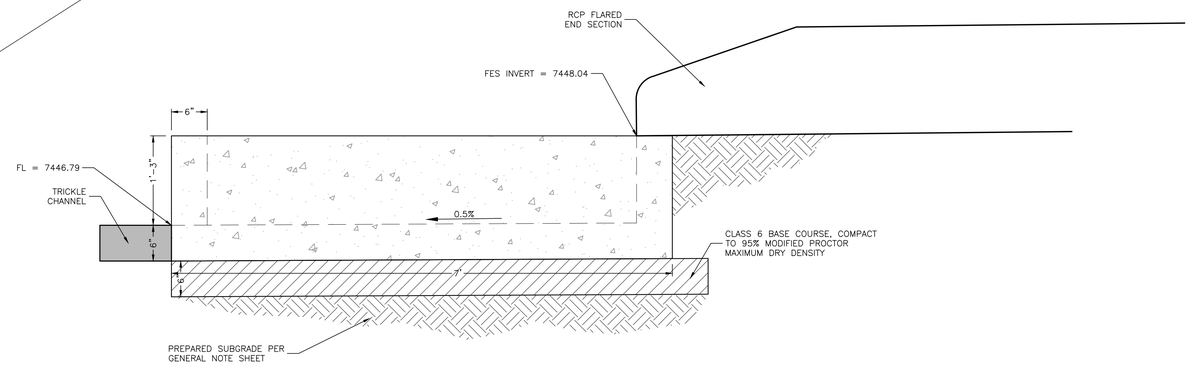


FOREBAY DETAIL
PLAN VIEW
N.T.S.



FOREBAY DETAIL
SECTION VIEW
N.T.S.

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) unresolved.



FOREBAY DETAIL
PROFILE VIEW
N.T.S.

BID SET

No.	Date	Revision	Dwn.	Appd.
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Drawing Title
Mfgr. Reference Drawings
Dwg. No.

M.F.

FOX RUN SUBSTATION
FOREBAY DETAILS

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

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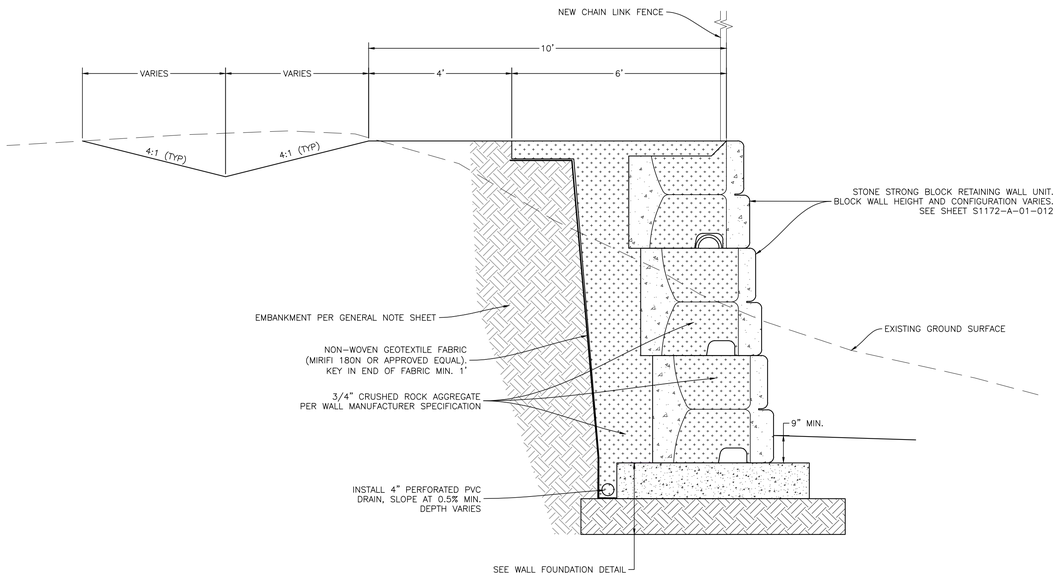
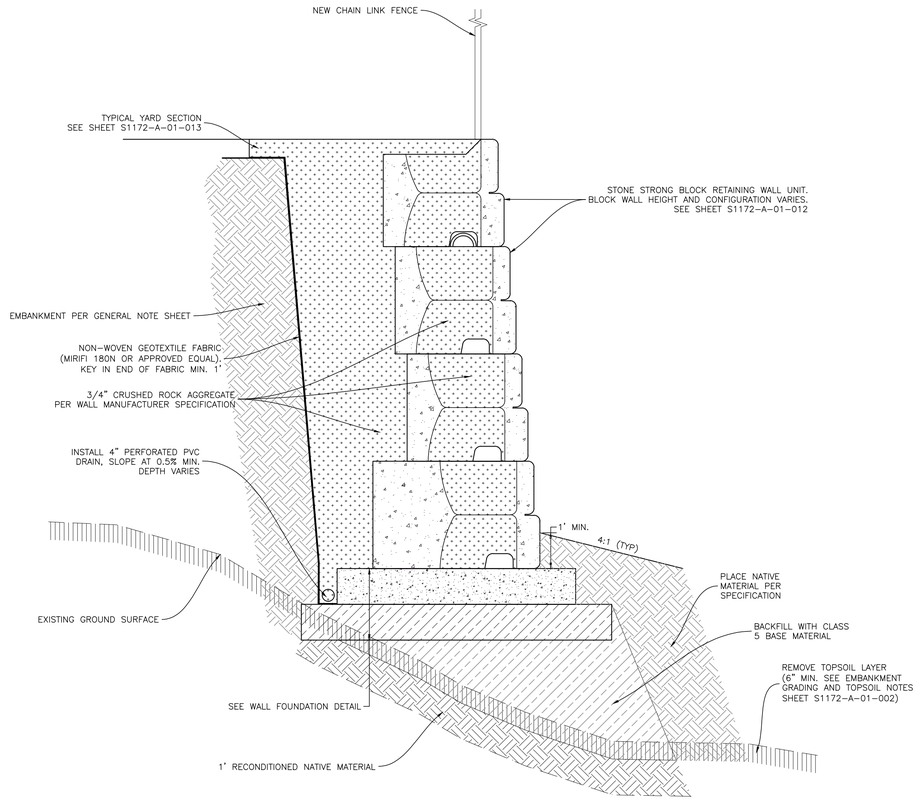
PCD File No. PPR2244



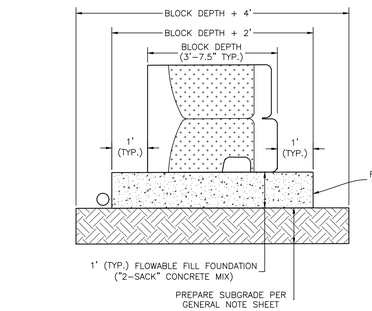
TYPICAL SECTION WEST RETAINING WALL

N.T.S.



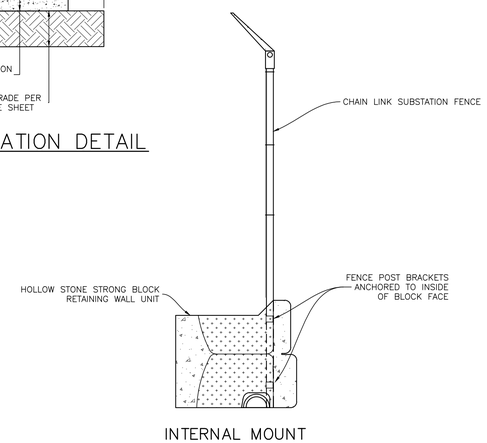
TYPICAL SECTION EAST RETAINING WALL

N.T.S.



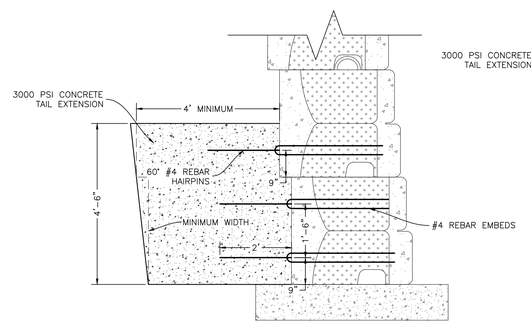
TYPICAL WALL FOUNDATION DETAIL

N.T.S.

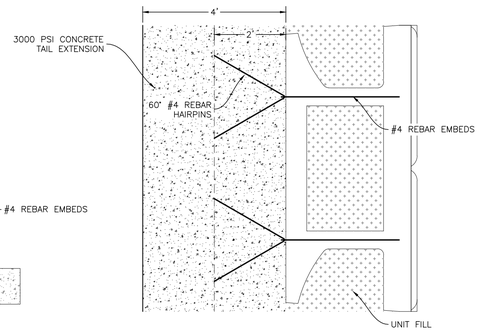


TYPICAL STONE STRONG FENCE MOUNTING

N.T.S.



SECTION VIEW



PLAN VIEW

CAST IN PLACE MASS EXTENDER DETAIL

N.T.S.

BID SET

No.	Date	Dwn.	Appd.	Revision
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Dwg. No. | Mfgr. | Drawing Title: Reference Drawings

FOX RUN SUBSTATION

RETAINING WALL DETAILS

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

UPDATED BY: TCLEMENT 3/14/2023 12:01 PM | Contract:

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S1172-A-01-017

PCD File No. PPR2244

install waddles or checks to prevent sediment migration offsite. unresolved.

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.

show riprap extent

PARCEL NO. 6121003004
MARIOS PHILIPPOU

SHAHARA RD

LOCKED GATE TO ACCESS SITE

install waddles or rock socks to prevent sediment migration offsite. unresolved

EXISTING T-LINE R.O.W.

SEE SHEET S1172-A-01-007
FOR DETENTION POND GRADING

SEE SHEET S1172-A-01-012
FOR EAST WALL PROFILE

SEE SHEET S1172-A-01-008
FOR SUBDRAIN PLAN

SEE SHEET S1172-A-01-015
FOR OUTLET STRUCTURE DETAILS

SEE SHEET S1172-A-01-016
FOR FOREBAY DETAILS

DETENTION POND

DETENTION POND
SEE NOTE 4

this doesn't line up with the proposed area of disturbance

PARCEL NO. 6121003005
TRI-STATE GENERATION

PARCEL NO. 6121006035
RICHARD WARD

FOX RUN SUBSTATION

REFUELING AREA

STAGING AREA

DUMPSTER

ACCESS ROAD TO BE CONTINUATION OF MOUNTAIN VIEW ELECTRIC ASSOCIATION ACCESS

PARCEL NO. 6100000?? MOUNTAIN VIEW ELECTRIC

ACCESS EASEMENT

HIGBY RD

adjust to include this area

20' WIDE DETENTION POND MAINTENANCE EASEMENT

SEE SHEET S1172-A-01-009
FOR CULVERT SIZING AND ELEVATIONS

SEE SHEET S1172-A-01-012
FOR WEST WALL PROFILE

SEE SHEET S1172-A-01-017
FOR SWALE SECTION

PARCEL NO. 6121003006
DAVID W. CALDWELL

PARCEL NO. 6121003007
TRI-STATE GENERATION

PARCEL NO. 6121003008
TRI-STATE GENERATION

PARCEL NO. 6121003009
TRI-STATE GENERATION

JACKSON RANCH CT

JACKSON RANCH SUBDIVISION

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

NOTES:

1. EXISTING VEGETATION CONSISTS OF NATIVE GRASSES AND WEEDS AT 30-60% GROUND COVER.
2. NO BATCH PLANTS WILL BE UTILIZED ON SITE.
3. NO PART OF THE SITE LIES WITHIN THE FEMA 100 YEAR FLOODPLAIN.
4. OUTLET STRUCTURE MUST BE INSTALLED IN ORDER TO USE DETENTION POND AS A TEMPORARY SEDIMENT POND DURING CONSTRUCTION.

LEGEND

PROPERTY BOUNDARY	EXISTING OVERHEAD POWER LINE
LIMITS OF CONSTRUCTION / DISTURBANCE	EXISTING FENCE
TOE OF FILL SLOPE	EXISTING CULVERT
TOP OF CUT SLOPE	EXISTING UTILITY POLE
DIVERSION DITCH (INITIAL)	EXISTING GUY ANCHOR
TOPSOIL BERM (INITIAL)	EXISTING INDEX CONTOUR
SEDIMENT TRAP (INITIAL/INTERIM)	EXISTING INTERMEDIATE CONTOUR
STRAW WATTLE (INITIAL/INTERIM)	EXISTING DRAINAGE FLOWLINE
CULVERT PROTECTION (INITIAL/INTERIM)	PROPOSED SUBDRAIN LINE
SEEDING (FINAL)	PROPOSED FENCE
GRAVEL (FINAL)	PROPOSED CULVERT
TRACKING PAD (INITIAL/INTERIM)	PROPOSED INDEX CONTOUR
CONCRETE WASHOUT (WITH LOCATION SIGN)	PROPOSED INTERMEDIATE CONTOUR
PORTABLE TOILET	PROPOSED DRAINAGE FLOWLINE
	PROPOSED DRAINAGE FLOW ARROW
	EXISTING DRAINAGE FLOW ARROW

TRUE NORTH
$\angle$=90°
PLAN NORTH

1" = 60'

Scale in feet
60' 0 60' 120'

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

Drawing Title
Reference Drawings
Mfgr.
Dwg. No.
M.F.

FOX RUN SUBSTATION
EROSION CONTROL PLAN
TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED
UPDATED BY: TCLEMENT 3/14/2023 12:01 PM | Contract:

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

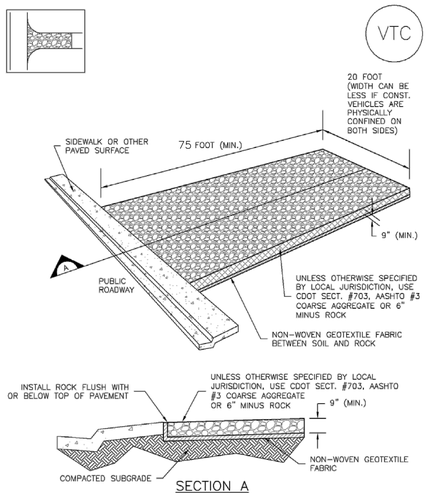
Dwn:	Date:
TMC	3/06/23
Appd:	Date:
.	.

S1172-A-01-018

PCD File No. PPR2244

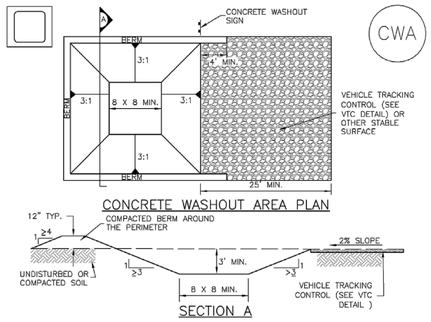
PATH: \\DMS#4\Projects\Active Projects\2021\21036-TSGT Monument Sub Survey & Civil\Facility\Civil\Sheets\S1172-A-01-SHEETS.dwg

Vehicle Tracking Control (VTC) SM-4



VTC–1. AGGREGATE VEHICLE TRACKING CONTROL

Concrete Washout Area (CWA) MM-1



CWA–1. CONCRETE WASHOUT AREA

CWA INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   –CWA INSTALLATION LOCATION.

2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.

3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.

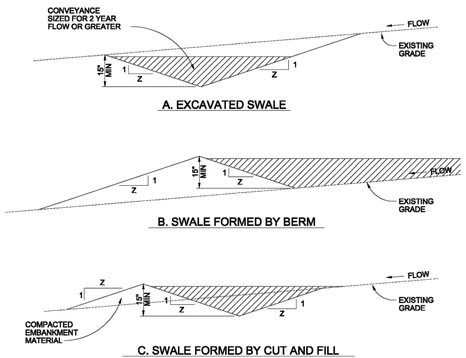
4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.

5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.

6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.

7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.

8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.



TEMPORARY SWALE
NTS

TEMPORARY SWALE NOTES

INSTALLATION REQUIREMENTS

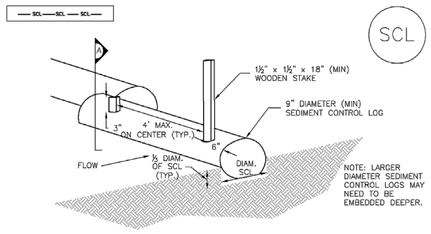
1. TEMPORARY SWALES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
2. THE AREA UNDER WHICH THE EMBANKMENT IS TO BE INSTALLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ALL VEGETATION AND ROOT MAT.
3. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL WITH A MINIMUM OF 15% PASSING A #200 SIEVE. EXCAVATED SOIL CAN BE USED IF IT MEETS THIS REQUIREMENT.
4. EMBANKMENT IS TO BE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D 698.
5. SWALES WITH SLOPE > 2% SHALL BE LINED, SEE FIGURE TSW-3.
6. SWALES ARE TO DRAIN INTO A SEDIMENT BASIN OR OTHER STABILIZED OUTLET.
7. Z SHALL BE 3 OR GREATER.

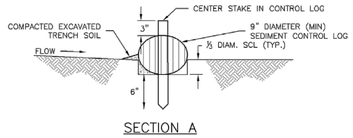
MAINTENANCE REQUIREMENTS

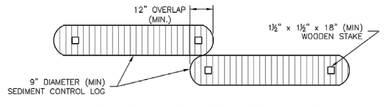
1. CONTRACTOR SHALL INSPECT SWALES AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL.
2. SWALES SHALL BE ROUTINELY CLEARED OF ANY DEBRIS OR ACCUMULATION OF SEDIMENT.
3. ERODED SLOPES OR DAMAGED LININGS SHALL IMMEDIATELY BE REPAIRED.
4. TEMPORARY SWALES SHALL REMAIN OPERATIONAL AND PROPERLY MAINTAINED UNTIL THE SITE AREA IS PERMANENTLY STABILIZED WITH ADEQUATE VEGETATIVE COVER AND/OR OTHER PERMANENT STRUCTURE AS APPROVED BY THE CITY.

City of Colorado Springs Stormwater Quality	Figure TSW-2 Temporary Swale Construction Detail and Maintenance Requirements

Sediment Control Log (SCL) SC-2

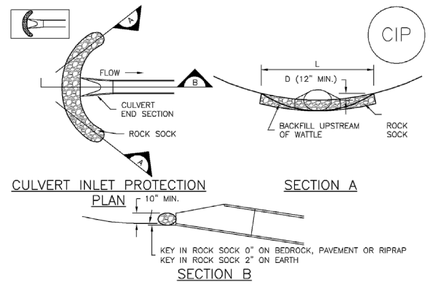






SCL–1. SEDIMENT CONTROL LOG

Inlet Protection (IP) SC-6



CIP–1. CULVERT INLET PROTECTION

CULVERT INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR
   –LOCATION OF CULVERT INLET PROTECTION.

2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK GRADATION REQUIREMENTS AND JOINTING DETAIL.

CULVERT INLET PROTECTION MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

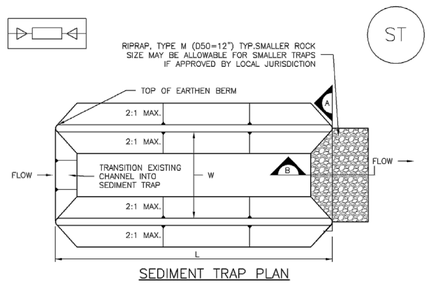
4. SEDIMENT ACCUMULATED UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS ½ THE HEIGHT OF THE ROCK SOCK.

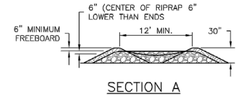
5. CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

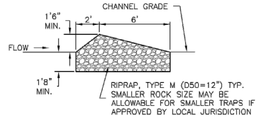
(DETAILS ADAPTED FROM AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

SC-8 Sediment Trap (ST)







ST–1. SEDIMENT TRAP

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

FOX RUN SUBSTATION
EROSION CONTROL DETAILS
TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED
UPDATED BY: TCLEMENT 3/14/2023 12:01 PM Contract: -
PATH: \\DMS14\Projects\Active Projects\2021\21036-TSGT Monument Sub Survey & Civil\Facility\Civil\Sheets\S1172-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: 3/06/23
Appd: - Date: -

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