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# D49 TRANSPORTATION CENTER SCHOOL DISTRICT NO. 49 11971 SWINGLINE ROAD PEYTON, CO 80831 CONSTRUCTION DOCUMENTS

## STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION OF EXISTING UTILITIES. NOTIFICATION SHALL BE PROVIDED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
  - 3.1. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
  - 3.2. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
  - 3.3. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
  - 3.4. CDOT M & S STANDARDS
4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

## CONTACTS

<b>OWNER:</b>	SCHOOL DISTRICT 49 10850 EAST WOODMEN ROAD PEYTON, CO 80831	BRUCE BROWN (719) 495-1100 BRLBROWN@S49.ORG
<b>CIVIL ENGINEER:</b>	JVA, INC 1319 SPRUCE STREET BOULDER, CO 80302	SHARON PROCOPIO, P.E. (303) 565-4932 SPROCOPIO@JVAJVA.COM
<b>ARCHITECT:</b>	RTA ARCHITECTS 19 SOUTH TEJON STREET SUITE 300 COLORADO SPRINGS, CO 80903	PATRICK WARD, AIA, NCBAB, LEED AP BD+C (719) 867-7029 PATRICKWARD@RTAARCHITECTS.COM
<b>SURVEYOR:</b>	DREXEL, BARRELL & CO. 3 S 7TH STREET COLORADO SPRINGS, CO 80905	TIM MCCONNELL, P.E. (719) 260-0887 TMCCONNELL@DREXELBARRELL.COM

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

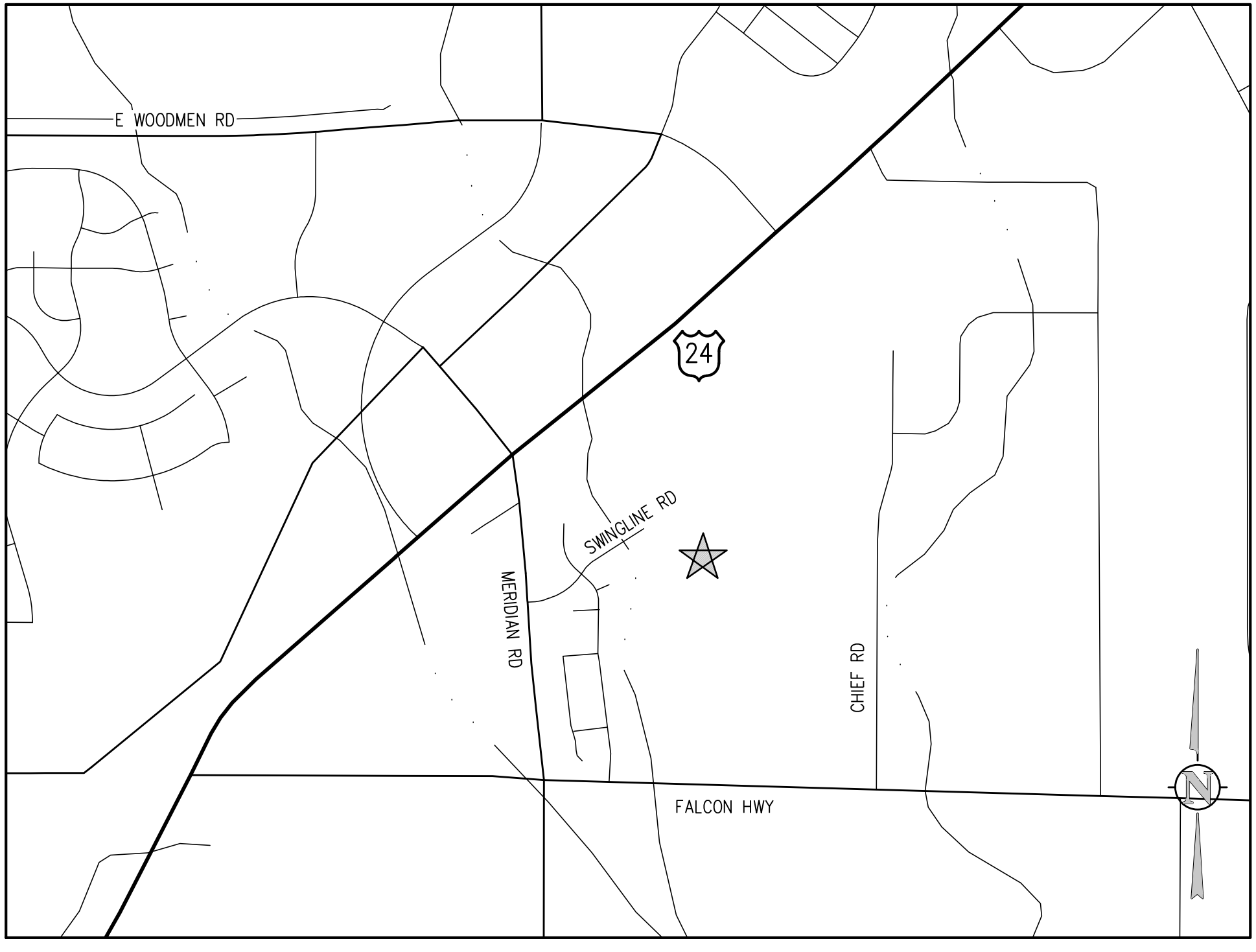
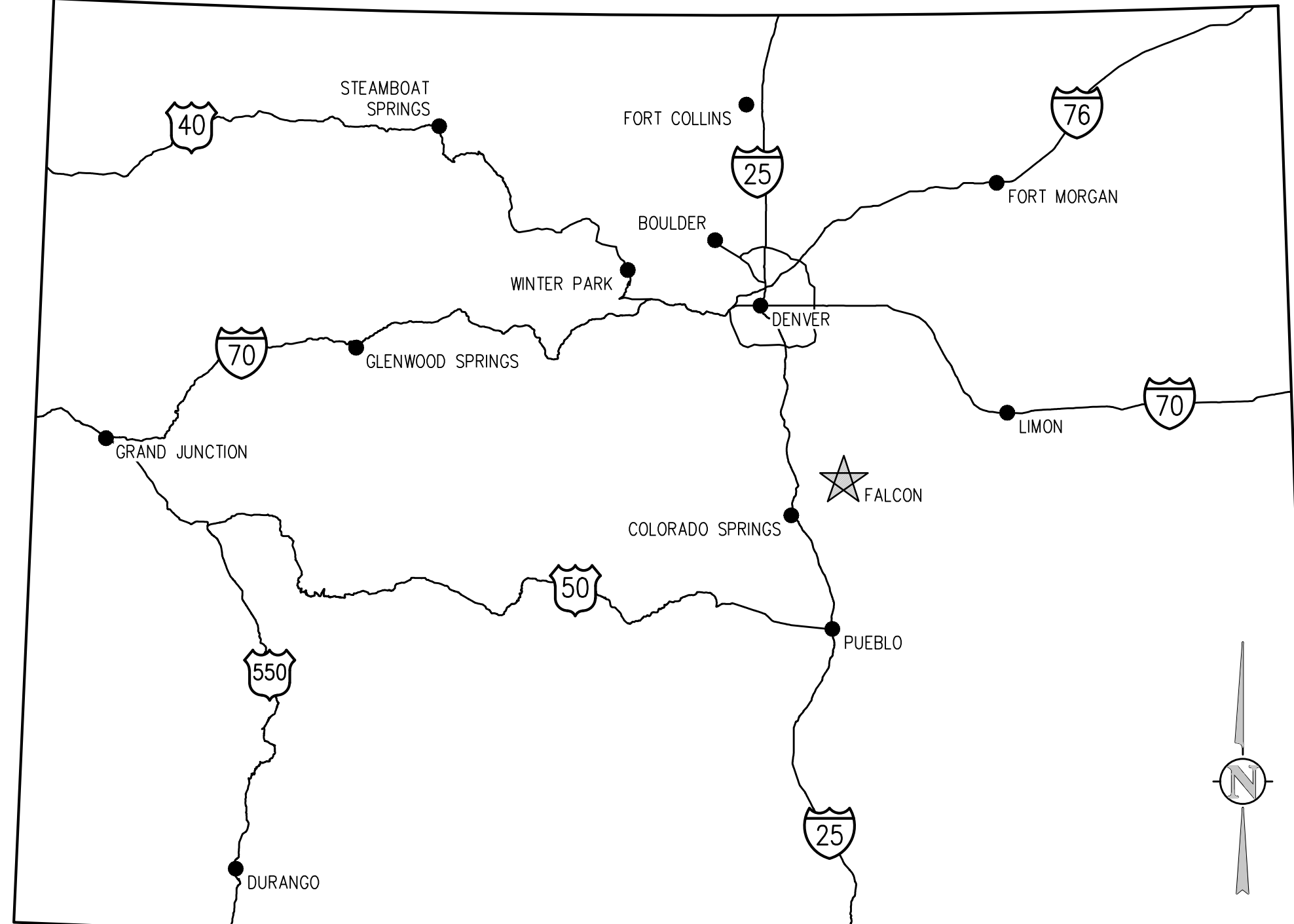
1. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
2. NOTWITHSTANDING ANYTHING 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 (SWMP) 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. THE SWMP SHALL BE REVISIONED AS NECESSARY TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
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 EXISTING 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 LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURES.
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 COVERINGS 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 DRAINAGE 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, C.R.S.) AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, ECM VOLUME II, AND THE ECM APPENDIX. 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 KUMAR & ASSOCIATES, JANUARY 27TH 2022 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:

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C0.4A	DEMOLITION PLAN A.1
C0.5	DEMOLITION PLAN B
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C1.0	OVERALL GRADING AND DRAINAGE PLAN
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C1.9	STORM SEWER MAIN PLAN AND PROFILE
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C1.12	DIVERSION STORM SEWER PLAN AND PROFILE
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C4.4	GRAVEL ROAD PLAN AND PROFILE
C4.5	GRAVEL ROAD SECTIONS

## EL PASO COUNTY SIGNAGE AND STRIPING PLANS NOTES

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
7. ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 35 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 12" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS". SIGNAL POLE MOUNTED AND OVERHEAD STREET NAME SIGNS SHALL BE PER MUTCD SIZE STANDARDS.
8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SUBBASE DESIGN.
10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALK LINES SHALL BE 12" WIDE AND A MINIMUM OF 8' LONG PER CDOT S-627-1. (CROSSWALK LINES 9' LONG ARE PREFERRED.)
12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 1/4" THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.



## SURVEY INFORMATION

1. BENCHMARK INFORMATION: TOPOGRAPHIC INFORMATION WAS PROVIDED BY RIDGELINE LAND SURVEYING, SEE TOPOGRAPHIC EXHIBIT DATED 12/13/2021. PROJECT BENCHMARK ELEVATION WAS ESTABLISHED AT TWO LOCATIONS: BM#1 NORTH FLANGE BOLT ON HYDRANT LOCATED AT THE SW CORNER OF THE SITE DUE WEST OF THE SOUTH LINE OF THE BUILDING AT THE WEST EDGE OF THE PARKING LOT ELEV = 6789.72; BM#2 FLANGE BOLT BETWEEN MULLERY ON HYDRANT LOCATED AT THE WEST SIDE OF THE PLAYGROUND AREA NORTH OF THE BUILDING ELEV = 6796.57. COORDINATE AND VERIFY ALL VERTICAL AND HORIZONTAL DATA SHOWN IN SURVEY AND REPORT ANY IRREGULARITIES OR DISCREPANCIES TO ENGINEER PRIOR TO CONSTRUCTION.
2. DATUM INFORMATION: THE VERTICAL CONTROL WAS BASED ON LOCAL ADJACENT PROJECT SITE DATUM. TO ACHIEVE NAVD 1929 ELEVATION SUBTRACT 0.33' FROM THE PROJECT ELEVATION. TO ACHIEVE NAVD 1988 ADD 3.8' TO PROJECT ELEVATIONS.
3. FLOOD PLAIN STATEMENT: A PORTION OF THIS PROPERTY LIES IN ZONE AE, PER FLOOD INSURANCE RATE MAP NO. 080410061G DATED DECEMBER 7, 2018. BASE FLOOD ELEVATION HAS BEEN DETERMINED REFERRING TO THE NAVD1988 ELEVATION DATUM. FIELD SURVEYING WAS NOT PERFORMED TO DETERMINE THESE ZONES.

## WATER AND SEWER MAIN EXTENSIONS

ANY CHANGES OR ALTERATIONS AFFECTING THE GRADE, ALIGNMENT, ELEVATION, AND/OR DEPTH OF COVER OF ANY WATER OR SEWER MAINS OR OTHER APPURTENANCES SHOWN ON THIS DRAWING SHALL BE THE RESPONSIBILITY OF THE OWNER/DEVELOPER. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR ALL OPERATIONAL DAMAGES AND DEFECTS IN INSTALLATION AND MATERIAL FOR MAINS AND SERVICES FROM THE DATE OF APPROVAL UNTIL FINAL ACCEPTANCE IS ISSUED.

SIGNED \_\_\_\_\_ DATE \_\_\_\_\_  
 OWNER/DEVELOPER

PRINT NAME \_\_\_\_\_  
 DBA \_\_\_\_\_  
 ADDRESS \_\_\_\_\_

## WOODMEN HILLS METROPOLITAN DISTRICT APPROVAL

THE WOODMEN HILLS METROPOLITAN DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN AND HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

WOODMEN HILLS METROPOLITAN DISTRICT WATER DESIGN APPROVAL

DATE: 4-11-2023 by: *Cody Rittler*

PROJECT NO. \_\_\_\_\_

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT, THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL.

**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.

**Bruce Brown** 4/11/23  
 OWNER SIGNATURE DATE

**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.

*[Signature]* 4/11/13  
 ENGINEER OF RECORD SIGNATURE DATE

**FIRE AUTHORITY APPROVAL**

THE NUMBER OF FIRE HYDRANTS AND HYDRANT LOCATIONS SHOWN ON THIS WATER INSTALLATION PLAN ARE CORRECT AND ADEQUATE TO SATISFY THE FIRE PROTECTION REQUIREMENTS AS SPECIFIED BY THE FIRE DISTRICT SERVING THE PROPERTY NOTED ON THE PLANS.

FIRE PROTECTION DISTRICT \_\_\_\_\_

SIGNED \_\_\_\_\_ DATE \_\_\_\_\_  
 FIRE PROTECTION DISTRICT



PROJECT NUMBER  
**2021-041-00**  
 DATE  
**05/23/2022**

REVISIONS

#	DATE	DESCRIPTION
1	05/09/2022	ADD/REMOVE
2	06/09/2022	ADD/REMOVE
3	10/09/2022	PHI
4	01/10/2023	AS-BUILT

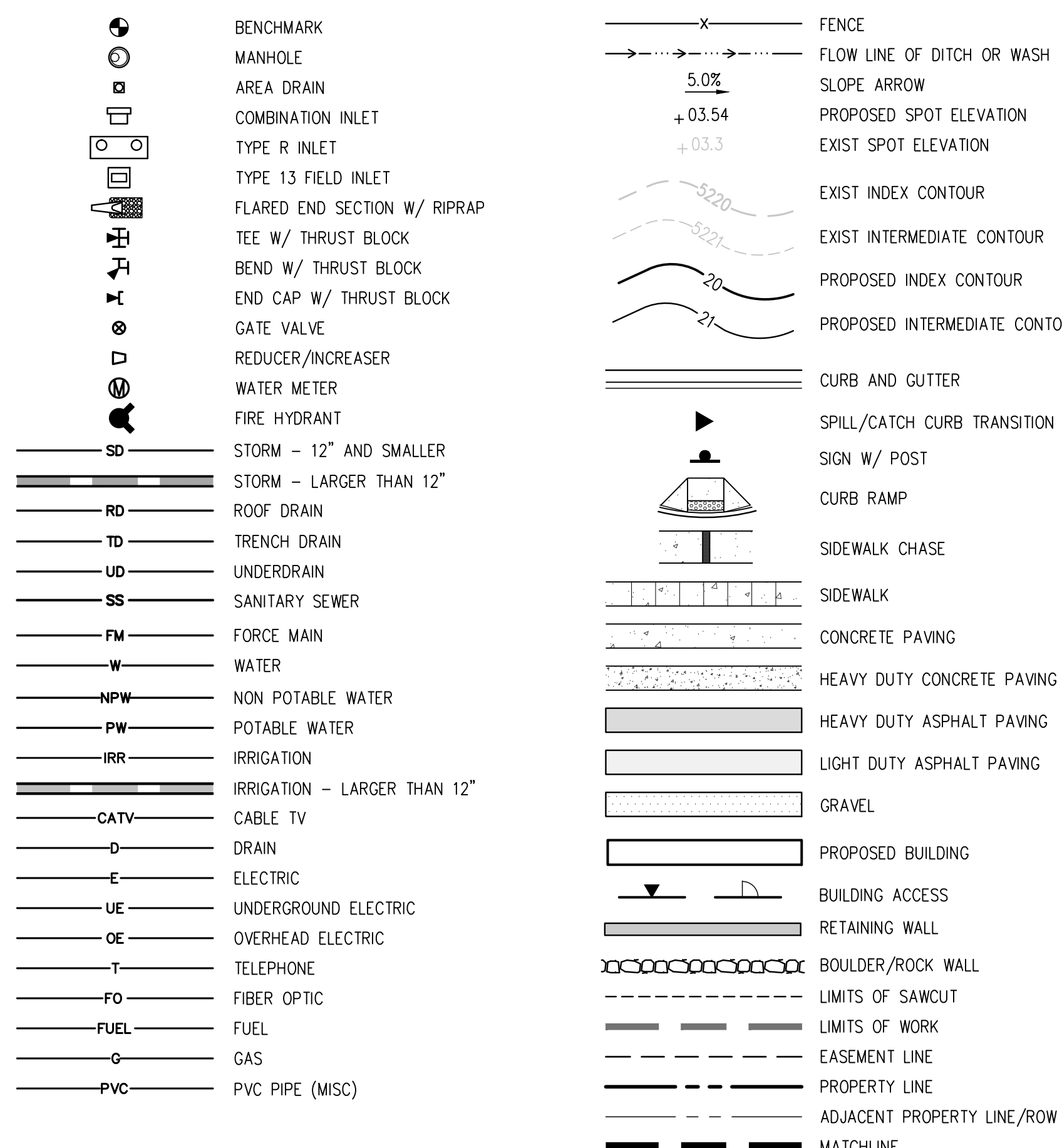
DESIGNED BY: **CWK/HCM**  
 CHECKED BY: **AWB**  
 DRAWN BY: **CWK**

ISSUED FOR: **CONSTRUCTION DOCUMENTS**

**ABBREVIATIONS**

AASHTO ABAN AC ADDL ADDM ADJ AL ALT AMT APPROX ARCH ARY ASTM ASPH ASSY ASYM AUTO AVC AWWA BC BFV BG BLDG BLK BM BMP BS BOS BOT BSMT BVCE BVC5 BW CB CDOT CIP CL CLR CMP CMU CONC CONST CONT COR CR CTR CY DEMO DIA DIAG DIP DOM DN DR DWG DWL E EA ECC EJ EL ELB ELEC ENGR EOP EQ EQUIP EQUIV ESMT EST EVCE EVCS EW EXP EXIST FND FES FF FG FH FL FN FOC FOV FFM FPS FT FTG G GA GAL GALV GCO GIP GND GPD GPM GRATE GRG GSP GV H HB HE HDWL HNDL HORIZ HP HR HVAC HWY HWL HYD	AMERICAN ASSOC. OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS ABANDON ASPHALTIC CONCRETE PAVING ADDITION ADDENDUM ADJUSTABLE ALUMINUM ALTERNATE AMOUNT APPROXIMATE ARCHITECTURAL AIR RELIEF VALVE AMERICAN SOCIETY FOR TESTING AND MATERIALS ASPHALT ASSEMBLY ASYMMETRICAL AUTOMATIC AVERAGE AMERICAN WATER WORKS ASSOC. BACK OF CURB BUTTERFLY VALVE FINISHED GRADE ADJACENT TO BOTTOM OF WALL BUILDING BLOCK BENCH MARK BEST MANAGEMENT PRACTICE BACKSIGHT BOTTOM OF STEP BOTTOM BASEMENT BEGIN VERTICAL CURVE ELEVATION BEGIN VERTICAL CURVE STATION BOTTOM OF WALL CATCH BASIN COUNTER CLOCKWISE COLORADO DEPARTMENT OF TRANSPORTATION CAST IRON PIPE CONSTRUCTION JOINT CENTER LINE OR CHAIN LINK CLEAR CORRUGATED METAL PIPE CONCRETE MASONRY UNIT CLEANOUT CONCRETE CONSTRUCTION CONTINUOUS(ATION) CORNER CENTRIC REDUCER CENTER CUBIC YARDS DEMOLITION DIAMETER DIAGONAL DUCTILE IRON PIPE DOMESTIC DOWN DRAIN DRAWING DOWEL EAST EACH ECCENTRIC EXPANSION JT ELEVATION ELBOW ELECTRICAL ENGINEER EDGE OF PAVEMENT EQUAL EQUIPMENT EQUIVALENT EASEMENT ESTIMATE END VERTICAL CURVE ELEVATION END VERTICAL CURVE STATION EACH WAY JT EXPANSION JOINT EXISTING FOUNDATION FLARED END SECTION FINISH FLOOR FINISH GRADE FIRE HYDRANT FLOW LINE FENCE FACE OF CONCRETE FIBER OPTIC VAULT FEET PER MINUTE FEET PER SECOND FEET FOOTING OR FITTING GAS GAUGE GALLON GALVANIZED GRADE CLEANOUT GALVANIZED IRON PIPE GROUND GALLONS PER DAY GALLONS PER MINUTE GRATE GRATING GALVANIZED STEEL PIPE GATE VALVE HIGH HOSE BIB HORIZONTAL ELLIPTICAL HEADWALL HAND RAIL HORIZONTAL HIGH POINT HOUR HEATING, VENTILATION, AIR CONDITIONING HIGHWAY HIGH WATER LINE HYDRANT	INCL. INCLUDED ID. INSIDE DIAMETER IN. INLET INSUL. INSULATION INV. INVERT IRR. IRRIGATION JTS. JOINTS KNOCKOUT KICK PLATE KEYWAY L. LEFT OR LITER LSCAPE LANDSCAPE(ING) LF. LINEAR FOOT LP. LOW POINT OR LIGHT POLE LT. LIGHT LWL. LOW WATER LEVEL MAINT. MAINTENANCE MAN. MANUAL MATL. MATERIAL MAX. MAXIMUM ME. MATCH EXISTING MECH. MECHANICAL MFR. MANUFACTURER MH. MANHOLE MIN. MINIMUM MISC. MISCELLANEOUS MJ. MECHANICAL JOINT N. NORTH NA. NOT APPLICABLE NIC. NOT IN CONTRACT NPT. NATIONAL PIPE THREAD NTS. NOT TO SCALE OC. ON CENTER OD. OUTSIDE DIAMETER OPP. OPPOSITE OPT. OPTIONAL PC. POINT OF CURVATURE PCO. PRESSURE CLEAN OUT PCR. POINT OF CURVE RETURN PI. POINT OF INTERSECTION PVI. POINT OF VERTICAL INTERSECTION PL. PROPERTY LINE PLE. POLYETHYLENE PREFAB. PREFABRICATED PRELIM. PRELIMINARY PREP. PREPARATION PROP. PROPOSED PRV. PRESSURE REDUCING VALVE OR PRESSURE RELIEF VALVE PSF. POUNDS PER SQUARE FOOT PSI. POUNDS PER SQUARE INCH PT. POINT OF TANGENCY PV. PLUG VALVE PVC. POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE PAVEMENT QTY. QUANTITY R. RIGHT RAD. RADIUS RCP. REINFORCED CONCRETE PIPE RD. ROOF DRAIN RE. REFERENCE RECT. RECTANGULAR REINF. REINFORCE (D) (ING) (MENT) REQ. REQUIRED ROW. RIGHT OF WAY SAN. SANITARY SD. STORM DRAIN SECT. SECTION SPEC. STANDARD PROCTOR DENSITY SQ. SQUARE SQ IN. SQUARE INCH SQ FT. SQUARE FOOT SQ YD. SQUARE YARD SS. SANITARY SEWER SST. STAINLESS STEEL STA. STATION STD. STANDARD STL. STEEL STRUCT. STRUCTURAL SVC. SERVICE SWMP. STORMWATER MANAGEMENT PLAN SYM. SYMMETRICAL TB. THRUST BLOCK TBC. TOP BACK OF CURB TBM. TEMPORARY BENCH MARK TEMP. TEMPORARY TFC. FINISHED GRADE ADJACENT TO TOP OF WALL THK. THICK TOB. TOP OF BANK TOC. TOP OF CONCRETE OR TOP OF CURB TOS. TOP OF STEP TOT. TOTAL TOT. TOTAL TW. TOP OF WALL OR CAP OF WALL TYP. TYPICAL UBC. UNIFORM BUILDING CODE UGE. UNDERGROUND ELECTRIC UTIL. UTILITY VERT. VERTICAL VC. POINT OF VERTICAL CURVATURE VCP. VITRIFIED CLAY PIPE W. WIDE OR WIDTH W. WITH W/O. WITHOUT WQCV. WATER QUALITY CONTROL VOLUME WSE. WATER SURFACE ELEVATION WW. WASTEWATER X. SECT CROSS SECTION XFMR. ELECTRICAL TRANSFORMER YH. YARD HYDRANT
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**DESIGN LEGEND**

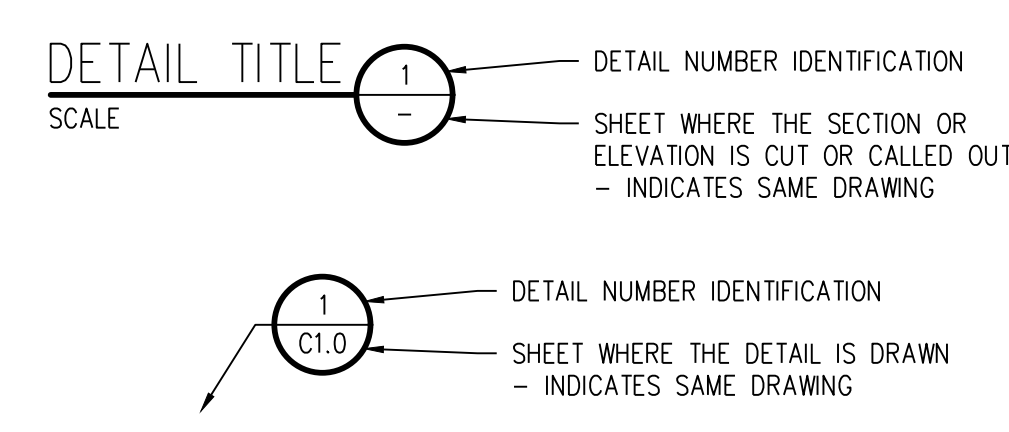


**GENERAL NOTES**

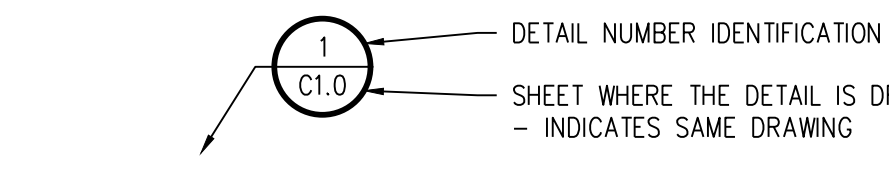
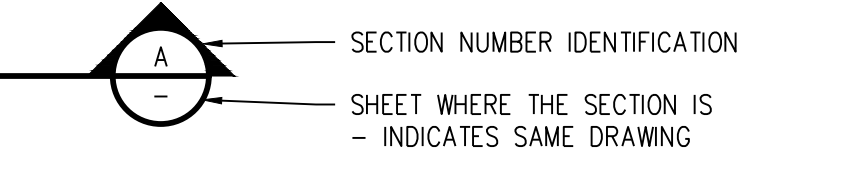
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE EL PASO COUNTY, FALCON SCHOOL DISTRICT, COLORADO DEPARTMENT OF TRANSPORTATION, FALCON FIRE PROTECTION REQUIREMENTS, USDOH FROM MILE HIGH FLOOD DISTRICT, WOODMEN HILLS WATER AND SANITARY AND APPLICABLE STATE AND LOCAL STANDARDS AND SPECIFICATIONS. THIS CONTRACTOR SHALL HAVE IN POSSESSION AT THE JOB SITE AT ALL TIMES ONE (1) SIGNED COPY OF APPROVED PLANS, STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN EMERGENCY ACCESS ROUTES TO THE SITE AND STRUCTURE AT ALL TIMES PER THE APPLICABLE FALCON FIRE PROTECTION DISTRICT REQUIREMENTS. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FOR ANY VARIANCE TO THE ABOVE DOCUMENTS. NOTIFY ENGINEER OF ANY CONFLICTING STANDARDS OR SPECIFICATIONS. IN THE EVENT OF ANY CONFLICTING STANDARD OR SPECIFICATION, THE MORE STRINGENT OR HIGHER QUALITY STANDARD, DETAIL OR SPECIFICATION SHALL APPLY.
- THE CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL APPLICABLE CODES, LICENSES, STANDARD SPECIFICATIONS, PERMITS, BONDS, ETC., WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK, INCLUDING, BUT NOT LIMITED TO A LOCAL AND STATE GROUNDWATER DISCHARGE AND COLORADO DEPARTMENT OF HEALTH AND ENVIRONMENT (CDPHE) STORMWATER DISCHARGE PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE REQUIRED PARTY (FALCON SCHOOL DISTRICT, OWNER'S REPRESENTATIVE, EL PASO COUNTY/FALCON INSPECTOR, GEOTECHNICAL AUTHORITY, ENGINEER AND/OR UTILITY OWNER) AT LEAST 48 HOURS PRIOR TO START OF ANY CONSTRUCTION, PRIOR TO BACKFILLING, AND AS REQUIRED BY JURISDICTIONAL AUTHORITY AND/OR PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL CONTINUE WITH NOTIFICATIONS THROUGHOUT THE PROJECT AS REQUIRED BY THE STANDARDS AND SPECIFICATIONS.
- THE LOCATIONS OF EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION BASED ON INFORMATION BY OTHERS. NOT ALL UTILITIES MAY BE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT SIZE, LOCATION AND TYPE OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT BEFORE COMMENCING WORK. THE ENGINEER AND/OR OWNER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS SHOWN ON PLANS. THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES AND COSTS WHICH MIGHT OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES. THE CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITY COMPANIES AND DETERMINE THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO PROCEEDING WITH GRADING AND CONSTRUCTION. ALL WORK PERFORMED IN THE AREA OF UTILITIES SHALL BE PERFORMED AND INSPECTED ACCORDING TO THE REQUIREMENTS OF THE UTILITY OWNER. LIKEWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MAPPING ANY EXISTING UTILITY (INCLUDING DEPTH) WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION, AND FOR RELOCATING ENCOUNTERED UTILITIES AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL CONTACT AND RECEIVE APPROVAL FROM EL PASO COUNTY/UTILITY OWNER AND ENGINEER BEFORE RELOCATING ANY ENCOUNTERED UTILITIES. CONTRACTOR RESPONSIBLE FOR SERVICE CONNECTIONS, AND RELOCATING AND RECONNECTING AFFECTED UTILITIES AS COORDINATED WITH UTILITY OWNER AND/OR ENGINEER, INCLUDING NON-MUNICIPAL UTILITIES (TELEPHONE, GAS, CABLE, ETC., WHICH SHALL BE COORDINATED WITH THE UTILITY OWNER). THE CONTRACTOR SHALL IMMEDIATELY CONTACT ENGINEER UPON DISCOVERY OF A UTILITY DISCREPANCY OR CONFLICT. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY NOTIFICATION CENTER OF COLORADO (1-800-922-1987, WWW.UCC.ORG). SEE SURVEY UTILITY LOCATION INFORMATION BELOW.
- THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN FOR OWNER AND/OR CITY APPROVAL AND PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FENCING, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR AGREES TO COMPLY WITH THE PROVISIONS OF THE TRAFFIC CONTROL PLAN AND THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," PART VI, FOR CONSTRUCTION SIGNAGE AND TRAFFIC CONTROL. ALL TEMPORARY AND PERMANENT TRAFFIC SIGNS SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WITH REGARD TO SIGN SHAPE, COLOR, SIZE, LETTERING, ETC. UNLESS OTHERWISE SPECIFIED. IF APPLICABLE, PART NUMBERS ON SIGNAGE DETAILS REFER TO MUTCD SIGN NUMBERS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY GROUNDWATER ENCOUNTERED DURING THE CONSTRUCTION OF ANY PORTION OF THIS PROJECT. GROUNDWATER SHALL BE PUMPED, PIPED, REMOVED AND DISPOSED OF IN A MANNER WHICH DOES NOT CAUSE FLOODING OF EXISTING STREETS NOR EROSION ON ADJUTING PROPERTIES IN ORDER TO CONSTRUCT THE IMPROVEMENTS SHOWN ON THESE PLANS. GROUNDWATER TO BE PUMPED SHALL BE TESTED, PERMITTED, AND PUMPED PER THE STATE OF COLORADO AND LOCAL GROUNDWATER DISCHARGING PERMIT REQUIREMENTS.
- RIM AND GRATE ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. THE CONTRACTOR SHALL ADJUST RIMS AND OTHER IMPROVEMENTS TO MATCH FINAL PAVEMENT AND FINISHED GRADE ELEVATIONS.
- THE EXISTING AND PROPOSED ELEVATIONS OF FLATWORK, SIDEWALKS, CURBS, THRESHOLDS, PAVING, ETC. AS SHOWN HEREON ARE BASED ON EXTRAPOLATION OF FIELD SURVEY DATA, EXISTING CONDITIONS, AND DATA PROVIDED BY OTHERS. AT CRITICAL AREAS AND SITE FEATURES, CONTRACTOR SHALL HAVE FOREWORK INSPECTED AND APPROVED BY OWNER, OWNER'S REPRESENTATIVE, OR ENGINEER PRIOR TO PLACING CONCRETE. MINOR ADJUSTMENTS, AS APPROVED, TO PROPOSED GRADES, INVERTS, ETC. MAY BE REQUIRED TO PREVENT PONDING OR SLOPE NOT IN CONFORMANCE WITH THE MANUAL STANDARDS. ALL FLATWORK MUST PREVENT PONDING AND PROVIDE POSITIVE DRAINAGE AWAY FROM EXISTING AND PROPOSED BUILDINGS, WALLS, ROOF DRAIN OUTFALLS, ACROSS DRIVES AND WALKS, ETC., TOWARDS THE PROPOSED INTENDED DRAINAGE FEATURES AND CONVEYANCES.
- FINAL LIMITS OF REQUIRED ASPHALT SAWCUTTING AND PATCHING MAY VARY FROM LIMITS SHOWN ON PLANS. CONTRACTOR TO PROVIDE SMOOTH AND PATCH WORK TO ACHIEVE POSITIVE DRAINAGE AND A SMOOTH TRANSITION TO EXISTING ASPHALT WITHIN SLOPES ACCEPTABLE TO THE ENGINEER AND WITHIN MUNICIPAL STANDARDS. CONTRACTOR SHALL PROVIDE ADDITIONAL SAWCUTTING AND PATCHING AT UTILITY WORK, CONNECTION POINTS TO EXISTING PAVEMENT AND FEATURES, ETC. THAT MAY NOT BE DELINEATED ON PLANS.
- ANY EXISTING MONITORING WELLS, CLEANOUTS, VALVE BOXES, ETC. TO BE PROTECTED AND TO REMAIN IN SERVICE. IF FEATURES EXIST, EXTEND OR LOWER TO FINAL SURFACE WITH LIKE KIND CAP WITH STANDARD CAST ACCESS LID WITH SAME MARKINGS. IN LANDSCAPED AREAS PROVIDE A CONCRETE COLLAR (18"x18"x6" THICK) AT ALL EXISTING AND PROPOSED MONITORING WELLS, CLEANOUTS, VALVE BOXES, ETC.
- OWNER TO APPROVE ALL PRIVATE CONCRETE FINISHING, JOINT PATTERNS AND COLORING REQUIREMENTS PRIOR TO CONSTRUCTION. SUBMIT JOINT LAYOUT PLAN TO OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.
- PIPE LENGTHS AND HORIZONTAL CONTROL POINTS SHOWN ARE FROM CENTER OF STRUCTURES, END OF FLARED END SECTIONS, ETC. SEE STRUCTURE DETAILS FOR EXACT HORIZONTAL CONTROL LOCATION. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ACTUAL PIPE LENGTHS TO ACCOUNT FOR STRUCTURES AND LENGTH OF FLARED END SECTIONS.
- ALL SURPLUS MATERIALS, TOOLS, AND TEMPORARY STRUCTURES, FURNISHED BY THE CONTRACTOR, SHALL BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR. ALL DEBRIS AND RUBBISH CAUSED BY THE OPERATIONS OF THE CONTRACTOR SHALL BE REMOVED, AND THE AREA OCCUPIED DURING CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ITS ORIGINAL CONDITION, WITHIN 48 HOURS OF PROJECT COMPLETION, UNLESS OTHERWISE DIRECTED BY THE MUNICIPALITY OR OWNER'S REPRESENTATIVE.
- THE CONTRACTOR IS REQUIRED TO PROVIDE AND MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE LOCAL JURISDICTION, THE STATE OF COLORADO, MILE HIGH FLOOD DISTRICT "URBAN STORM DRAINAGE CRITERIA MANUAL VOLUME 3", THE M-STANDARD PLANS OF THE COLORADO DEPARTMENT OF TRANSPORTATION, AND THE APPROVED EROSION CONTROL PLAN. JURISDICTIONAL AUTHORITY MAY REQUIRE THE CONTRACTOR TO PROVIDE ADDITIONAL EROSION CONTROL MEASURES AT THE CONTRACTOR'S EXPENSE DUE TO UNDESIRABLE EROSION PROBLEMS OR IF THE PLANS DO NOT FUNCTION AS INTENDED. THE CONTRACTOR IS RESPONSIBLE FOR PROHIBITING SILT AND DEBRIS LADEN RUNOFF FROM LEAVING THE SITE, AND FOR KEEPING ALL PUBLIC AREAS FREE OF MUD AND DEBRIS. THE CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING FINAL GRADES AND FOR REMOVING ACCUMULATED SEDIMENTATION FROM ALL AREAS INCLUDING SWALES AND DETENTION/WATER QUALITY AREAS. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AND REPAIR AREAS AS REQUIRED AFTER VEGETATION IS ESTABLISHED AND ACCEPTED BY OWNER AND MUNICIPALITY.
- ADA COMPLIANCE: THE CROSS-SLOPE OF ALL WALKS MUST BE LESS THAN 1:48 (2.0%) PERPENDICULAR TO DIRECTION OF TRAVEL. RUNNING SLOPE OF ACCESSIBLE WALKS MUST BE NOT STEEPER THAN 1:20 (5.0%) IN DIRECTION OF TRAVEL. MAXIMUM GRADE OF ACCESSIBLE CURB RAMPS AND RAMPS IS 1:12 (8.3%). CURB RAMPS SHALL PROVIDE A LANDING AT THE TOP AND RAMP RUNS PROVIDE LANDINGS AT THE BOTTOM AND TOP OF EACH RAMP RUN AT A SLOPE NOT TO EXCEED 1:48. RAMP RUNS EXCEEDING SIX INCHES SHALL INCLUDE HANDRAILS. ACCESSIBLE PARKING SPACES AND ACCESSIBLE AREAS SHALL NOT EXCEED 1:48 IN ALL DIRECTIONS. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO PLACEMENT OF FLATWORK OF SITE CONDITIONS OR DISCREPANCIES WHICH PREVENT TYPICAL REQUIRED GRADES FROM BEING ACHIEVED. ALL RAMPS, STAIRS, EDGE PROTECTION, AND RAILINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT ADA STANDARDS. ACCESSIBLE CURB RAMPS SHALL CONFORM TO THE CDOT M-STANDARDS (SEE DETAIL M-608-1, ETC). ACCESSIBLE FEATURE WITHIN THE PUBLIC RIGHTS-OF-WAY SHALL BE CONSTRUCTED TO CONFORM TO THE LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS.
- PROTECT ALL TREES AND VEGETATION. PLACE CONSTRUCTION FENCING AT DRIP LINE OF TREES AND PLANTS NEAR THE WORK ZONE. DEEP WATER TREES WEEKLY. HAND EXCAVATION REQUIRED AT ROOT ZONES WHERE PROPOSED PAVING OR UTILITY WORK IS WITHIN DRIPLINE OF TREES.
- SURVEY INFORMATION:  
17.1. BENCHMARK INFORMATION: TOPOGRAPHIC INFORMATION WAS PROVIDED BY RIDGELINE LAND SURVEYING. SEE TOPOGRAPHIC EXHIBIT DATED 12/13/2021. PROJECT BENCHMARK ELEVATION WAS ESTABLISHED AT TWO LOCATIONS: BM#1 NORTH FLANGE BOLT ON HYDRANT LOCATED AT THE SW CORNER OF THE SITE DUE WEST OF THE SOUTH LINE OF THE BUILDING AT THE WEST EDGE OF THE PARKING LOT ELEV= 6788.72'. BM#2 FLANGE BOLT BETWEEN "MUELLER" ON HYDRANT, LOCATED AT THE WEST SIDE OF THE PLAYGROUND AREA NORTH OF THE BUILDING ELEV= 6796.57'. COORDINATE AND VERIFY ALL VERTICAL AND HORIZONTAL DATA SHOWN IN SURVEY AND REPORT ANY IRREGULARITIES OR DISCREPANCIES TO ENGINEER PRIOR TO CONSTRUCTION.  
17.2. HORIZONTAL CONTROL INFORMATION: HORIZONTAL CONTROL COORDINATES ARE BASED ON THE REFERENCED SURVEY AND ARE PROVIDED BY THE FOLLOWING POINTS AS SHOWN ON THE PLANS:  
CP-1 N-4358.77 E7860.03 ELEV 6798.30 PIN CAP  
CP-2 N-3520.24 E7381.05 ELEV 6790.02 PIN CAP  
CP-3 N-2086.73 E6973.99 ELEV 6816.11 PIN CAP  
N-1685.44 E7883.2 ELEV 6812.0 PIN CAP
- DATUM INFORMATION: THE VERTICAL CONTROL WAS BASED ON LOCAL ADJACENT PROJECT SITE DATUM. TO ACHIEVE NGVD 1929 ELEVATION SUBTRACT 0.33' FROM THE PROJECT ELEVATION. TO ACHIEVE NAVD 1988 ADD 3.8' TO PROJECT ELEVATIONS.
- FLOOD PLAIN STATEMENT: A PORTION OF THIS PROPERTY LIES IN ZONE AE, PER FLOOD INSURANCE RATE MAP NO. 080410561G DATED DECEMBER 7, 2018. BASE FLOOD ELEVATION HAS BEEN DETERMINED REFERENCING THE NAVD1988 ELEVATION DATUM. FIELD SURVEYING WAS NOT PERFORMED TO DETERMINE THESE ZONES.
- THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE SHALL FURNISH THE OWNER AND ENGINEER OF RECORD A COMPLETE SET OF CONSTRUCTION RECORD DRAWINGS ("AS-BUILTS") FOR THE CONSTRUCTED IMPROVEMENTS. THE AS-BUILT SET SHALL SHOW SUFFICIENT DIMENSION TIES TO PERMANENT SURFACE FEATURES OR NORTHING/EASTING POINTS FOR ALL BURIED FACILITIES TO ALLOW FOR FUTURE LOCATING. THE AS-BUILT SET SHALL SHOW AS-BUILT CONTOURS AND ELEVATIONS OF ASPHALT AND CONCRETE FLATWORK, FLOWLINES, GRADE BREAKS, STAIRS, CROSS-SLOPES, HIGH AND LOW POINTS, AND ADDITIONAL ELEVATIONS TO DEMONSTRATE IMPROVEMENTS WERE CONSTRUCTED PER PLANS. THE AS-BUILT SET SHALL SHOW ELEVATIONS OF ALL DETENTION/WATER QUALITY FACILITIES, INCLUDING BUT NOT LIMITED TO BERMS, SPILLWAYS, BASIN BOTTOM, PIPE INVERTS, AND CONTROL STRUCTURE FEATURES (AS-BUILT AND STAMPED BY A CERTIFIED P.L.S.). THE AS-BUILT SET SHALL ALSO INCLUDE ELEVATIONS OF MANHOLES, PIPES, INLETS, GRATES, AND SIZES OF ALL UTILITIES. THE AS-BUILT SET SHALL SHOW ANY AND ALL VARIATIONS FROM THE APPROVED PLAN. ENGINEER WILL PRODUCE FINAL RECORD DRAWINGS.
- COORDINATE ALL CONSTRUCTION ACTIVITIES WITH DISTRICT 49 LOT OWNER PRIOR TO CONSTRUCTION.
- NO ASPHALT BATCH PLANTS SHALL BE UTILIZED ONSITE.
- EXISTING NATIVE VEGETATION IS MAINLY COMPRISED OF GRASSES, BUSHES, AND SHRUBS THAT MAINTAIN APPROXIMATELY 70% GROUND COVER.



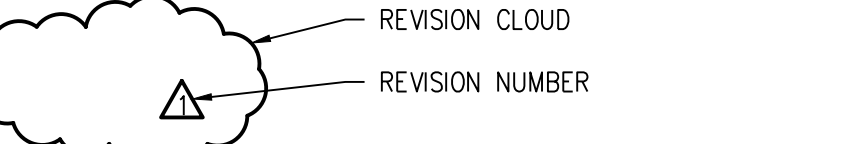
**DETAIL TITLE**



**SECTION CALLOUT**



**DETAIL MARKER**



**SURVEY LEGEND**



**ABBREVIATIONS**

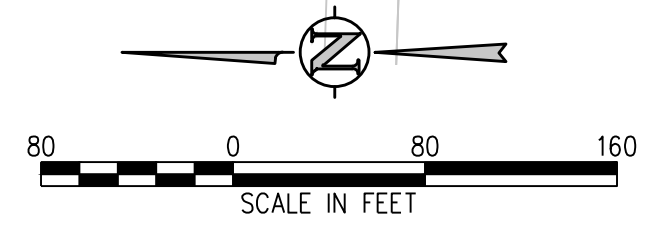
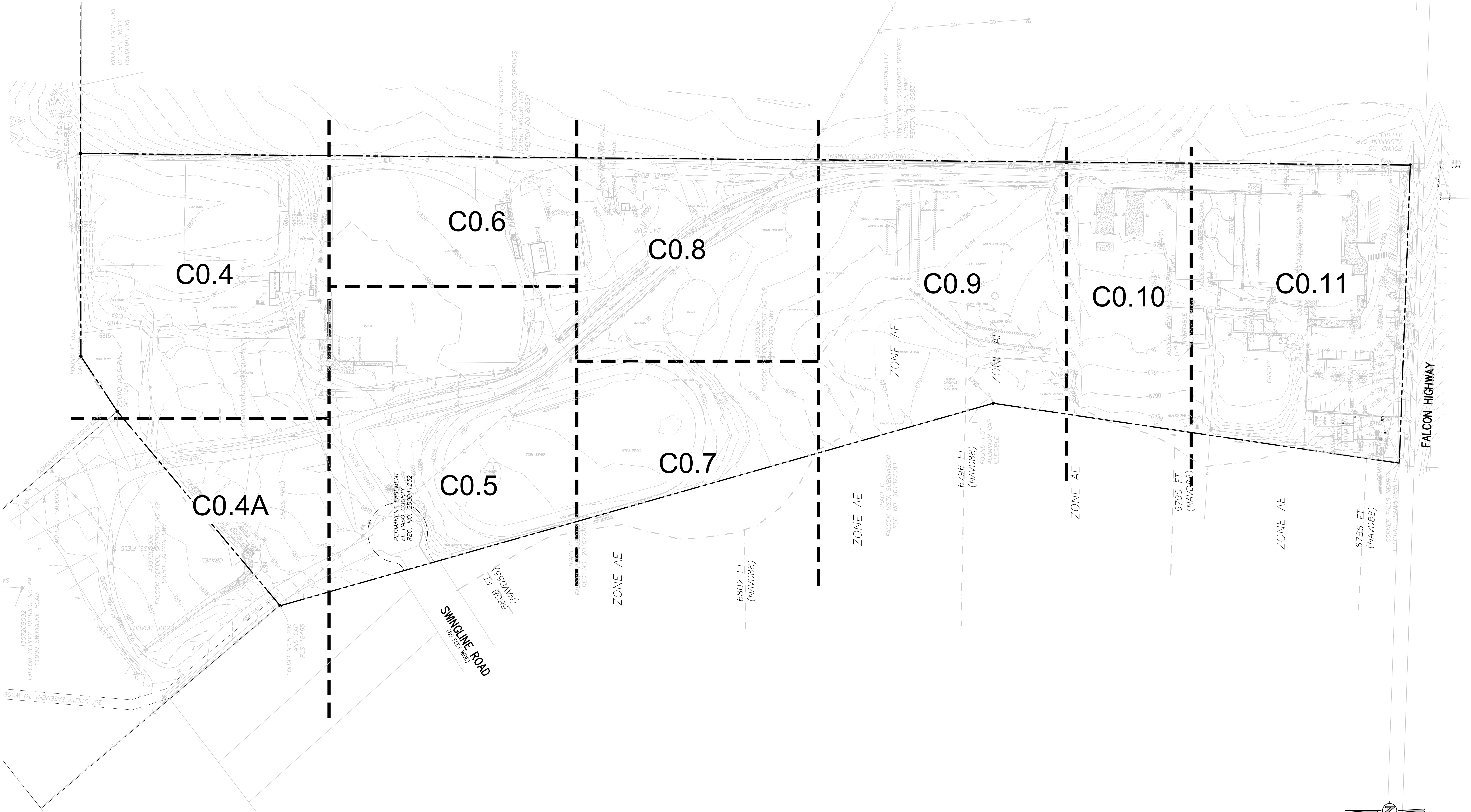
LE. = INVERT ELEVATION	AL. = ALUMINUM
T.O.P. = TOP OF PIPE	RPC. = RED PLASTIC CAP
FL. = FLOWLINE	YPC. = YELLOW PLASTIC CAP
B.O.P. = BOTTOM OF PIPE	OPC. = ORANGE PLASTIC CAP
SAN. = SANITARY SYSTEM	MON. = MONUMENT
	IP. = IRON PIPE



**LEGEND, NOTES AND ABBREVIATIONS**

WTA PROJECT NUMBER  
**2021-041-00**  
DATE  
**4/12/2023**  
REVISIONS

NO.	DATE	DESCRIPTION
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**DEMOLITION LEGEND**

- DEMO SUBSURFACE FEATURE
- DEMO SURFACE FEATURE
- DEMO BUILDING
- ABANDON SUBSURFACE FEATURE
- LIMITS OF SAWCUT
- REMOVE EXISTING TREE
- PROTECT EXISTING TREE

- DEMOLITION NOTES:**
- CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY LOCATION AND PROTECTION.
  - ACTUAL LIMITS MAY VARY. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING LIMITS OF DEMOLITION AND CONSTRUCTION AS NECESSARY. COORDINATE DEMOLITION REQUIREMENTS, LIMITS OF DEMOLITION, SALVAGE ITEMS, PROTECTION OF ITEMS TO REMAIN, TREES, FENCING, ETC. WITH OWNER, ARCHITECT, ENGINEER, AND RELEVANT CONSTRUCTION AND PHASING PLANS.
  - IF BUILDING DEMOLITION IS REQUIRED, REFER TO ARCHITECT AND APPLICABLE ENGINEERS FOR DETAILED DEMOLITION INFORMATION.
  - REPLACE EXISTING FLATWORK AT UTILITY TRENCHES AS REQUIRED.
  - ALL SAWCUTTING AND PAVEMENT REMOVAL SHOULD BE TO THE NEAREST JOINT.
  - ALL DRY UTILITY AND ELECTRIC DEMOLITION OR RELOCATION SHOULD BE COORDINATED WITH PROPERTY OWNER, UTILITY OWNER, MECHANICAL ENGINEER, AND ARCHITECT PRIOR TO CONSTRUCTION.
  - ALL NECESSARY EROSION AND SEDIMENTATION CONTROLS MUST BE INSTALLED PRIOR TO CONSTRUCTION.
  - CONTRACTOR TO COMPLY WITH ALL REGULATORY REQUIREMENTS FOR HAZARDOUS MATERIAL REMOVAL AND DISPOSAL.
  - REFER TO GENERAL NOTES FOR TREE PROTECTION. COORDINATE WITH LANDSCAPE ARCHITECT FOR TREE REMOVAL.
  - CONTRACTOR TO MAINTAIN SAFE PEDESTRIAN ACCESS. PROVIDE TEMPORARY ROUTE AND SIGNAGE AS NEEDED.
  - CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT AND MAINTAIN SERVICES DURING CONSTRUCTION.
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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



**OVERALL DEMOLITION PLAN**

WTA PROJECT NUMBER  
**2021-041-00**

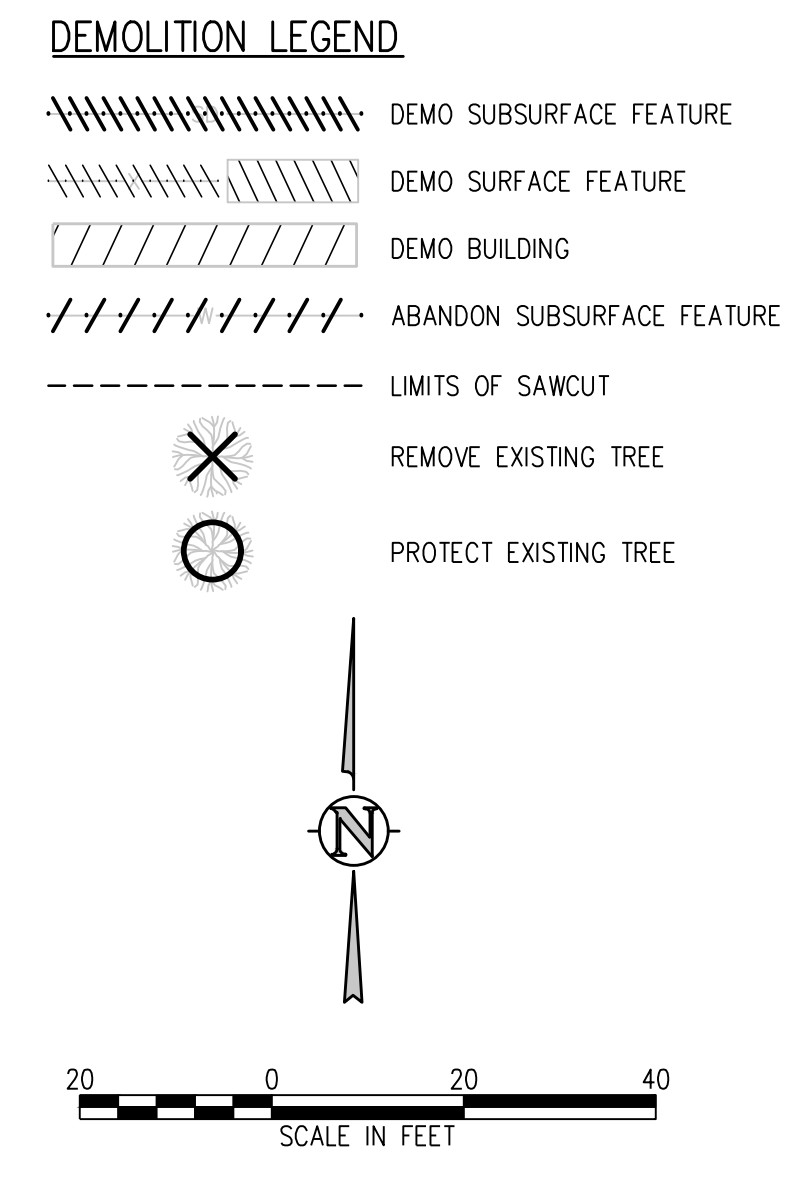
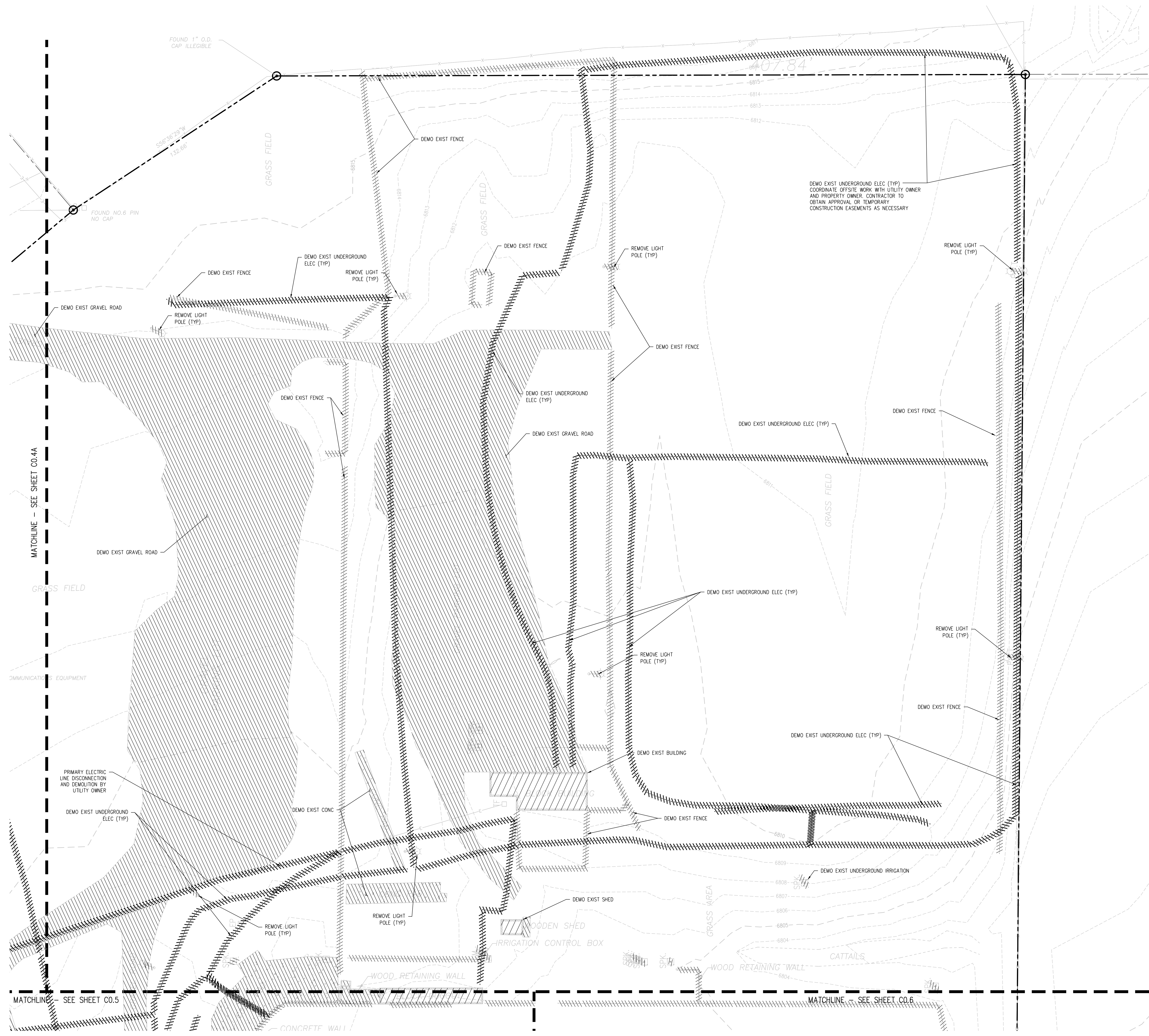
DATE  
**4/12/2023**

#	DATE	DESCRIPTION

DESIGNED BY: **WIK/HCM**  
CHECKED BY: **TWW/AMB**  
DATE: **4/12/2023**

CONSTRUCTION DOCUMENTS

- DEMOLITION NOTES:**
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  2. ACTUAL LIMITS MAY VARY; CONTRACTOR IS RESPONSIBLE FOR ADJUSTING LIMITS OF DEMOLITION AND CONSTRUCTION AS NECESSARY. COORDINATE DEMOLITION REQUIREMENTS, LIMITS OF DEMOLITION, SALVAGE ITEMS, PROTECTION OF ITEMS TO REMAIN, TREES, FENCING, ETC. WITH OWNER, ARCHITECT, ENGINEER, AND RELEVANT CONSTRUCTION AND PHASING PLANS.
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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



**DEMOLITION PLAN A**

DATE: 4/12/2023

REVISIONS

# DATE DESCRIPTION

DESIGNED BY: CWK/HCM  
CHECKED BY: TWK/AMB  
DATE: 4/12/2023

ISSUED FOR CONSTRUCTION DOCUMENTS

C0.4

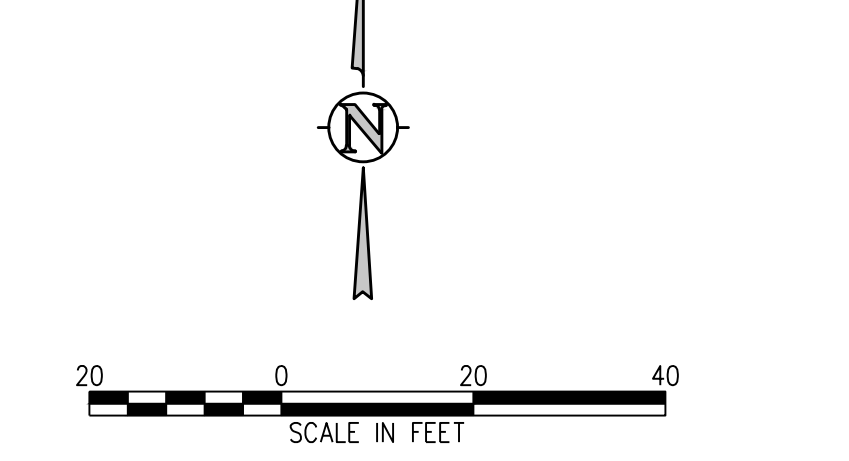
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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



**DEMOLITION LEGEND**

	DEMO SUBSURFACE FEATURE
	DEMO SURFACE FEATURE
	DEMO BUILDING
	ABANDON SUBSURFACE FEATURE
	LIMITS OF SAWCUT
	REMOVE EXISTING TREE
	PROTECT EXISTING TREE

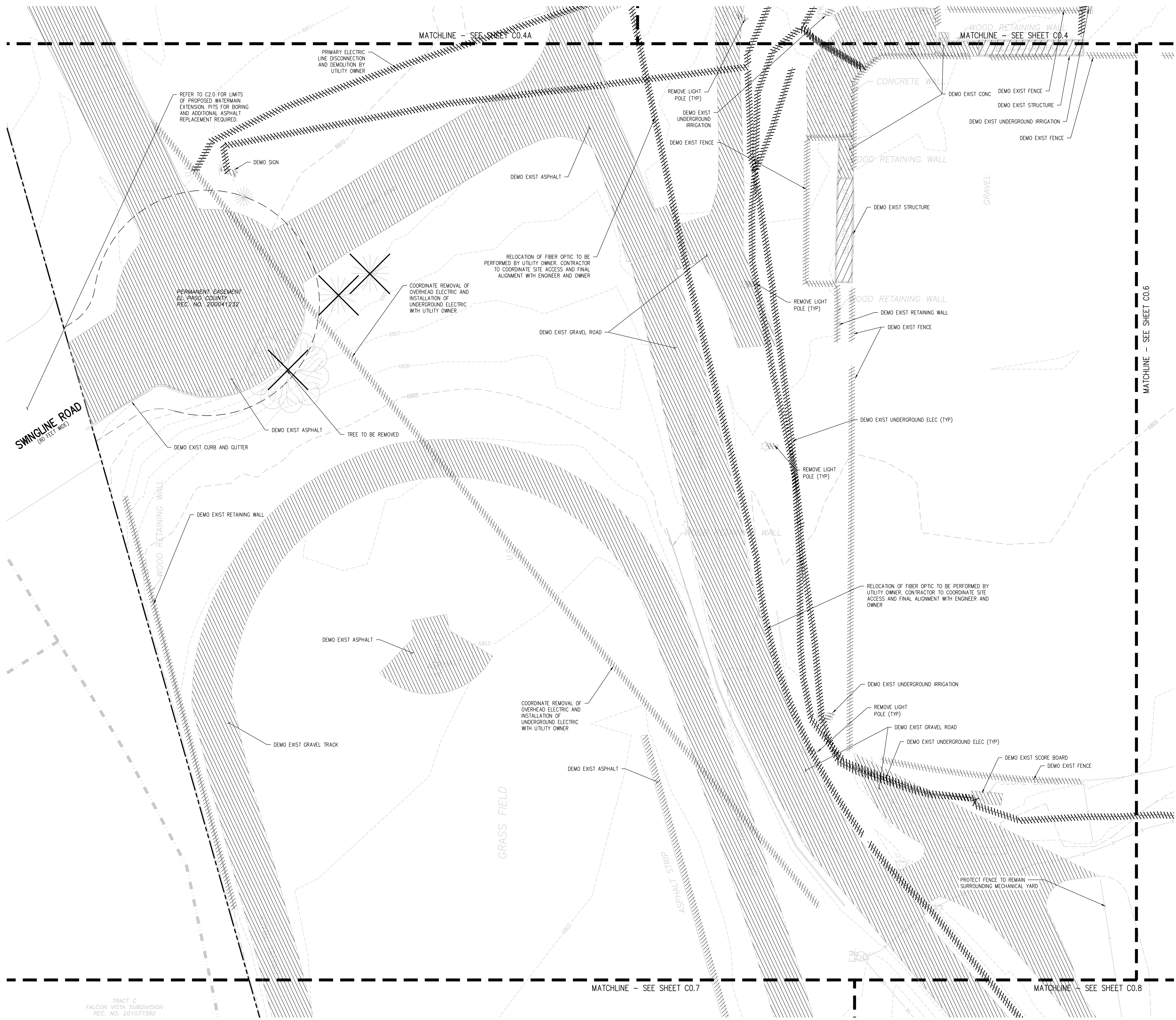


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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
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PEYTON, CO 80831

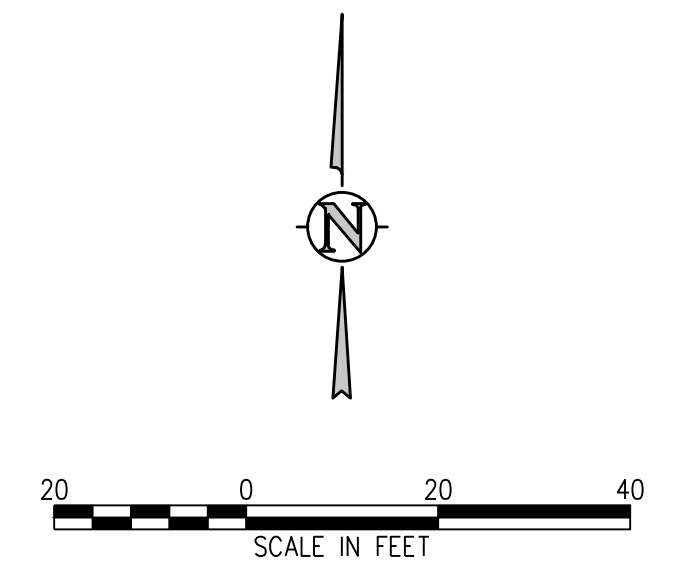


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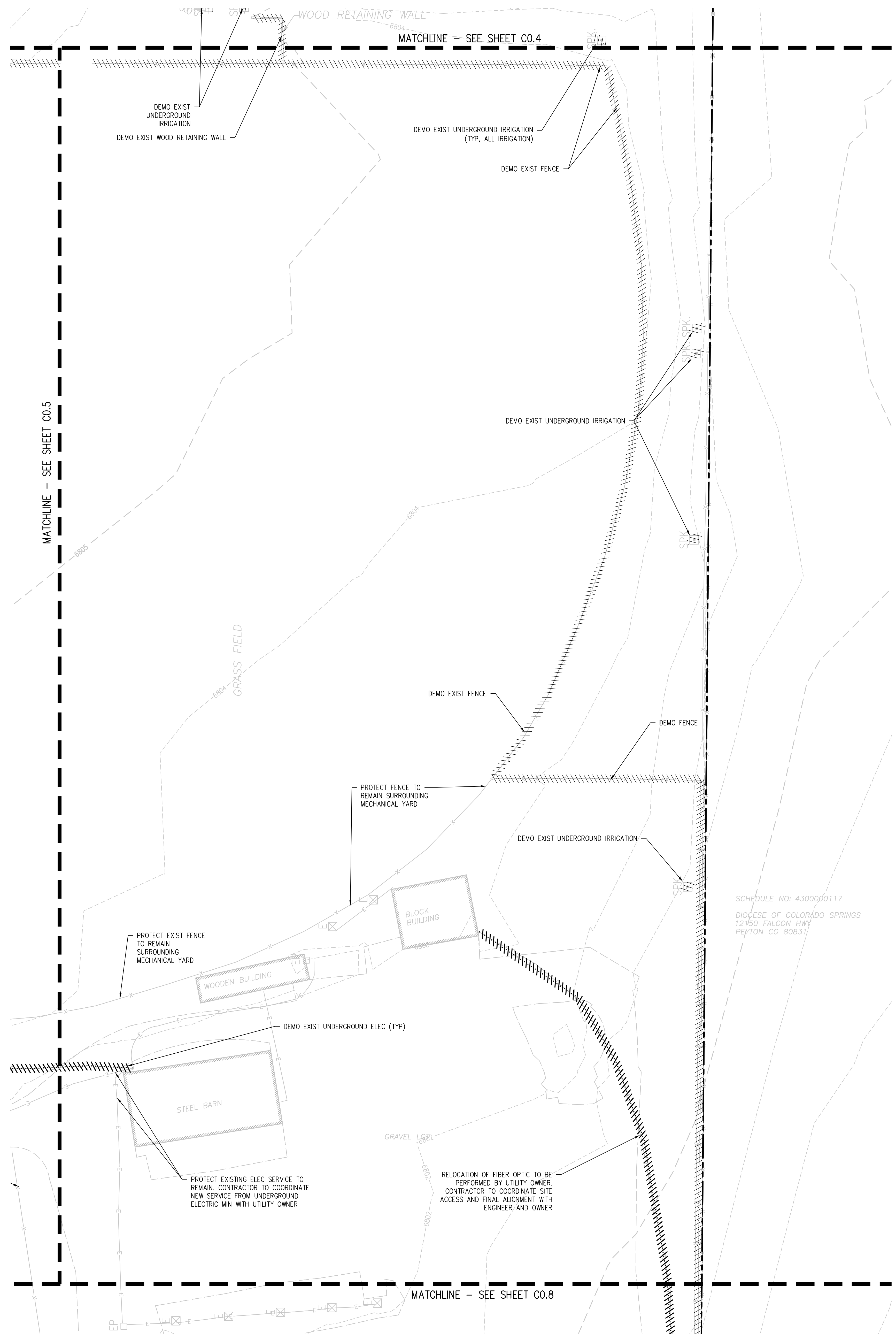
**DEMOLITION LEGEND**

	DEMOLITION SUBSURFACE FEATURE
	DEMOLITION SURFACE FEATURE
	DEMOLITION BUILDING
	ABANDON SUBSURFACE FEATURE
	LIMITS OF SAWCUT
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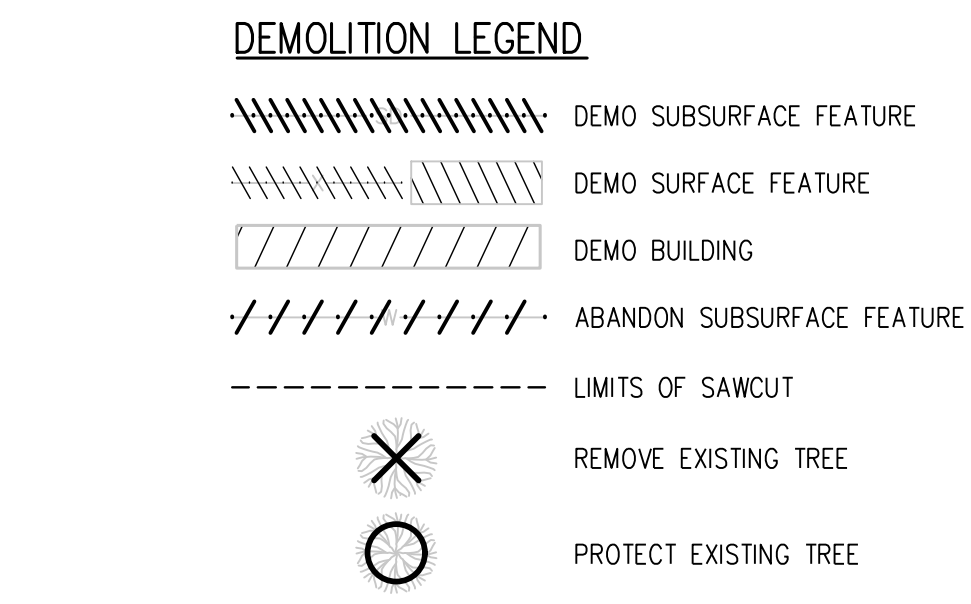


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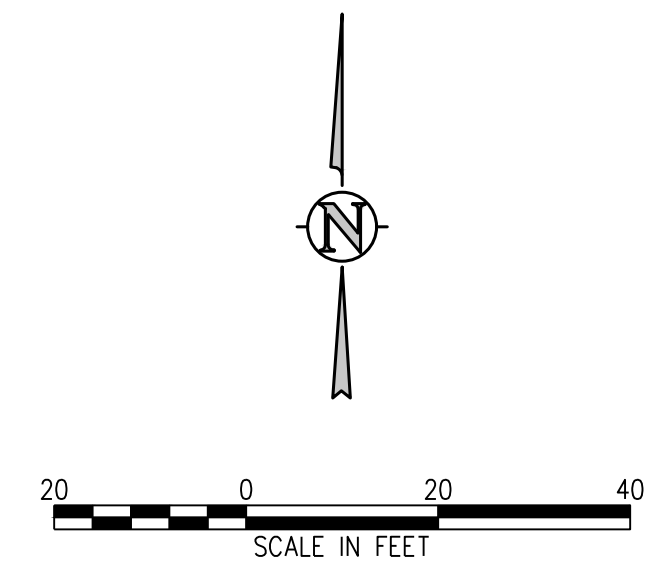
**D49 TRANSPORTATION CENTER**  
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SCHEDULE NO: 430000117  
 DIOCESE OF COLORADO SPRINGS  
 12150 FALCON HWY  
 PEYTON CO 80831

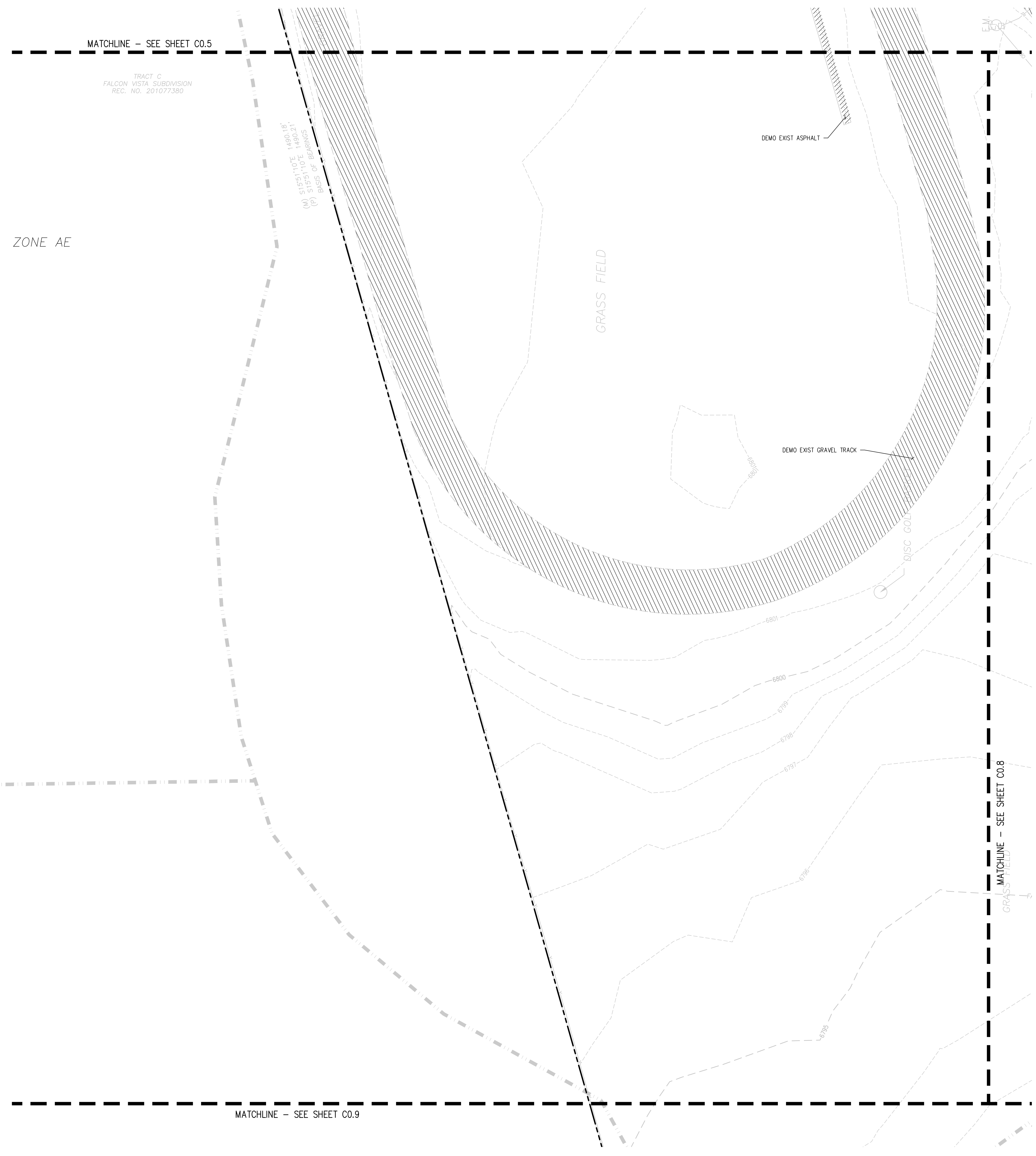


PROJECT NUMBER: 2021-041-00  
 DATE: 4/12/2023

#	DATE	DESCRIPTION

DESIGNED BY: CWK/HCM  
 DRAWN BY: TWK/HMB  
 CHECKED BY: CWK

ISSUED FOR CONSTRUCTION DOCUMENTS SHEET: C0.6



ZONE AE

MATCHLINE - SEE SHEET C0.5  
 TRACT C  
 FALCON VISTA SUBDIVISION  
 REC. NO. 201077380

(M) 51°51'11.07E 1480.16'  
 (P) 51°51'11.07E 1480.16'  
 BASIS OF BEARINGS

GRASS FIELD

DEMO EXIST ASPHALT

DEMO EXIST GRAVEL TRACK

DISC GOLF COURSE

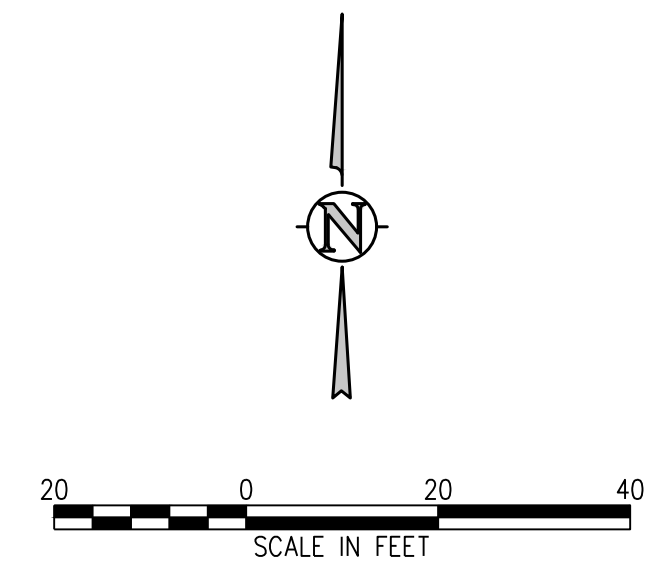
6802 FT  
 (NAVD88)

MATCHLINE - SEE SHEET C0.9

MATCHLINE - SEE SHEET C0.8

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- DEMO SUBSURFACE FEATURE
  - DEMO SURFACE FEATURE
  - DEMO BUILDING
  - ABANDON SUBSURFACE FEATURE
  - LIMITS OF SAWCUT
  - REMOVE EXISTING TREE
  - PROTECT EXISTING TREE



**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
 11971 SWINGLINE ROAD  
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SHEET TITLE  
**DEMOLITION PLAN D**

WTA PROJECT NUMBER  
**2021-041.00**  
 DATE  
**4/12/2023**

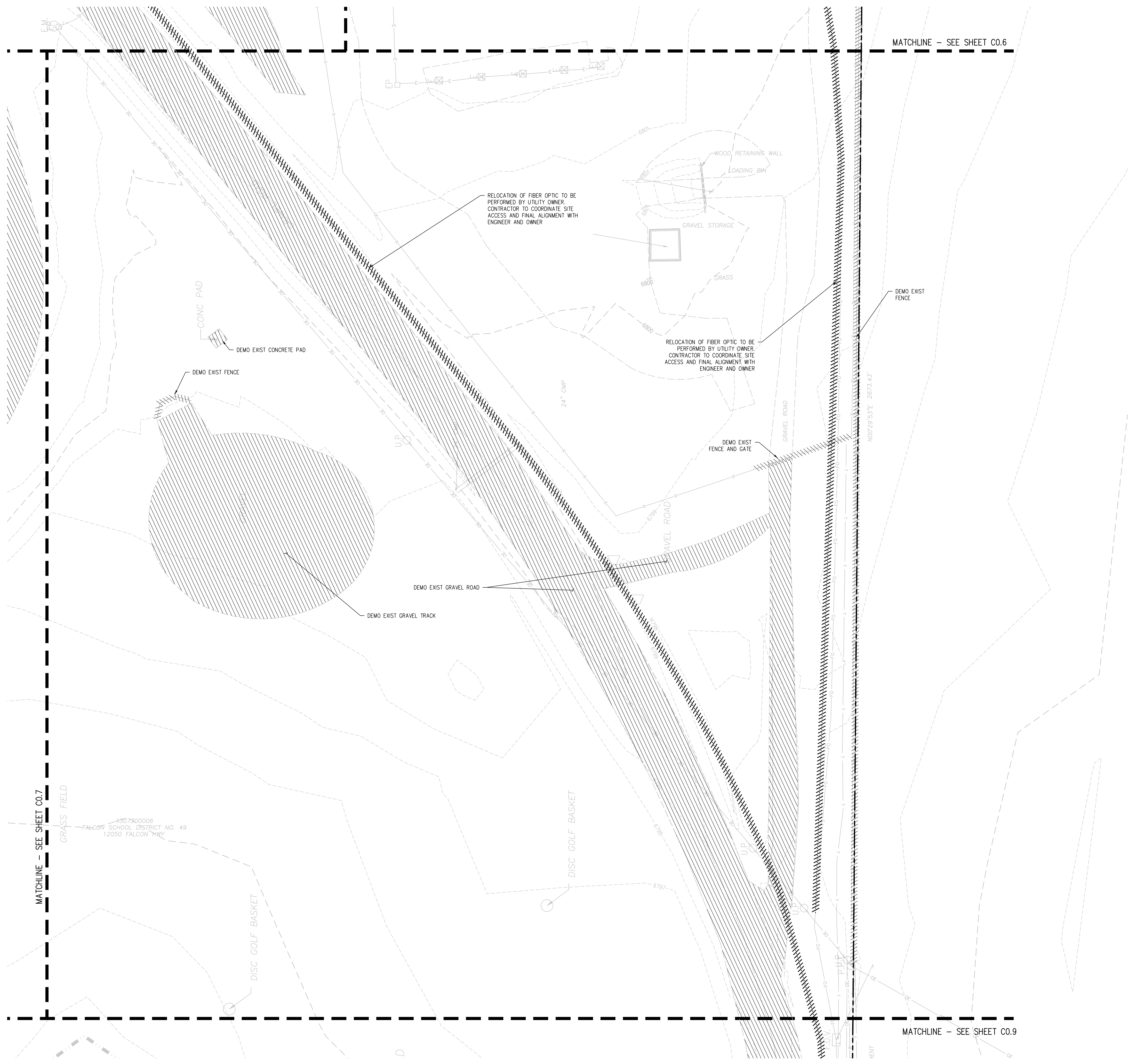
REVISIONS	DATE	DESCRIPTION

DESIGNED BY: CWK/HCM  
 DRAWN BY: TWW/AMB  
 CHECKED BY: CWK

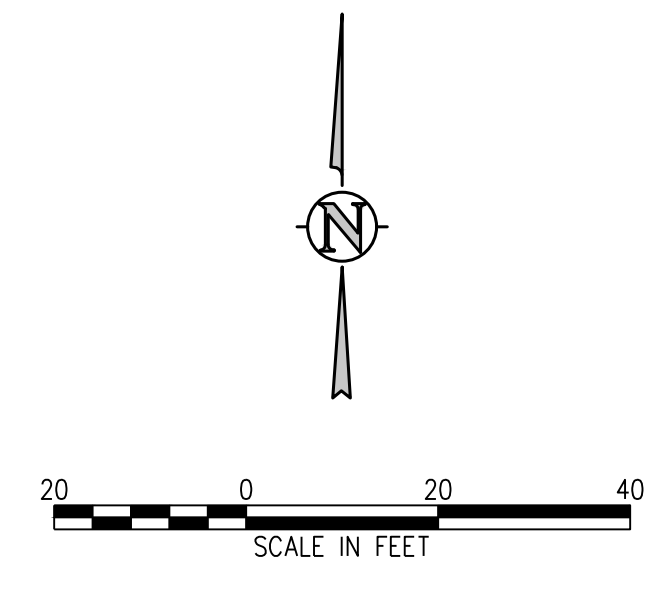
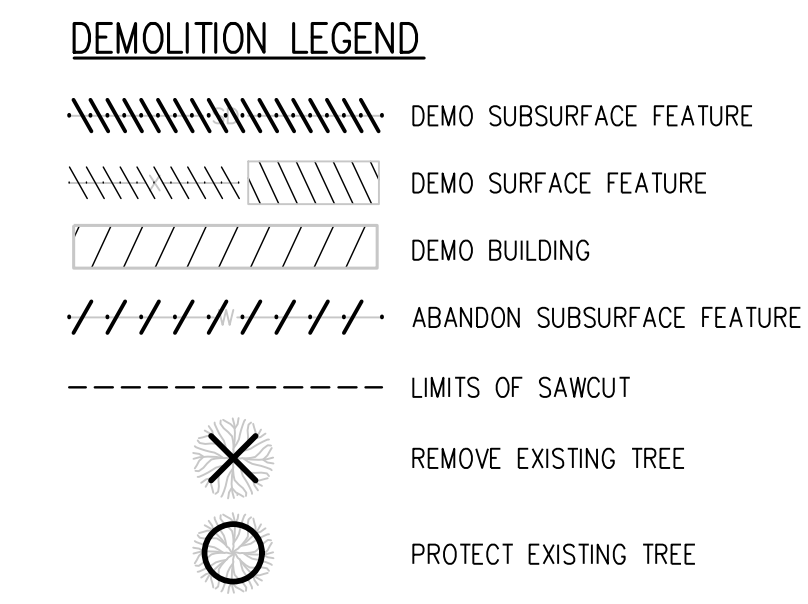
ISSUED FOR  
**CONSTRUCTION DOCUMENTS**  
 SHEET NO.  
**C0.7**



**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
 11971 SWINGLINE ROAD  
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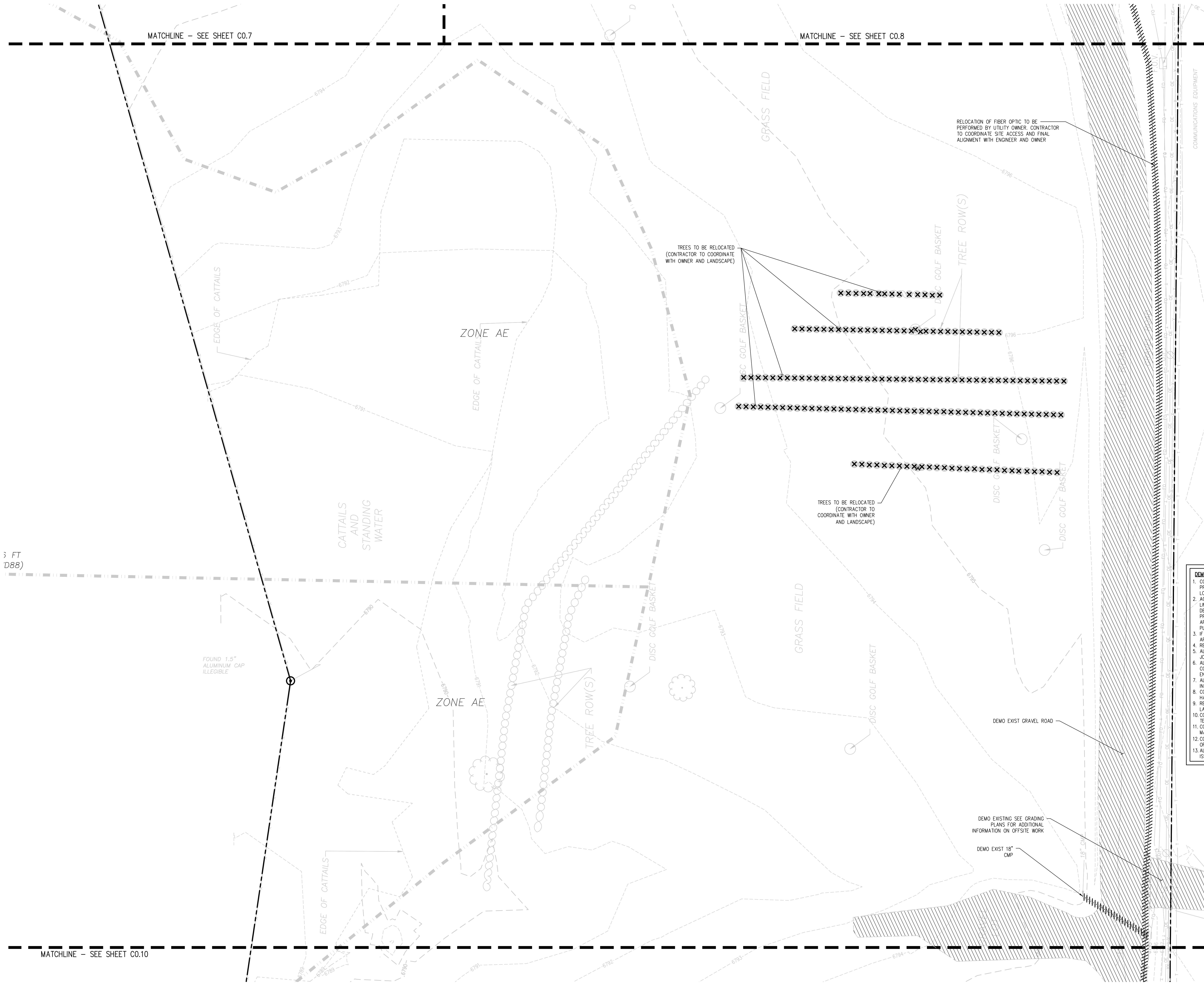
**DEMOLITION PLAN E**

DATE: 4/12/2023

PROJECT NUMBER: 2021-041.00  
 DRAWN BY: TWK/HCM  
 CHECKED BY: CWK  
 ISSUED FOR CONSTRUCTION DOCUMENTS  
**C0.8**

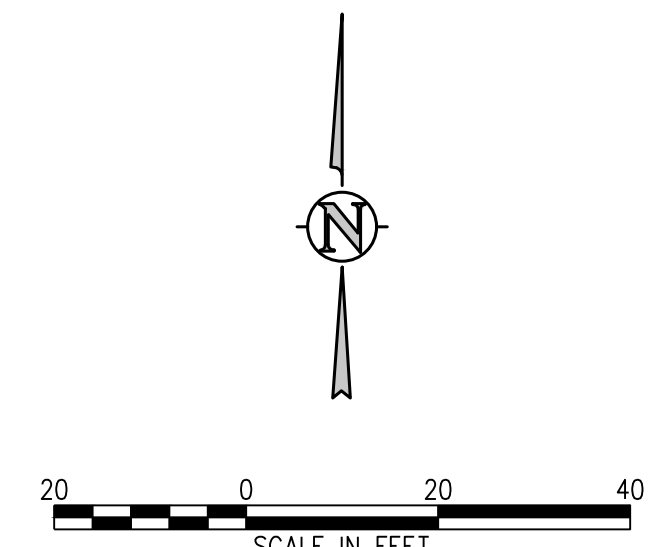
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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831

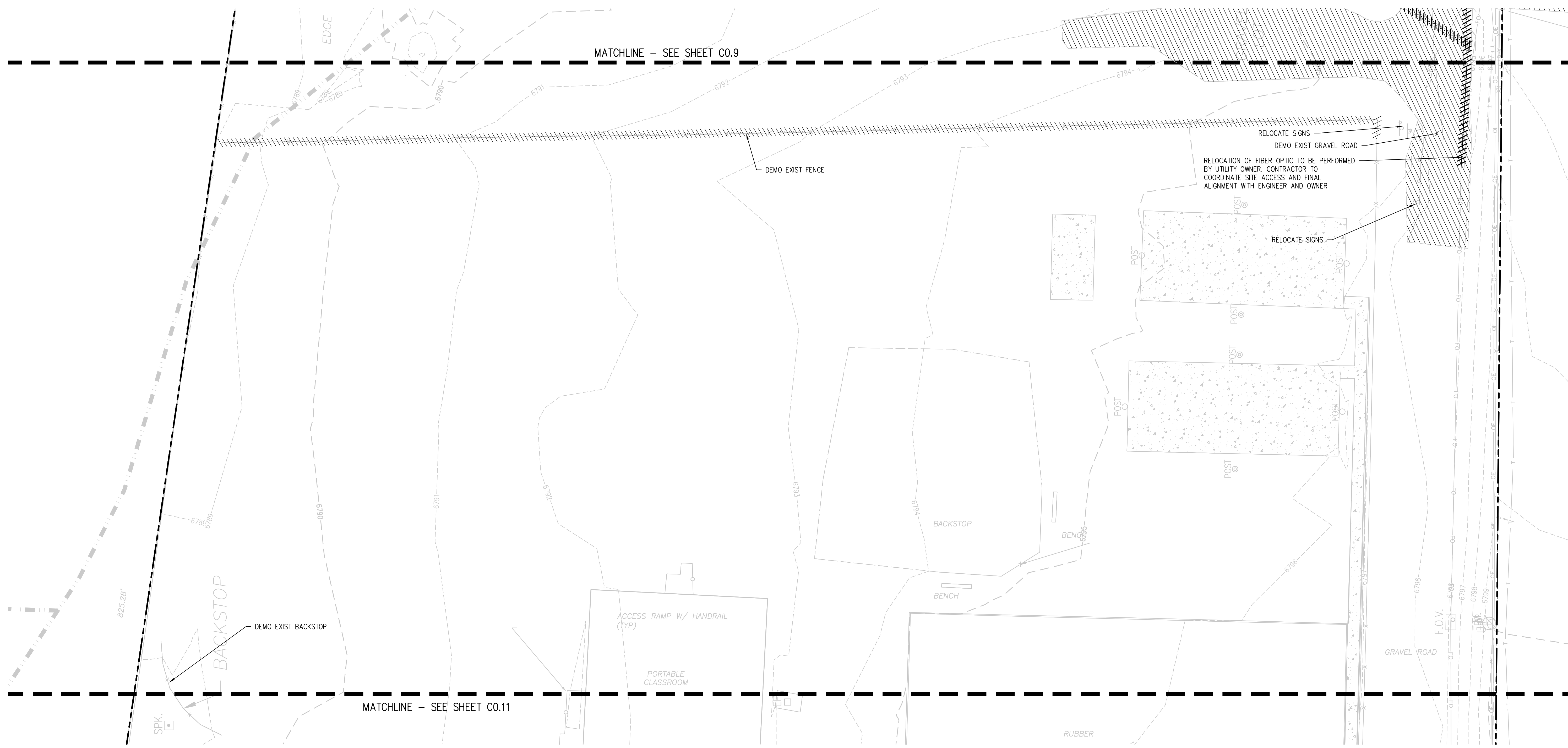


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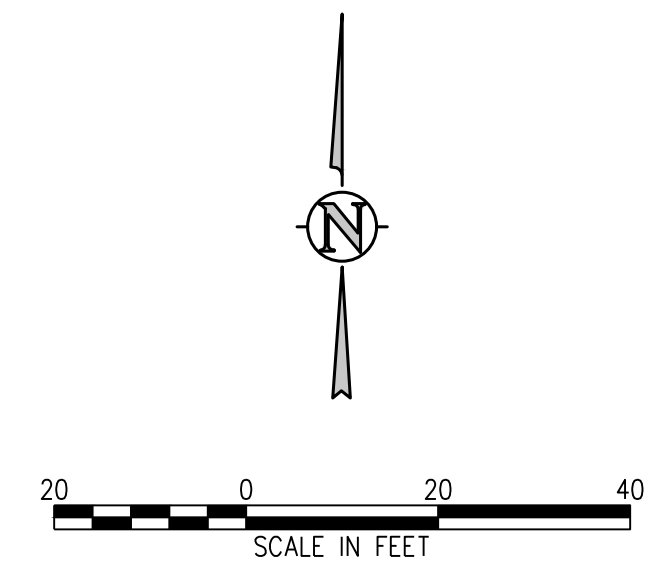
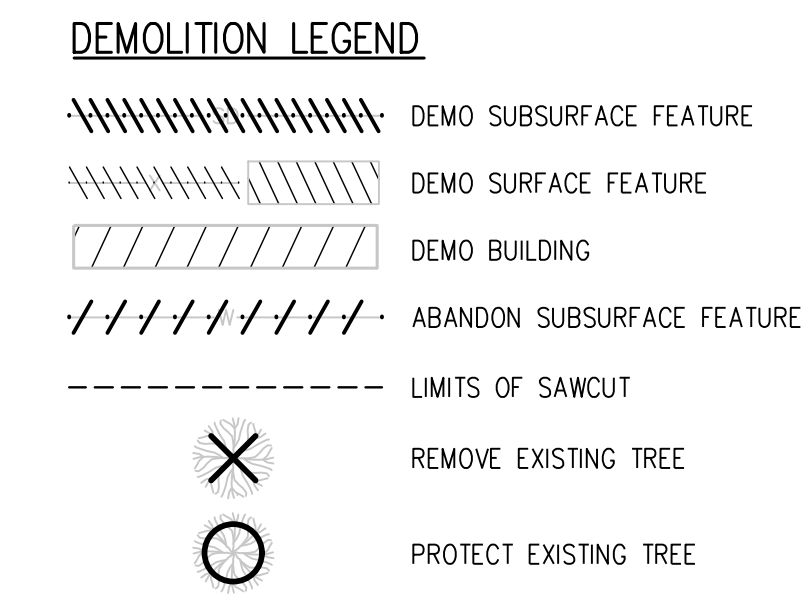
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  - DEMO SURFACE FEATURE
  - DEMO BUILDING
  - ABANDON SUBSURFACE FEATURE
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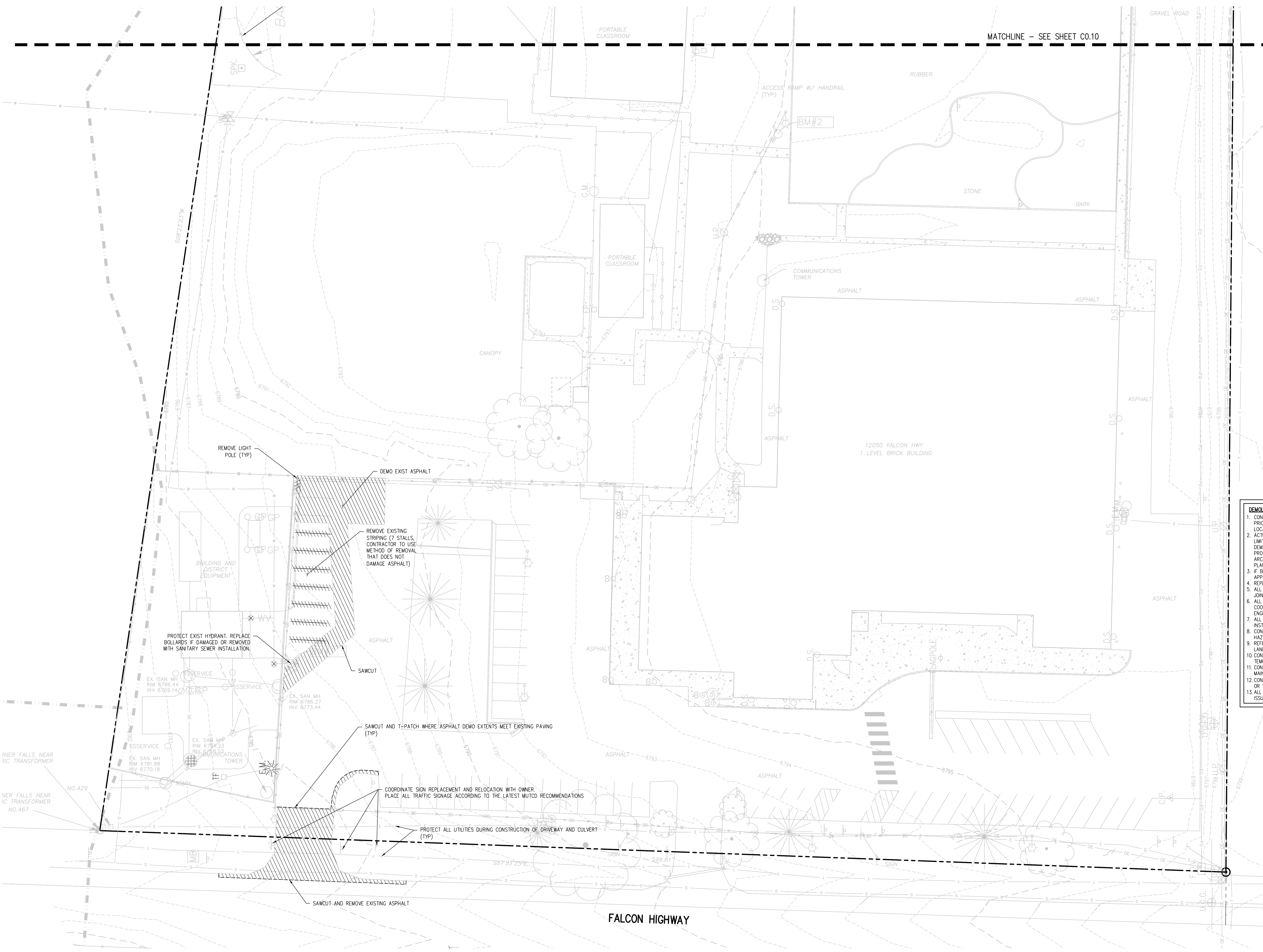
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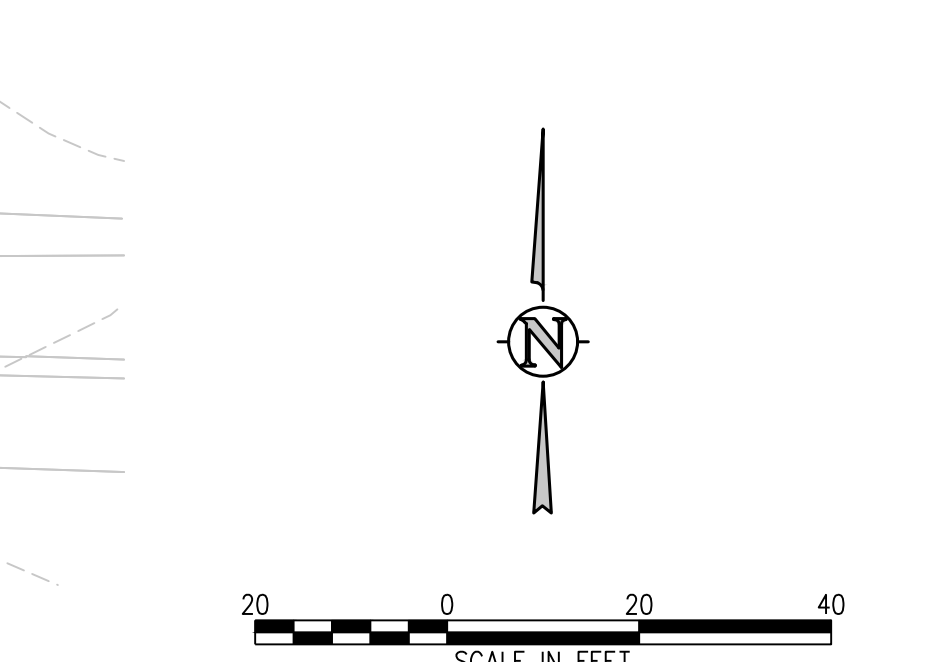
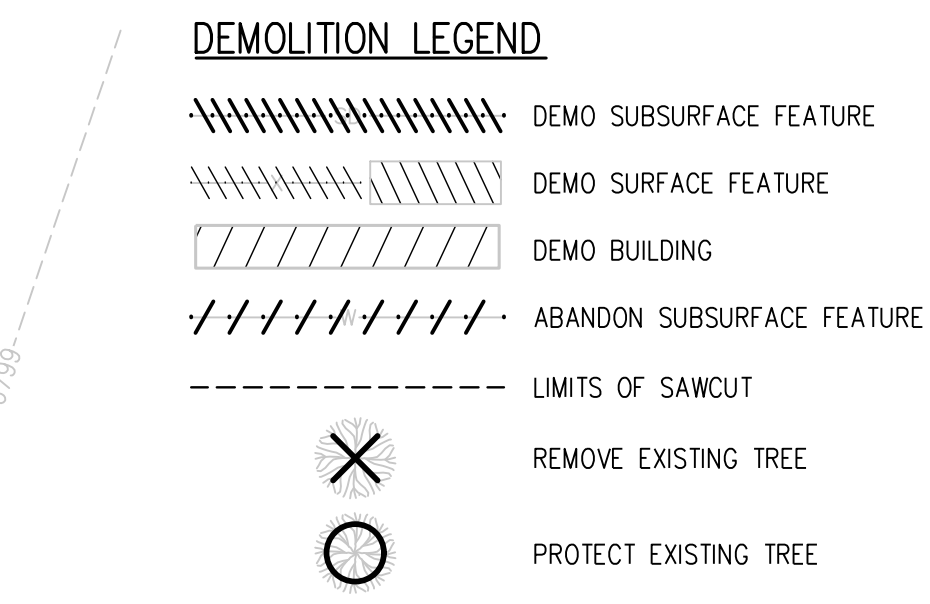
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 11971 SWINGLINE ROAD  
 PEYTON, CO 80831



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- DEMOLITION NOTES:**
1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY LOCATION AND PROTECTION.
  2. ACTUAL LIMITS MAY VARY. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING LIMITS OF DEMOLITION AND CONSTRUCTION AS NECESSARY. COORDINATE DEMOLITION REQUIREMENTS, LIMITS OF DEMOLITION, SALVAGE ITEMS, PROTECTION OF ITEMS TO REMAIN, TREES, FENCING, ETC. WITH OWNER, ARCHITECT, ENGINEER, AND RELEVANT CONSTRUCTION AND PHASING PLANS.
  3. IF BUILDING DEMOLITION IS REQUIRED, REFER TO ARCHITECT AND APPLICABLE ENGINEERS FOR DETAILED DEMOLITION INFORMATION.
  4. REPLACE EXISTING FLATWORK AT UTILITY TRENCHES AS REQUIRED.
  5. ALL SAWCUTTING AND PAVEMENT REMOVAL SHOULD BE TO THE NEAREST JOINT.
  6. ALL DRY UTILITY AND ELECTRIC DEMOLITION OR RELOCATION SHOULD BE COORDINATED WITH PROPERTY OWNER, UTILITY OWNER, MECHANICAL ENGINEER, AND ARCHITECT PRIOR TO CONSTRUCTION.
  7. ALL NECESSARY EROSION AND SEDIMENTATION CONTROLS MUST BE INSTALLED PRIOR TO SITE DISTURBANCE.
  8. CONTRACTOR TO COMPLY WITH ALL REGULATORY REQUIREMENTS FOR HAZARDOUS MATERIAL REMOVAL AND DISPOSAL.
  9. REFER TO GENERAL NOTES FOR TREE PROTECTION. COORDINATE WITH LANDSCAPE ARCHITECT FOR TREE REMOVAL.
  10. CONTRACTOR TO MAINTAIN SAFE PEDESTRIAN ACCESS. PROVIDE TEMPORARY ROUTE AND SIGNAGE AS NEEDED.
  11. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT AND MAINTAIN SERVICES DURING CONSTRUCTION.
  12. CONTRACTOR TO REPAIR/REPLACE ALL DAMAGE TO EXISTING FLATWORK OR SITE FEATURES NOT INTENDED FOR DEMOLITION.
  13. ALL INITIAL BMPs MUST BE INSTALLED AND A NOTICE TO PROCEED ISSUED BY THE COUNTY INSPECTOR PRIOR TO ANY SOIL DISTURBANCE.



**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831

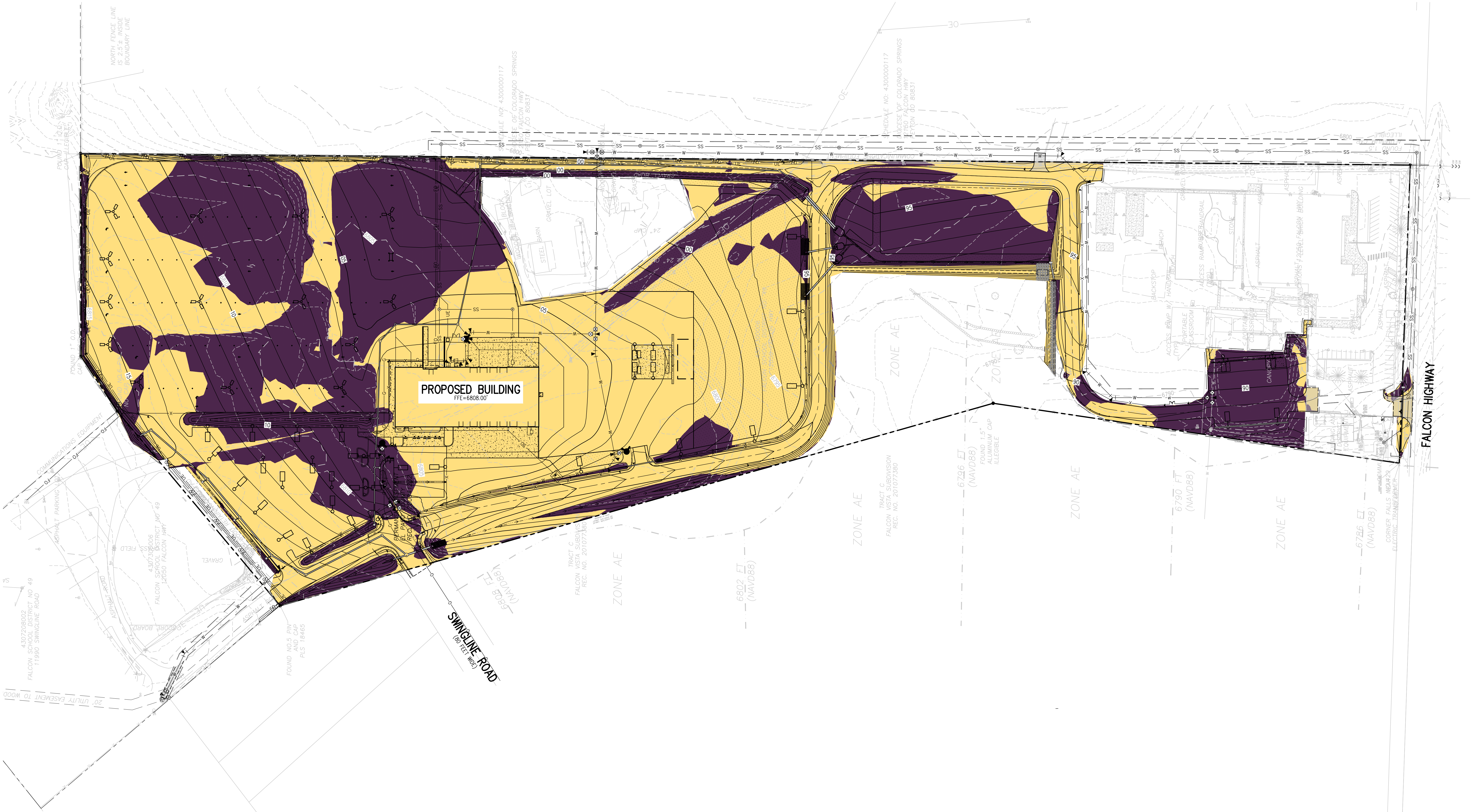


**DEMOLITION PLAN H**

DATE: 4/12/2023  
PROJECT NUMBER: 2021-041.00

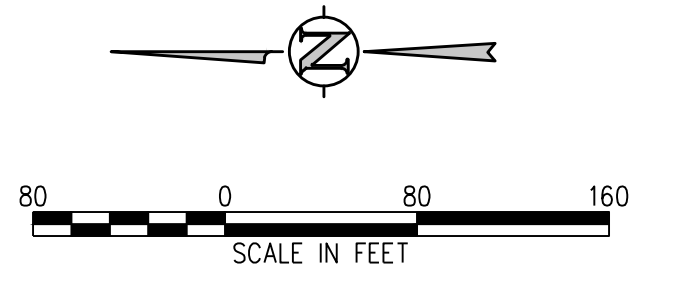
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**CUT & FILL DIAGRAM LEGEND**

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- LIMITS OF WORK
- AREAS OF CUT
- AREAS OF FILL



**EROSION AND SEDIMENTATION NOTES:**

1. CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL CONTROLS DURING INITIAL, INTERIM, AND FINAL CONDITIONS.
2. ALL CONTROLS SHALL BE INSTALLED WITHIN THE PROPERTY LINES UNLESS OTHERWISE SPECIFIED. WHEN CONSTRUCTION ACTIVITIES DISTURB ADJACENT AND/OR RIGHT-OF-WAY PROPERTIES, COORDINATION WITH PROPERTY OWNERS IS REQUIRED PRIOR TO CONSTRUCTION.

**D49 TRANSPORTATION CENTER**  
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SHEET TITLE  
**CUT & FILL EXHIBIT**

MTA PROJECT NUMBER  
**2021-041.00**

DATE  
**4/12/2023**

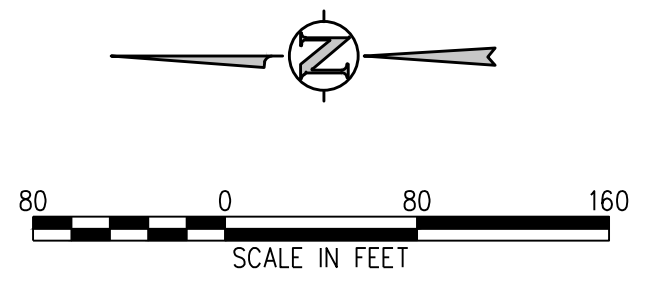
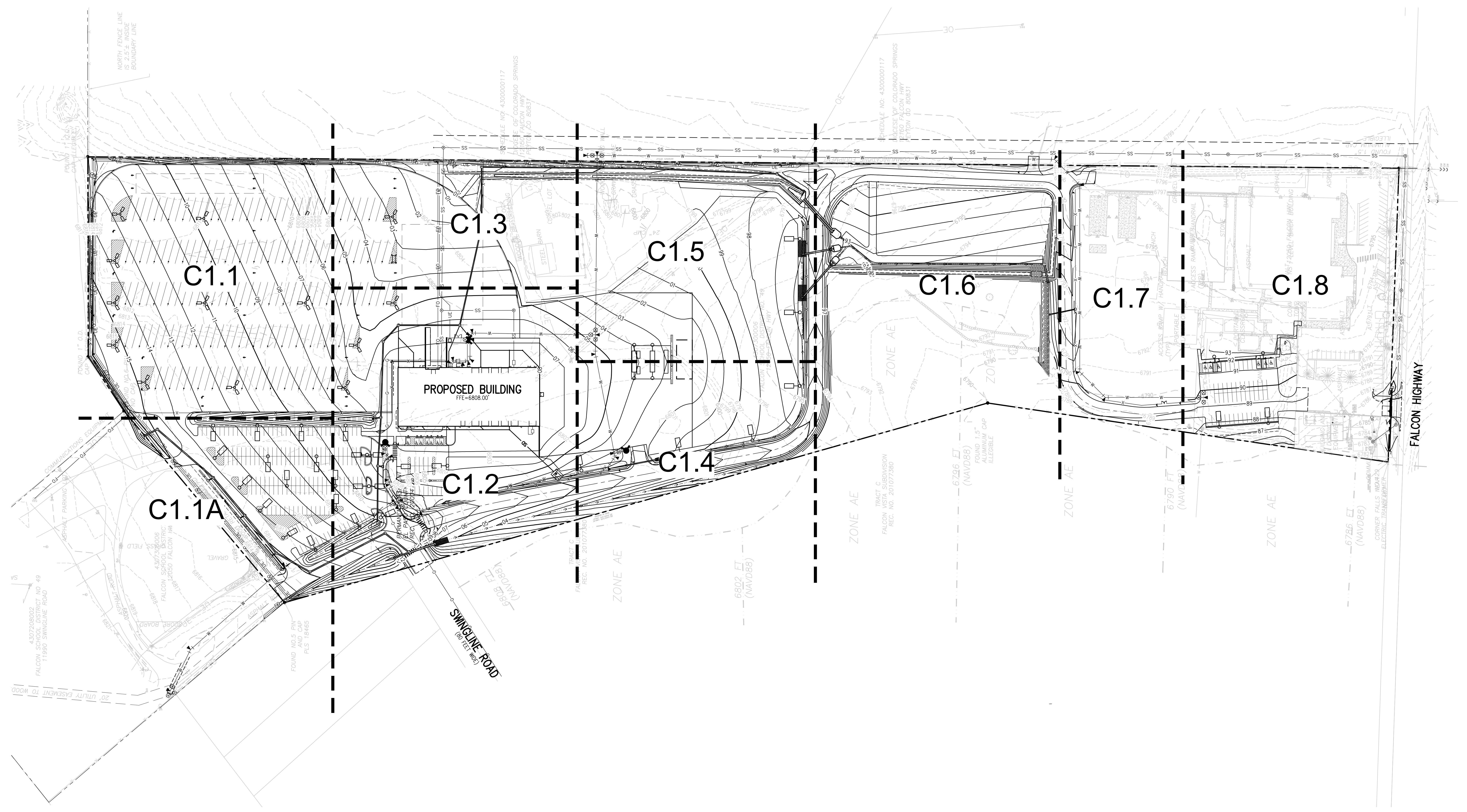
REVISIONS

#	DATE	DESCRIPTION

DESIGNED BY: **CWK/HCM**  
DRAWN BY: **TWK/AMB**  
CHECKED BY: **CWK**

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**CONSTRUCTION DOCUMENTS**

**CE1.0**



- GRADING AND DRAINAGE NOTES:**
1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY LOCATION AND PROTECTION.
  2. REFER TO HORIZONTAL CONTROL PLAN FOR FURTHER INFORMATION PERTAINING TO CURB & GUTTER, CHASES, AND DRAINAGE PANS.
  3. CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITIONS.
  4. ALL SPOT ELEVATIONS ARE TO FINISHED GRADE OR FLOWLINE UNLESS OTHERWISE SPECIFIED.
  5. IF WALL IS SHOWN, TG DENOTES THE FINISHED GRADE ADJACENT TO THE HIGH SIDE OF THE WALL. BG DENOTES THE FINISHED GRADE ADJACENT TO THE LOW SIDE OF THE WALL. REFER TO ARCH PLANS/DETAILS FOR WALL ELEVATIONS BEYOND THE ADJACENT FINISHED GRADES (EXPOSED WALL, CAP/FOOTER, ETC.)

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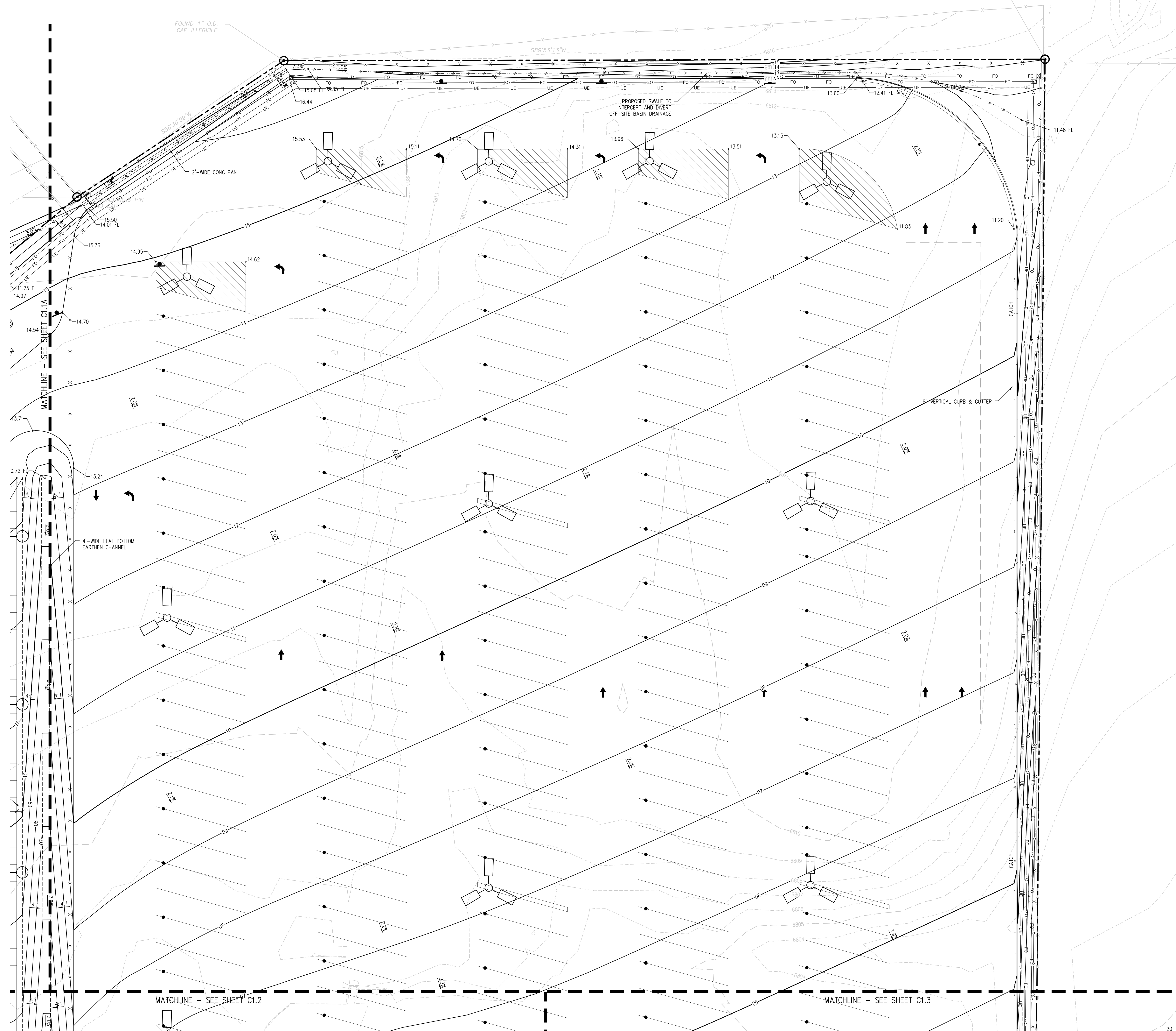


SHEET TITLE  
**OVERALL  
GRADING AND  
DRAINAGE PLAN**

RTA PROJECT NUMBER  
**2021-041.00**  
DATE  
**4/12/2023**

ISSUED FOR  
**CONSTRUCTION  
DOCUMENTS**

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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**GRADING AND DRAINAGE PLAN A**

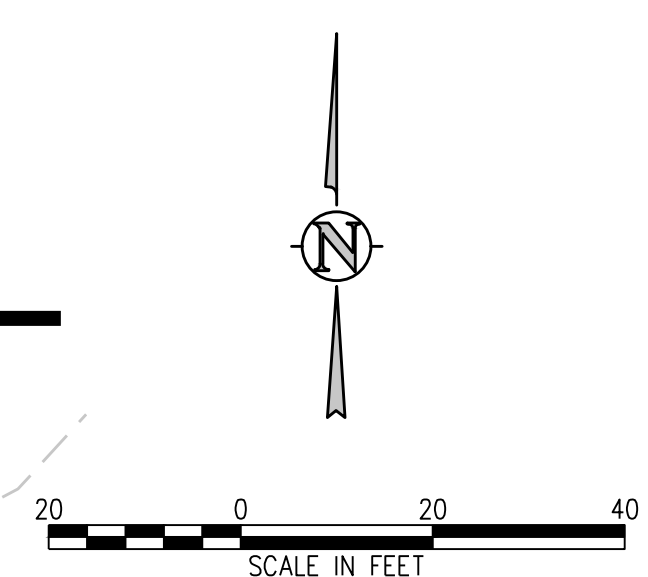
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**2021-041.00**

DATE  
**4/12/2023**

#	DATE	DESCRIPTION

DESIGNED BY: **CWK/HCM**  
DRAWN BY: **TWK/AMB**  
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**D49 TRANSPORTATION CENTER**  
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11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**GRADING AND DRAINAGE PLAN A1**

WTA PROJECT NUMBER  
**2021-041.00**

DATE  
**4/12/2023**

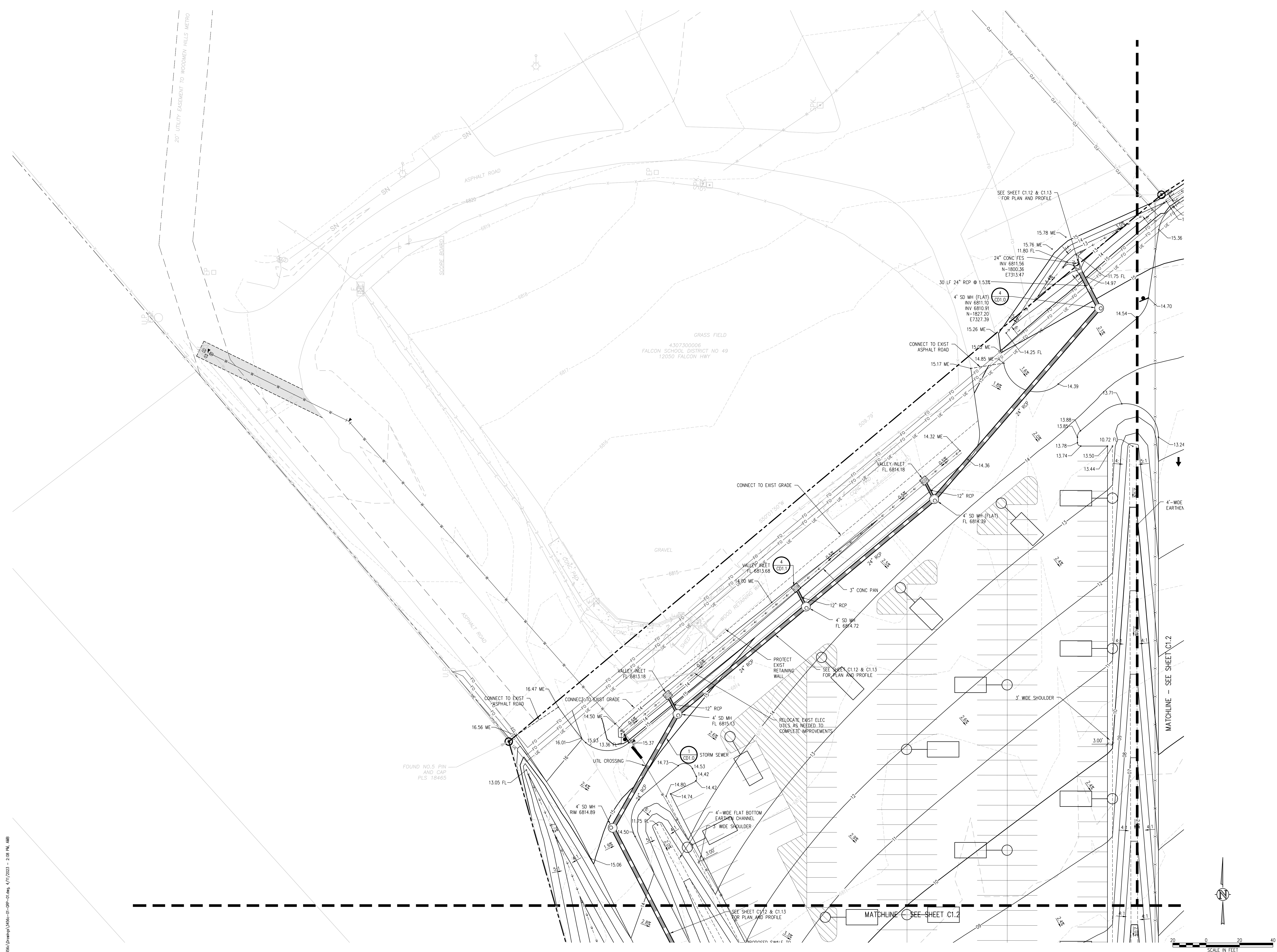
REVISIONS

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DRAWN BY: **TW/AWB**  
CHECKED BY: **CWK**

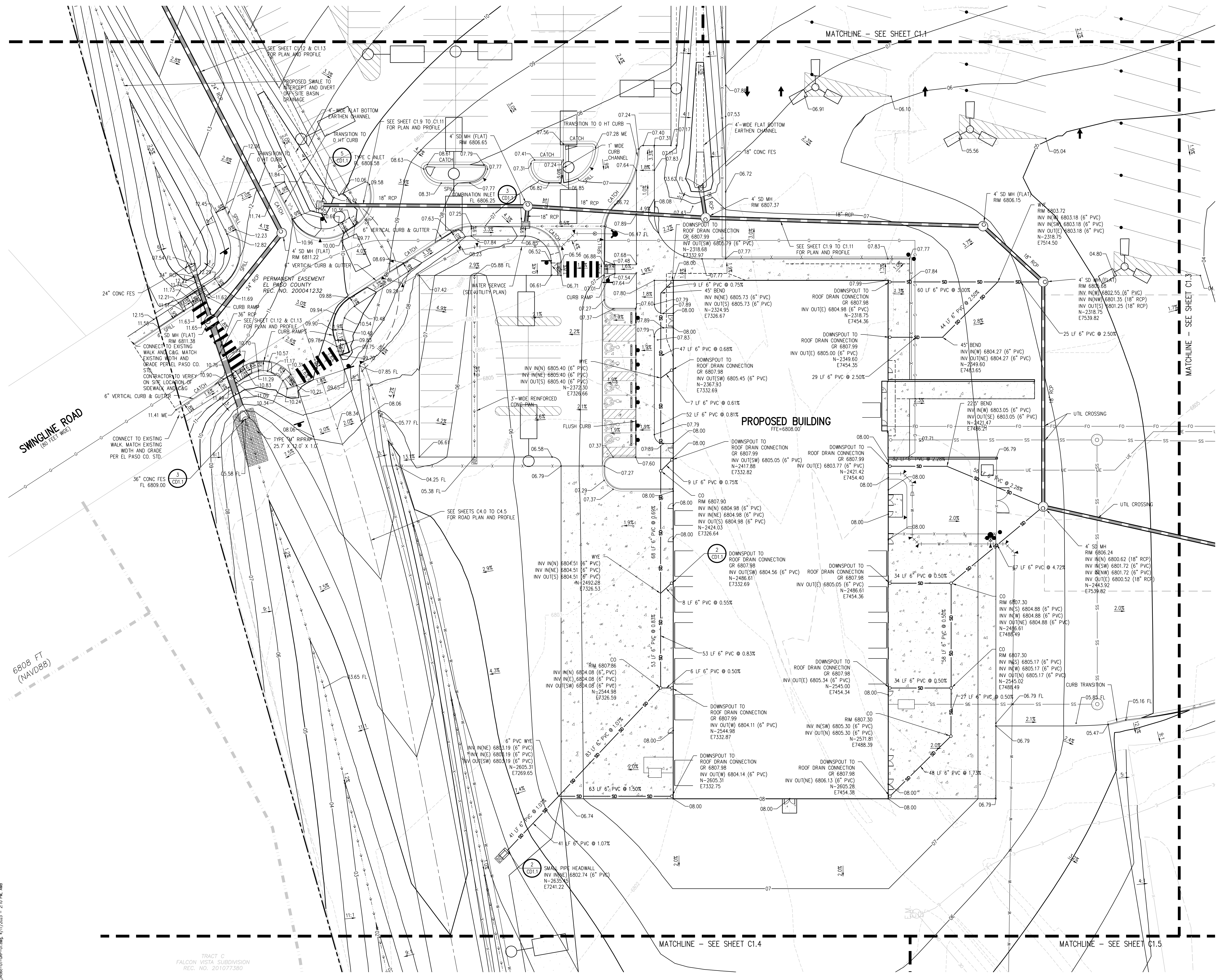
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**C1.1A**



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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**GRADING AND DRAINAGE PLAN B**

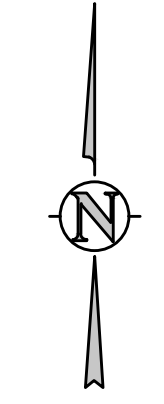
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**2021-041.00**  
DATE  
**4/12/2023**

REVISIONS

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DESIGNED BY: **CKW/HCM**  
CHECKED BY: **TWW/AMB**  
ISSUED FOR: **CONSTRUCTION DOCUMENTS**

**C1.2**



TRACT C  
FALCON VISTA SUBDIVISION  
REC. NO. 201077380

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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**GRADING AND DRAINAGE PLAN C**

RTA PROJECT NUMBER  
**2021-041.00**

DATE  
**4/12/2023**

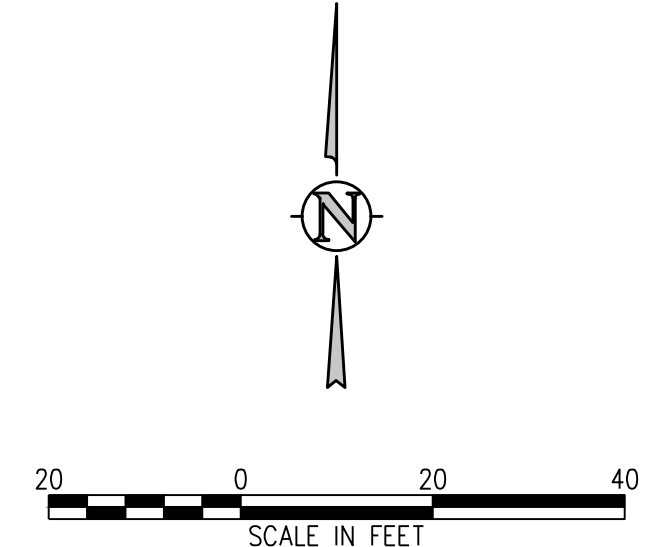
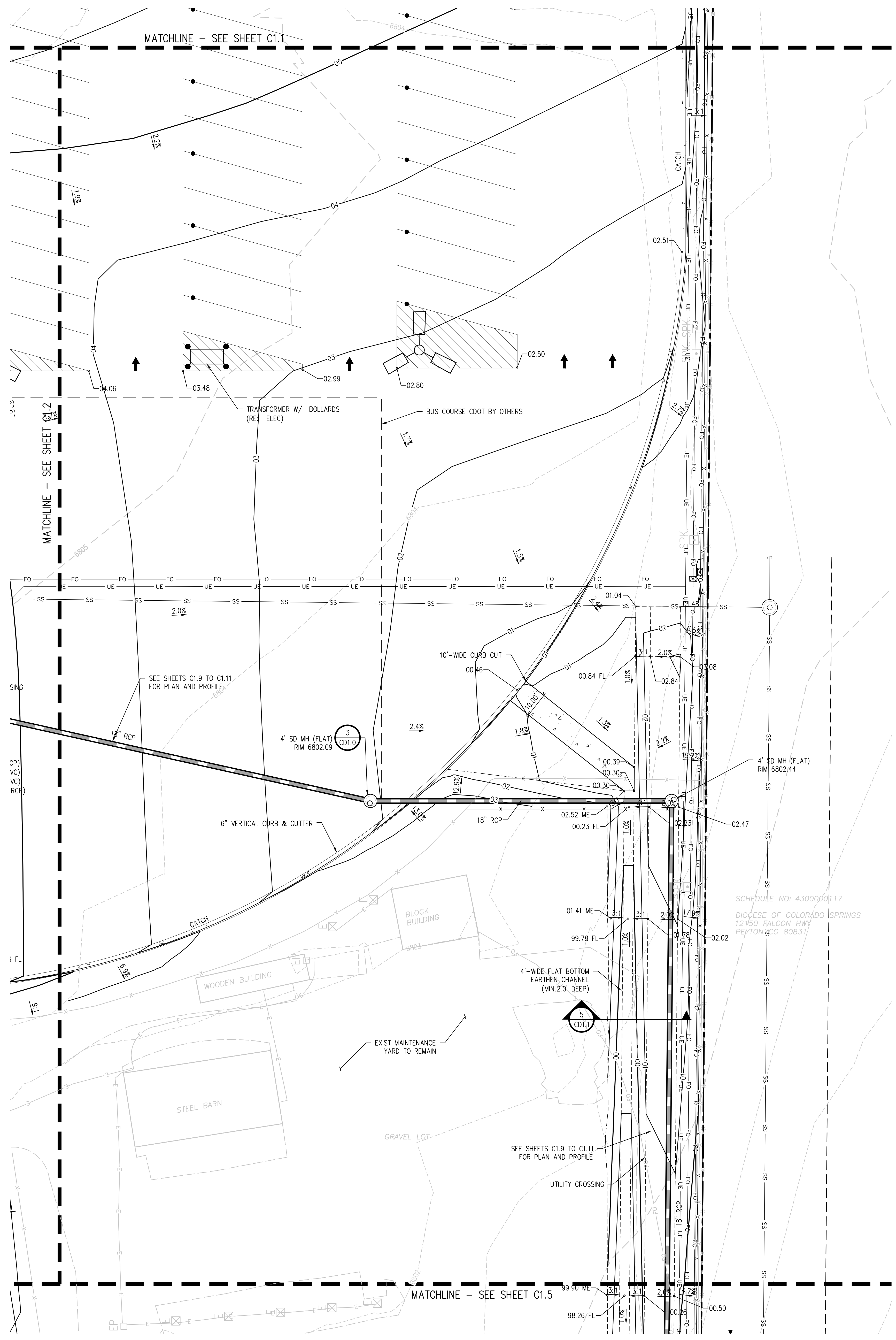
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DRAWN BY: **TWK/AMB**  
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**C1.3**



**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**GRADING AND DRAINAGE PLAN D**

RTA PROJECT NUMBER  
**2021-041.00**

DATE  
**4/12/2023**

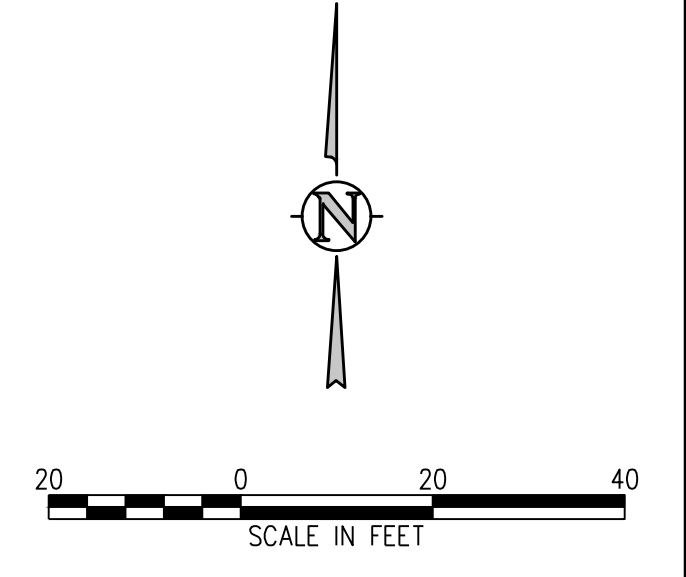
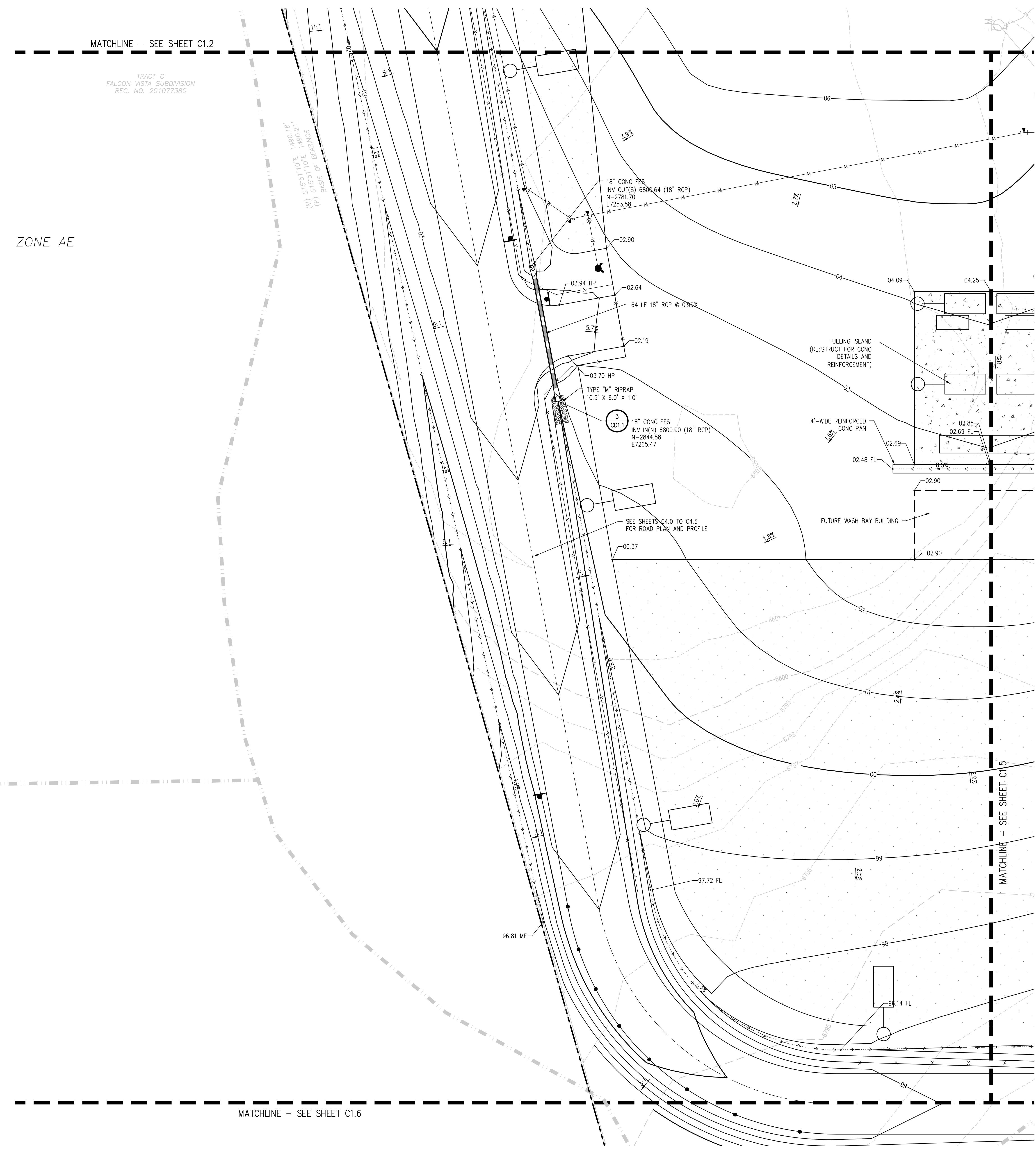
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DRAWN BY: **TWK/AMB**  
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ISSUED FOR  
**CONSTRUCTION DOCUMENTS**

**C1.4**



# D49 TRANSPORTATION CENTER SCHOOL DISTRICT NO 49 11971 SWINGLINE ROAD PEYTON, CO 80831



PROJECT TITLE  
**GRADING AND DRAINAGE PLAN E**

PROJECT NUMBER  
**2021-041.00**

DATE  
**4/12/2023**

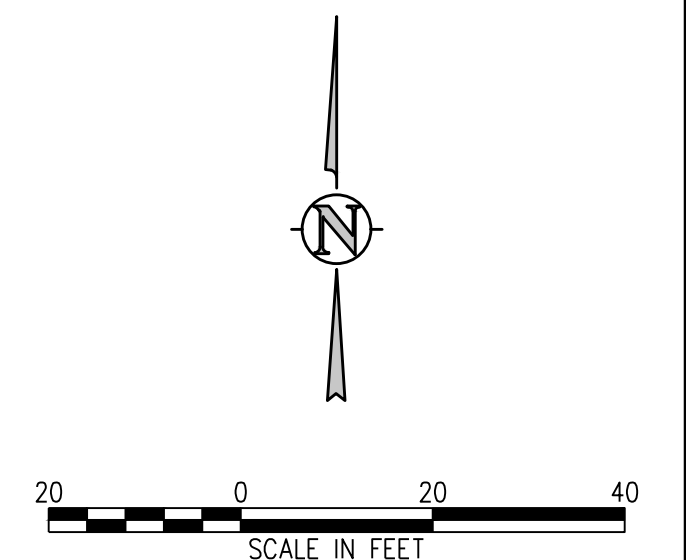
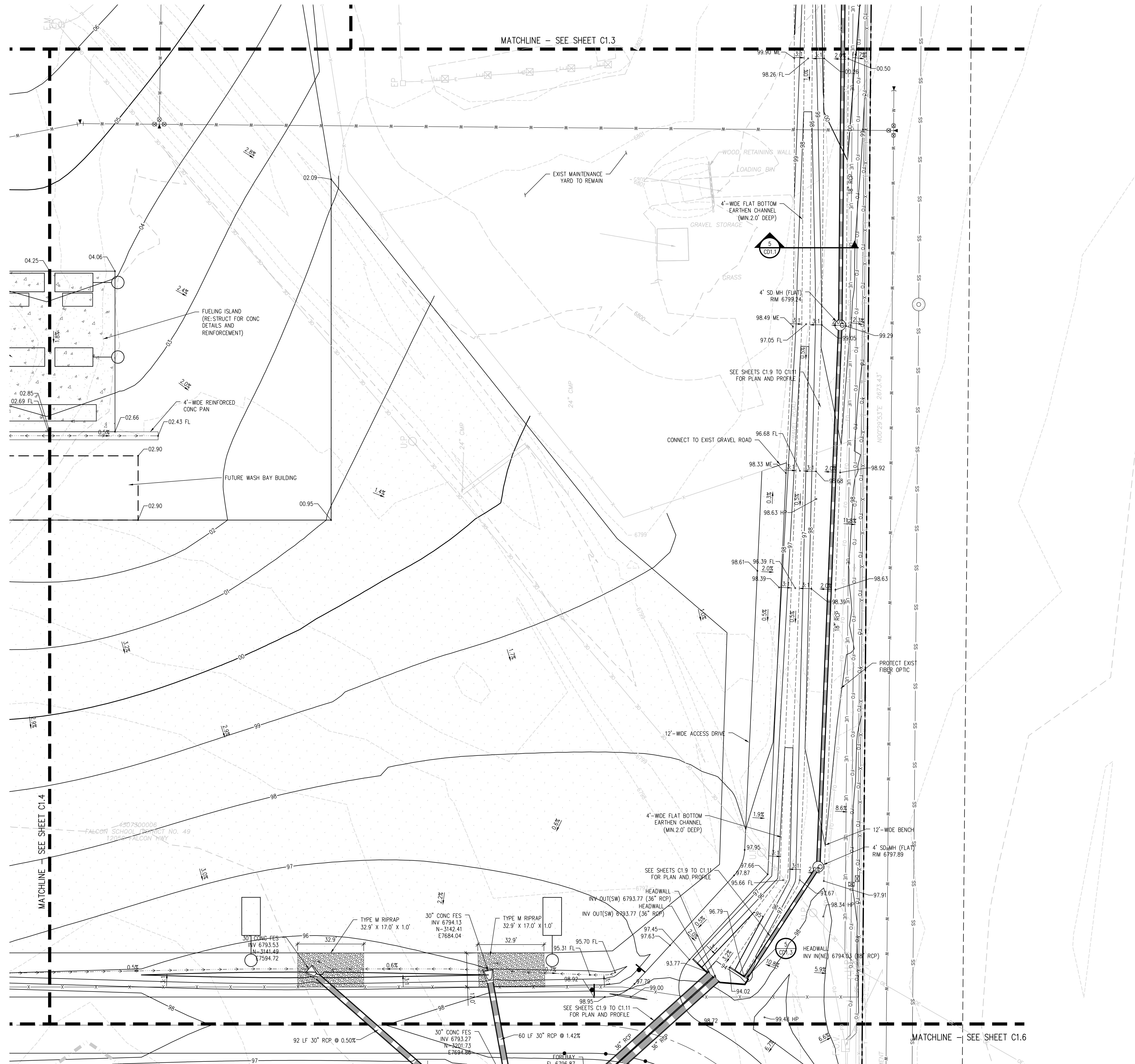
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 DRAWN BY: **TWW/AMB**  
 CHECKED BY: **CWK**

ISSUED FOR  
**CONSTRUCTION DOCUMENTS**

SHEET NO.  
**C1.5**



**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**GRADING AND DRAINAGE PLAN F**

WTA PROJECT NUMBER  
**2021-041.00**

DATE  
**4/12/2023**

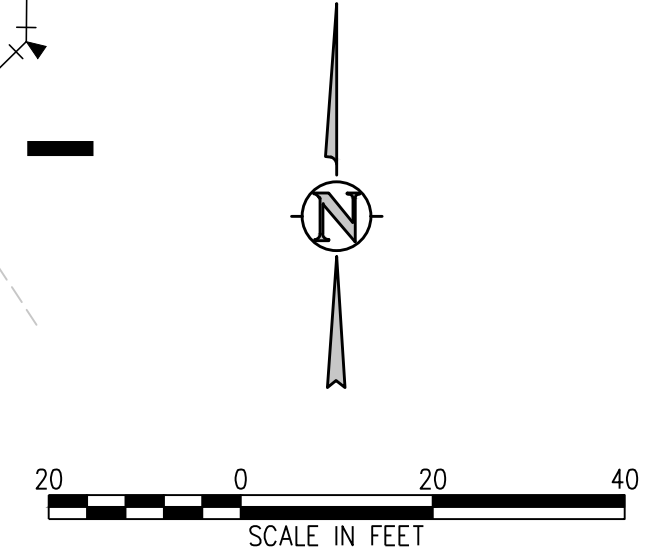
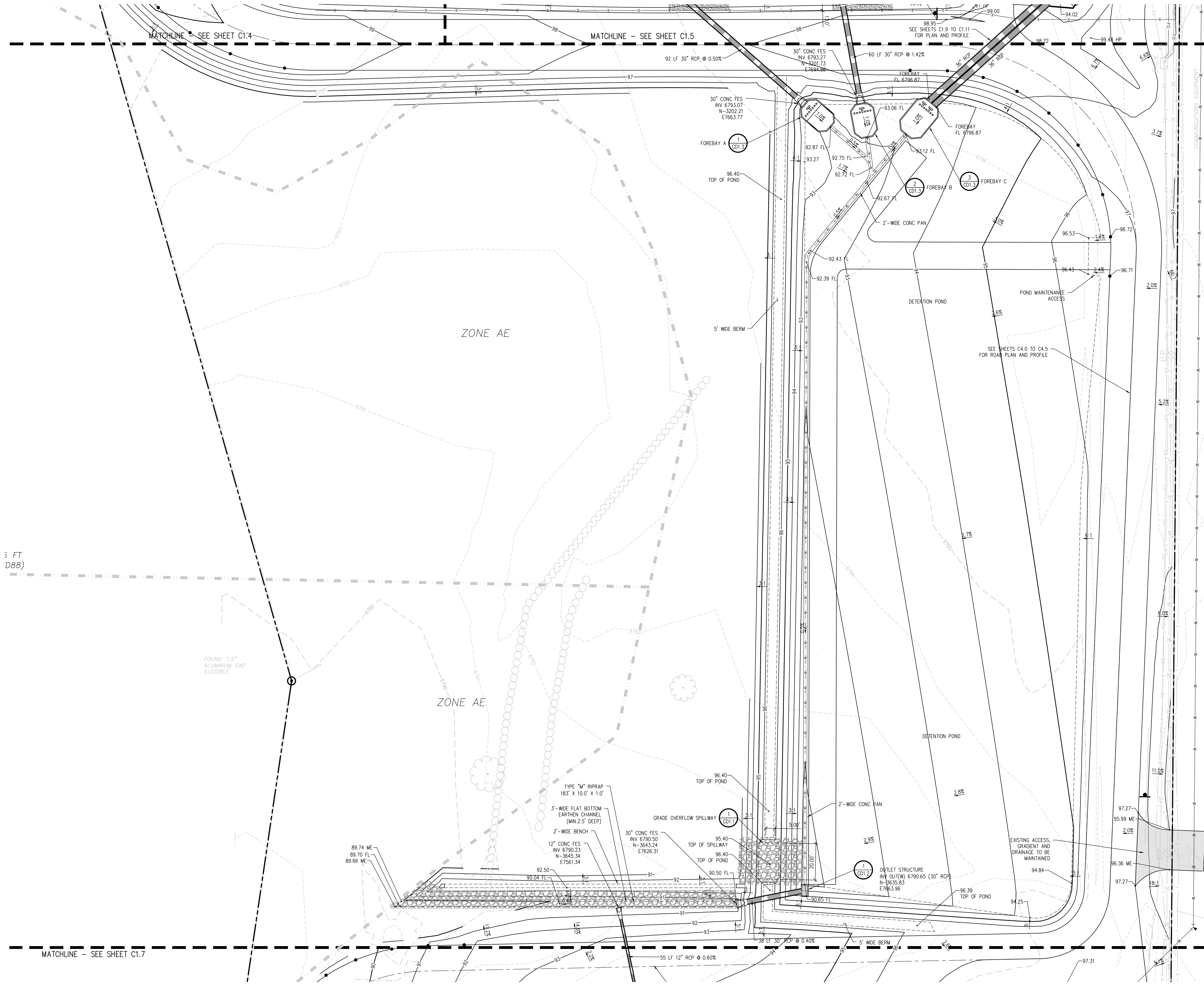
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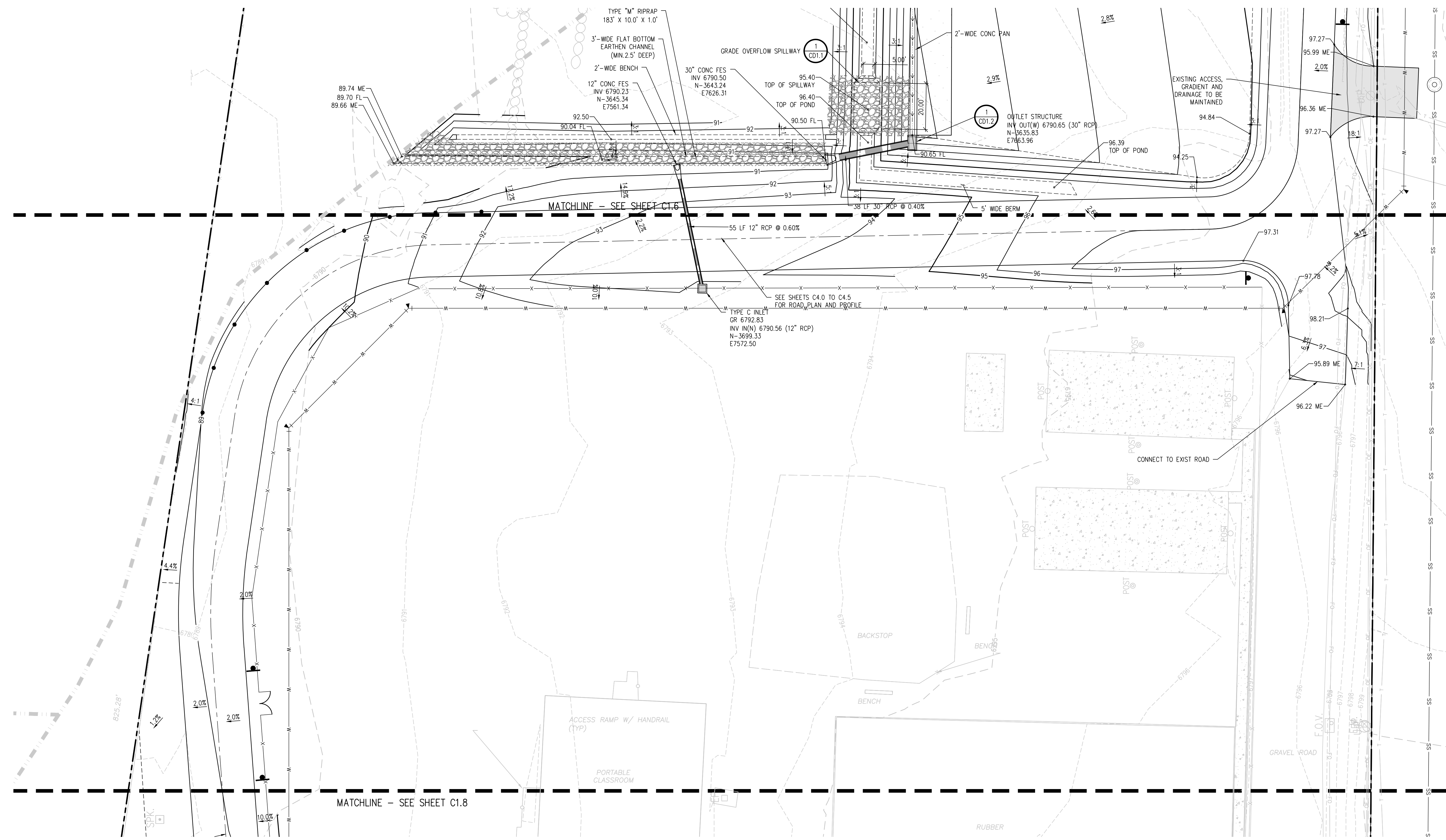
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**CONSTRUCTION DOCUMENTS**

**C1.6**



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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**GRADING AND DRAINAGE PLAN G**

RTA PROJECT NUMBER  
**2021-041.00**

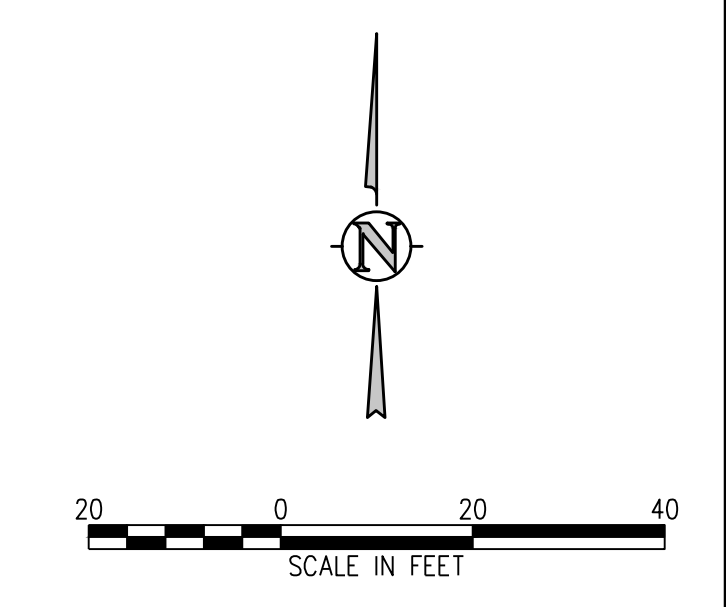
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DRAWN BY: **TWK/AMB**  
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ISSUED FOR  
**CONSTRUCTION DOCUMENTS**

**C1.7**



**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**GRADING AND DRAINAGE PLAN**  
**H**

WTA PROJECT NUMBER  
**2021-041.00**

DATE  
**4/12/2023**

#	DATE	DESCRIPTION
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**CWK/HCM**

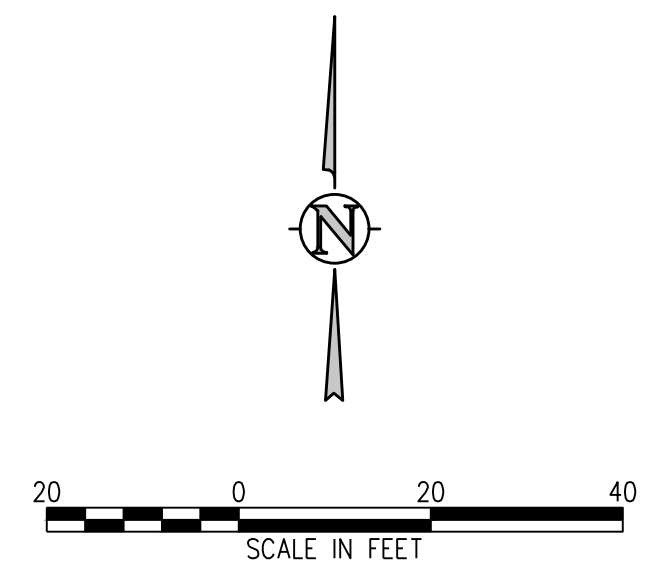
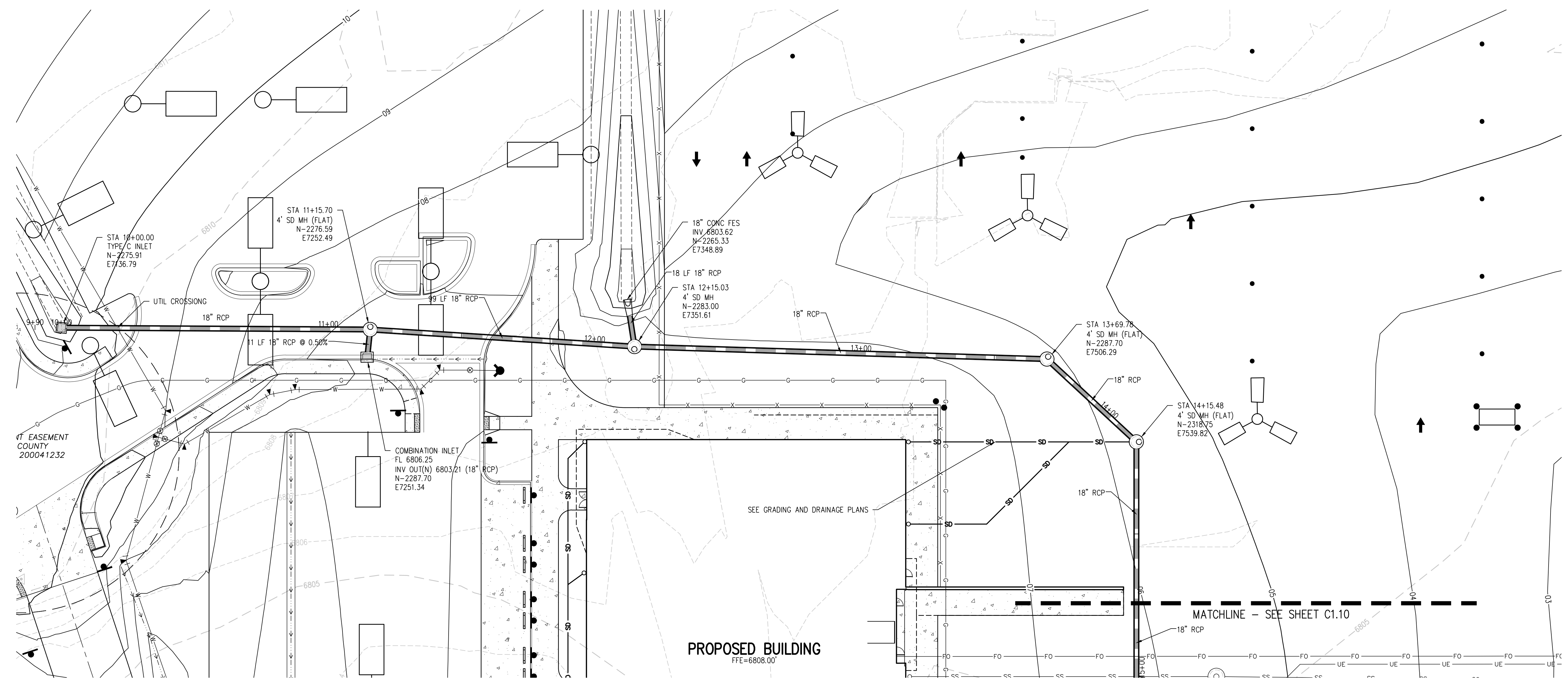
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CHECKED BY  
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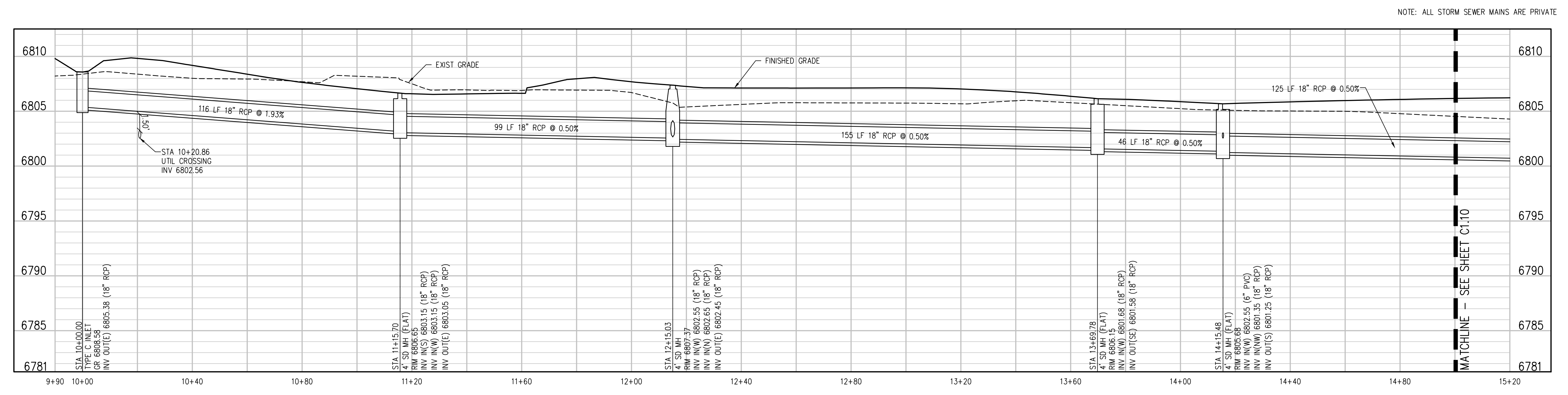
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**STORM SEWER MAIN PLAN**  
SCALE: 1"=20'



**STORM SEWER MAIN PROFILE**  
SCALE: 1"=20' HORIZ  
1"=5' VERT

**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**STORM SEWER MAIN PLAN AND PROFILE**

WTA PROJECT NUMBER  
**2021-041.00**

DATE  
**4/12/2023**

REVISIONS

#	DATE	DESCRIPTION

DESIGNED BY: **CWK/HCM**

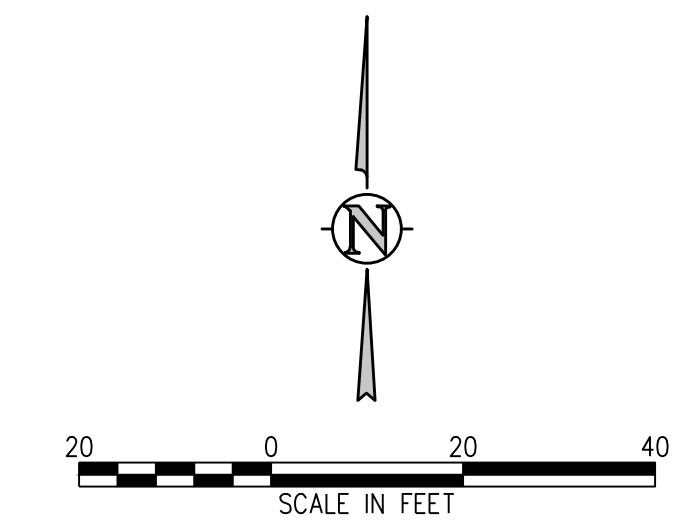
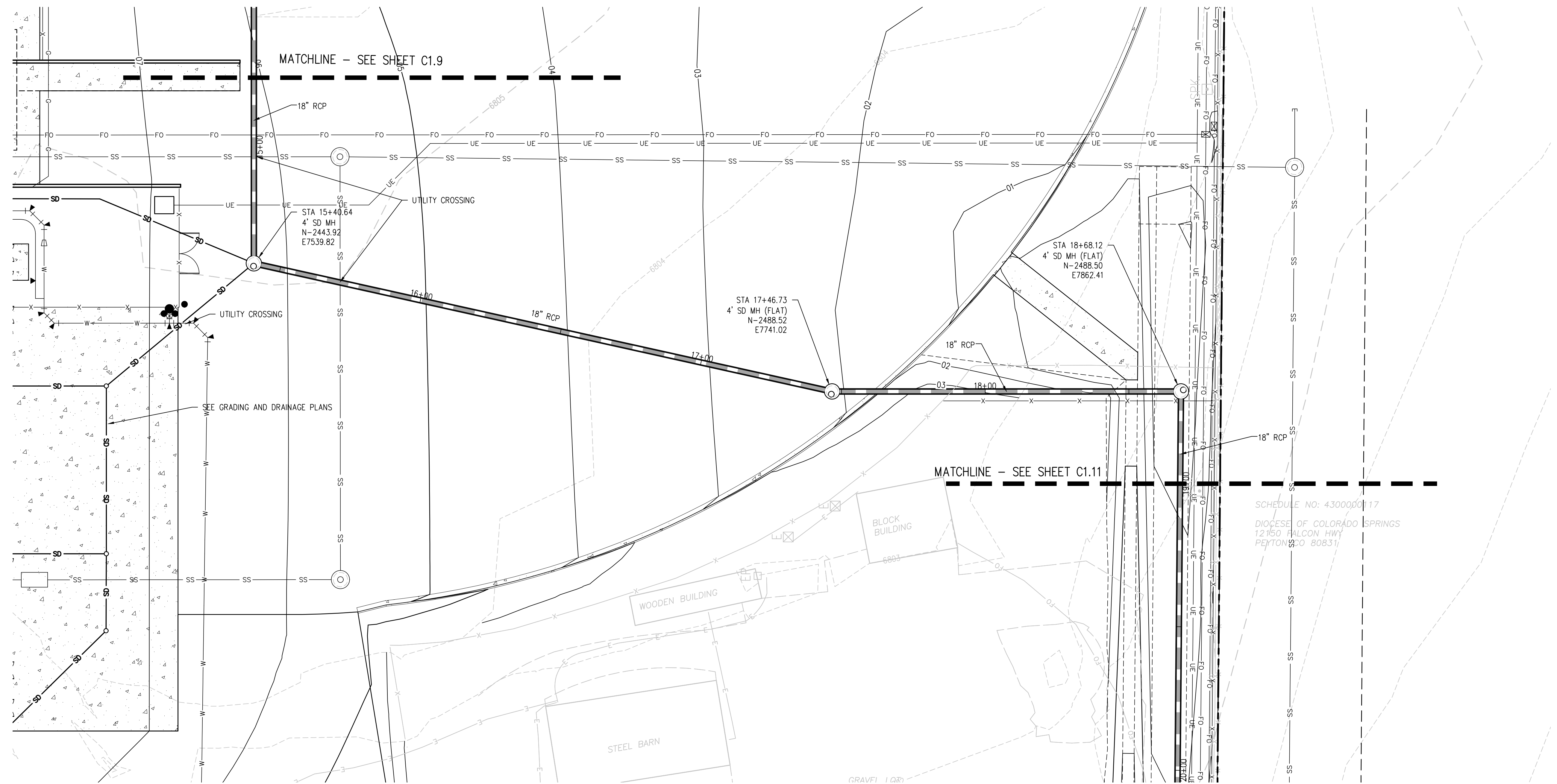
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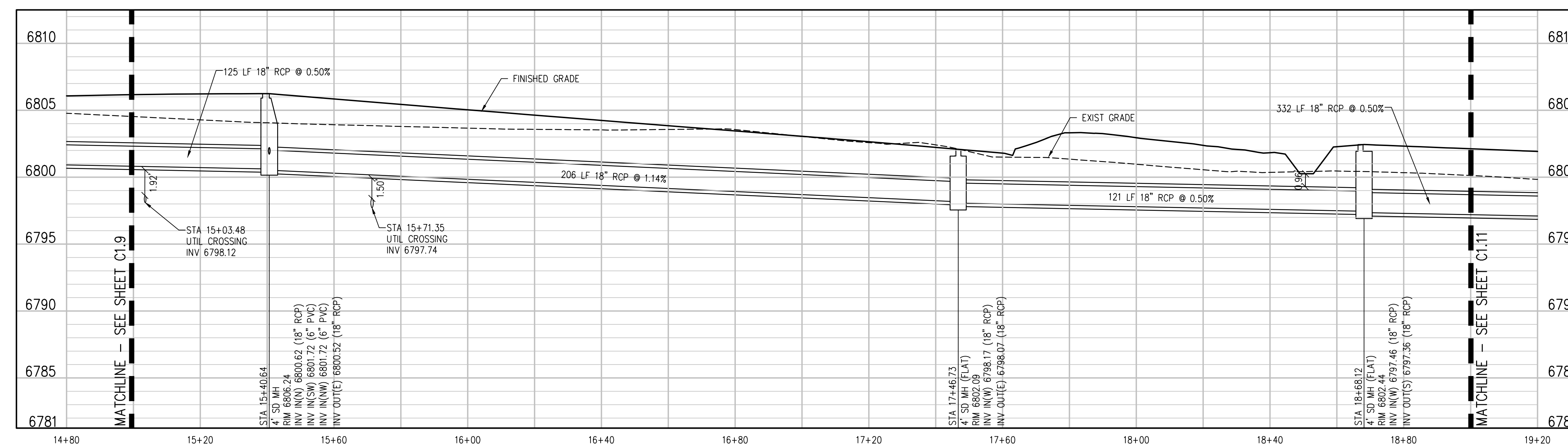
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**STORM SEWER MAIN PLAN**  
 SCALE: 1"=20'

NOTE: ALL STORM SEWER MAINS ARE PRIVATE



**STORM SEWER MAIN PROFILE**  
 SCALE: 1"=20' HORIZ  
 1"=5' VERT

**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
 11971 SWINGLINE ROAD  
 PEYTON, CO 80831



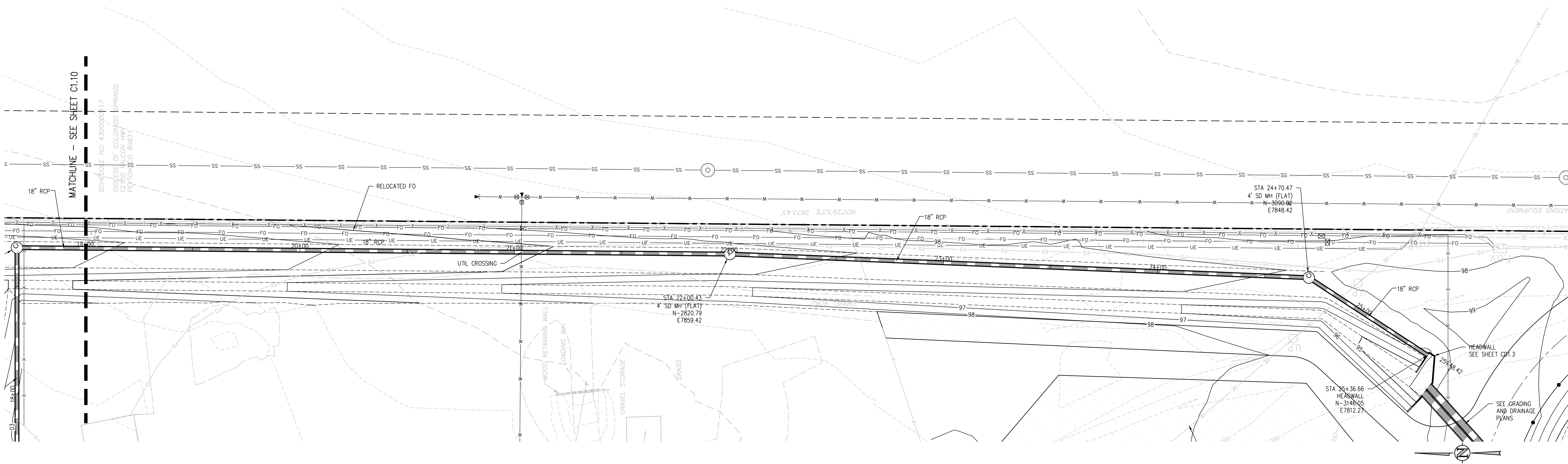
PROJECT TITLE  
**STORM SEWER  
 MAIN PLAN AND  
 PROFILE**

RTA PROJECT NUMBER  
**2021-041.00**  
 DATE  
**4/12/2023**  
 REVISIONS

#	DATE	DESCRIPTION

GRADE APPROVAL: **CWK/HCM**  
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 CHECKED BY: **CWK**

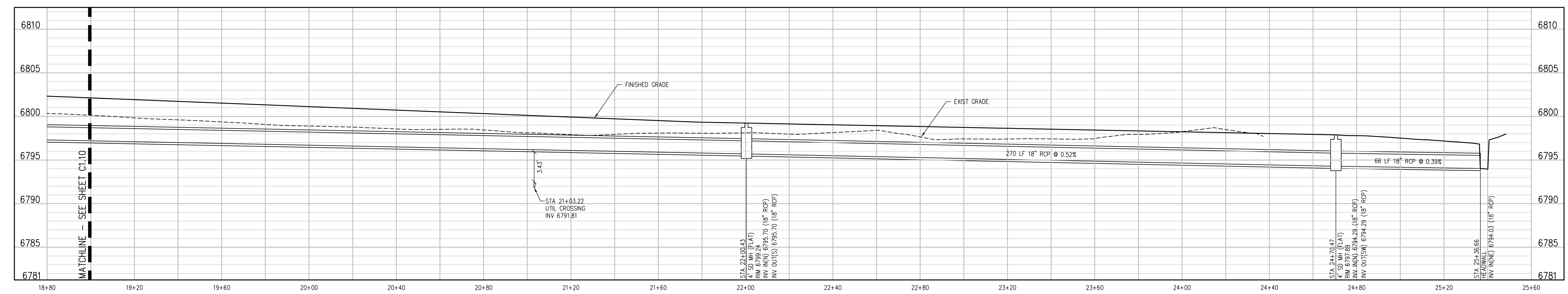
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 DOCUMENTS**



**STORM SEWER MAIN PLAN**  
SCALE: 1" = 20'



NOTE: ALL STORM SEWER MAINS ARE PRIVATE



**STORM SEWER MAIN PROFILE**  
SCALE: 1" = 20' HORIZ  
1" = 5' VERT

**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



PROJECT TITLE  
**STORM SEWER  
MAIN PLAN AND  
PROFILE**

WTA PROJECT NUMBER  
**2021-041.00**

DATE  
**4/12/2023**

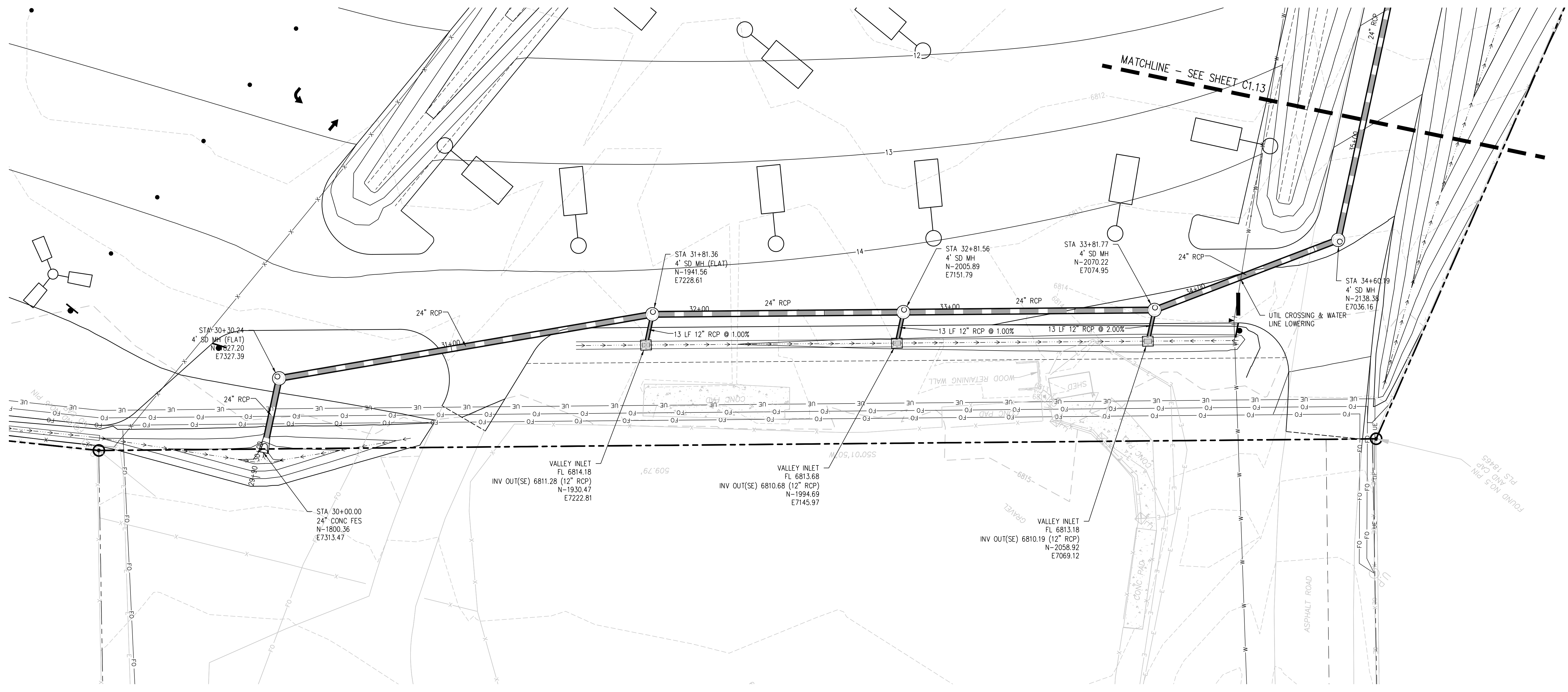
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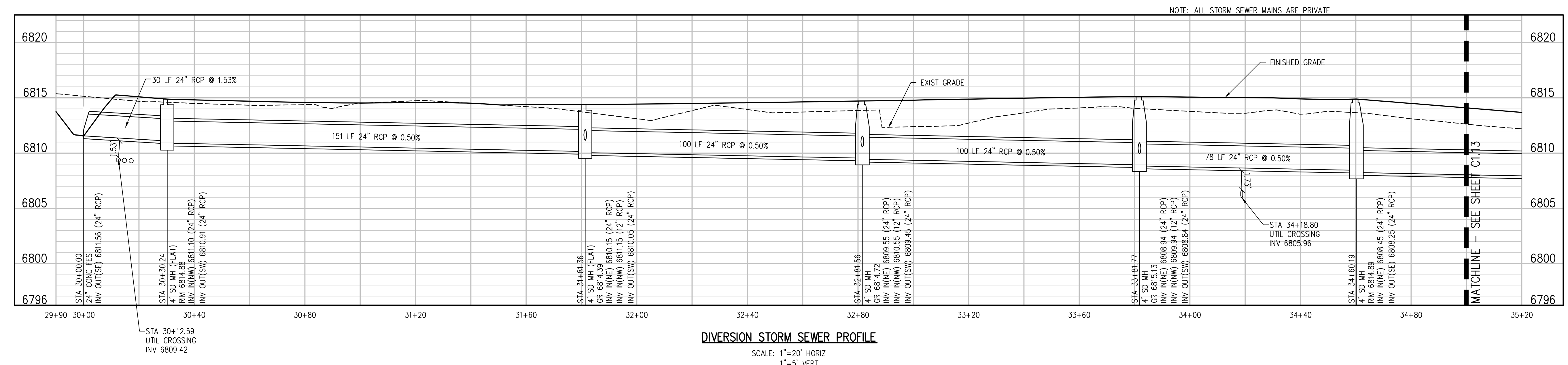
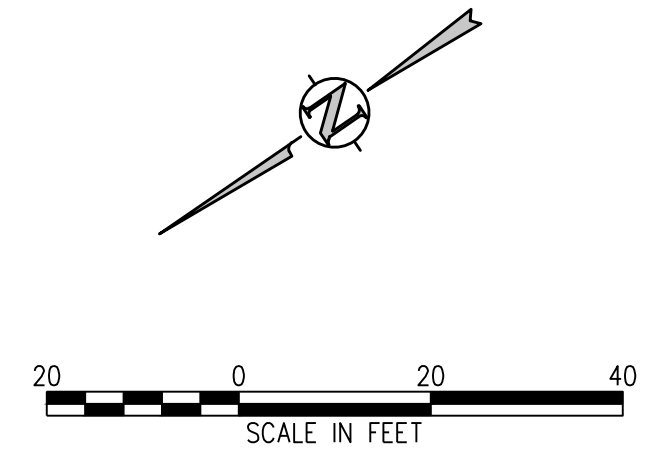
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DRAWN BY: **TWK/AMB**  
CHECKED BY: **CWK**

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**CONSTRUCTION  
DOCUMENTS**

**C1.11**



**DIVERSION STORM SEWER PLAN**  
SCALE: 1"=20'



**DIVERSION STORM SEWER PROFILE**  
SCALE: 1"=20' HORIZ  
1"=5' VERT

**D49 TRANSPORTATION CENTER**  
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11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**DIVERSION STORM SEWER PLAN AND PROFILE**

WTA PROJECT NUMBER  
**2021-041.00**

DATE  
**4/12/2023**

REVISIONS

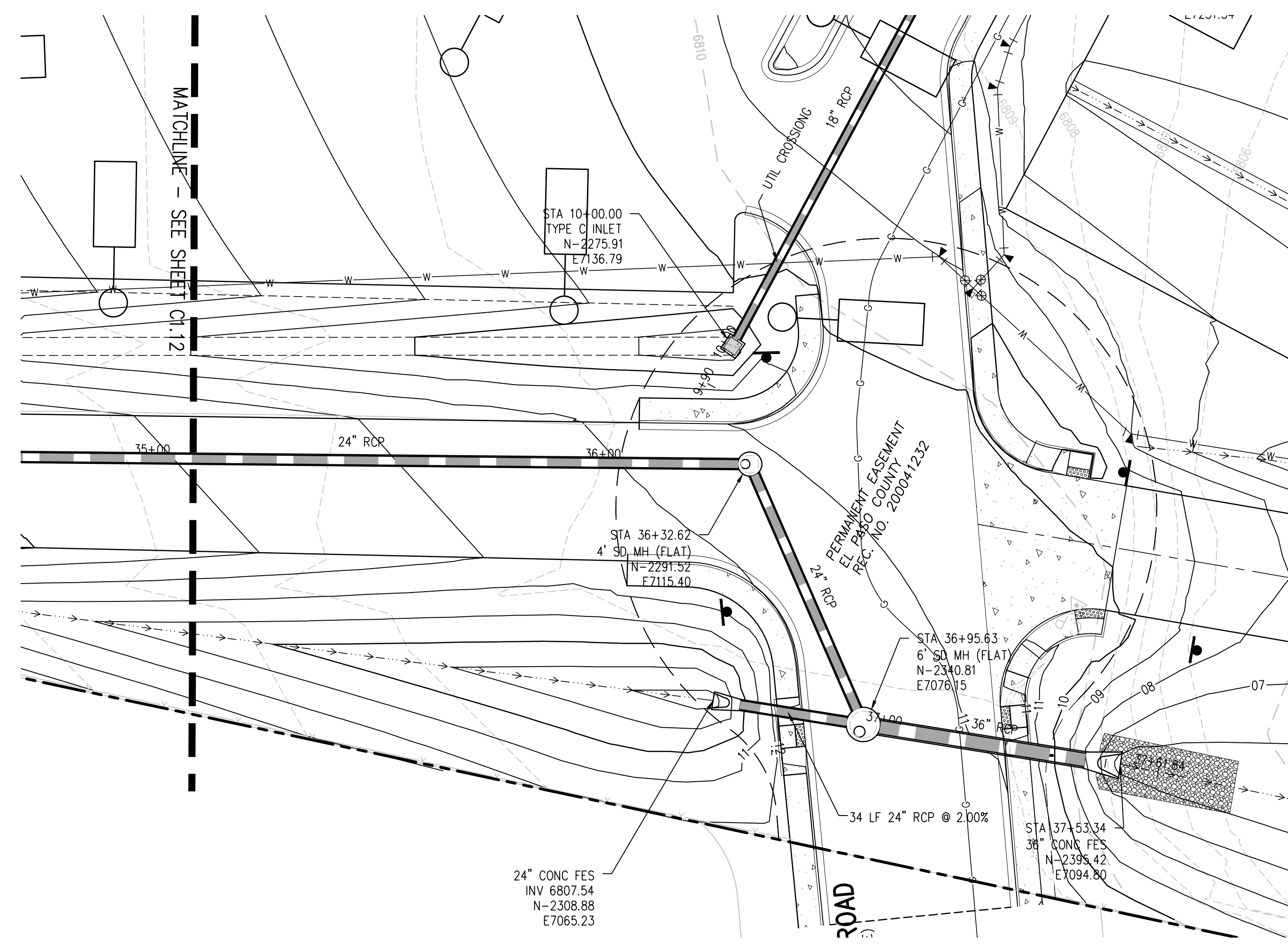
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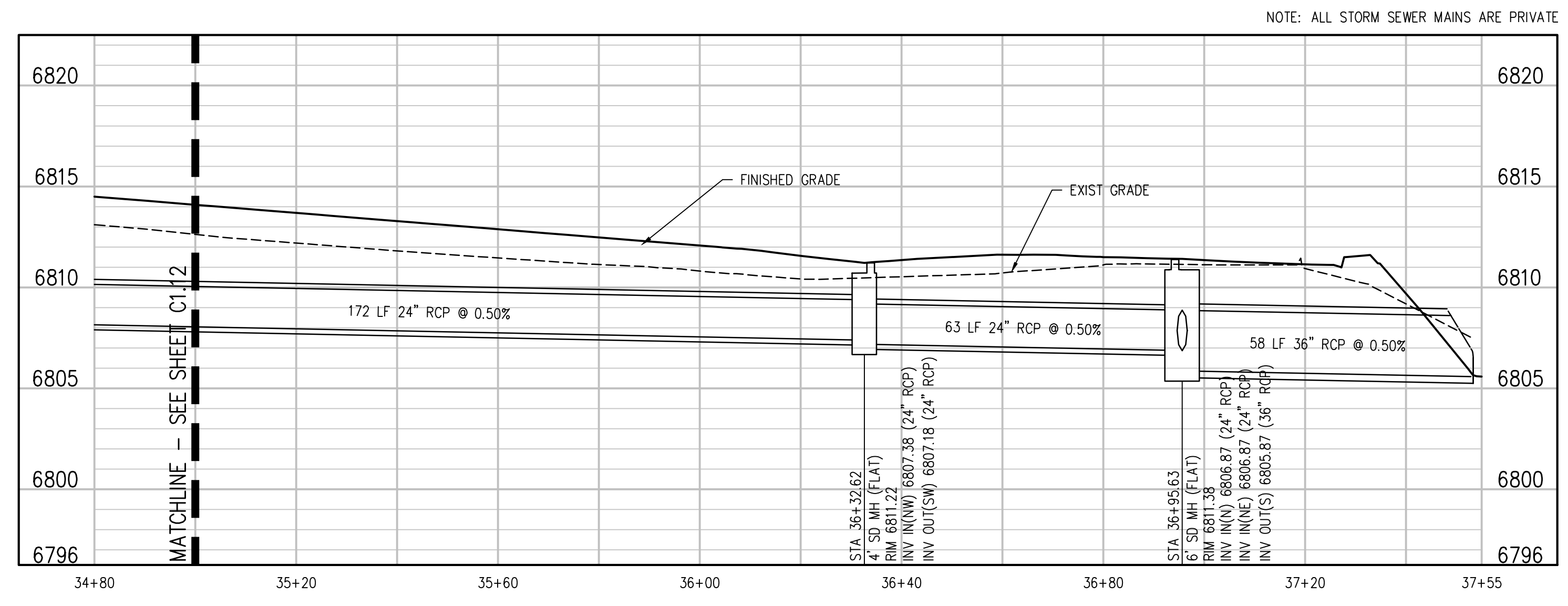
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**C1.12**

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**DIVERSION STORM SEWER PLAN**  
SCALE: 1"=20'



**DIVERSION STORM SEWER PROFILE**  
SCALE: 1"=20' HORIZ  
1"=5' VERT

NOTE: ALL STORM SEWER MAINS ARE PRIVATE

**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**DIVERSION STORM SEWER PLAN AND PROFILE**

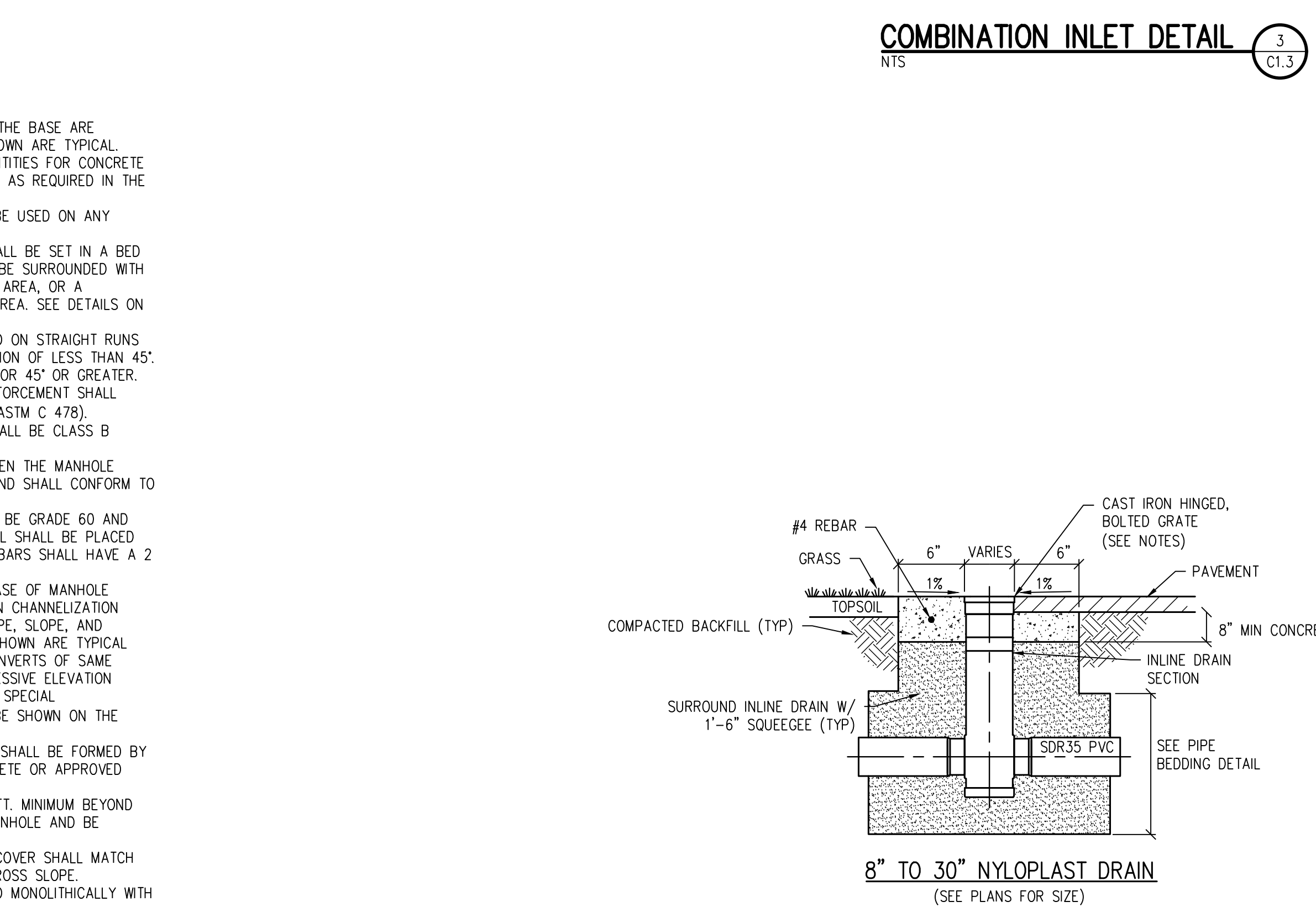
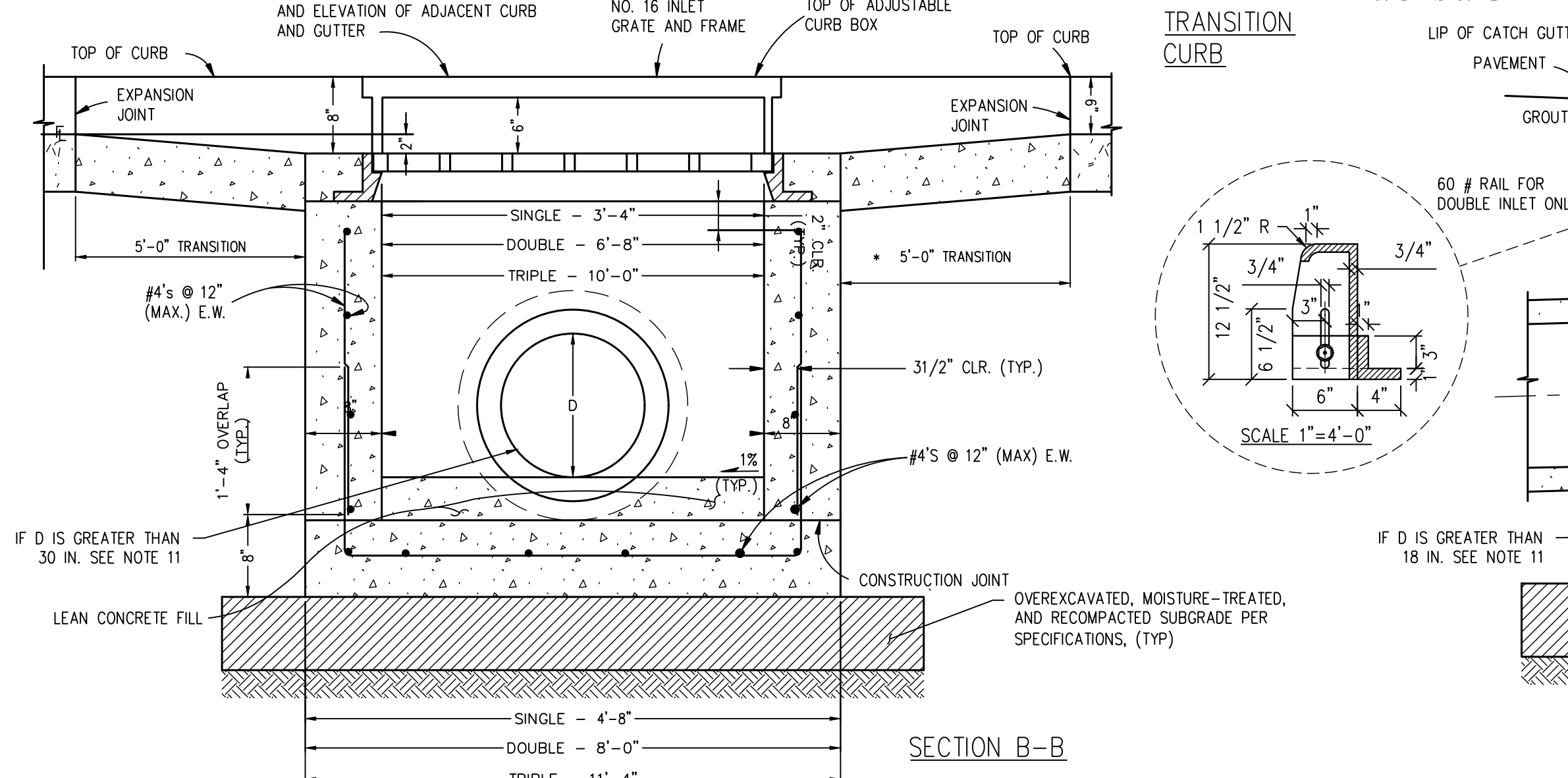
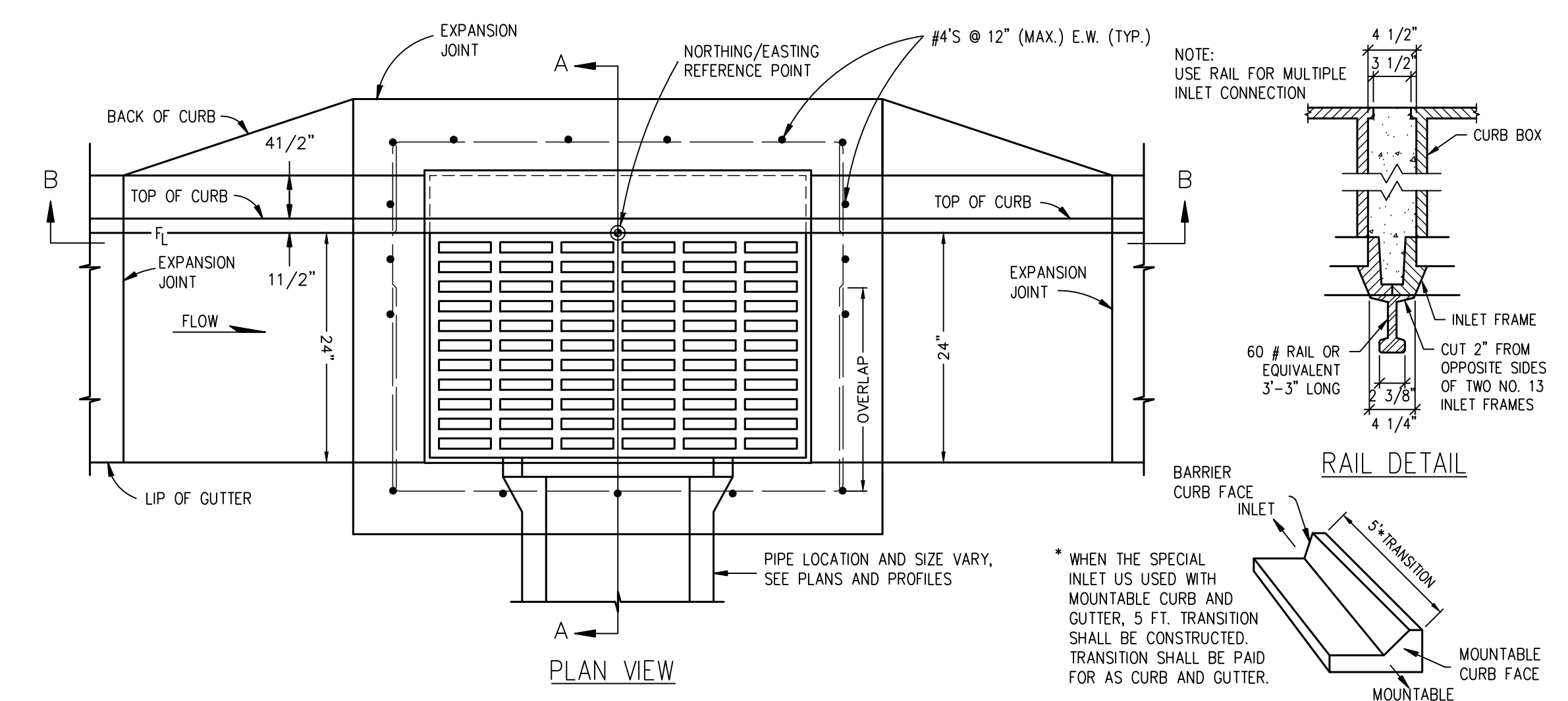
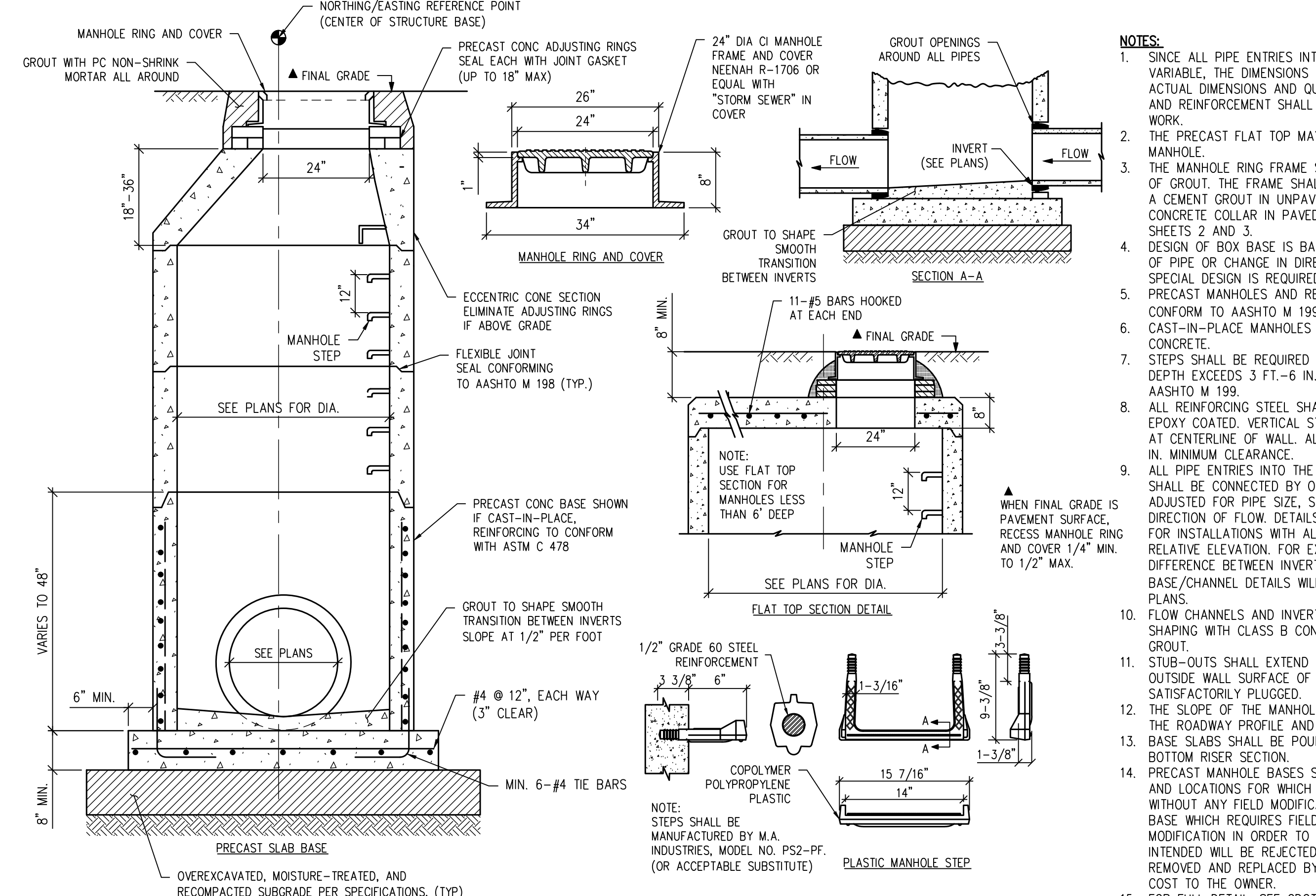
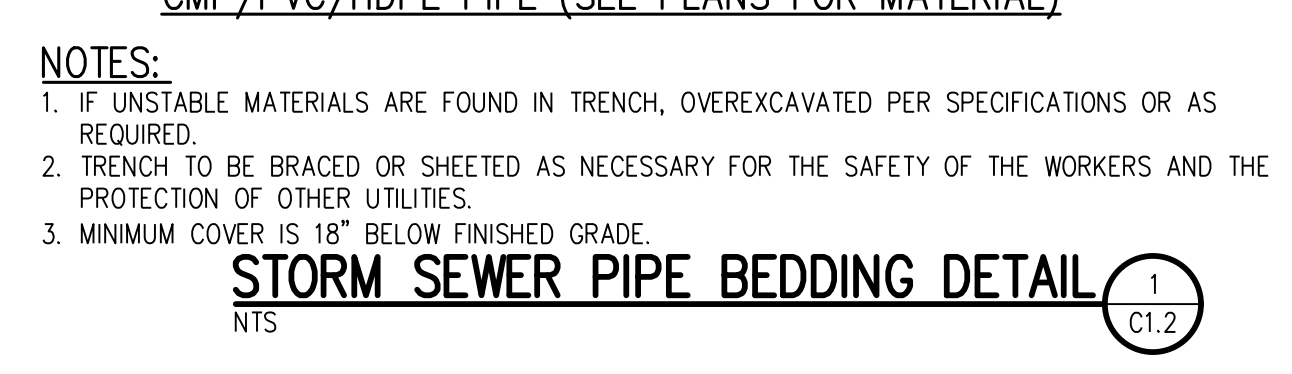
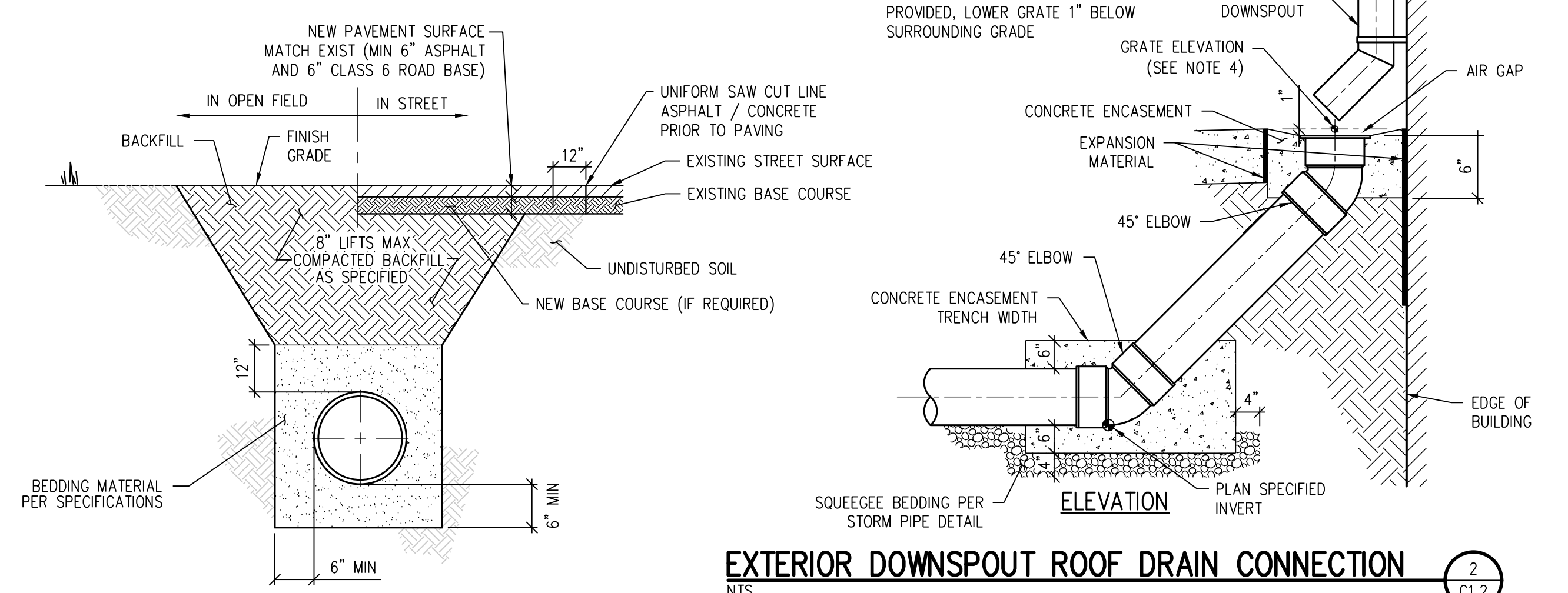
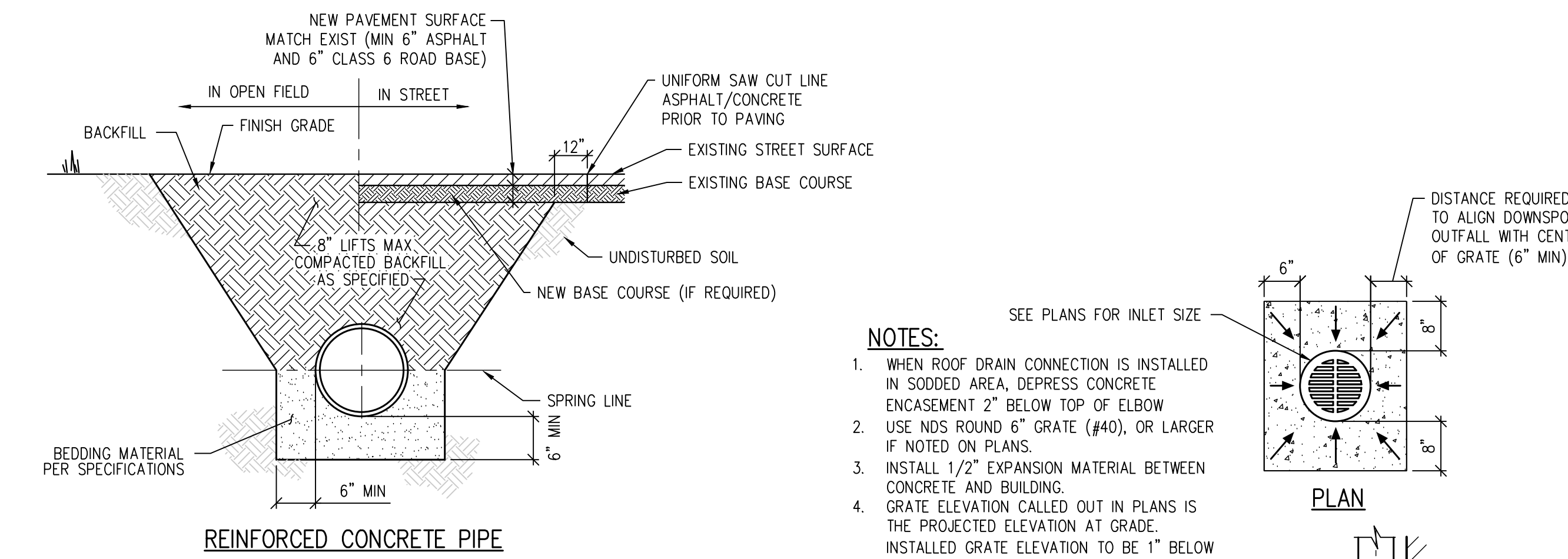
RTA PROJECT NUMBER  
**2021-041.00**  
DATE  
**4/12/2023**

#	DATE	DESCRIPTION

GRADE APPROVAL: **CWK/HCM**  
DRAWN BY: **TWK/AMB**  
CHECKED BY: **CWK**

ISSUED FOR  
**CONSTRUCTION DOCUMENTS**

**C1.13**



**NOTES:**

1. ALL CASTINGS SHALL CONFORM TO ASTM A-48(C1356) WITH A MINIMUM STRENGTH OF 35 KSI.
2. ALL CASTINGS SHALL BE HEAVY DUTY, AND CAPABLE OF WITHSTANDING ASHTO H20 LOADING.
3. FLOOR SLOPE MAY BE POURED MONOLITHIC WITH BASE.
4. ALL REINFORCING STEEL SHALL BE ASTM, A-615, GRADE 60 DEFORMED BARS. DIAMETER OF BEND MEASURED ON THE INSIDE OF THE BAR SHALL BE A MINIMUM OF 6 BAR DIAMETER.
5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS APPLICABLE TO THE PROJECT.
6. CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 4000 PSI.
7. SUBGRADE SHALL HAVE A GRADATION EQUAL TO CLASS B BEDDING COMPACTED TO 100% MAXIMUM DRY DENSITY, ASHTO T-99.
8. NO FORMWORK SHALL REMAIN INSIDE STRUCTURE WHEN COMPLETE.
9. INLET WALLS SHALL BE FORMED BOTH INSIDE AND OUTSIDE. CASTING OF SIDEWALLS AGAINST EARTH IS NOT PERMITTED.
10. LEAN CONCRETE FILL TO BE f' = 2000 PSI.
11. ALL CONNECTED PIPES WITH A DIAMETER (D) GREATER THAN 30" FRONT AND 18" SIDE AND/OR ENTERING AT AN ANGLE GREATER THAN 80°. A CUSTOM CONCRETE BOX MUST BE CONSTRUCTED. CONTRACTOR TO COORDINATE BOX DIMENSIONS AND SPECS WITH MANUFACTURER.

**NOTES:**

1. IF UNSTABLE MATERIALS ARE FOUND IN TRENCH, OVEREXCAVATED PER SPECIFICATIONS OR AS REQUIRED.
2. TRENCH TO BE BRACED OR SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKERS AND THE PROTECTION OF OTHER UTILITIES.
3. MINIMUM COVER IS 18" BELOW FINISHED GRADE.

**NOTES:**

1. SINCE ALL PIPE ENTRIES INTO THE BASE ARE VARIABLE, THE DIMENSIONS SHOWN ARE TYPICAL. ACTUAL DIMENSIONS AND QUANTITIES FOR CONCRETE AND REINFORCEMENT SHALL BE AS REQUIRED IN THE WORK.
2. THE PRECAST FLAT TOP MAY BE USED ON ANY MANHOLE.
3. THE MANHOLE RING FRAME SHALL BE SET IN A BED OF GROUT. THE FRAME SHALL BE SURROUNDED WITH A CEMENT GROUT IN UNPAVED AREA, OR A CONCRETE COLLAR IN PAVED AREA. SEE DETAILS ON SHEETS 2 AND 3.
4. DESIGN OF BOX BASE IS BASED ON STRAIGHT RUNS OF PIPE OR CHANGE IN DIRECTION OF LESS THAN 45°. SPECIAL DESIGN IS REQUIRED FOR 45° OR GREATER.
5. PRECAST MANHOLES AND REINFORCEMENT SHALL CONFORM TO ASHTO M 199 (ASTM C 478).
6. CAST-IN-PLACE MANHOLES SHALL BE CLASS B CONCRETE.
7. STEPS SHALL BE REQUIRED WHEN THE MANHOLE DEPTH EXCEEDS 3 FT.-6 IN. AND SHALL CONFORM TO ASHTO M 199.
8. ALL REINFORCING STEEL SHALL BE GRADE 60 AND EPOXY COATED. VERTICAL STEEL SHALL BE PLACED AT CENTERLINE OF WALL. ALL BARS SHALL HAVE A 2 IN. MINIMUM CLEARANCE.
9. ALL PIPE ENTRIES INTO THE BASE OF MANHOLE SHALL BE CONNECTED BY OPEN CHANNELIZATION ADJUSTED FOR PIPE SIZE, SHAPE, SLOPE, AND DIRECTION OF FLOW. DETAILS SHOWN ARE TYPICAL FOR INSTALLATIONS WITH ALL INVERTS OF SAME RELATIVE ELEVATION. FOR EXCESSIVE ELEVATION DIFFERENCE BETWEEN INVERTS, SPECIAL BASE/CHANNEL DETAILS WILL BE SHOWN ON THE PLANS.
10. FLOW CHANNELS AND INVERTS SHALL BE FORMED BY SHAPING WITH CLASS B CONCRETE OR APPROVED GROUT.
11. STUB-OUTS SHALL EXTEND 2 FT. MINIMUM BEYOND OUTSIDE WALL SURFACE OF MANHOLE AND BE SATISFACTORILY PLUGGED.
12. THE SLOPE OF THE MANHOLE COVER SHALL MATCH THE ROADWAY PROFILE AND CROSS SLOPE.
13. BASE SLABS SHALL BE POURED MONOLITHICALLY WITH BOTTOM RISER SECTION.
14. PRECAST MANHOLE BASES SHALL FIT THE CONDITIONS AND LOCATIONS FOR WHICH THEY ARE INTENDED WITHOUT ANY FIELD MODIFICATIONS. ANY MANHOLE BASE WHICH REQUIRES FIELD CUTTING OR MODIFICATION IN ORDER TO FIT THE LOCATIONS INTENDED WILL BE REJECTED BY THE ENGINEER AND REMOVED AND REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
15. FOR FULL DETAIL, SEE CDDT DETAIL M-604-20.

**NOTES:**

1. AREA DRAIN COVER TO BE NYLOPLAST CAST HS-20 RATED BOLTED AND HINGED GRATE OR APPROVED EQUAL IN TRAFFIC AREAS.
2. AREA DRAIN INLETS IN PEDESTRIAN AREAS SHALL BE INSTALLED WITH PEDESTRIAN RATED GRATES (1/4" MAX OPENING, TYPICAL).

**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



**GRADING & DRAINAGE DETAILS**

PROJECT NUMBER: 2021-041-00  
DATE: 4/12/2023

ISSUED FOR CONSTRUCTION DOCUMENTS

CD1.0



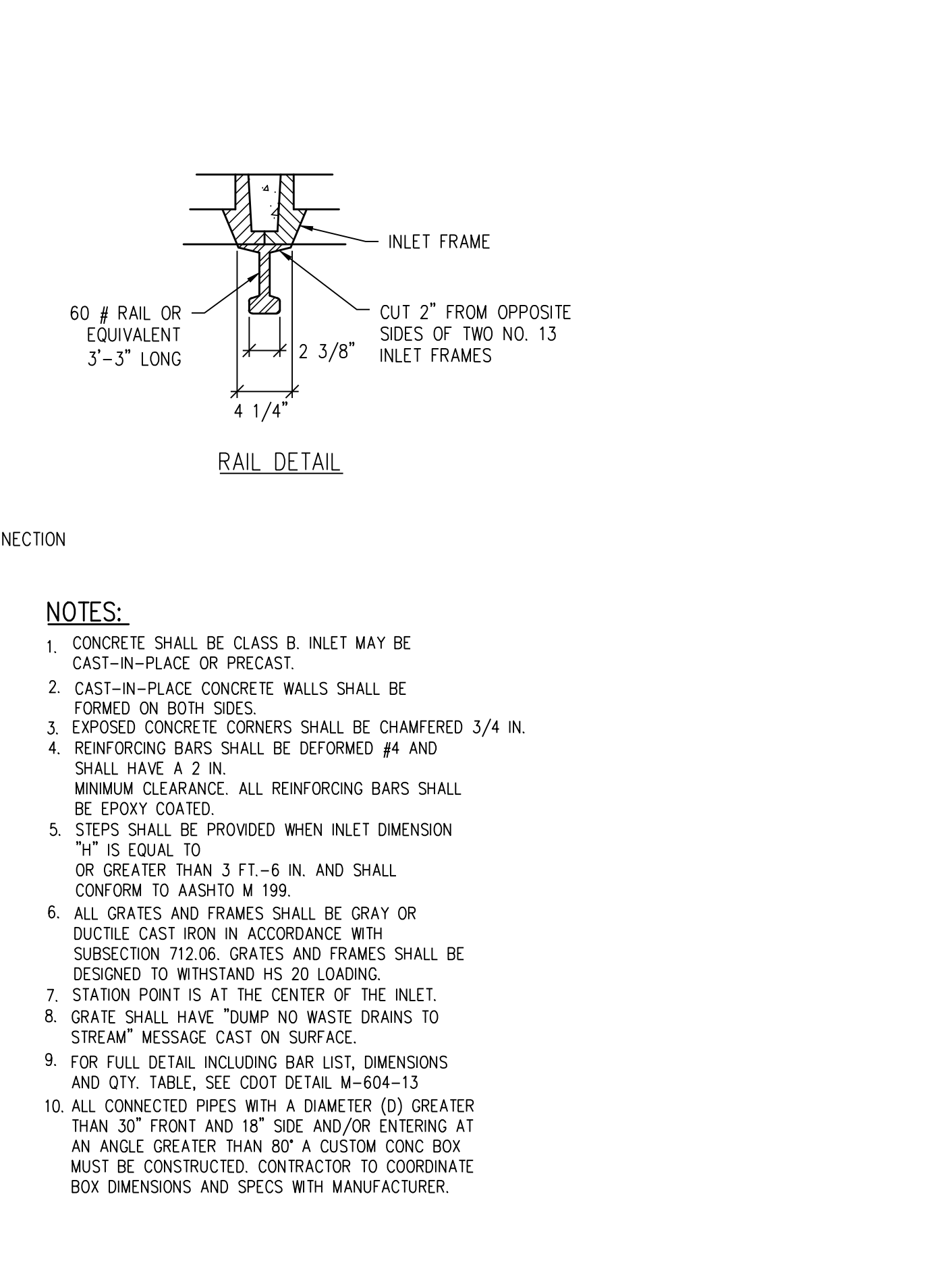
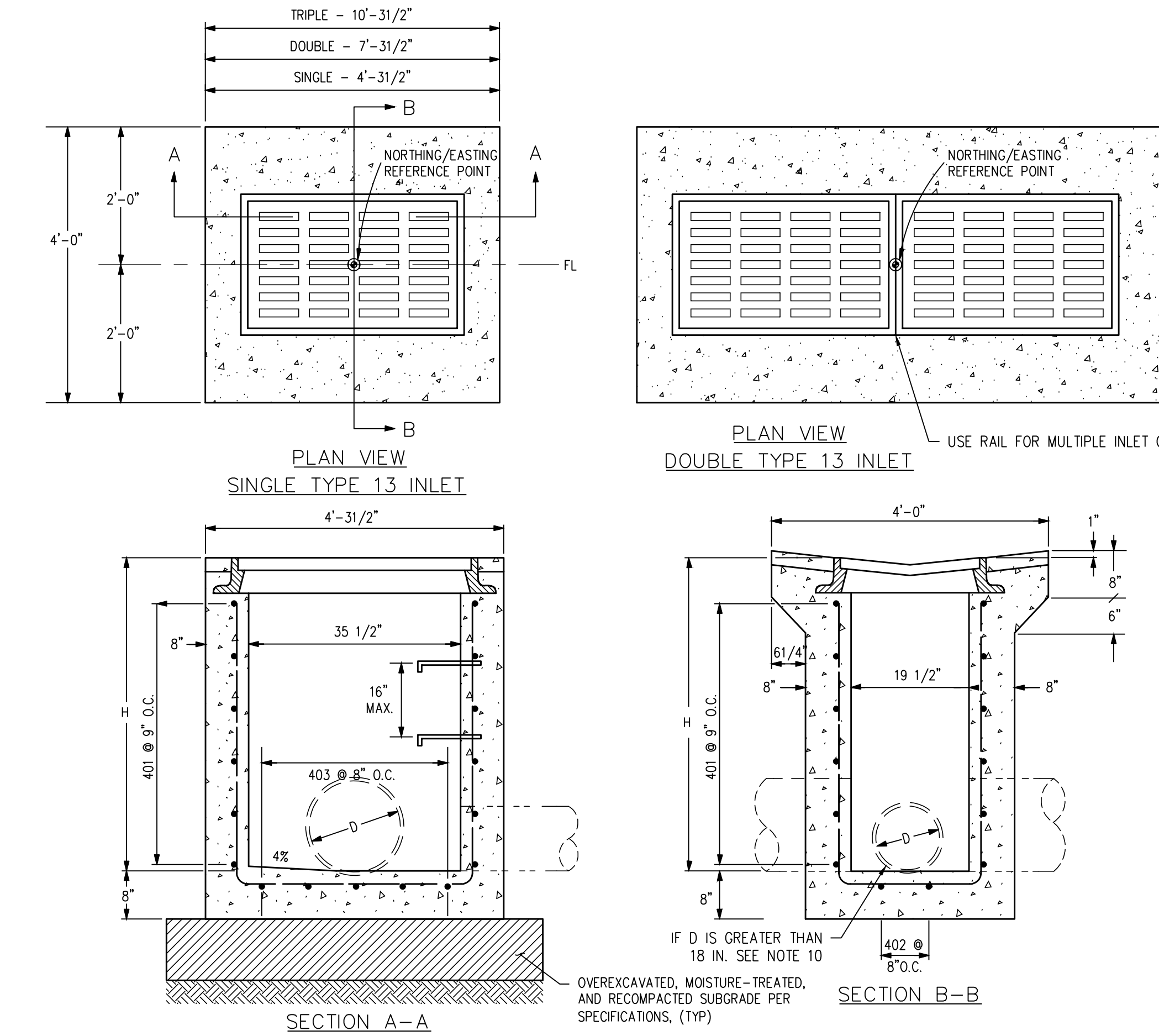
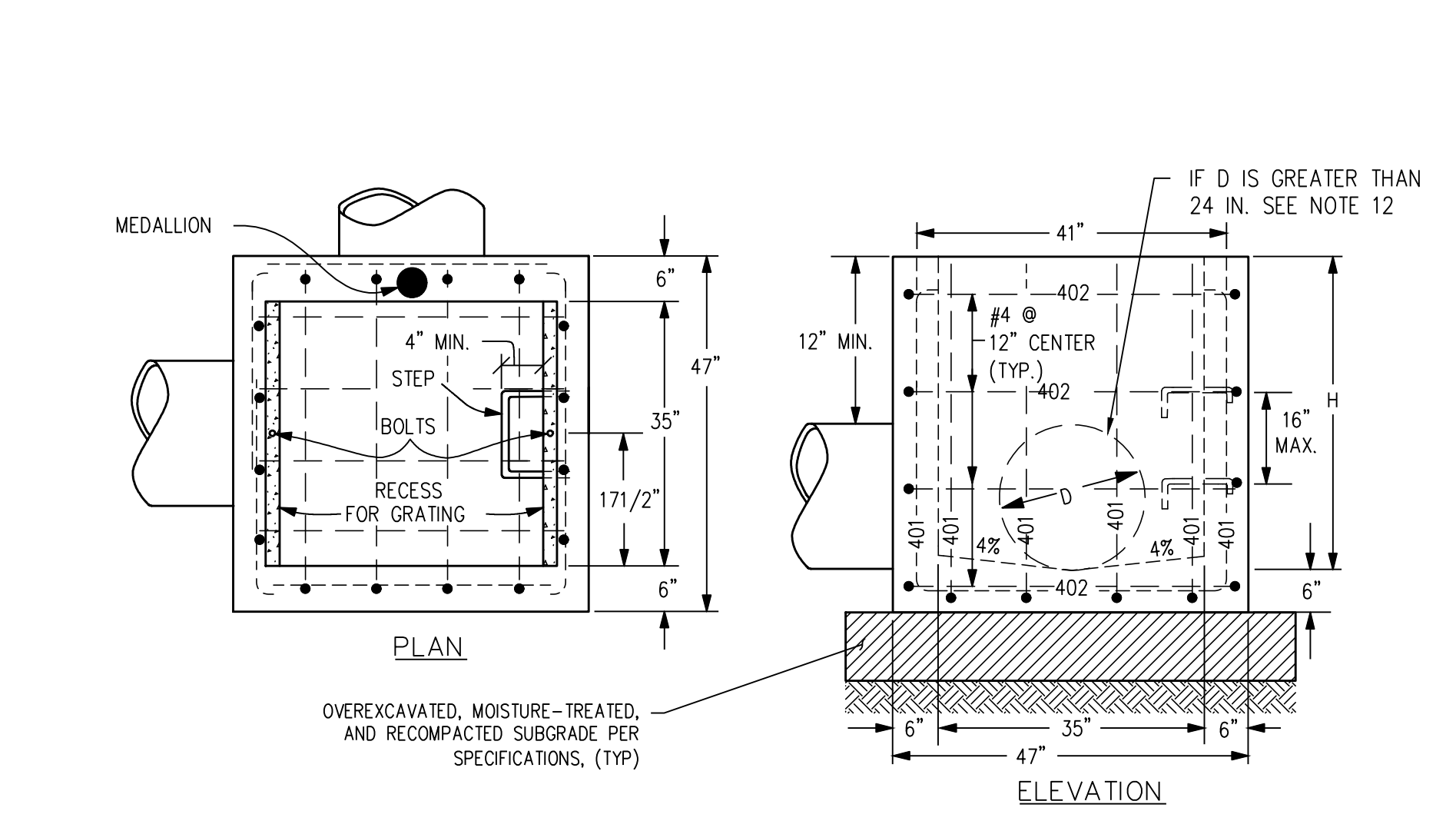
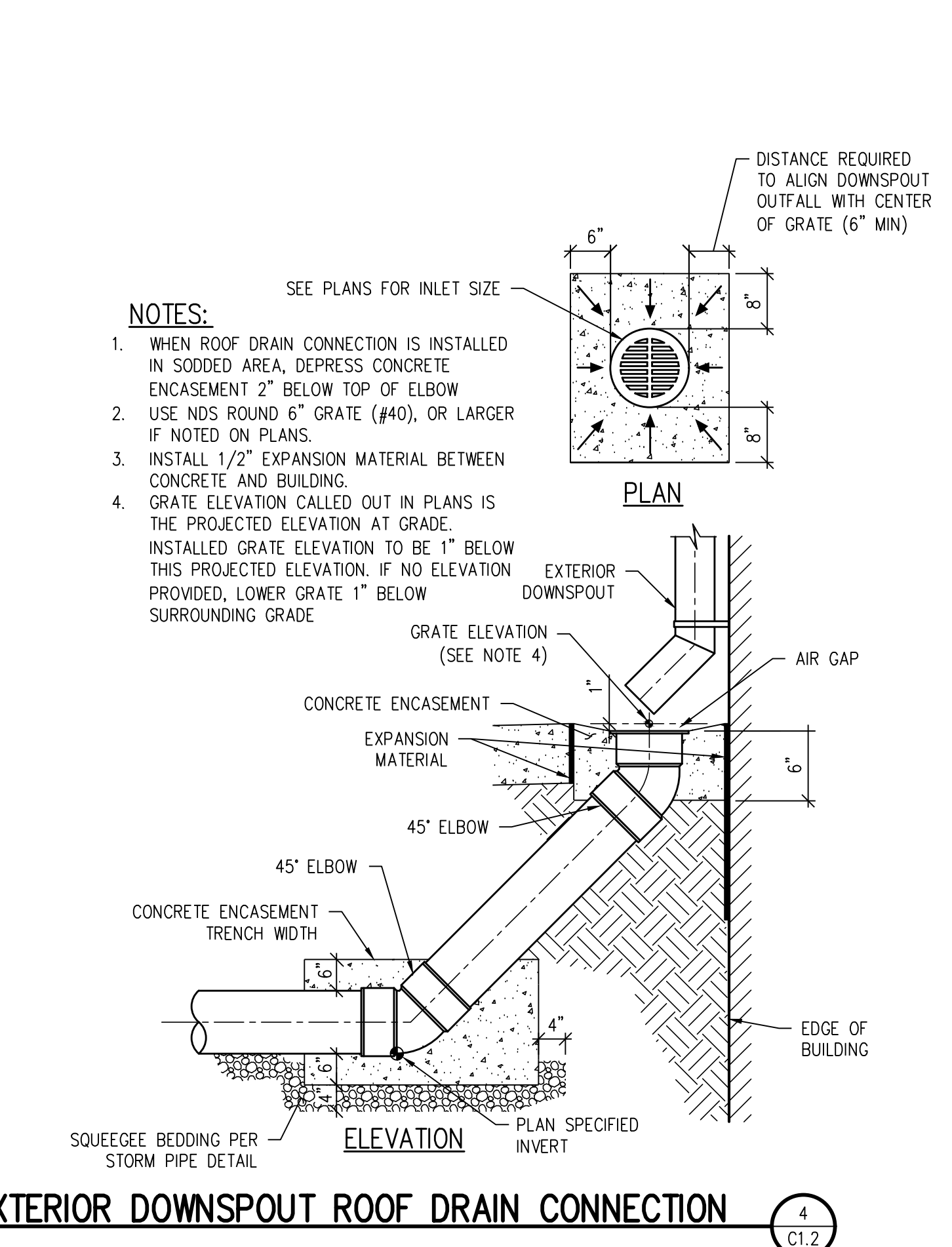
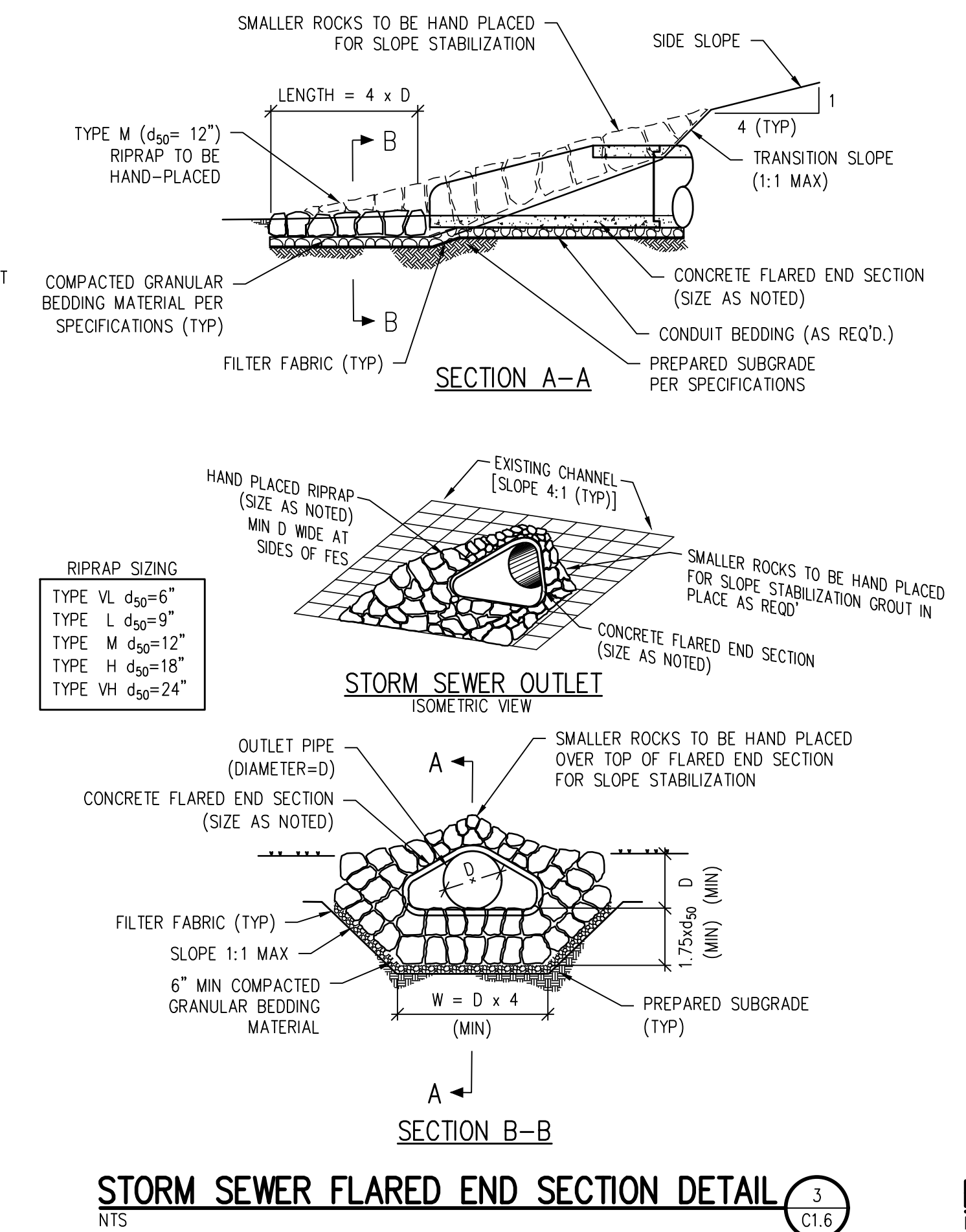
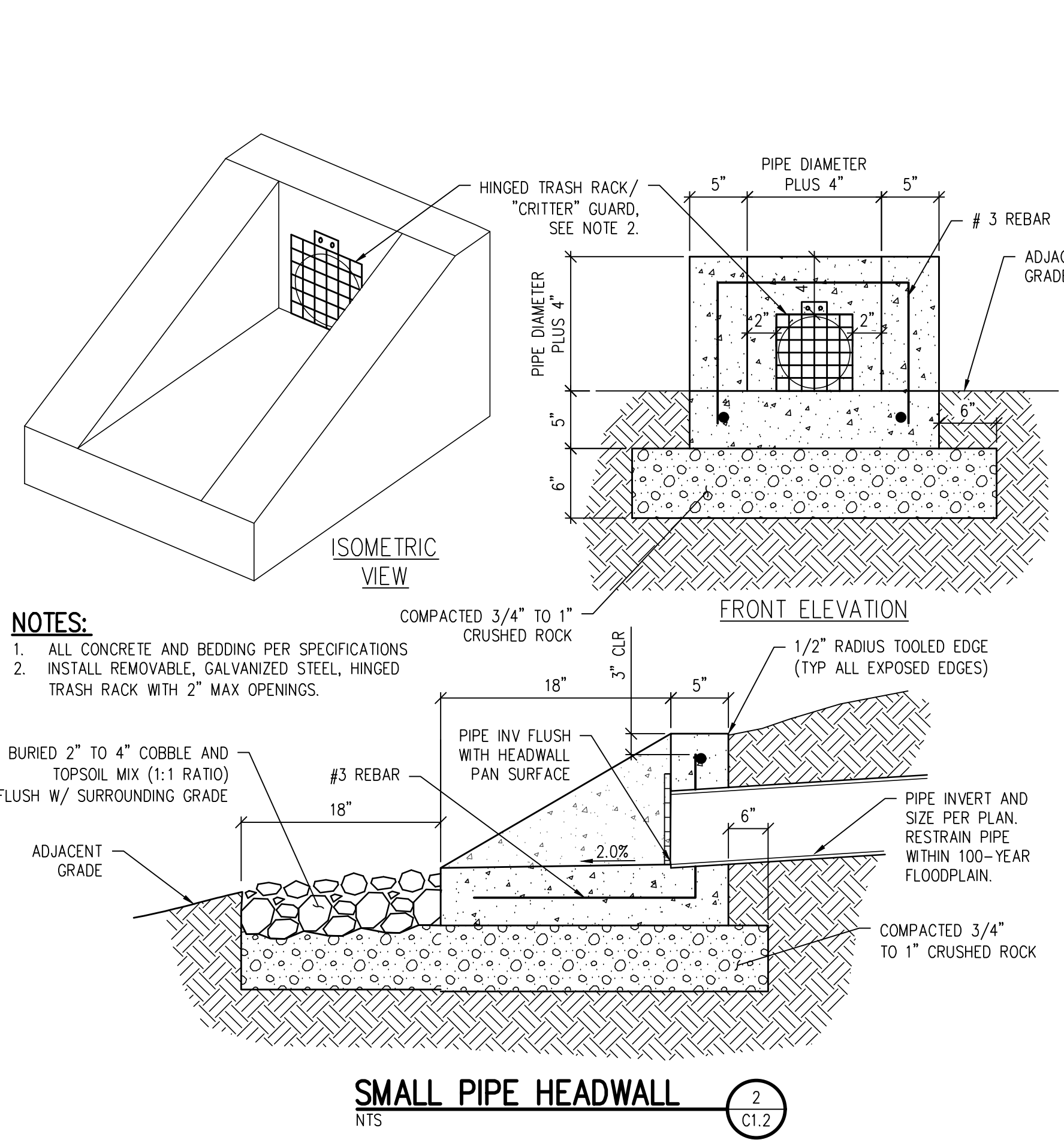
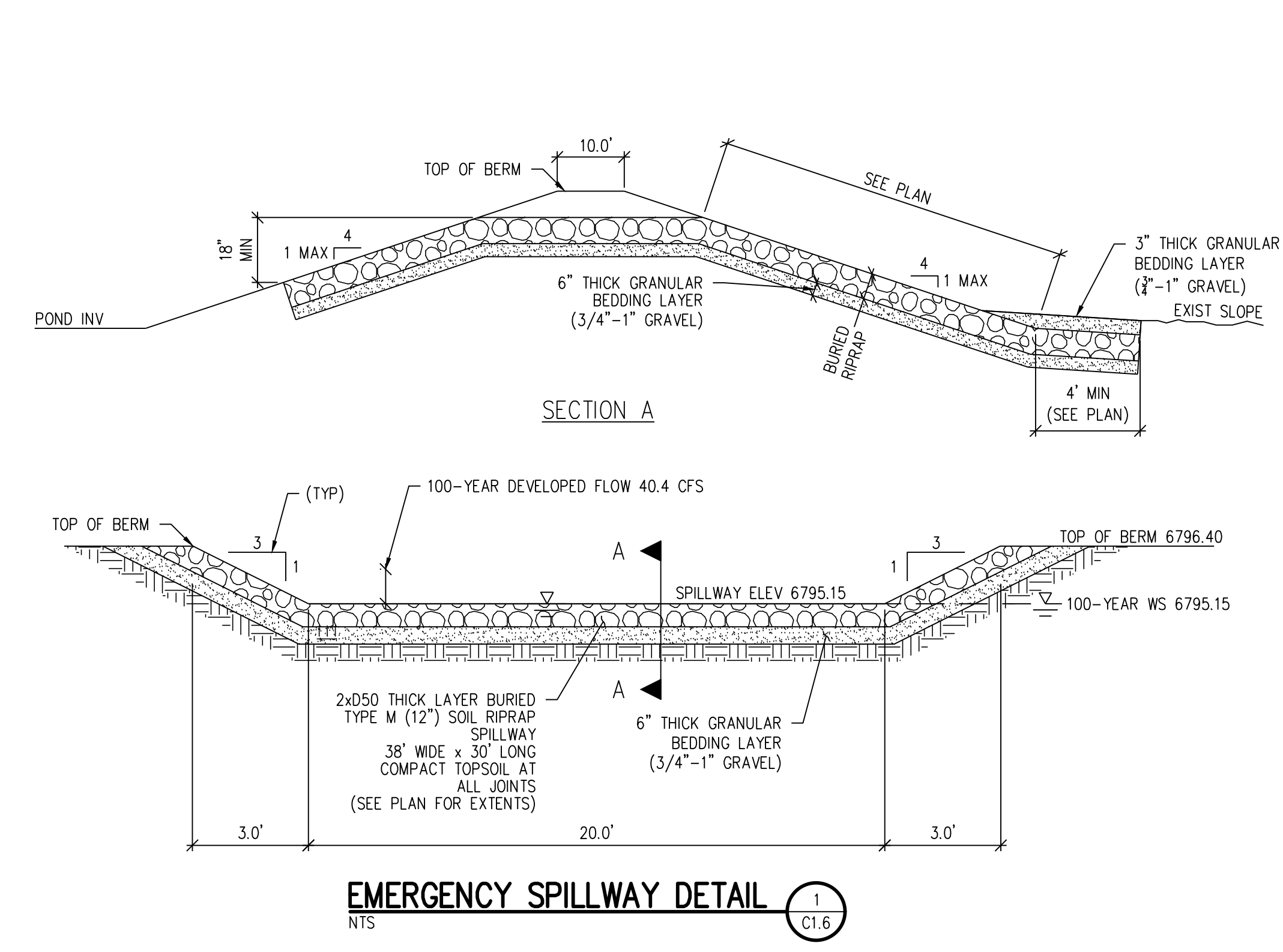
SHEET TITLE  
**GRADING & DRAINAGE DETAILS**

WTA PROJECT NUMBER  
**2021-041-00**  
 DATE  
**4/12/2023**  
 REVISIONS

#	DATE	DESCRIPTION

ISSUED FOR  
**CONSTRUCTION DOCUMENTS**

CD1.1



- NOTES:**
- INLET TYPE C IS NOT HS-20 RATED AND SHALL NOT BE PLACED IN PAVED ROADWAYS. THIS INLET SHALL BE USED ONLY OUTSIDE PAVED ROADWAYS.
  - CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
  - REINFORCING BARS SHALL BE EPOXY COATED AND DEFORMED #4, AND SHALL HAVE A MINIMUM 2 IN. CLEARANCE. CUT OR BEND AROUND PIPES AS REQUIRED.
  - CONCRETE SLOPE AND DITCH PAVING SHALL BE IN ACCORDANCE WITH SECTION 507. REINFORCEMENT FOR CONCRETE SLOPE PAVING SHALL BE 6 X 6 - W/4 X W/4 OR 6 X 6 - W/2.1 X W/2.1.
  - STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED, AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
  - THE STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETS UNLESS CLOSE MESH GRATES ARE SPECIFIED ON THE PLANS.
  - CLOSE MESH GRATES ARE RECOMMENDED WHERE FOOT TRAFFIC OR BICYCLE ROUTES ARE IN CLOSE PROXIMITY TO GRATE. THIS GRATE IS NOT ADA COMPLIANT OR BICYCLE FRIENDLY AND SHALL NOT BE PLACED DIRECTLY IN SIDEWALKS, CROSSWALKS OR BIKE PATHS.
  - STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FT. - 6 IN. AND SHALL CONFORM TO AASHTO M 199.
  - ALL INLETS SHALL HAVE A 4 IN. DIA. METAL MEDALLION WITH A "NO DUMPING DRAINS TO STREAM" MESSAGE ON IT. THE MEDALLION SHALL HAVE A FISH SYMBOL WITH A BLUE BACKGROUND. IT SHALL BE PERMANENTLY ATTACHED TO THE TOP OF THE INLET WITH A PERMANENT FASTENER.
  - SEE PLANS FOR SIZE AND LOCATION OF PIPE.
  - FOR FULL DETAIL INCLUDING BAR LIST, DIMENSIONS AND QTY. TABLE, SEE CDDT DETAIL M-604-10
  - ALL CONNECTED PIPES WITH A DIAMETER (D) GREATER THAN 24" AND/OR ENTERING AT AN ANGLE GREATER THAN 80° A CUSTOM CONC BOX MUST BE CONSTRUCTED. CONTRACTOR TO COORDINATE BOX DIMENSIONS AND SPECS WITH MANUFACTURER.

- NOTES:**
- CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
  - CAST-IN-PLACE CONCRETE WALLS SHALL BE FORMED ON BOTH SIDES.
  - EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4 IN.
  - REINFORCING BARS SHALL BE DEFORMED #4 AND SHALL HAVE A 2 IN. MINIMUM CLEARANCE. ALL REINFORCING BARS SHALL BE EPOXY COATED.
  - STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FT. - 6 IN. AND SHALL CONFORM TO AASHTO M 199.
  - ALL GRATES AND FRAMES SHALL BE GRAY OR DUCTILE CAST IRON IN ACCORDANCE WITH SUBSECTION 712.06. GRATES AND FRAMES SHALL BE DESIGNED TO WITHSTAND HS 20 LOADING.
  - STATION POINT IS AT THE CENTER OF THE INLET.
  - GRATE SHALL HAVE "DUMP NO WASTE DRAINS TO STREAM" MESSAGE CAST ON SURFACE.
  - FOR FULL DETAIL INCLUDING BAR LIST, DIMENSIONS AND QTY. TABLE, SEE CDDT DETAIL M-604-13
  - ALL CONNECTED PIPES WITH A DIAMETER (D) GREATER THAN 30" FRONT AND 18" SIDE AND/OR ENTERING AT AN ANGLE GREATER THAN 80° A CUSTOM CONC BOX MUST BE CONSTRUCTED. CONTRACTOR TO COORDINATE BOX DIMENSIONS AND SPECS WITH MANUFACTURER.

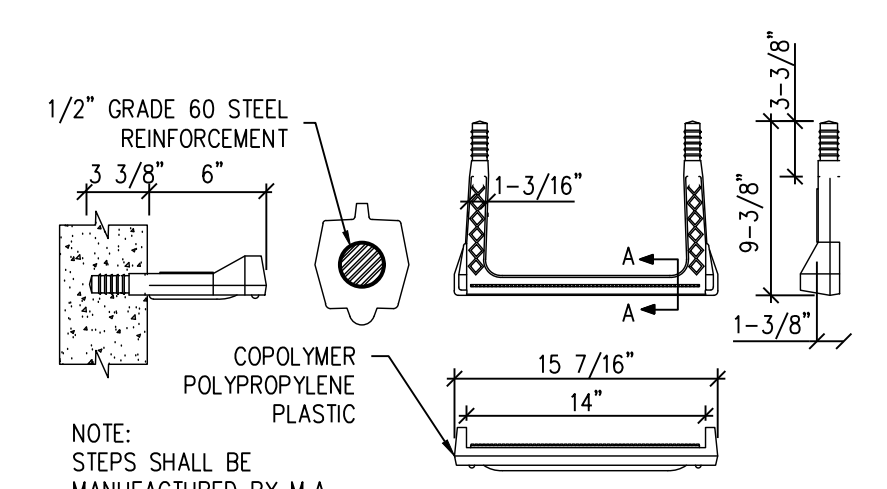
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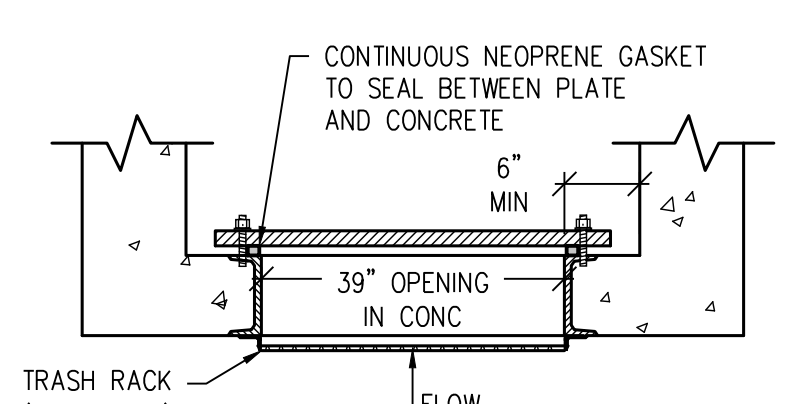
**GRADING & DRAINAGE DETAILS**

WTA PROJECT NUMBER  
**2021-041.00**  
DATE  
**4/12/2023**

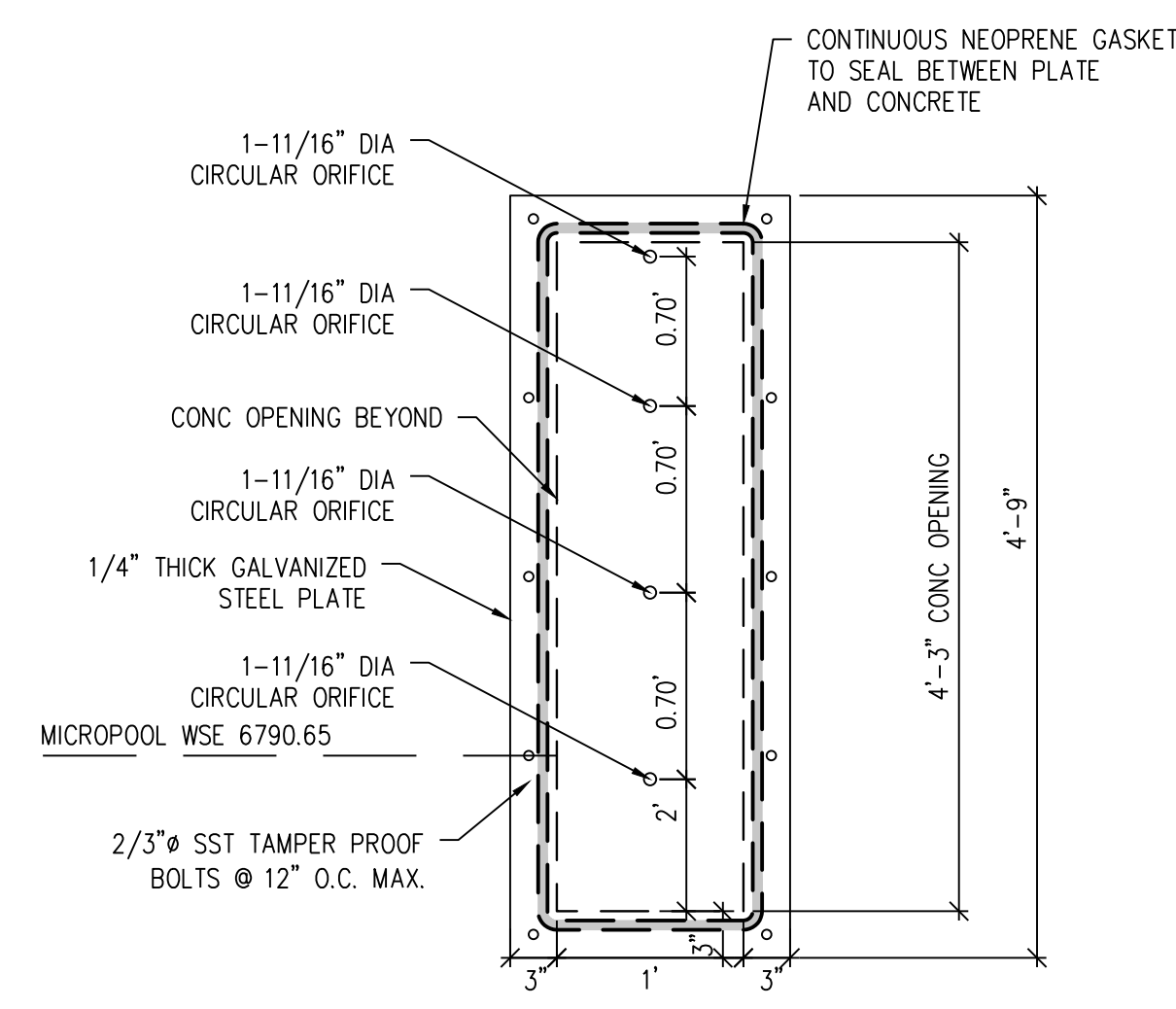
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CHECKED BY: **TWK/AMB**  
DATE: **4/12/2023**



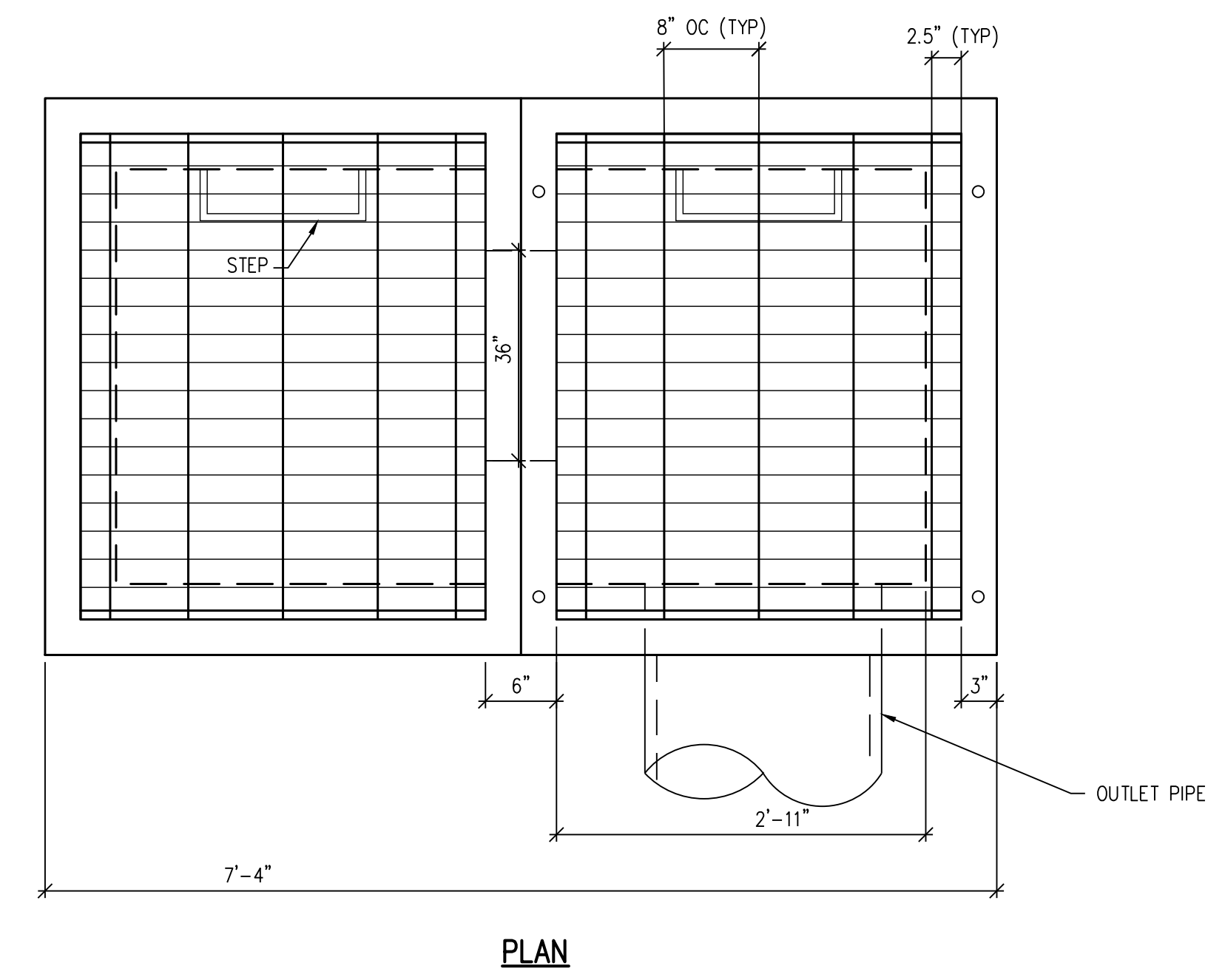
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**SECTION B-B - PLAN VIEW**



**WATER QUALITY PLATE DETAIL**



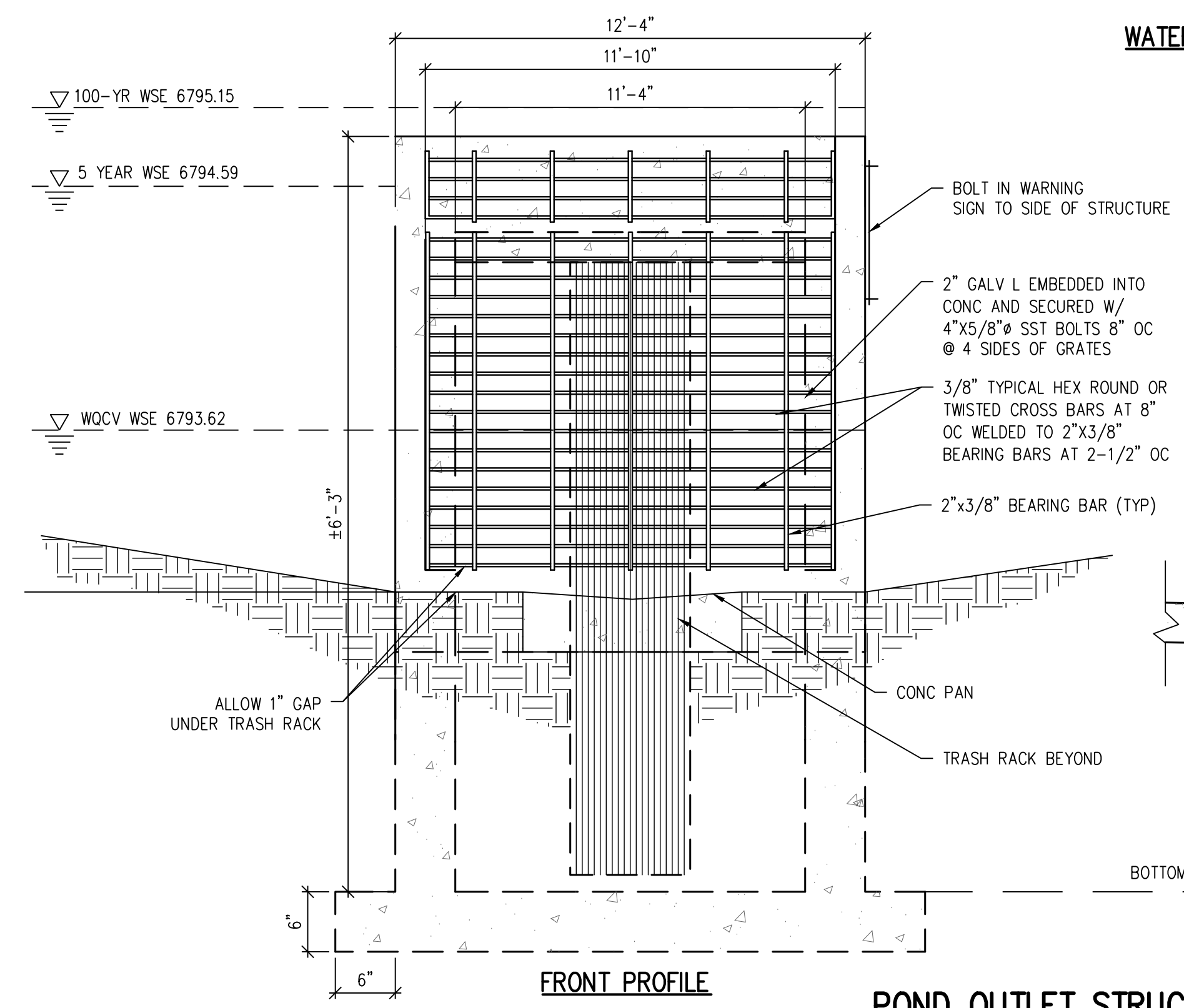
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**TRASH RACK NOTES:**

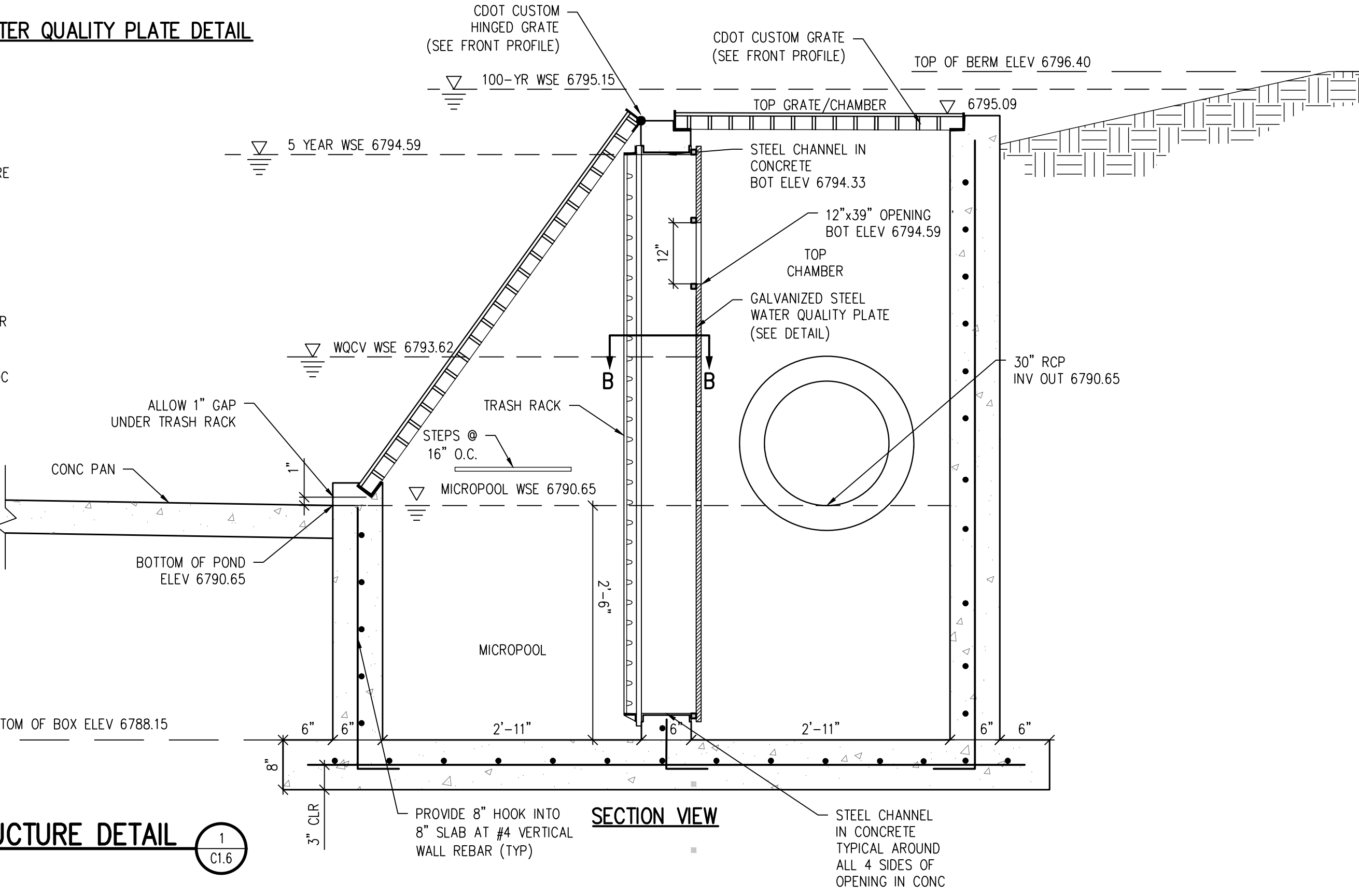
- SPECIFIED TRASH RACK: US FILTER STAINLESS STEEL WELL-SCREEN WITH #93 VEE WIRE, 0.139\"/>

**STRUCTURAL NOTES:**

- CONCRETE SHALL BE CDOT CLASS D AND CAST-IN PLACE.
- PROVIDE STEPS AT 15\"/>



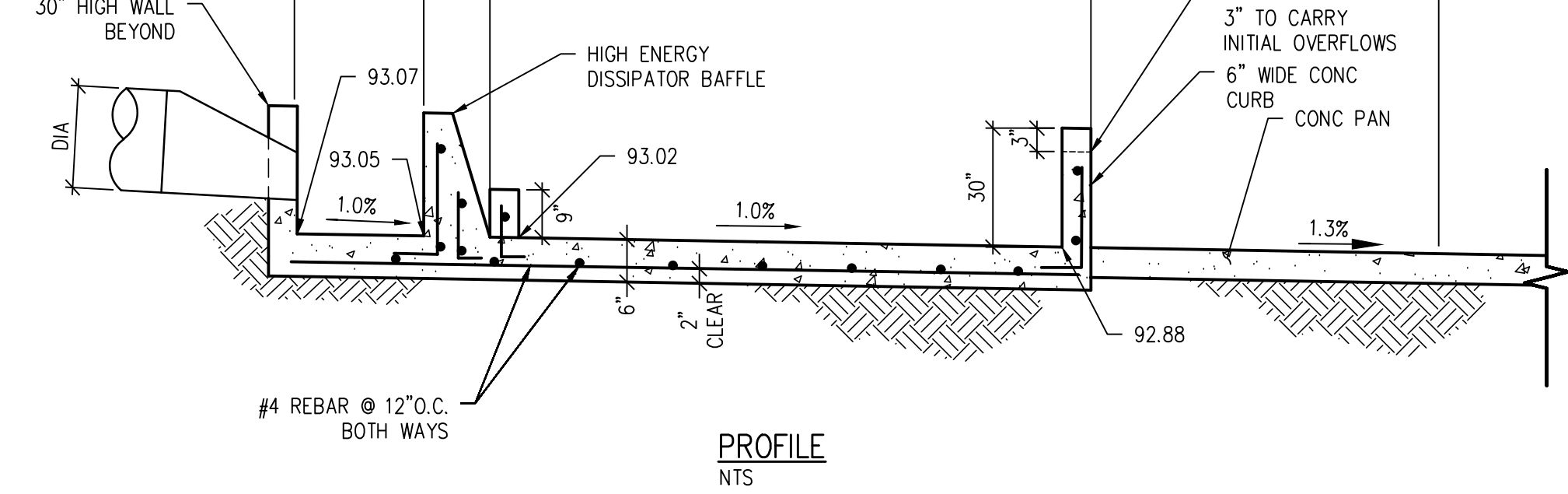
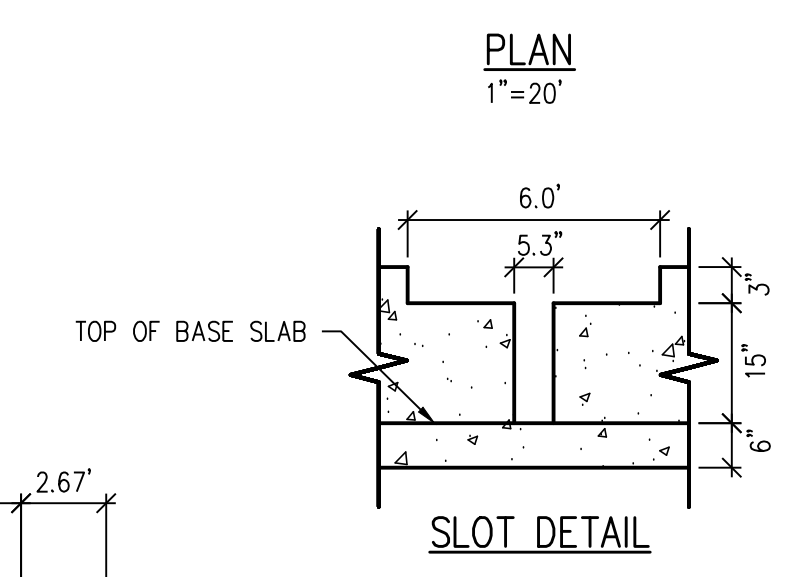
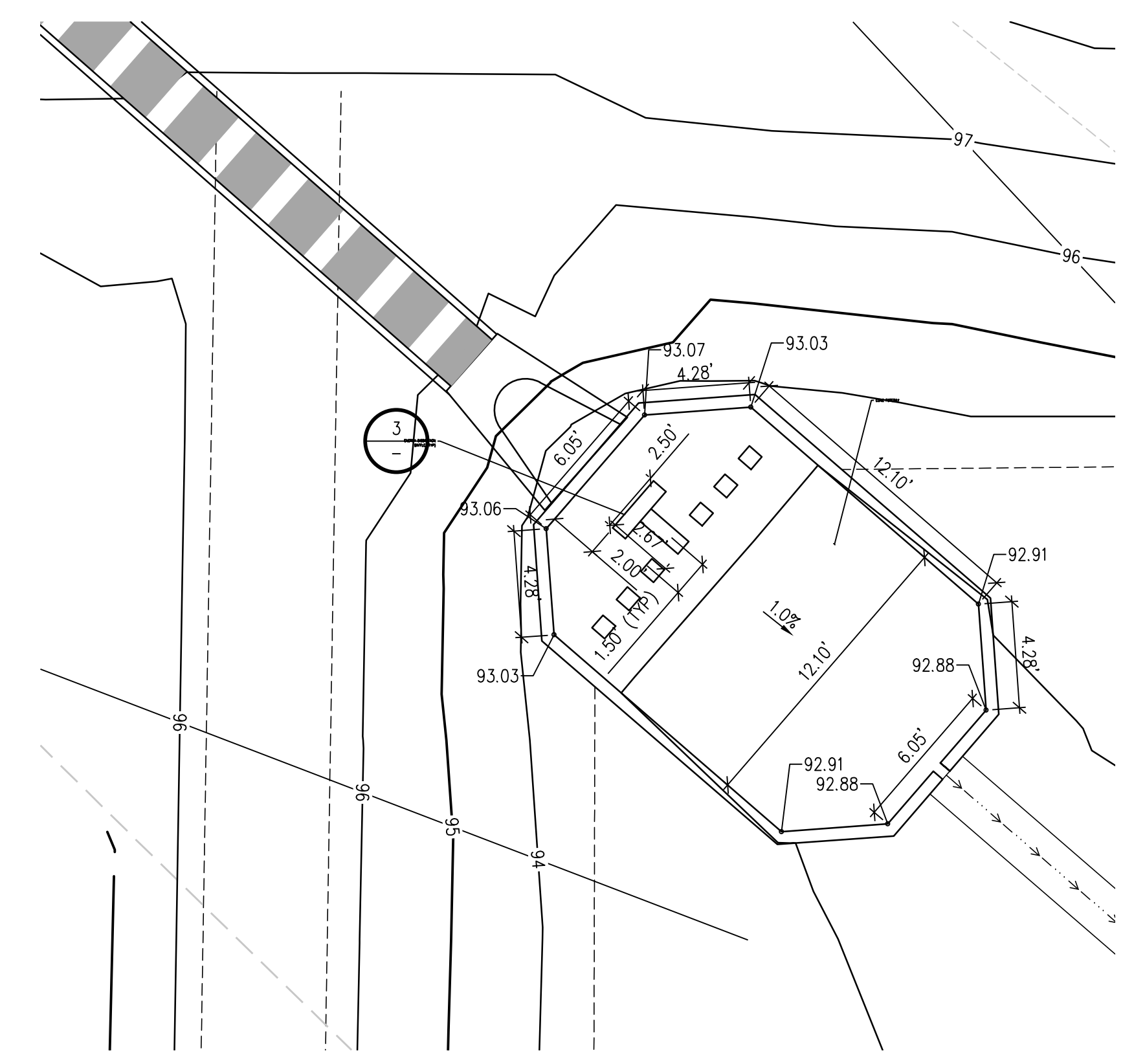
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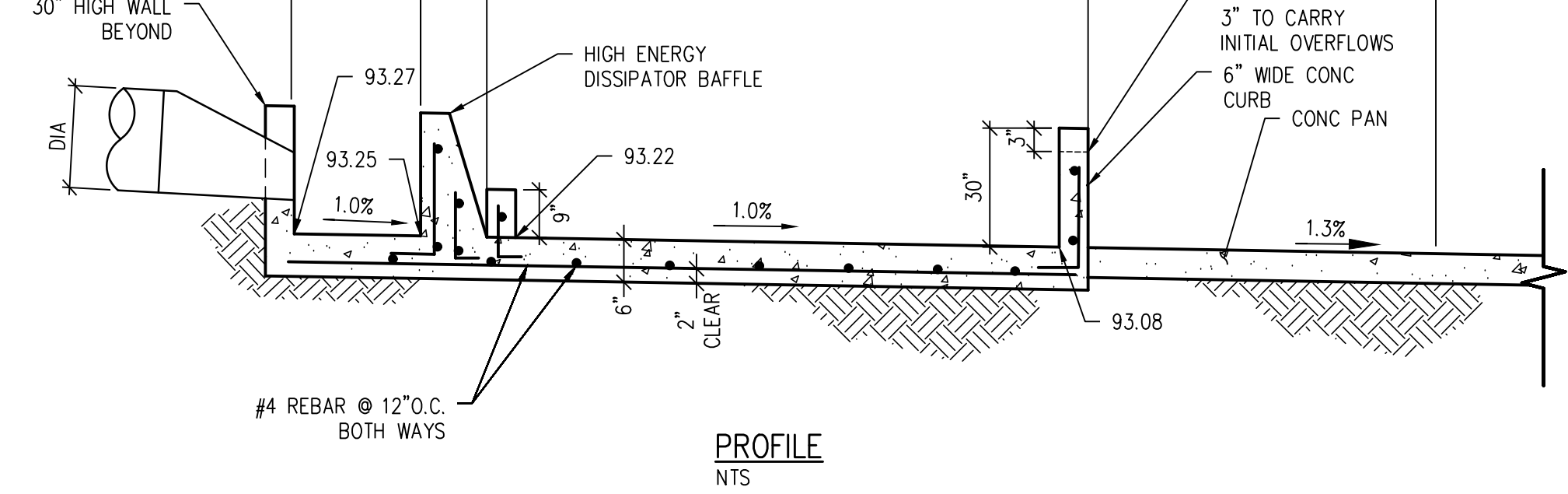
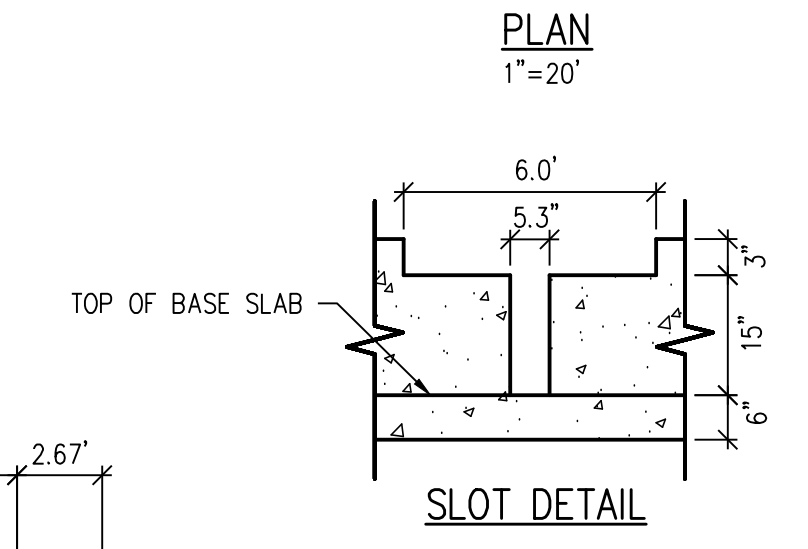
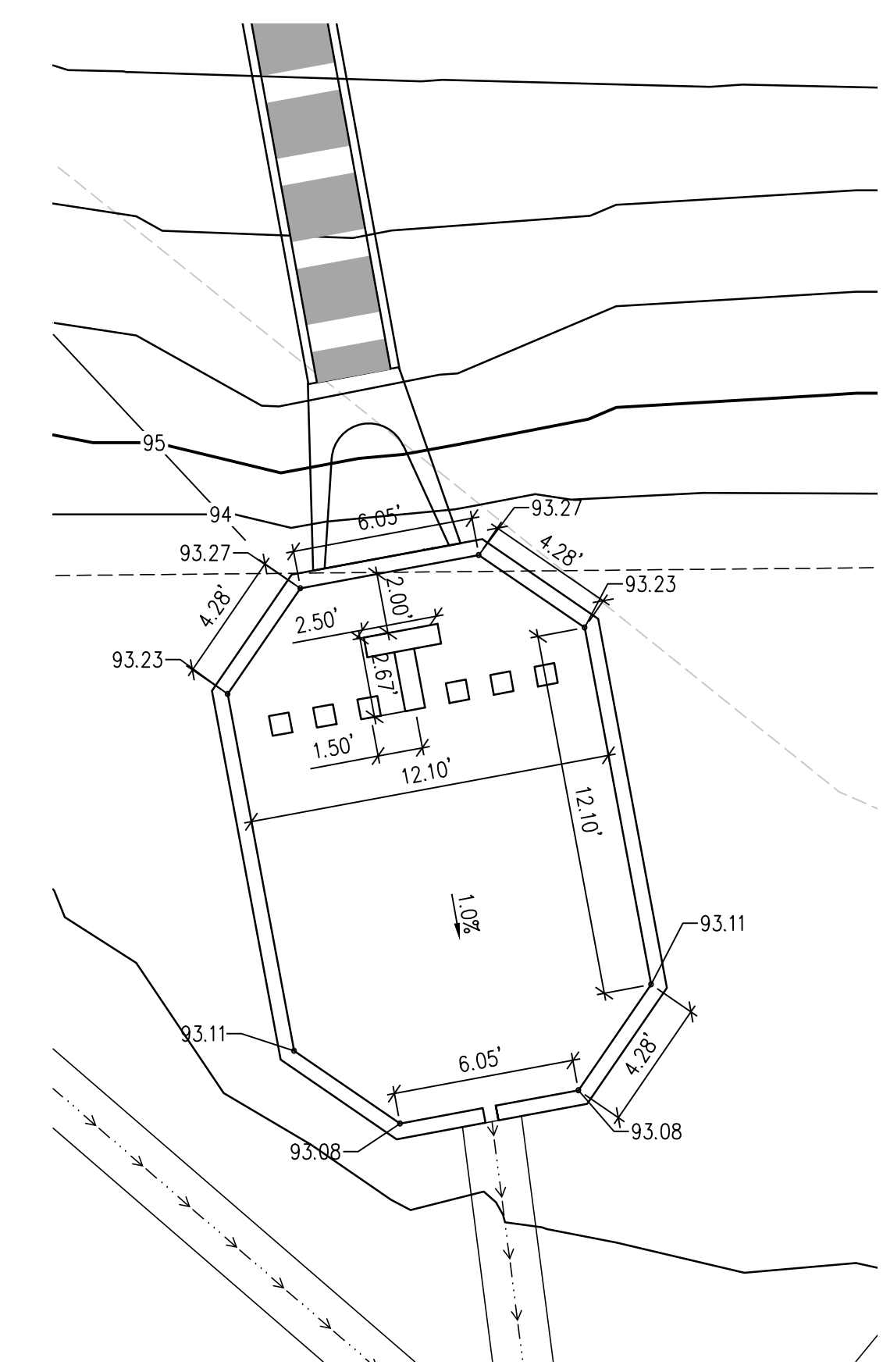
**SECTION VIEW**

**POND OUTLET STRUCTURE DETAIL**

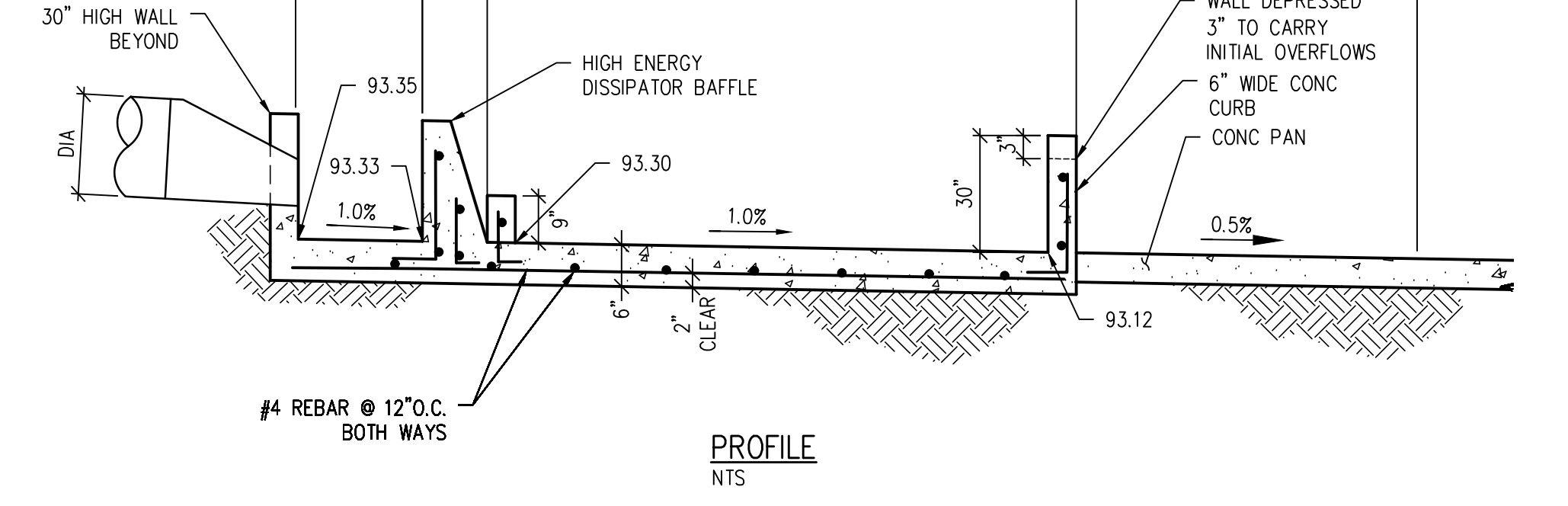
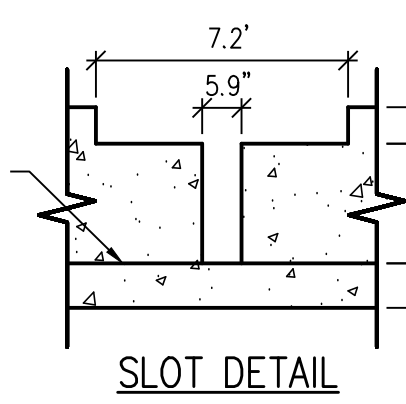
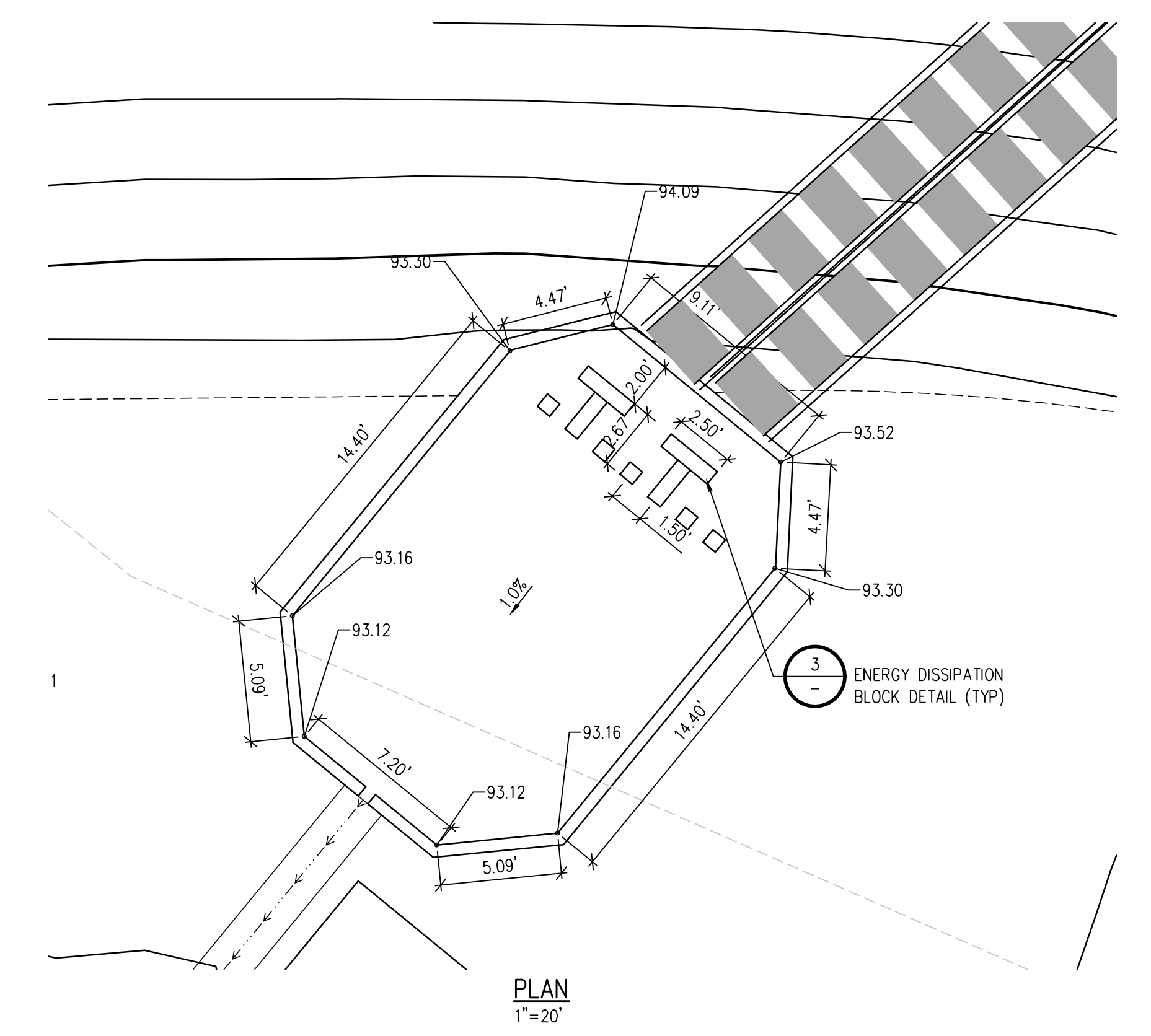
**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



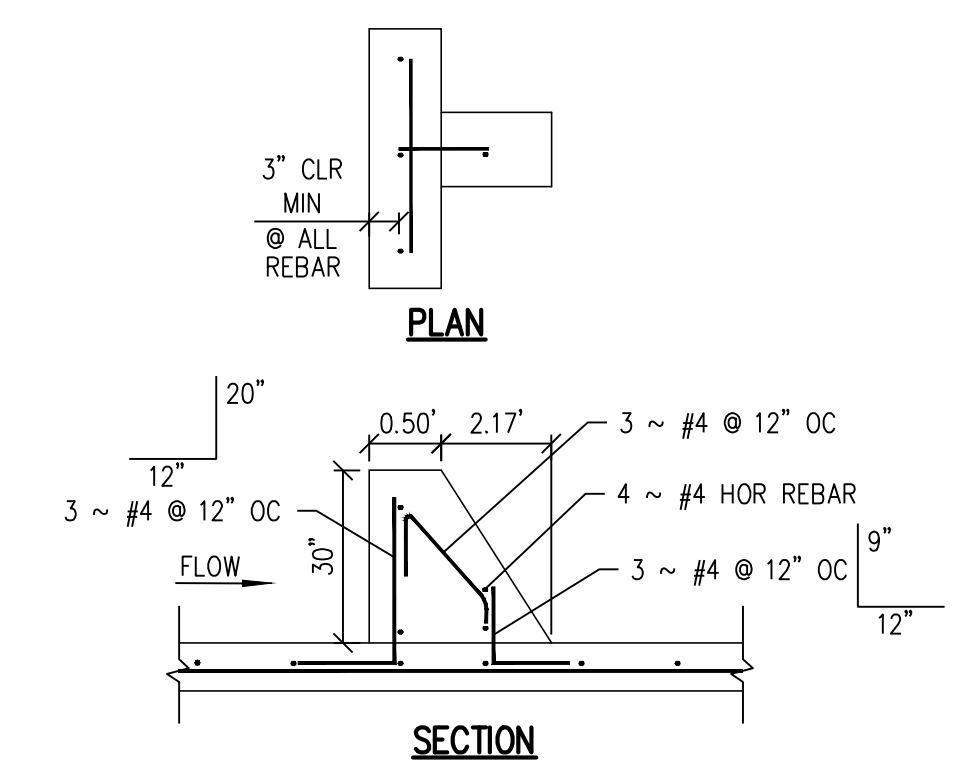
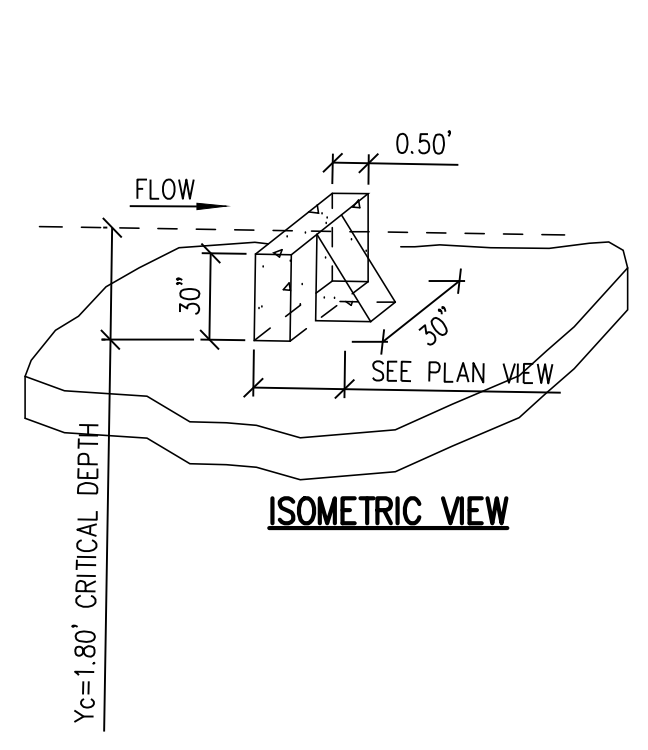
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C1.6



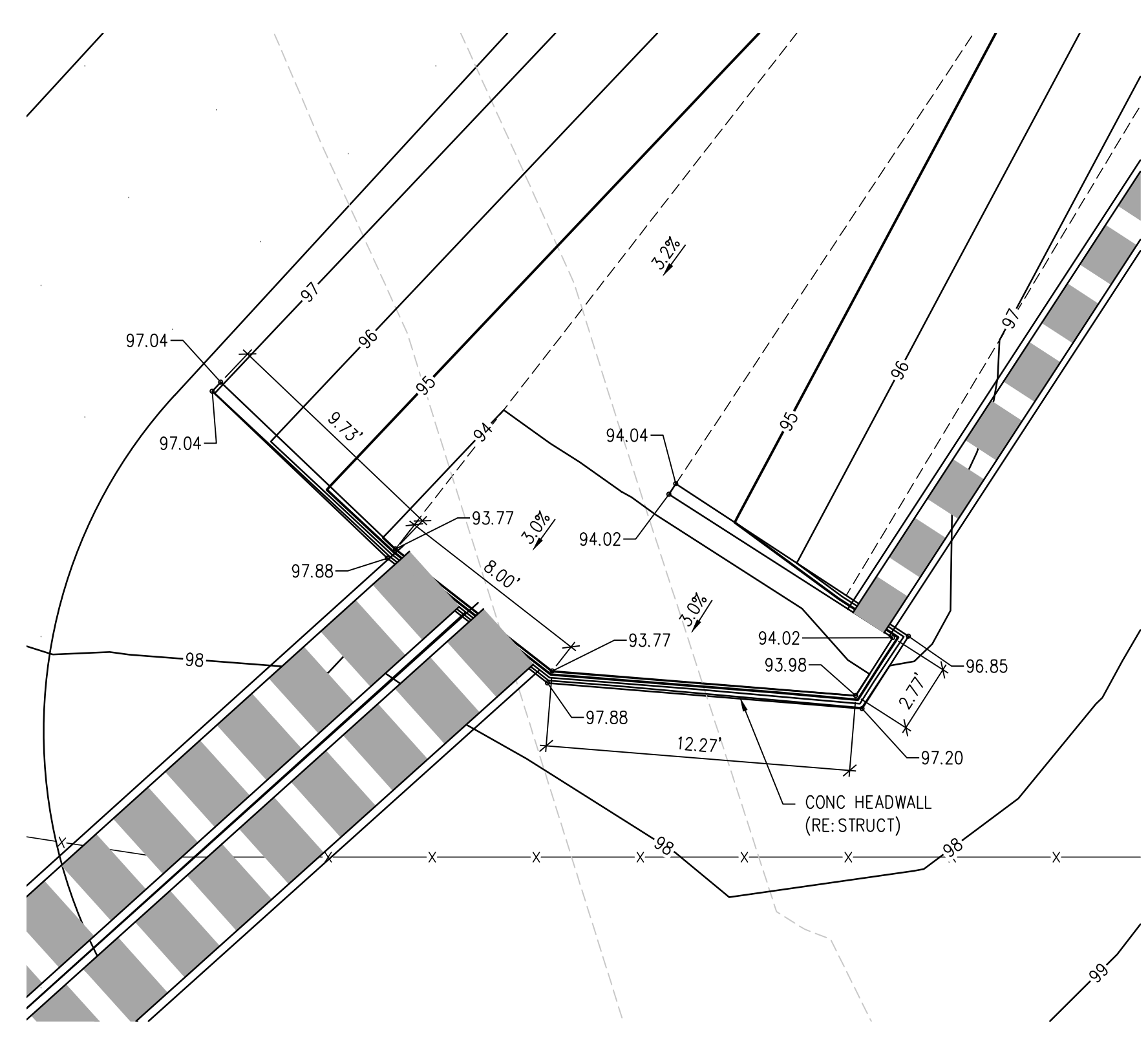
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**FOREBAY C DETAIL** (3)  
SCALE: NTS  
C1.6



**ENERGY DISSIPATION BLOCK DETAIL** (4)  
NTS  
C1.6



**HEADWALL A DETAIL** (5)  
SCALE: NTS  
C1.5



SHEET TITLE  
**GRADING & DRAINAGE DETAILS**

DATE APPROVAL: **2021-04-10**  
DATE: **4/12/2023**

#	DATE	DESCRIPTION

DESIGNED BY: **CWK/HCM**  
DRAWN BY: **TWW/AMB**  
CHECKED BY: **CWK**

ISSUED FOR:  
**CONSTRUCTION DOCUMENTS**

**CD1.3**

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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
 11971 SWINGLINE ROAD  
 PEYTON, CO 80831



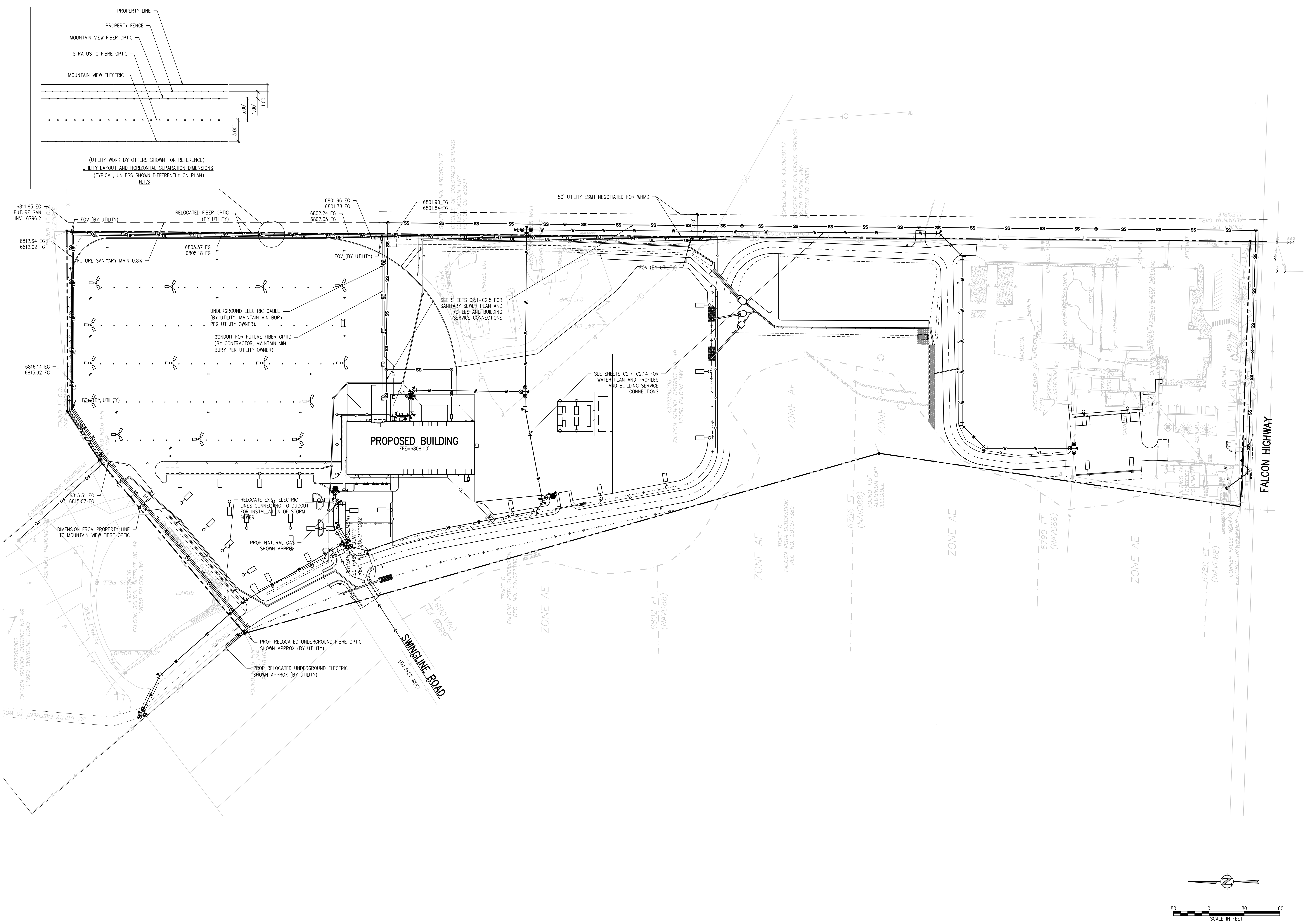
OVERALL  
 UTILITY PLAN

DATE: 4/12/2023  
 SHEET NO: 041.00

DESIGNED BY: CWK/HCM  
 DRAWN BY: TWW/AMB  
 CHECKED BY: CWK

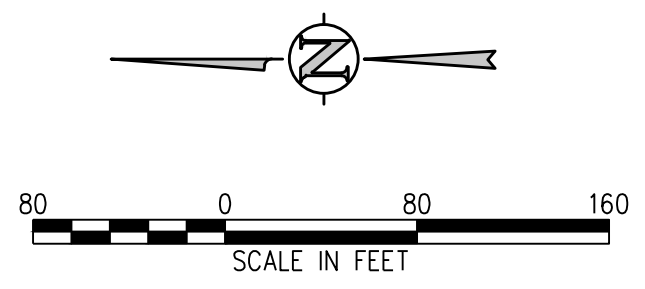
CONSTRUCTION DOCUMENTS

C2.0



**UTILITY NOTES:**

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY LOCATION AND PROTECTION.
2. ALL DRY UTILITY AND ELECTRIC DESIGNS ARE PROVIDED BY OTHERS AND SHOWN FOR REFERENCE ONLY. SEE MEP PLANS AND SPECIFICATIONS AND COORDINATE WITH ALL UTILITY OWNERS AS NEEDED.
3. CONTRACTOR TO MARK ALL UTILITY STUBS WITH MARKERS.
4. CUTOFF WALL TO BE INSTALLED EVERY 200 FEET (MAX) FOR ALL DEEP UTILITY TRENCHING. SEE DETAIL 1/CD2.1.
5. SEE SHEET CD2.0 FOR GENERAL NOTES AND ADDITIONAL REQUIREMENTS OF WOODMEN HILLS METRO DISTRICT.



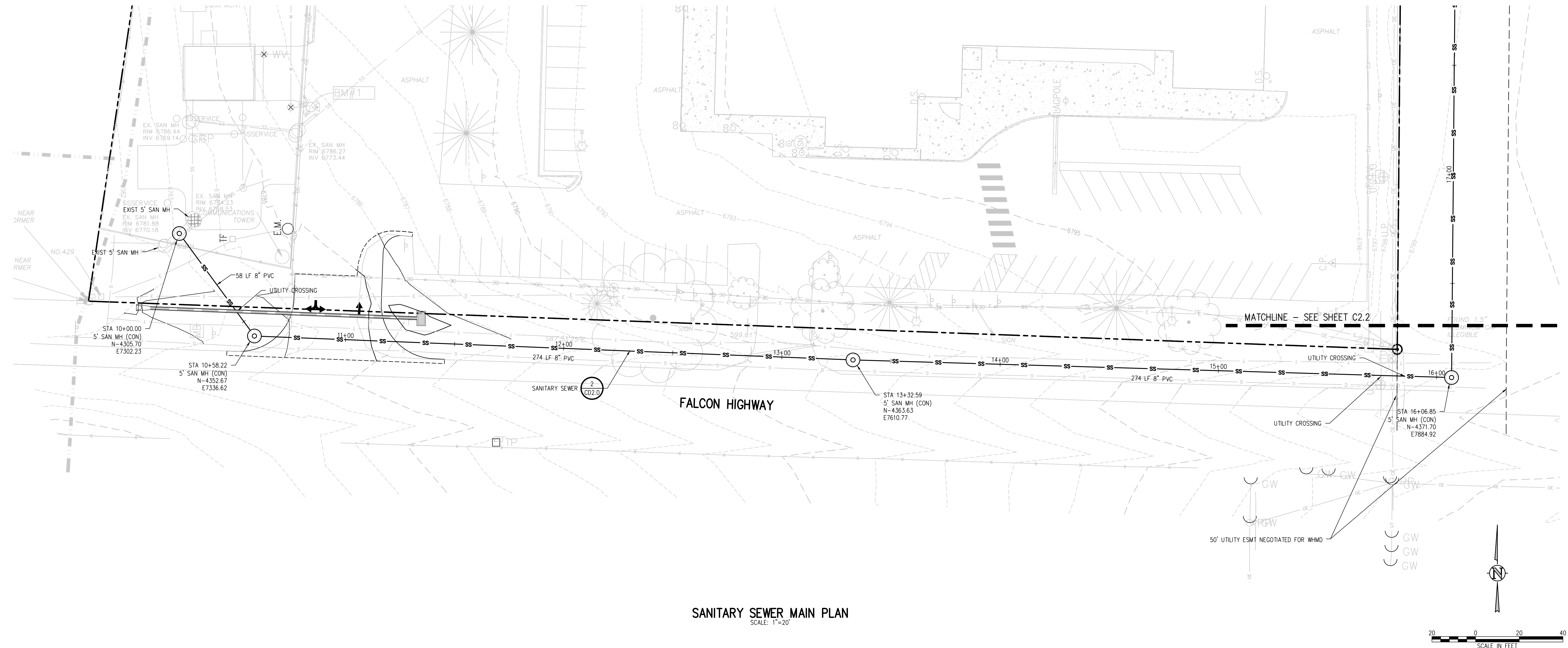
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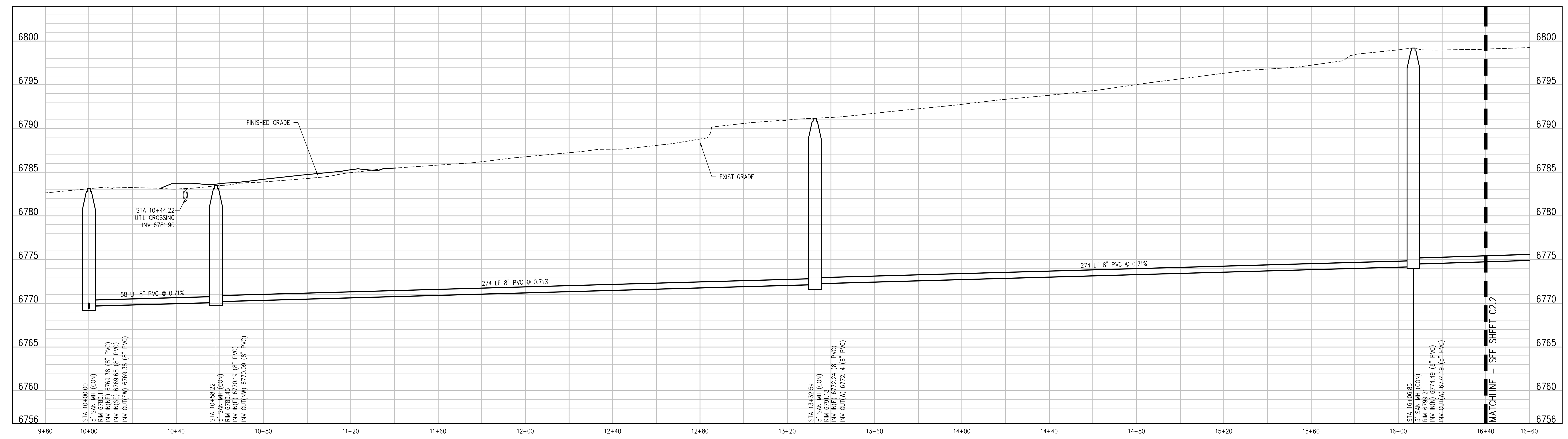
SHEET TITLE  
**SANITARY MAIN  
PLAN AND  
PROFILE**

PROJECT NUMBER  
**2021-041.00**  
DATE  
**4/12/2023**

DESIGNED BY  
**CWK/HCM**  
CHECKED BY  
**TWW/AMB**  
DATE  
**4/12/2023**



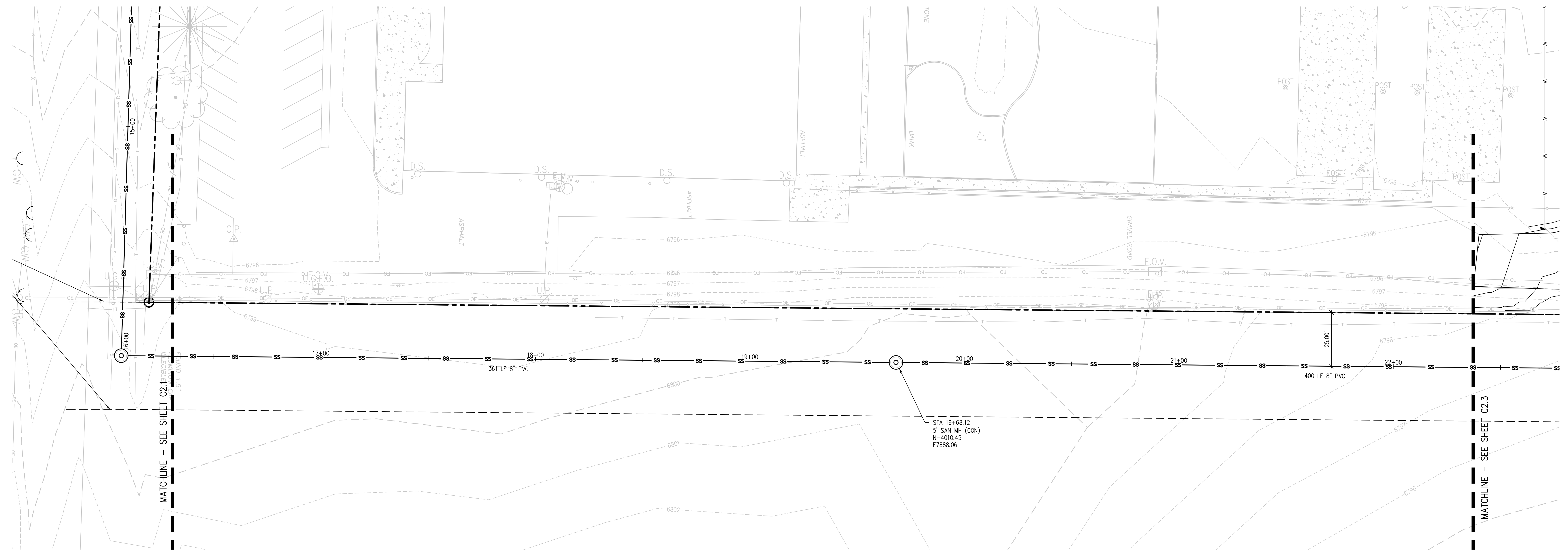
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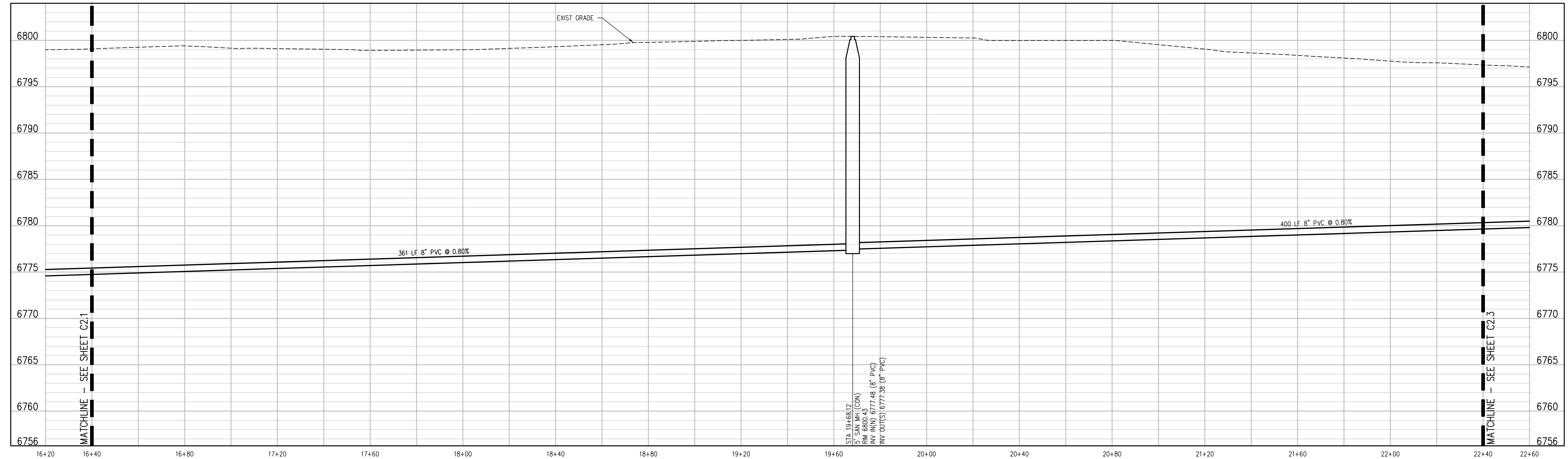
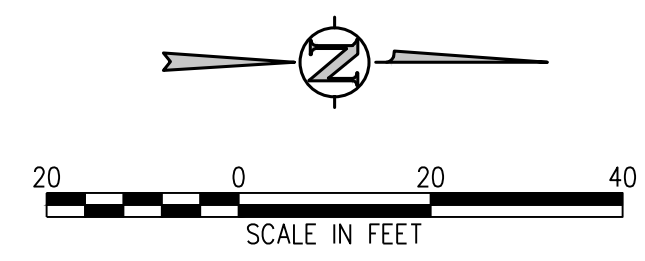
**BIN SANITARY MAIN PROFILE**  
SCALE: 1"=20' HORIZ  
1"=5' VERT

- UTILITY NOTES:**
- CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY LOCATION AND PROTECTION.
  - ALL DRY UTILITY AND ELECTRIC DESIGNS ARE PROVIDED BY OTHERS AND SHOWN FOR REFERENCE ONLY. SEE MEP PLANS AND SPECIFICATIONS AND COORDINATE WITH ALL UTILITY OWNERS AS NEEDED.
  - CONTRACTOR TO MARK ALL UTILITY STUBS WITH MARKERS.
  - CUTOFF WALL TO BE INSTALLED EVERY 200 FEET (MAX) FOR ALL DEEP UTILITY TRENCHING. SEE DETAIL 1/CD2.1.
  - SEE SHEET CD2.0 FOR GENERAL NOTES AND ADDITIONAL REQUIREMENTS OF WOODMEN HILLS METRO DISTRICT.

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**SANITARY SEWER MAIN PLAN**  
SCALE: 1"=20'



**BIN SANITARY MAIN PROFILE**  
SCALE: 1"=20' HORIZ  
1"=5' VERT

- UTILITY NOTES:**
- CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY LOCATION AND PROTECTION.
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  - CONTRACTOR TO MARK ALL UTILITY STUBS WITH MARKERS.
  - CUTOFF WALL TO BE INSTALLED EVERY 200 FEET (MAX) FOR ALL DEEP UTILITY TRENCHING. SEE DETAIL 1/CD2.1.
  - SEE SHEET CD2.0 FOR GENERAL NOTES AND ADDITIONAL REQUIREMENTS OF WOODMEN HILLS METRO DISTRICT.

**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**SANITARY MAIN PLAN AND PROFILE**

WTA PROJECT NUMBER  
**2021-041.00**

DATE  
**4/12/2023**

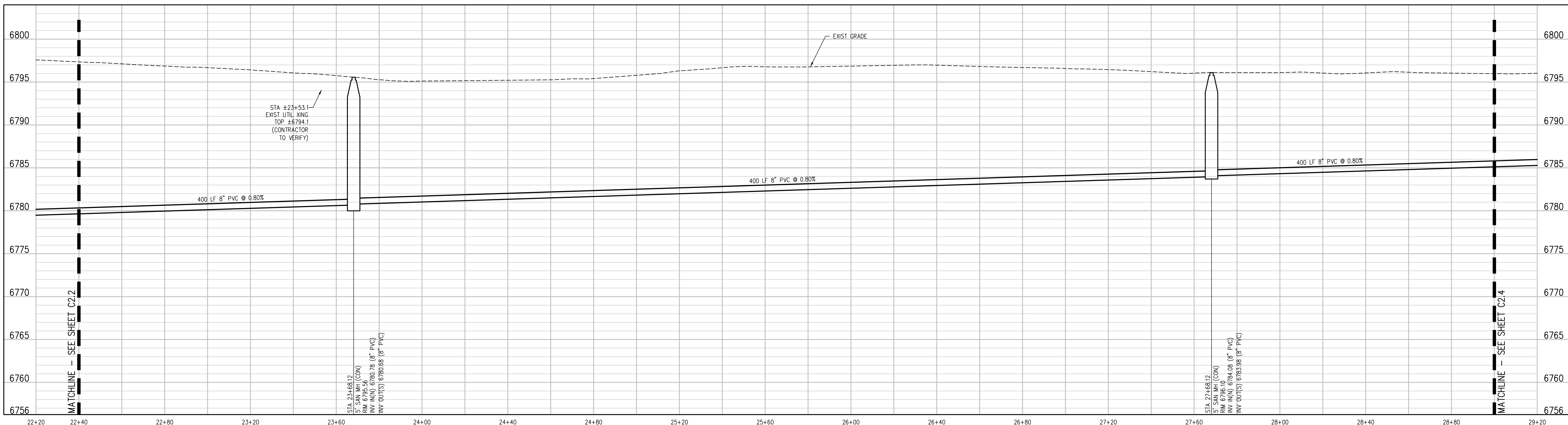
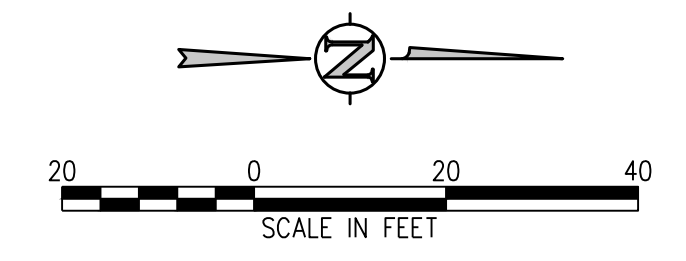
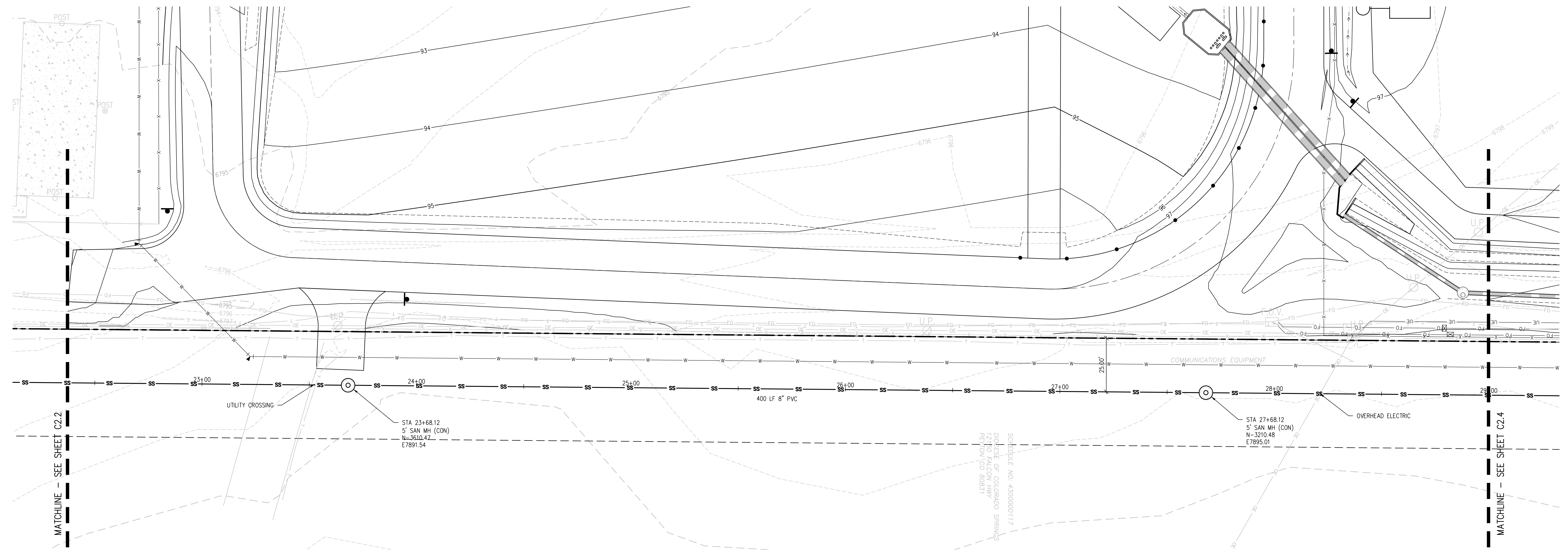
REVISIONS

#	DATE	DESCRIPTION

DESIGN APPROVAL: **CWK/HCM**  
DRAWN BY: **TWK/HMB**  
CHECKED BY: **CWK**

ISSUED FOR  
**CONSTRUCTION DOCUMENTS**

**C2.2**



- UTILITY NOTES:**
1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY LOCATION AND PROTECTION.
  2. ALL DRY UTILITY AND ELECTRIC DESIGNS ARE PROVIDED BY OTHERS AND SHOWN FOR REFERENCE ONLY. SEE MEP PLANS AND SPECIFICATIONS AND COORDINATE WITH ALL UTILITY OWNERS AS NEEDED.
  3. CONTRACTOR TO MARK ALL UTILITY STUBS WITH MARKERS.
  4. CUTOFF WALL TO BE INSTALLED EVERY 200 FEET (MAX) FOR ALL DEEP UTILITY TRENCHING. SEE DETAIL 1/CD2.1.
  5. SEE SHEET CD2.0 FOR GENERAL NOTES AND ADDITIONAL REQUIREMENTS OF WOODMEN HILLS METRO DISTRICT.

**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



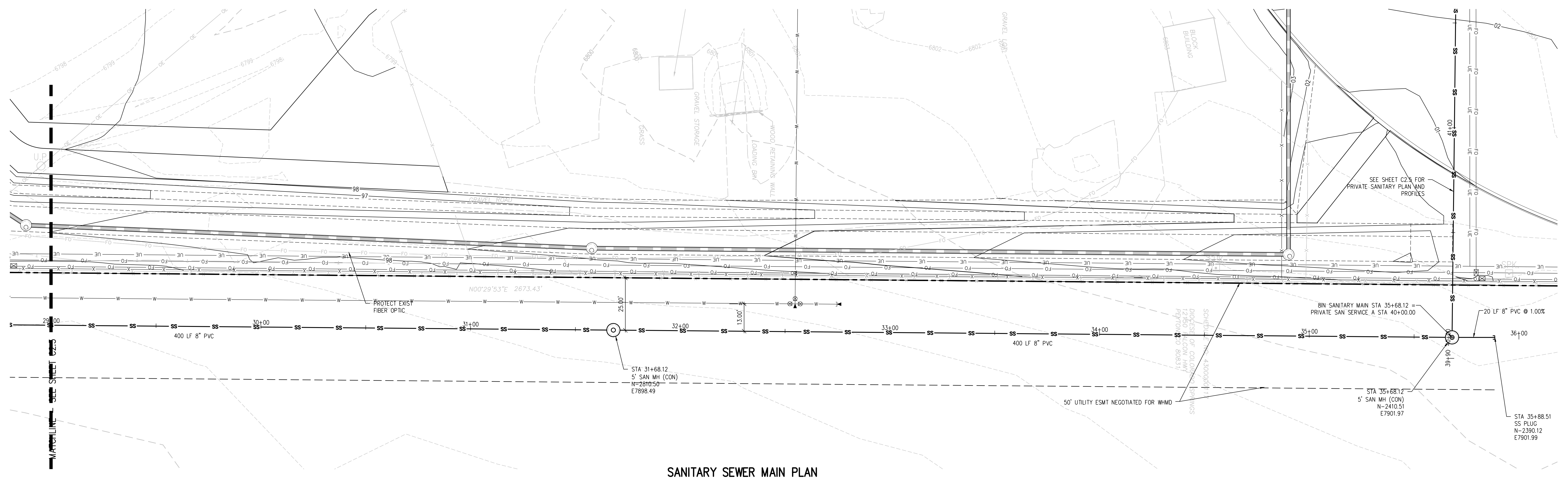
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WTA PROJECT NUMBER  
**2021-041-00**  
DATE  
**4/12/2023**  
REVISIONS

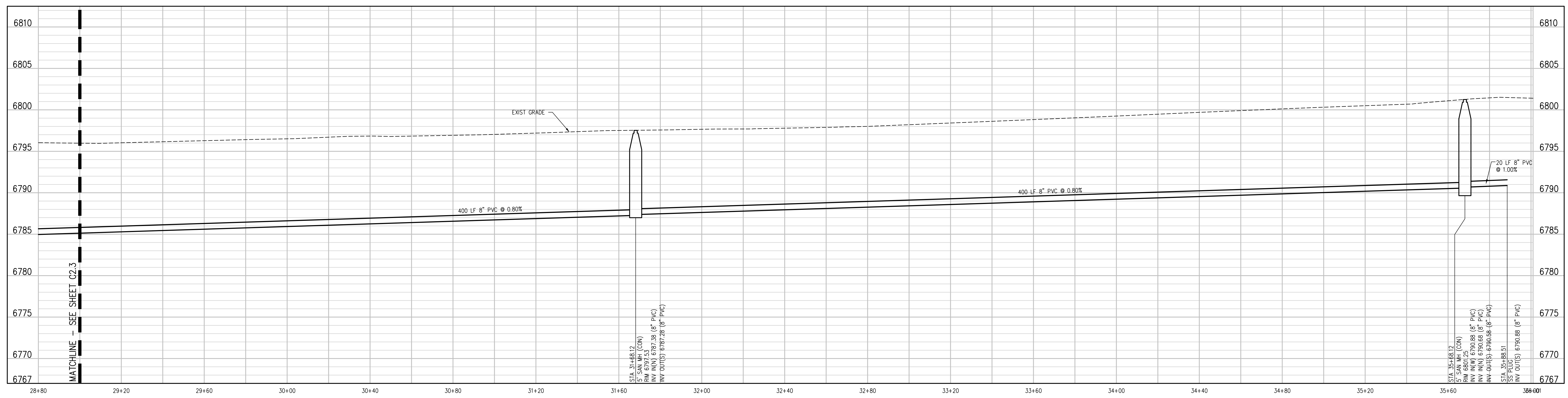
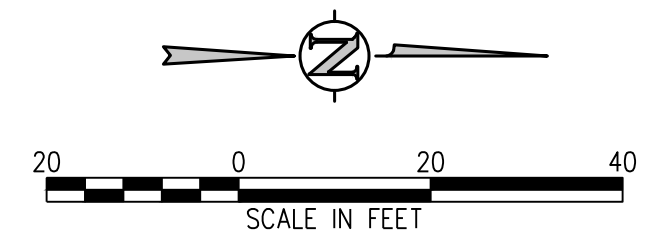
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DRAWN BY: **TWK/HCM**  
CHECKED BY: **CWK**

CONSTRUCTION DOCUMENTS  
**C2.3**

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**SANITARY SEWER MAIN PLAN**  
SCALE: 1"=20'



**BIN SANITARY MAIN PROFILE**  
SCALE: 1"=20' HORIZ  
1"=5' VERT

- UTILITY NOTES:**
1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY LOCATION AND PROTECTION.
  2. ALL DRY UTILITY AND ELECTRIC DESIGNS ARE PROVIDED BY OTHERS AND SHOWN FOR REFERENCE ONLY. SEE MEP PLANS AND SPECIFICATIONS AND COORDINATE WITH ALL UTILITY OWNERS AS NEEDED.
  3. CONTRACTOR TO MARK ALL UTILITY STUBS WITH MARKERS.
  4. CUTOFF WALL TO BE INSTALLED EVERY 200 FEET (MAX) FOR ALL DEEP UTILITY TRENCHING. SEE DETAIL 1/CD2.1.
  5. SEE SHEET CD2.0 FOR GENERAL NOTES AND ADDITIONAL REQUIREMENTS OF WOODMEN HILLS METRO DISTRICT.

**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**SANITARY MAIN PLAN AND PROFILE**

DATE PROJECT NUMBER  
4/12/2023 2021-041-00

REVISIONS

#	DATE	DESCRIPTION

DESIGNED BY: CWK/HCM  
CHECKED BY: TWW/AMB  
DATE: 4/12/2023

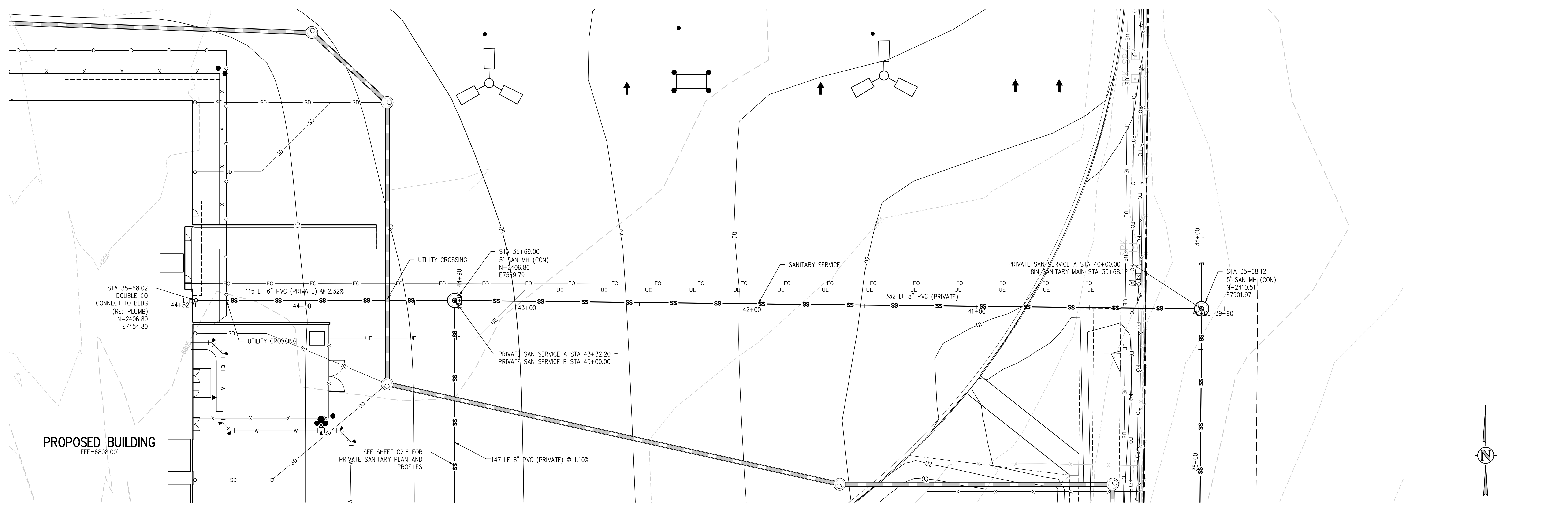
CONSTRUCTION DOCUMENTS



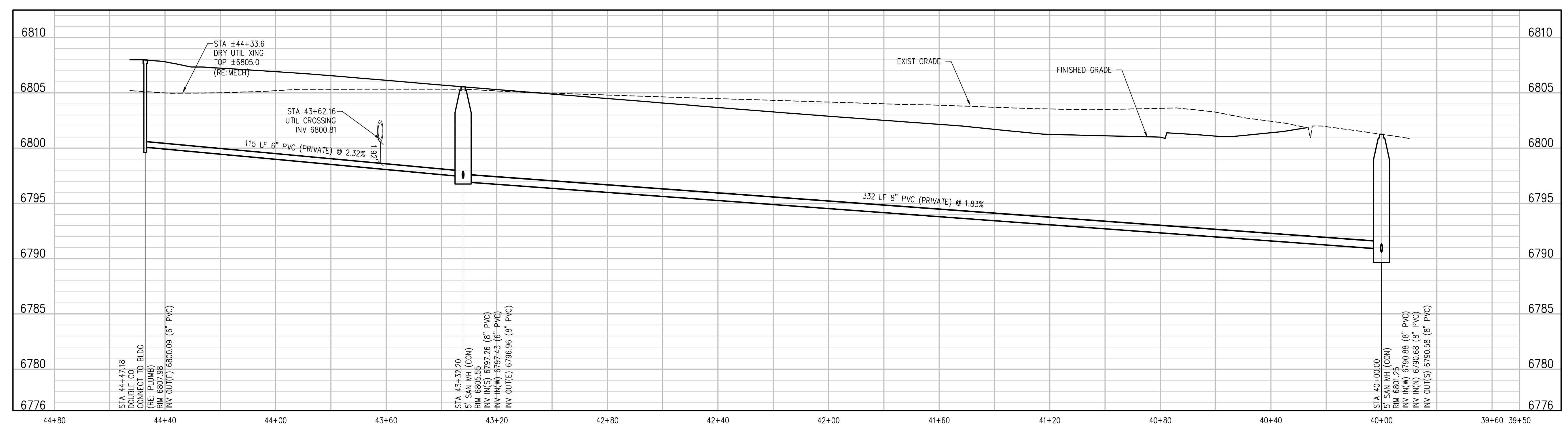
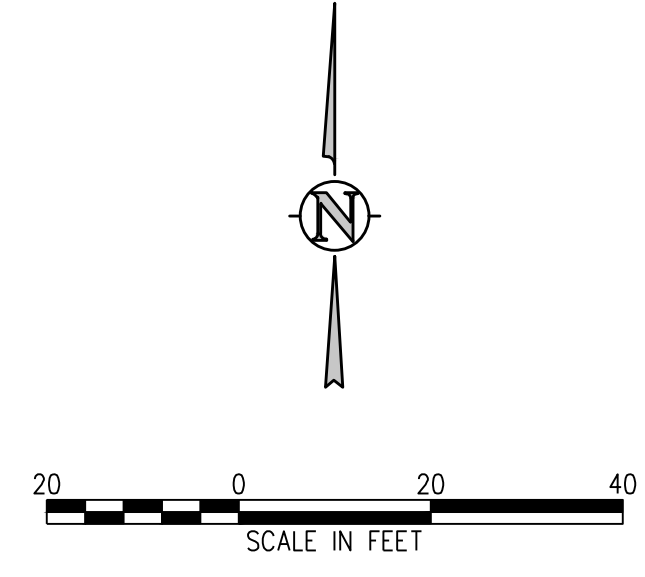
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**SANITARY MAIN  
PLAN AND  
PROFILE**

WTA PROJECT NUMBER  
**2021-041-00**  
DATE  
**4/12/2023**  
REVISIONS

DESIGNED BY  
**CWK/HCM**  
DRAWN BY  
**TWW/AMB**  
CHECKED BY  
**CWK**

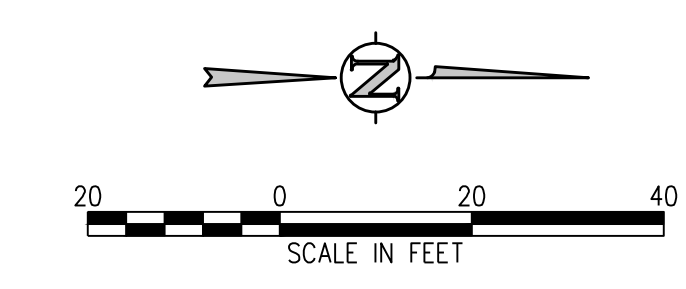
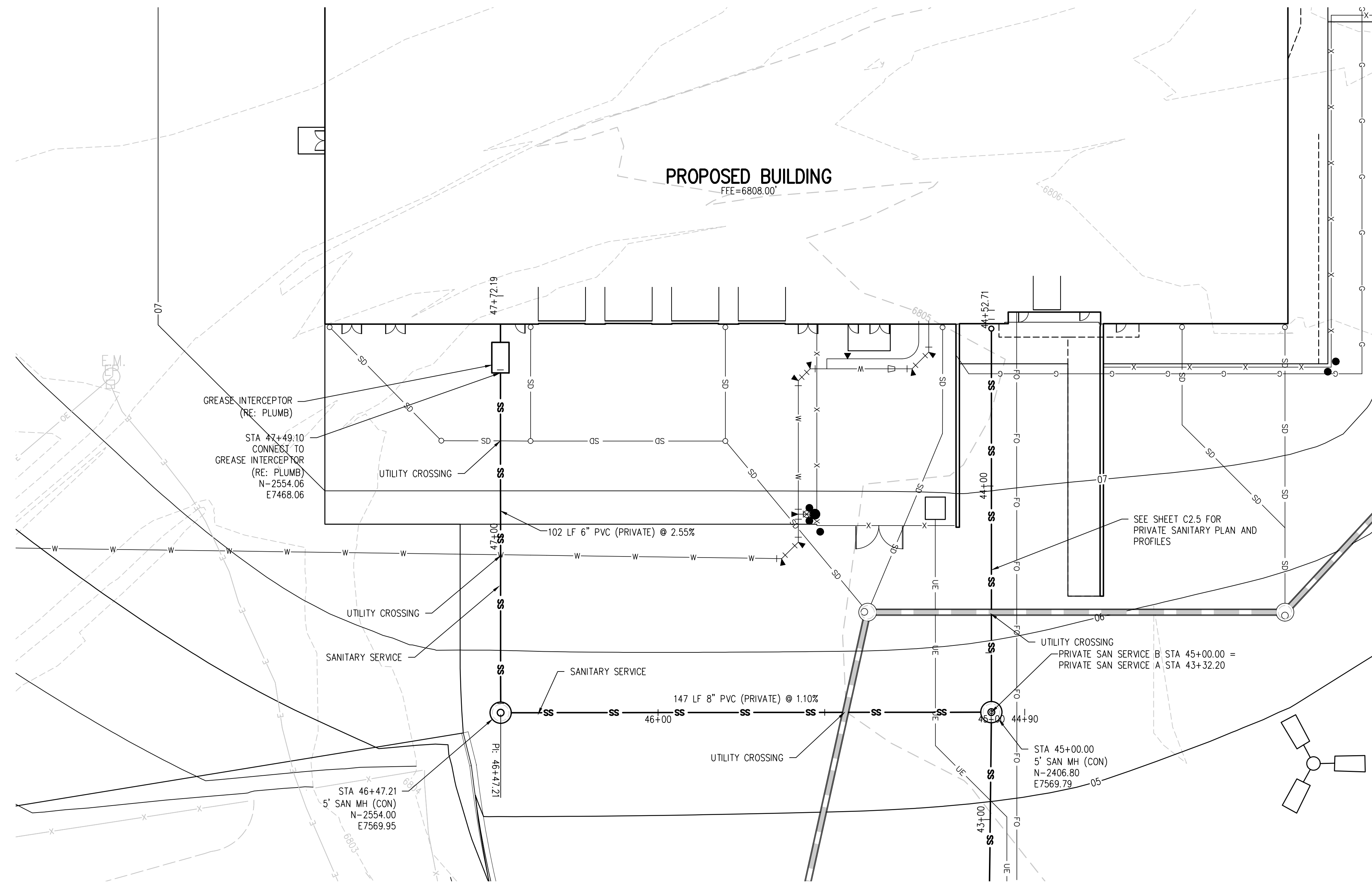


**PRIVATE SAN SERVICE A PLAN**  
SCALE: 1"=20'

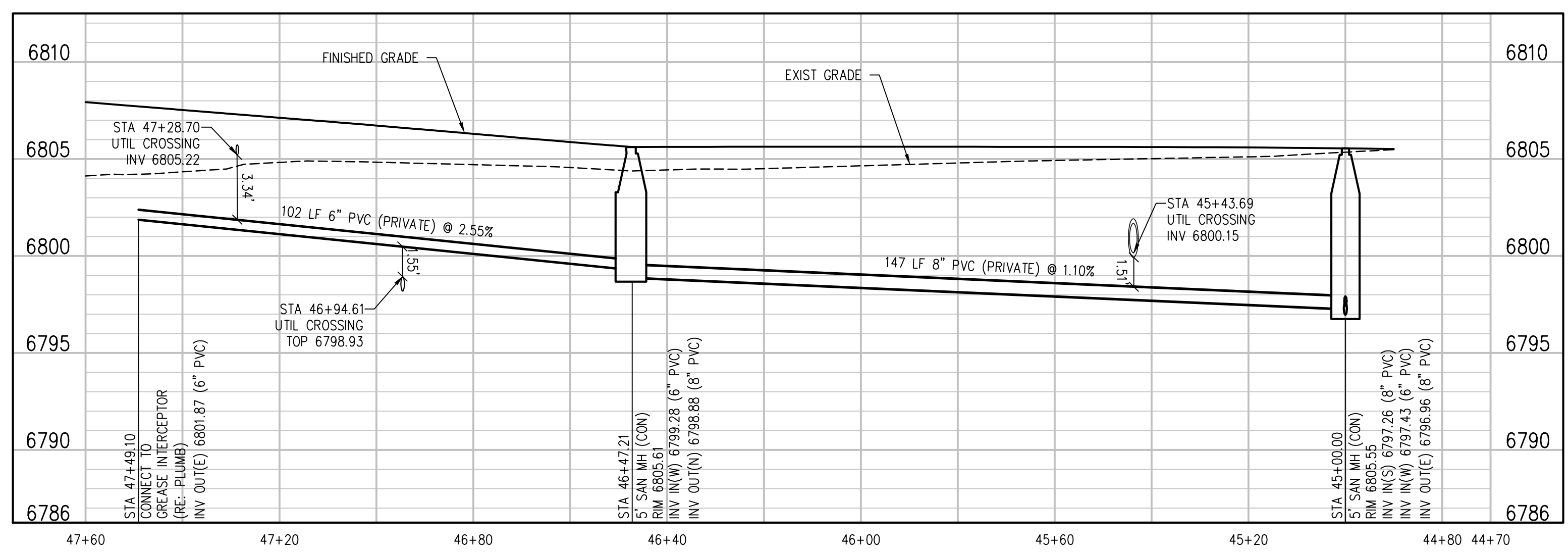


**PRIVATE SAN SERVICE A PROFILE**  
SCALE: 1"=20' HORIZ  
1"=5' VERT

- UTILITY NOTES:**
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  3. CONTRACTOR TO MARK ALL UTILITY STUBS WITH MARKERS.
  4. CUTOFF WALL TO BE INSTALLED EVERY 200 FEET (MAX) FOR ALL DEEP UTILITY TRENCHING. SEE DETAIL 1/CD.1.
  5. SEE SHEET CD.0 FOR GENERAL NOTES AND ADDITIONAL REQUIREMENTS OF WOODMEN HILLS METRO DISTRICT.



**PRIVATE SAN SERVICE B PLAN**  
SCALE: 1"=20'



**PRIVATE SAN SERVICE B PROFILE**  
SCALE: 1"=20' HORIZ  
1"=5" VERT

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  - SEE SHEET C02.0 FOR GENERAL NOTES AND ADDITIONAL REQUIREMENTS OF WOODMEN HILLS METRO DISTRICT.

**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



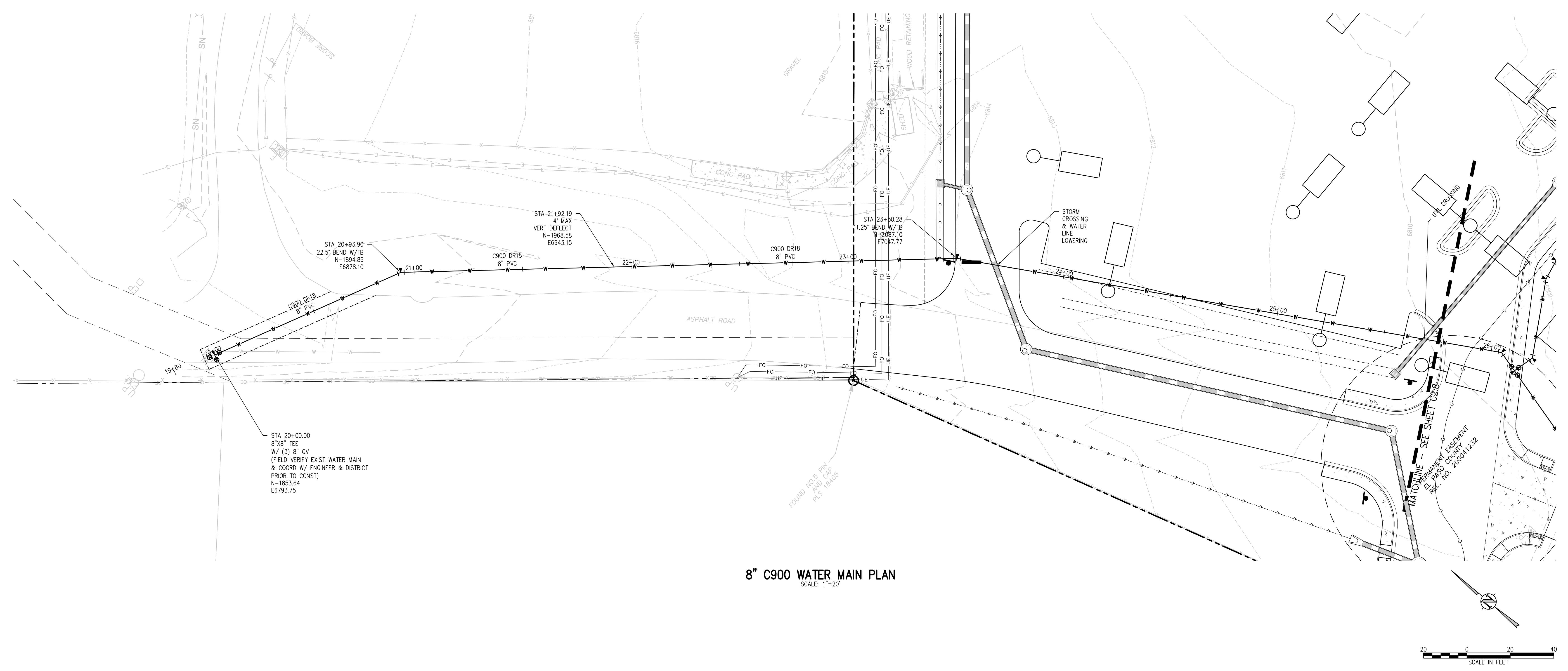
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RTA PROJECT NUMBER  
**2021-041.00**  
DATE  
**4/12/2023**  
REVISIONS

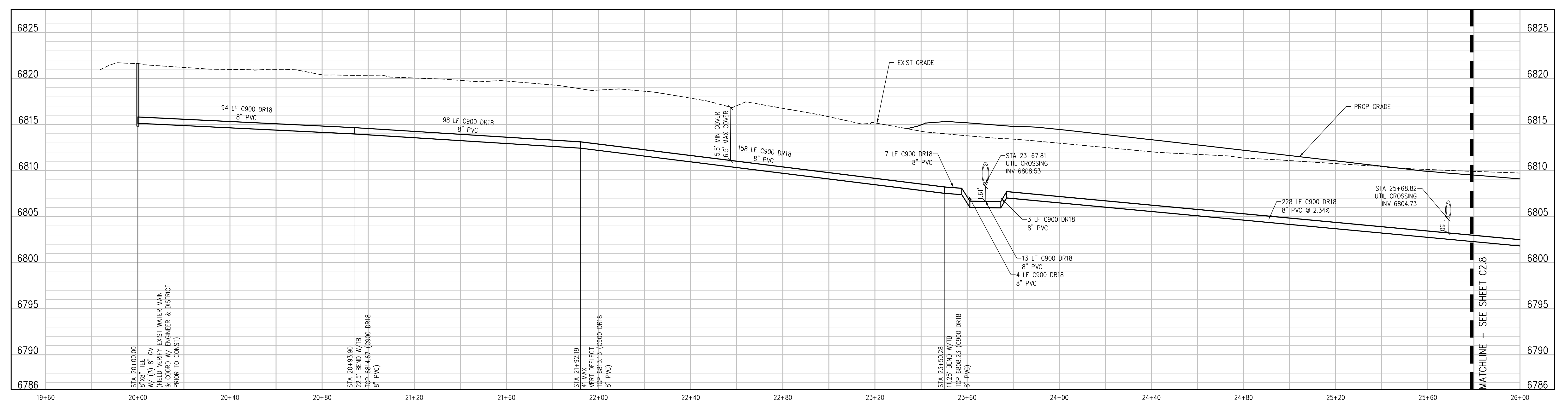
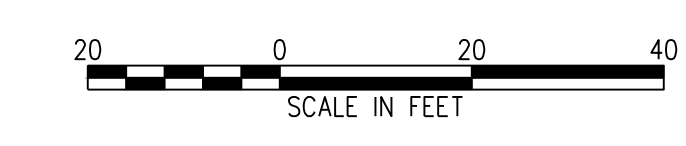
#	DATE	DESCRIPTION

DESIGNED BY  
**CWK/HCM**  
DRAWN BY  
**TWK/AMB**  
CHECKED BY  
**CWK**

ISSUED FOR  
**CONSTRUCTION DOCUMENTS**



**8" C900 WATER MAIN PLAN**  
SCALE: 1"=20'



**BIN WATER MAIN W PROFILE**  
SCALE: 1"=20' HORIZ  
1"=5' VERT

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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**WATER MAIN PLAN AND PROFILE**

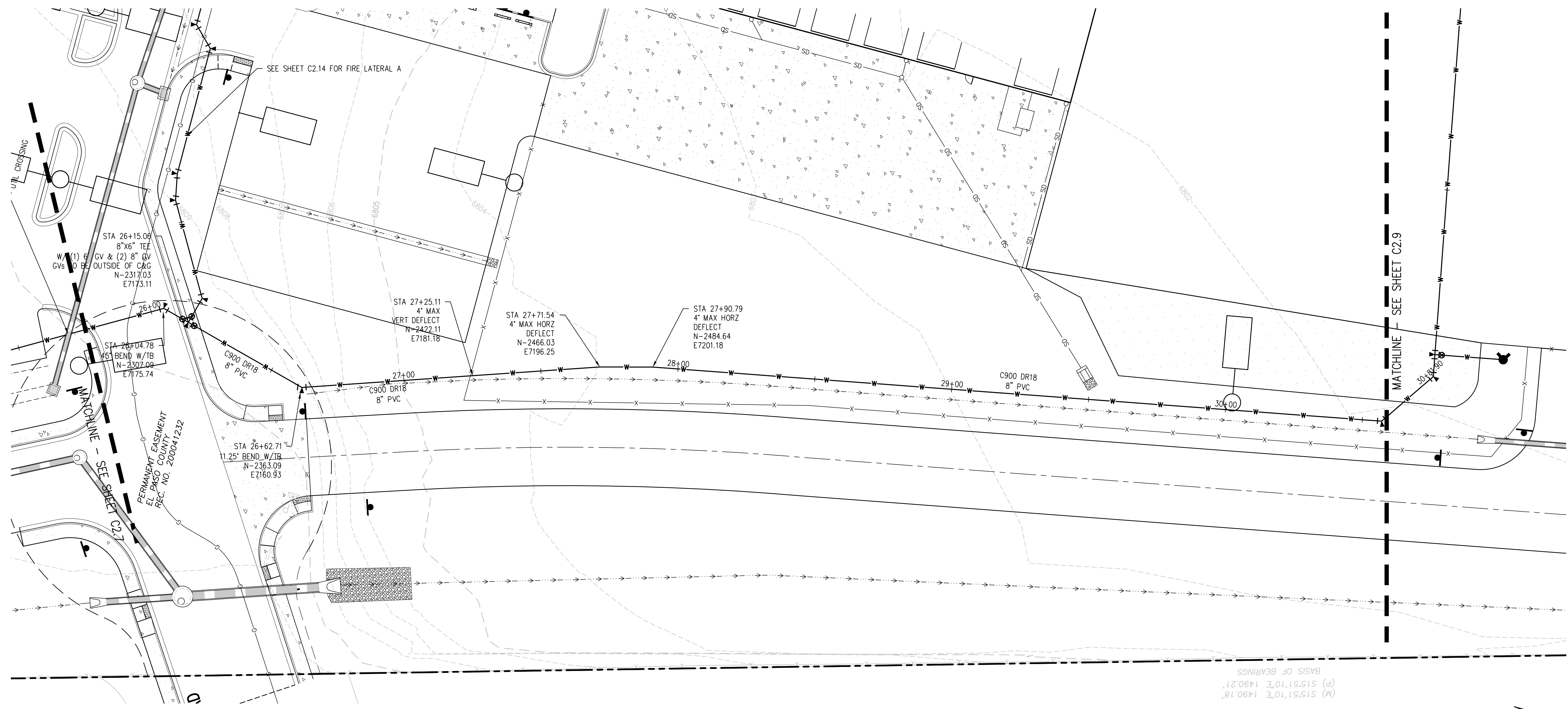
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**2021-041-00**  
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**4/12/2023**

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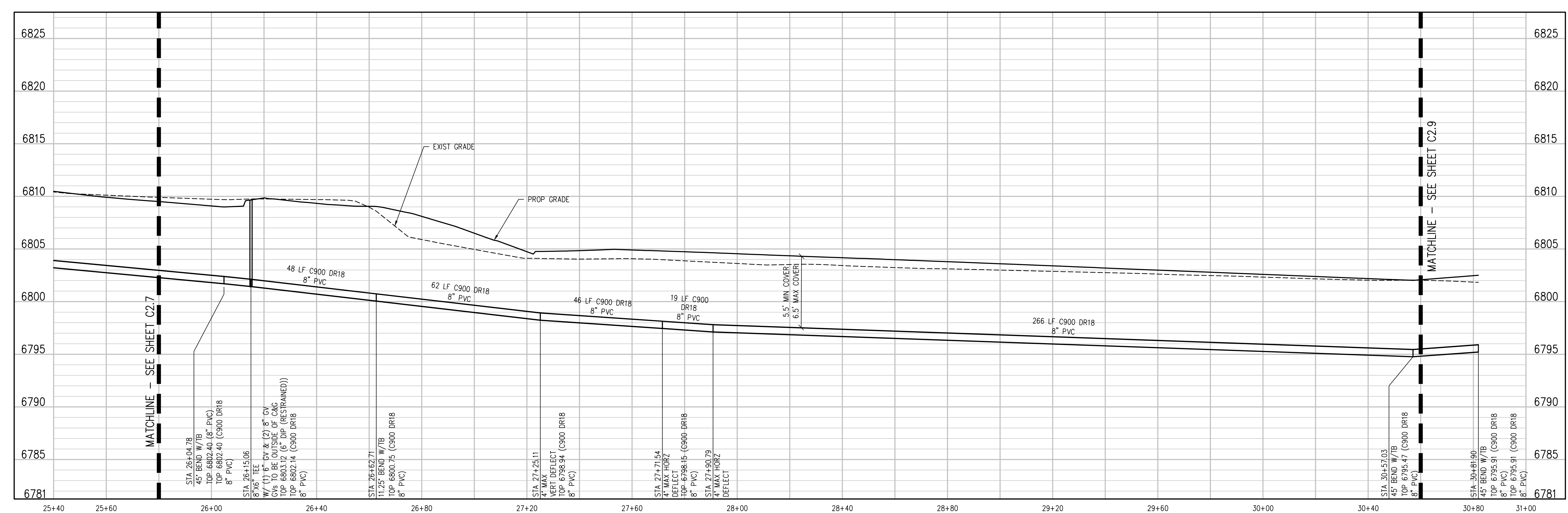
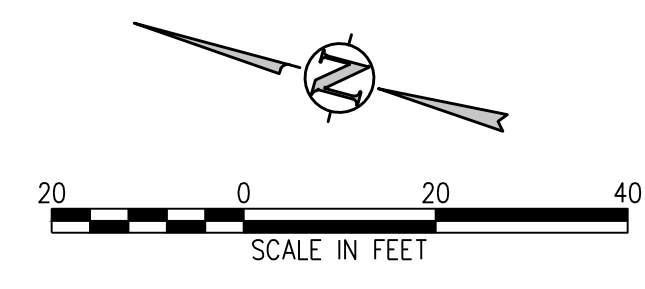
ISSUED FOR  
**CONSTRUCTION DOCUMENTS**

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**8" C900 WATER MAIN PLAN**  
SCALE: 1"=20'



**8\"/>**

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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



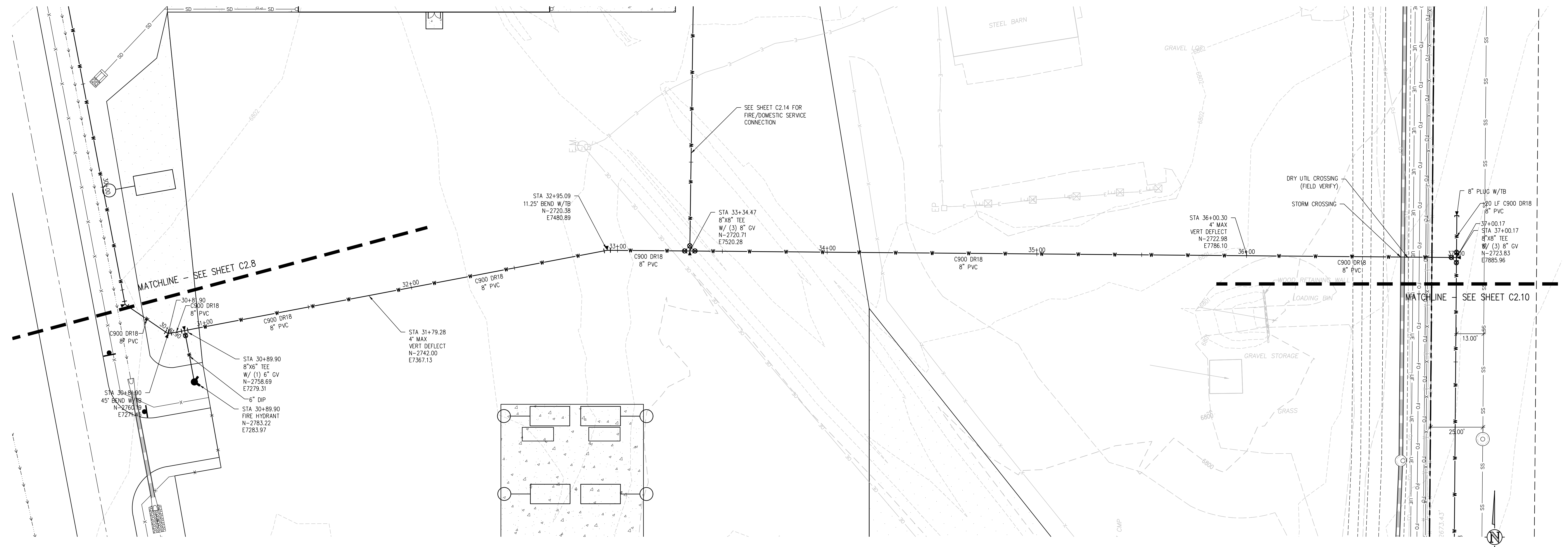
WATER MAIN  
PLAN AND  
PROFILE

PROJECT NUMBER  
**2021-041-00**

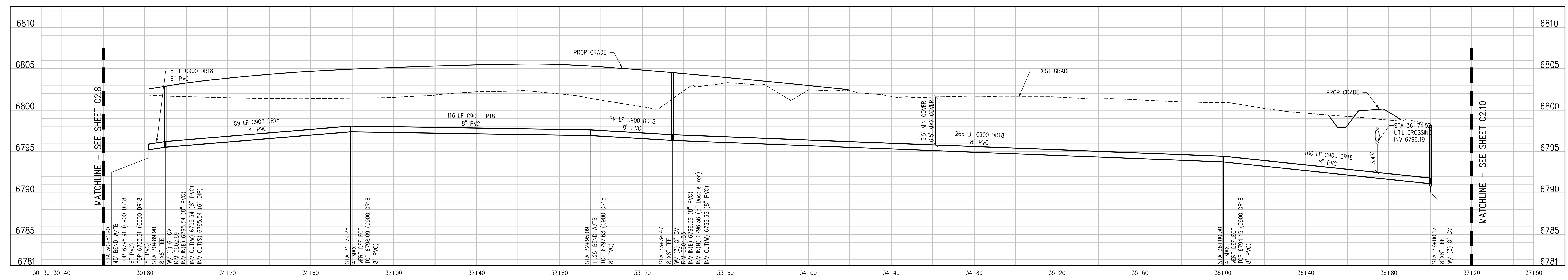
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**4/12/2023**

#	DATE	DESCRIPTION
1		ISSUED FOR CONSTRUCTION DOCUMENTS

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**8" C900 WATER MAIN PLAN**  
SCALE: 1"=20'



**BIN WATER MAIN W-E PROFILE**  
SCALE: 1"=20' HORIZ  
1"=5' VERT

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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
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PEYTON, CO 80831

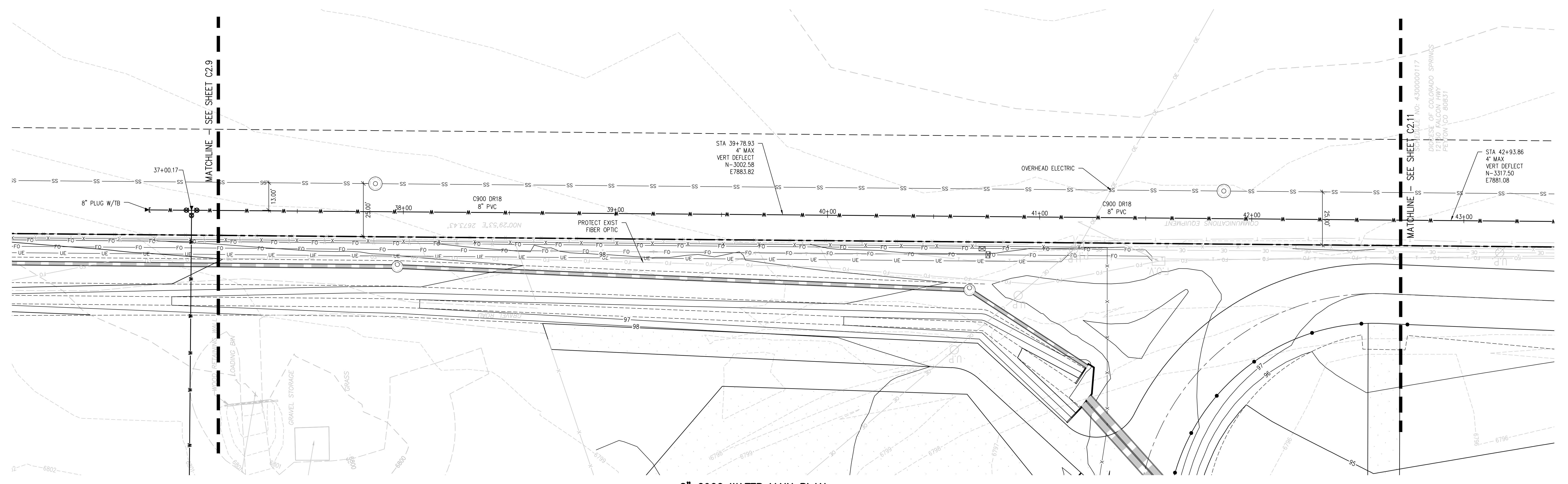


**WATER MAIN PLAN AND PROFILE**

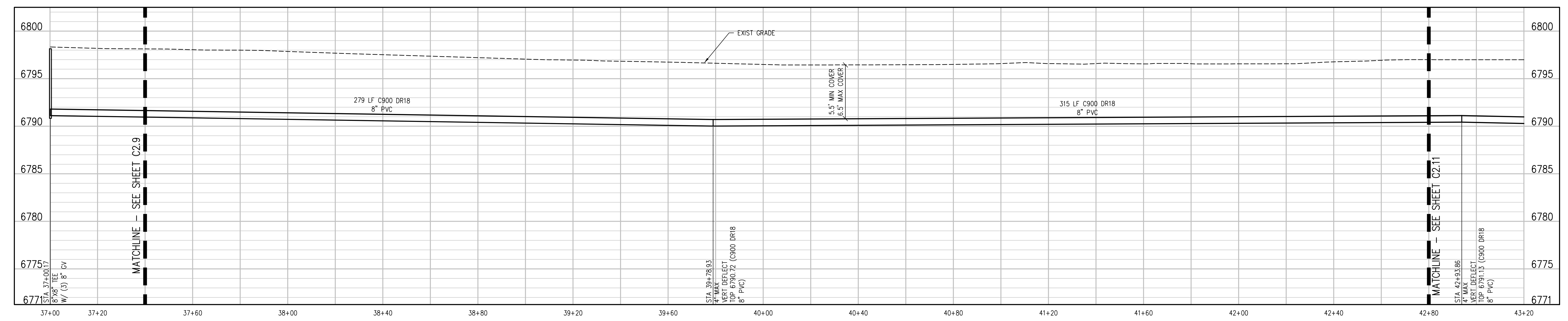
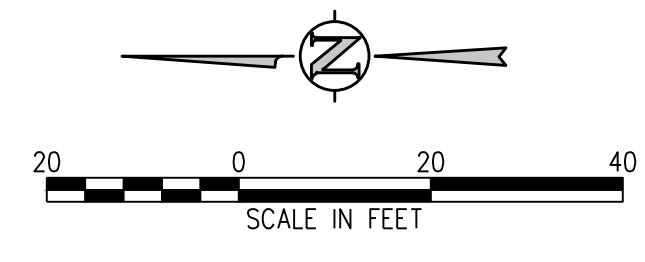
WTA PROJECT NUMBER  
**2021-041-00**  
DATE  
**4/12/2023**  
REVISIONS

DESIGNED BY: **CWK/HCM**  
DRAWN BY: **TW/AMB**  
CHECKED BY: **CWK**

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**8" C900 WATER MAIN PLAN**  
SCALE: 1"=20'



**BIN WATER MAIN E PROFILE**  
SCALE: 1"=20' HORIZ  
1"=5' VERT

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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
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PEYTON, CO 80831



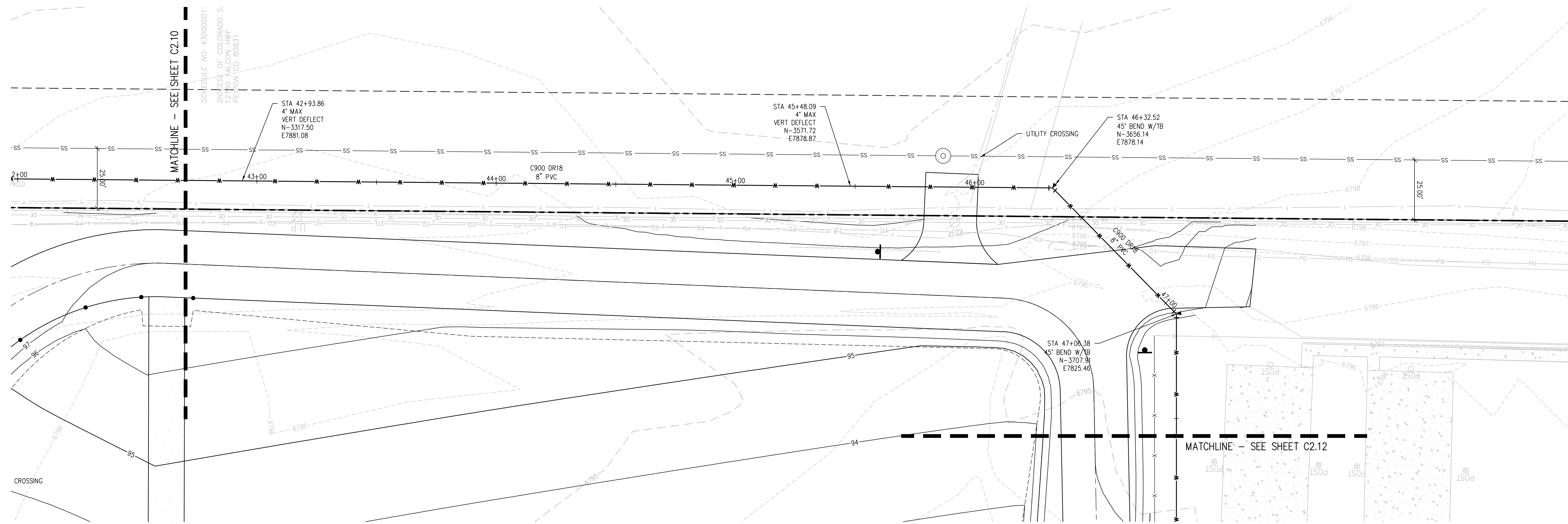
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**WATER MAIN PLAN AND PROFILE**

WTA PROJECT NUMBER  
**2021-041.00**  
DATE  
**4/12/2023**

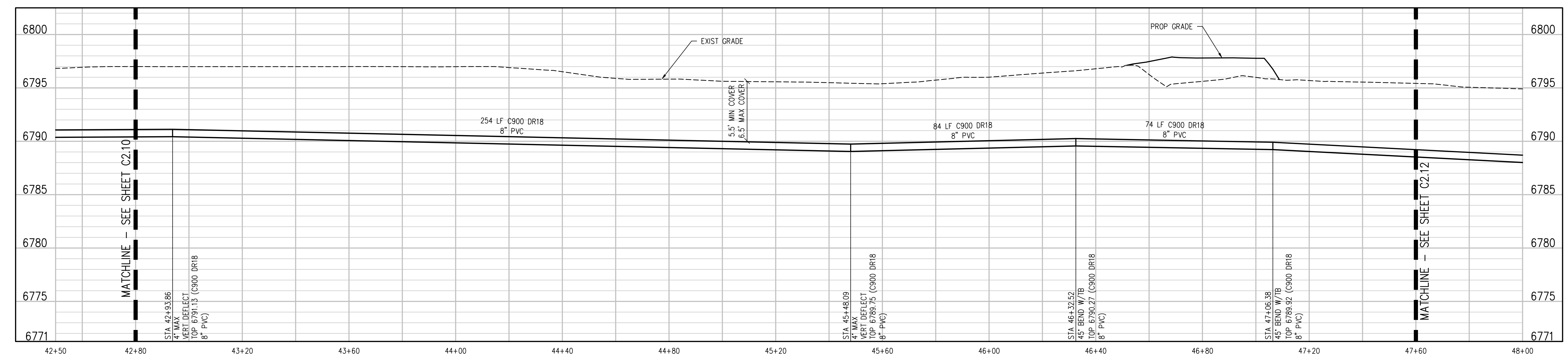
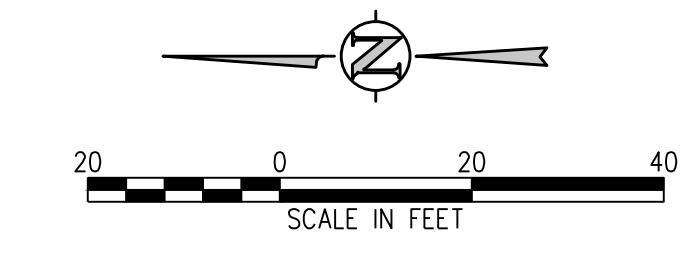
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DESIGNED BY: **CWK/HCM**  
DRAWN BY: **TWK/AMB**  
CHECKED BY: **CWK**

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**8" C900 WATER MAIN PLAN**  
SCALE: 1"=20'



**BIN WATER MAIN E PROFILE**  
SCALE: 1"=20' HORIZ  
1"=5' VERT

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**D49 TRANSPORTATION CENTER**  
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11971 SWINGLINE ROAD  
PEYTON, CO 80831



WATER MAIN  
PLAN AND  
PROFILE

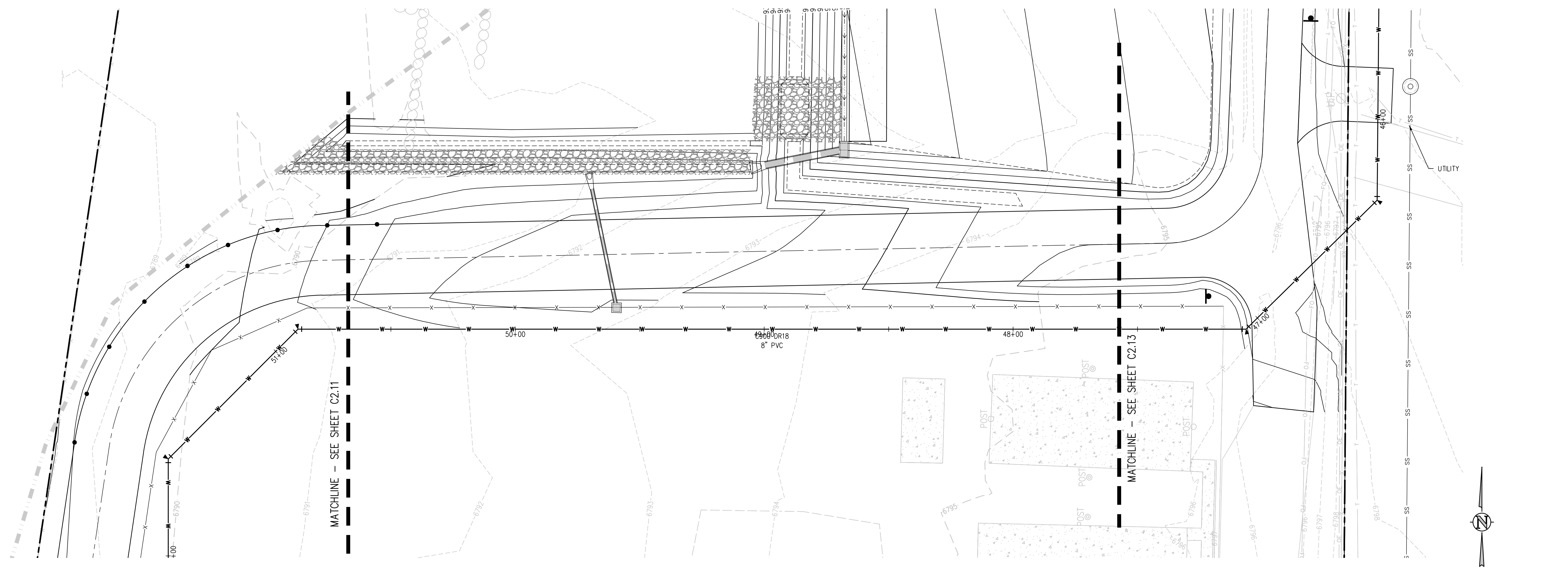
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**2021-041.00**  
DATE  
**4/12/2023**  
REVISIONS

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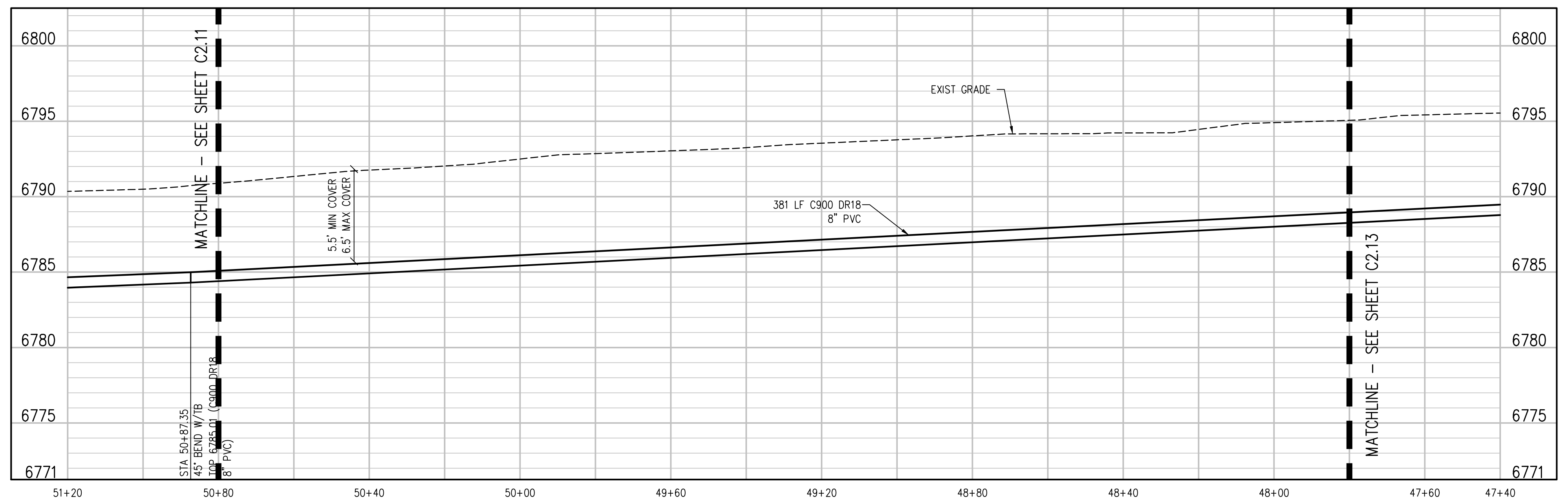
DESIGNED BY: **CWK/HCM**  
CHECKED BY: **TW/AMB**  
DATE: **CWK**

ISSUED FOR  
**CONSTRUCTION DOCUMENTS**

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**8" C900 WATER MAIN PLAN**  
SCALE: 1"=20'



**8" C900 WATER MAIN E PROFILE**  
SCALE: 1"=20' HORIZ  
1"=5' VERT

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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
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PEYTON, CO 80831



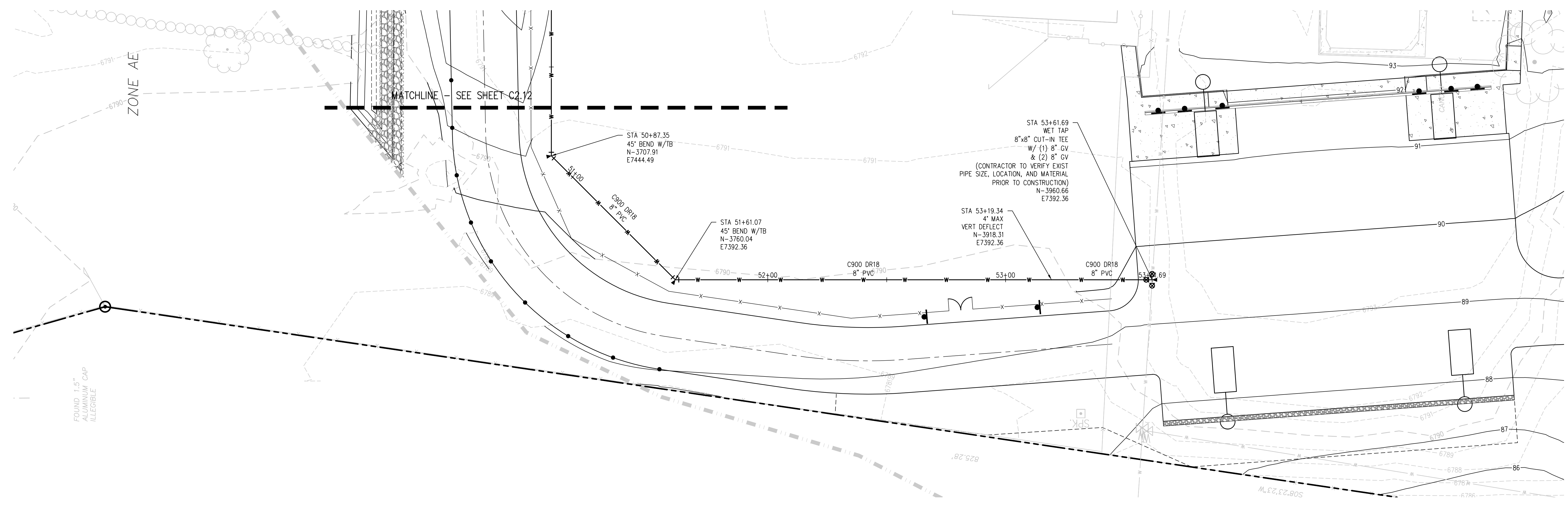
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**WATER MAIN  
PLAN AND  
PROFILE**

WTA PROJECT NUMBER  
**2021-041.00**

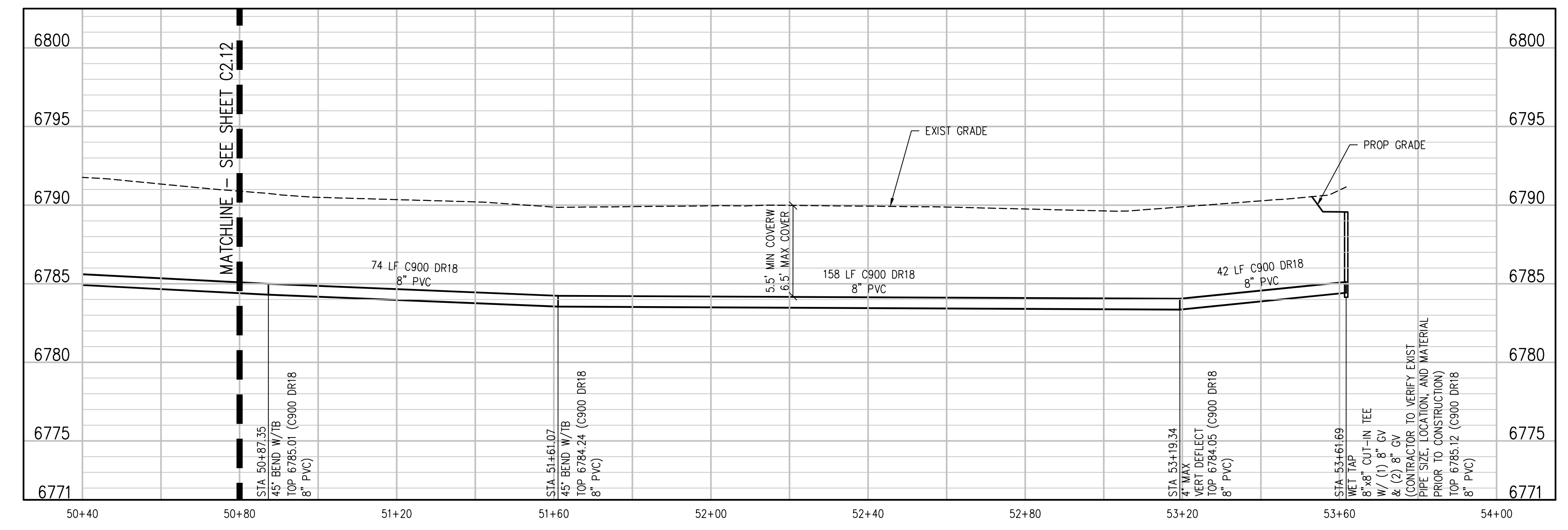
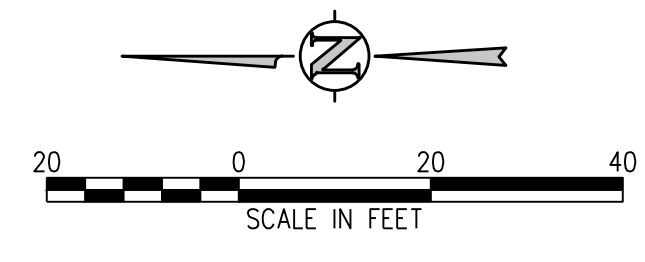
DATE  
**4/12/2023**

#	DATE	DESCRIPTION
1		ISSUED FOR CONSTRUCTION DOCUMENTS

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**8" C900 WATER MAIN PLAN**  
SCALE: 1"=20'



**8" WATER MAIN E PROFILE**  
SCALE: 1"=20' HORIZ  
1"=5' VERT

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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**WATER MAIN PLAN AND PROFILE**

WTA PROJECT NUMBER  
**2021-041.00**  
DATE  
**4/12/2023**  
REVISIONS

DESIGNED BY  
**CWK/HCM**  
DRAWN BY  
**TW/AAB**  
CHECKED BY  
**CWK**

ISSUED FOR  
**CONSTRUCTION DOCUMENTS**



**FIRE & DOMESTIC SERVICE LAT & P**

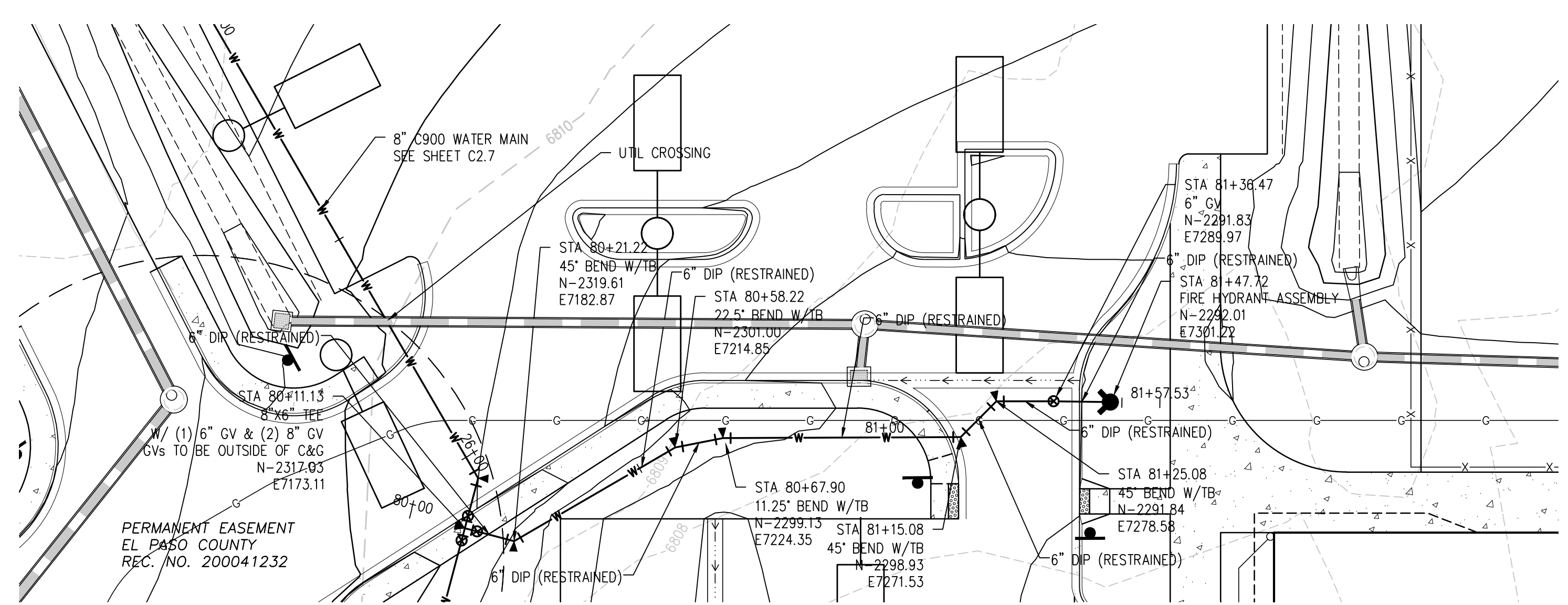
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DATE: **4/12/2023**

REVISIONS

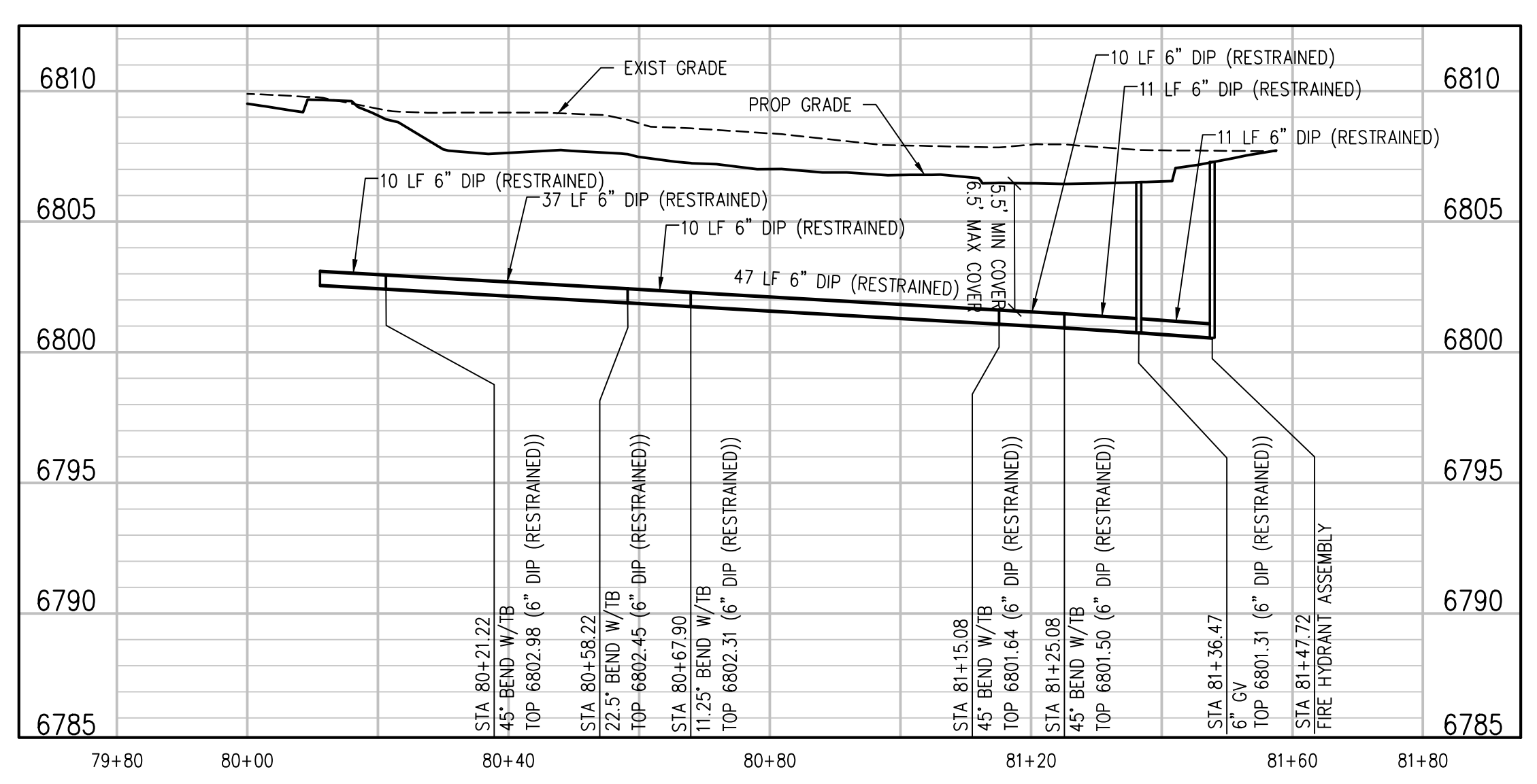
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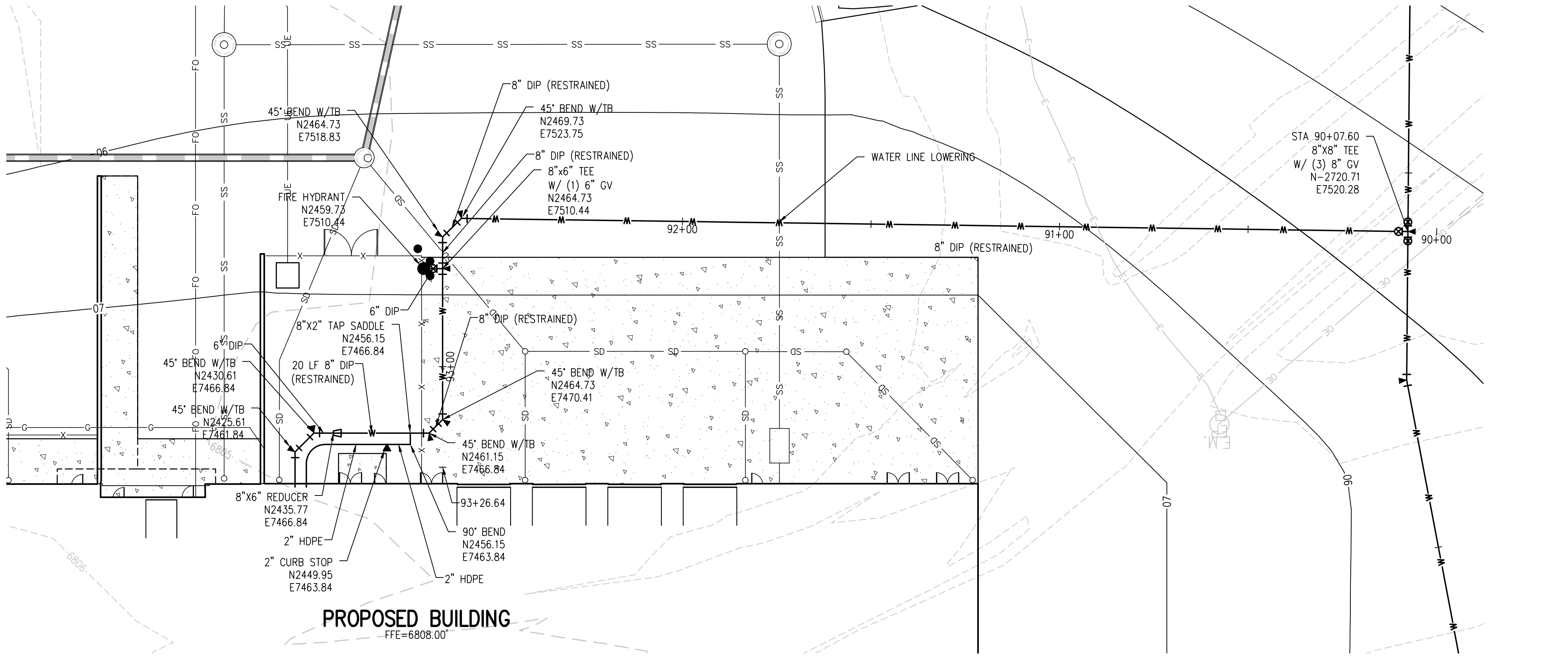
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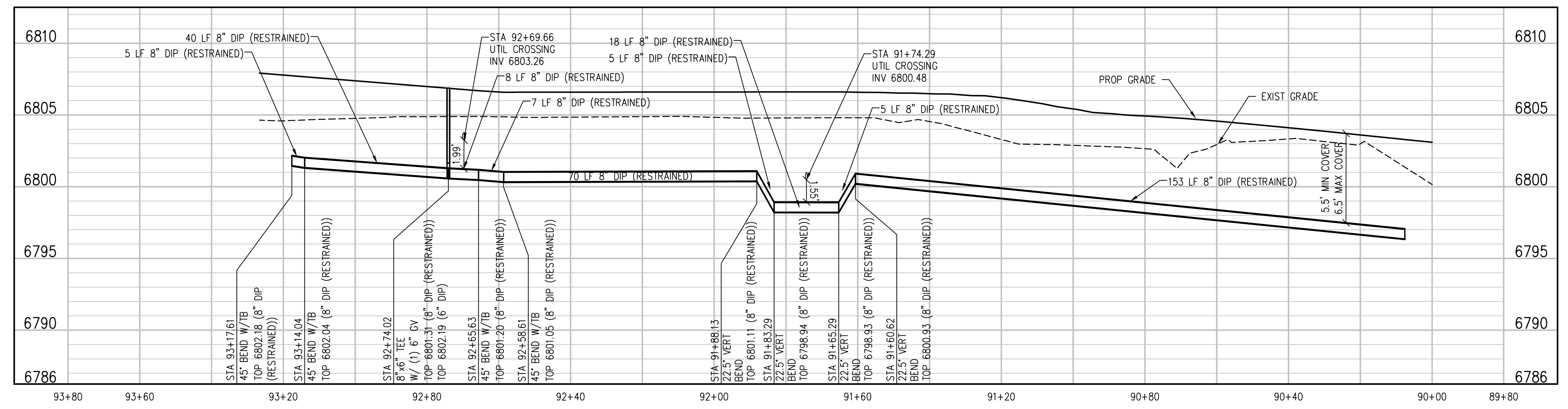
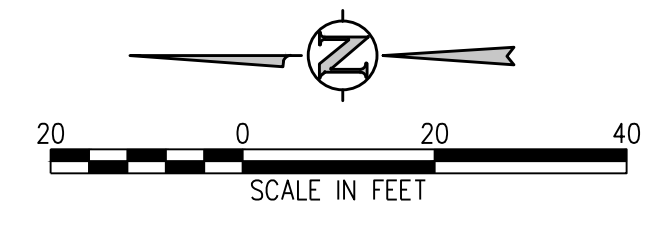
**6" DIP FIRE LATERAL PLAN**  
SCALE: 1"=20'



**FIRE LINE A PROFILE**  
SCALE: 1"=20' HORIZ  
1"=5' VERT



**8" DIP FIRE-DOMESTIC LATERAL PLAN**  
SCALE: 1"=20'



**FIRE-DOMESTIC SERVICE LINE B PROFILE**  
SCALE: 1"=20' HORIZ  
1"=5' VERT

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# WOODMEN HILLS METROPOLITAN DISTRICT GENERAL NOTES

**GENERAL**

1. ALL UTILITY CONSTRUCTION TO BE CONDUCTED IN CONFORMANCE WITH THE CURRENT WOODMEN HILLS METROPOLITAN DISTRICT (WHMD, THE DISTRICT) SPECIFICATIONS.
2. ALL PLANS ON THE JOB SITE SHALL BE SIGNED BY THE DISTRICT AND THE DISTRICT'S ENGINEER. ANY REVISION TO THE PLANS SHALL BE SO NOTED WITH THE OLD DRAWING MARKED 'NOT VALID.'
3. ALL STATIONING IS CENTERLINE UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE NOTED.
4. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE DISTRICT. THE DISTRICT RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
5. ALL OVER-LOT GRADING MUST BE COMPLETED TO WITHIN ONE (1) FOOT OF FINAL GRADE PRIOR TO INSTALLATION OF WATER AND WASTEWATER INFRASTRUCTURE.
6. ALL WATER AND SEWER SERVICE LOCATIONS SHALL BE CLEARLY MARKED ON EITHER THE CURB HEAD OR THE FACE OF THE CURB, WITH AN "S" FOR SEWER AND A "W" FOR WATER.
7. DUCTILE IRON PIPES, INCLUDING FITTINGS, VALVES, AND FIRE HYDRANTS, SHALL BE WRAPPED WITH POLYETHYLENE TUBING, DOUBLE BONDED AT EACH JOINT, AND ELECTRICALLY ISOLATED. BONDING AND ANODE CONNECTIONS SHALL BE THOROUGHLY COATED WITH BITUMINOUS COATINGS.
8. ALL DUCTILE IRON PIPE LESS THAN TWELVE INCHES (12") AND FITTINGS SHALL HAVE CATHODIC PROTECTION USING TWO (2) NO. 6 WIRES WITH 17 LB. MAGNESIUM ANODES EVERY 400 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING. ALL DUCTILE IRON PIPE TWELVE INCHES (12") AND GREATER AND FITTINGS SHALL HAVE CATHODIC PROTECTION USING TWO (2) NO. 6 WIRES WITH 17 LB. MAGNESIUM ANODES EVERY 300 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING.
9. ALL PIPE MATERIAL, BACKFILL, AND INSTALLATION SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS, COLORADO DEPARTMENT OF TRANSPORTATION, EL PASO COUNTY DEPARTMENT OF TRANSPORTATION, COLORADO SPRINGS UTILITIES, AND THE GEOTECHNICAL ENGINEER.
10. COMPACTION TESTS SHALL BE 95% STANDARD PROCTOR AS DETERMINED BY ASTM D698, UNLESS OTHERWISE APPROVED BY THE DISTRICT OR HIGHER STANDARD AS IMPOSED BY ANOTHER AGENCIES HAVING RIGHT-OF-WAY JURISDICTION. THIS SHALL INCLUDE ALL VALVES, FIRE HYDRANT RUNS, WATER & SEWER SERVICE LINES, AND MANHOLES. ALL REPORTS SHALL BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL.
11. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY. THE LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE DISTRICT SHALL BE NOTIFIED OF ANY DEVIATIONS TO THE LINE AND/OR GRADE AS DEPICTED ON THE PLANS. CONTRACTOR SHALL SUBMIT TO THE DISTRICT AND THE ENGINEER OF RECORD A REPORT OF THE FIELD-VERIFIED INFORMATION PRIOR TO THE START OF CONSTRUCTION.
12. ALL BENDS SHALL BE FIELD STAKED PRIOR TO THE START OF CONSTRUCTION.
13. BENDS, DEFLECTION, AND CUT PIPE LENGTHS SHALL BE USED TO HOLD HORIZONTAL ALIGNMENT OF SEWER AND WATER LINES TO NO MORE THAN 0.5' FROM THE DESIGNED ALIGNMENT. CONSTRUCTION STAKES TO BE AT TWENTY-FIVE FEET (25') INTERVALS ALONG CURVES TO ENSURE LOCATION OF PIPELINE CONSTRUCTION.
14. AT ALL LOCATIONS WHERE CAP AND STUB IS NOTED ON DRAWINGS, PROVIDE A PLUG AT THE END OF THE PIPE JOINT NEAREST THE SPECIFIED STATION. PROVIDE A REVERSE ANCHOR AT ALL WATER LINE PLUGS.
15. ALL UNUSED, SALVAGED WATER UTILITY MATERIAL SHALL BE RETURNED TO THE METROPOLITAN DISTRICT AS REQUESTED.
16. AT THE CONTRACTOR'S EXPENSE, ALL UTILITY MAINS SHALL BE SUPPORTED AND PROTECTED SUCH THAT THEY SHALL FUNCTION CONTINUOUSLY DURING CONSTRUCTION OPERATIONS. SHOULD A UTILITY MAIN FAIL AS A RESULT OF THE CONTRACTOR'S OPERATION, IT SHALL BE REPLACED IMMEDIATELY BY THE CONTRACTOR OR BY THE DISTRICT AT FULL COST OF LABOR AND MATERIALS TO THE CONTRACTOR/DEVELOPER.
17. PUMPING OR BYPASS OPERATIONS SHALL BE REVIEWED AND APPROVED BY BOTH THE DISTRICT AND THE DISTRICT ENGINEER PRIOR TO EXECUTION.
18. THE CONTRACTOR SHALL REPLACE OR REPAIR DAMAGE TO ALL SURFACE IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO FENCES, LANDSCAPING, CURB AND GUTTER, AND/OR ASPHALT THAT MAY BE CAUSED DURING CONSTRUCTION.
19. ALL CONTRACTORS WORKING ON OR NEAR A WATER OR SEWER FACILITY (TO INCLUDE SERVICE LINES) SHALL HAVE LIABILITY INSURANCE NAMING THE DISTRICT AS AN ADDITIONAL INSURED AND SHALL PROVIDE A CURRENT COPY OF WORKERS COMPENSATION INSURANCE ON FILE WITH THE DISTRICT. NO WORK CAN PROCEED WITHOUT CURRENT CERTIFICATES ON FILE AT THE DISTRICTS' OFFICE.
20. THE CONTRACTOR SHALL NOTIFY THE DISTRICT A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION. A WEEKLY CONSTRUCTION MEETING SHALL BE REQUIRED WITH THE CONTRACTOR, DISTRICT ENGINEER AND ALL OTHER PARTIES AS DEEMED NECESSARY BY THE DISTRICT.
21. COMMENCEMENT OF CONSTRUCTION OF WATER/SEWER SYSTEMS WITHIN METROPOLITAN DISTRICT:
  - a) PRIOR TO THE START OF CONSTRUCTION, A PRECONSTRUCTION MEETING IS REQUIRED A MINIMUM OF 48 HOURS IN ADVANCE OF COMMENCEMENT OF WORK. A REPRESENTATIVE OF THE OWNER OR DEVELOPER, A REPRESENTATIVE OF THE CONTRACTOR, AND DESIGN ENGINEER ARE REQUIRED TO ATTEND. CONTACT THE DISTRICT TO SCHEDULE THE PRECONSTRUCTION MEETING. NO PRECONSTRUCTION MEETING CAN BE SCHEDULED BEFORE FOUR (4) SIGNED/APPROVED PLAN SETS ARE RECEIVED BY THE DISTRICT.
  - b) THE CONTRACTOR IS REQUIRED TO NOTIFY THE DISTRICT A MINIMUM OF 48 HOURS AND A MAXIMUM OF 2 WEEKS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION ADJACENT TO THE KNOWN UTILITY LINES.
22. TESTING OF FACILITIES:
  - a) THE CONTRACTOR SHALL NOTIFY THE DISTRICT A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF ANY TESTING.
  - b) ALL SECTIONS OF WATER LINE ARE TO MEET THE FOLLOWING PRESSURE TESTING REQUIREMENTS
    - TEST 100% OF ALL LINES.
    - MUST PASS PRESSURE TEST TO 200 PSI FOR TWO HOURS (UNLESS OTHERWISE APPROVED ON THE PLANS).
  - c) ALL SANITARY SEWER FACILITIES ARE TO MEET THE FOLLOWING TESTING REQUIREMENTS:
    - ALL LINES SHALL BE JET CLEANED PRIOR TO VACUUM OR PRESSURE TESTING.
    - ALL MANHOLES SHALL BE VACUUM TESTED WITH DISTRICT STAFF PRESENT PRIOR TO CCTV INSPECTION.
    - SEWER MAINS TO BE PRESSURE TESTED PRIOR TO CCTV INSPECTION.
    - ALL LINES SHALL BE CCTV INSPECTED AND VIDEO SHALL TO BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL.
23. PRELIMINARY ACCEPTANCE SHALL BE DEFINED AS THE POINT IN TIME THAT THE DISTRICT ACCEPTS THE FACILITY FOR USE. ALL SURFACE IMPROVEMENTS AND RESTORATION SHALL BE COMPLETED WITHIN 30 DAYS OF COMMENCEMENT. SHOULD THE CONTRACTOR FAIL TO COMPLETE ALL SURFACE IMPROVEMENTS AND RESTORATION WITHIN 30 DAYS OF COMMENCEMENT OF SERVICE, THE DISTRICT, AT THEIR DISCRETION, MAY ELECT TO COMPLETE THE IMPROVEMENTS AT THE CONTRACTOR'S COST.
24. FINAL ACCEPTANCE BY THE DISTRICT OF ANY LINE OR SYSTEM SHALL NOT OCCUR UNTIL COMPLETION OF FINAL ASPHALT LAYERS AND/OR FINAL COMPLETION AND/OR RESTORATION OF ALL SURFACE IMPROVEMENTS. THE WARRANTY PERIOD FOR ALL FACILITIES PRIOR TO FINAL ACCEPTANCE SHALL BE 24 MONTHS COMMENCING AFTER PRELIMINARY ACCEPTANCE.
25. ACCEPTANCE
  - a) THE DISTRICT MAY GIVE PRELIMINARY ACCEPTANCE ONCE ALL OF THE TESTS ON ALL THE LINES HAVE BEEN COMPLETED AND A WALK-THROUGH HAS OCCURRED.
  - b) A SECOND ACCEPTANCE MAY OCCUR ONCE THE FIRST LIFT OF ASPHALT GOES DOWN AND A SECOND WALK-THROUGH OF THE SYSTEM OCCURS. IF ALL FACILITIES ARE CLEAN AND ACCESSIBLE, A FINAL ACCEPTANCE MAY OCCUR (THE DISTRICT MAY REQUIRE CLEANING AND RE-VIDEO OF THE SYSTEM, DEPENDING ON THE SEVERITY OF THE CONTAMINATION).
26. ALL WATER AND SEWER MAINS, INCLUDING SERVICE LINES, SHALL HAVE "AS-BUILT" DRAWINGS PREPARED AND APPROVED PRIOR TO PRELIMINARY ACCEPTANCE BY THE DISTRICT.
27. ALL COMMERCIAL/BUSINESS DEVELOPMENTS SHALL HAVE AN EIGHT INCH (MIN.) WATER MAIN LOOPED THROUGH THE PROPOSED PROPERTY WITH GATE VALVES LOCATED WHERE THE MAIN ENTERS THE PROPERTY LINE. AN EIGHT-INCH SEWER MAIN SHALL BE INSTALLED FOR SERVICE TO COMMERCIAL/BUSINESS DEVELOPMENTS, AND A MANHOLE SHALL BE LOCATED WHERE THE MAIN ENTERS THE PROPERTY. THE END OF THE MAINS SHALL BE MARKED WITH THE APPROPRIATE COLORED CARBONITE MARKER ALONG WITH TRACER WIRE.
28. AFTER REVIEW AND APPROVAL OF PLANS FOR THE EXTENSION OF LINES, FACILITIES, AND/OR SERVICES, CONSTRUCTION MUST HAVE COMMENCED WITHIN 18 MONTHS FOR RESIDENTIAL SUBDIVISIONS AND 12 MONTHS FOR ANY COMMERCIAL INSTALLATIONS.
29. INSPECTION FEES: CALL THE DISTRICT (719-495-2500) FOR FEE SCHEDULE.

**WATER SYSTEM INSTALLATION NOTES**

30. ALL WATER AND FORCE MAIN PIPE SHALL BE AWWA C900 PVC, OR APPROVED EQUAL, PRESSURE CLASS 200. ALL WATER AND FORCE MAIN FITTINGS SHALL HAVE MECHANICAL RESTRAINTS AND THRUST BLOCKS. ALL WATER AND FORCE MAIN PIPE SHALL HAVE A MINIMUM COVER DEPTH OF FIVE-AND-ONE-HALF (5.5) FEET.
31. ALL WATER VALVES ASSOCIATED WITH THE POTABLE WATER SYSTEM SHALL BE OPEN CLOCKWISE. ALL VALVES INSTALLED IN LANDSCAPED AREAS AND/OR NOT WITHIN PAVED STREETS SHALL BE MARKED WITH CARBONITE MARKERS. ALL VALVES ASSOCIATED WITH THE RAW WATER SYSTEM SHALL BE OPEN COUNTERCLOCKWISE AND MARKED WITH CARBONITE MARKERS AS APPLICABLE.
32. THE DEVELOPER OR HIS ENGINEER SHALL LOCATE ALL FIRE HYDRANTS AND SERVICE STUB-OUTS FOR FUTURE DEVELOPMENT. ANY REQUIRED REALIGNMENT, HORIZONTAL OR VERTICAL, SHALL BE AT THE EXPENSE OF THE DEVELOPER. FIRE HYDRANT LOCATION SHALL BE REVIEWED AND APPROVED BY THE APPLICABLE FIRE AUTHORITY.
33. FIRE HYDRANTS SHALL BE OPEN RIGHT WITH 7/8" X 7/8" SQUARE TAPERED ALONG WITH SERVICE CAPS. LUBRICATION TYPE: GREASE. ACCEPTABLE BRAND IS KENNEDY GUARDIAN (K81D, K81A, AND K81AM). EACH FIRE HYDRANT LOCATION SHALL ALSO BE USED AS TEST STATION.
34. ALL MAIN LINES (PVC & DUCTILE IRON) SHALL BE INSTALLED WITH COATED #12 TRACER WIRE WITH TEST STATIONS AT INTERVALS NO GREATER THAN FIVE HUNDRED FEET (500') (VALVE BOXES CAN BE USED AT INTERSECTIONS AND SERVICE STUBS).
35. CONTRACTOR SHALL MAKE CONNECTIONS TO EXISTING WATER LINE WITHOUT SHUTDOWN, OR ELSE NOTIFY THE DISTRICT OF ANY SERVICE SHUTDOWNS NECESSARY TO CONNECT TO EXISTING LINES.
36. IRRIGATION SERVICES SHALL HAVE A STOP-AND-WASTE CURB STOP VALVE INSTALLED ALONG WITH TRACER WIRE EXTENDING BACK TO THE MAIN LINE.
37. COMMENCEMENT OF USE OF WATER LINES AND/OR SYSTEMS:
  - a) NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL AFTER THE COMPLETION OF ALL PRESSURE TESTING, FLUSHING, BAC- T TESTING, AND COMPACTION TESTING, AND AS-BUILT DRAWINGS ARE SUBMITTED AND APPROVED BY THE DISTRICT.
  - b) NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL ALL SERVICE LINES ARE COMPLETED AND THE FIRST LIFT OF ASPHALT IS COMPLETED OVER THE LINE. IN THE CASE WHERE NO ASPHALT IS TO BE PLACED OVER THE LINE, SURFACE IMPROVEMENTS SHALL BE COMPLETED PRIOR TO USE OF THE FACILITY.
  - c) ALL EASEMENTS (PLATTED OR DEEDED) ARE DEDICATED, EXECUTED BY THE DISTRICT, AND RECORDED.

**WASTEWATER SYSTEM INSTALLATION NOTES**

38. SANITARY SEWER LENGTHS ARE MH CENTER - MH CENTER. ALL SANITARY SEWER PIPES SHALL BE SDR 35 PVC OR APPROVED EQUAL. SEWER LINES MAY NOT EXCEED 7% GRADE FOR ANY SIZE WITHOUT PRIOR APPROVAL OF THE DISTRICT. ALL NEWLY CONSTRUCTED RESIDENTIAL SANITARY SEWER TAPS SHALL USE PRE-MANUFACTURED, IN-LINE PVC PUSH-ON WYES. TAPPING SADDLES MAY ONLY BE USED FOR TAPPING PREEXISTING MAINS.
  39. ALL SANITARY SEWER MANHOLES SHALL BE WRAPPED WITH RU116 - RUBR-NEK JOINT WRAP, OR APPROVED EQUAL, AND COATED.
  40. COMMENCEMENT OF USE OF SEWER LINES AND/OR SYSTEMS:
    - a) NO SANITARY SEWER FACILITY SHALL BE PLACED IN SERVICE UNTIL THE COMPLETION OF ALL JET CLEANING, PRESSURE TESTING, VACUUM TESTING, CCTV INSPECTION, AND COMPACTION TESTING, AND AS-BUILT DRAWINGS ARE SUBMITTED AND APPROVED BY THE DISTRICT.
    - b) NO SANITARY SEWER FACILITY SHALL BE PLACED IN SERVICE UNTIL ALL SERVICE LINES ARE COMPLETED AND THE FIRST LIFT OF ASPHALT IS COMPLETED OVER THE LINE. IN THE CASE WHERE NO ASPHALT IS TO BE PLACED OVER THE LINE, ANY REQUIRED SURFACE IMPROVEMENTS SHALL BE COMPLETED PRIOR TO USE OF THE FACILITY.
    - c) ALL NECESSARY EASEMENTS (PLATTED OR DEEDED) ARE DEDICATED, EXECUTED BY THE DISTRICT, AND RECORDED.
    - d) DOWNSTREAM PLUG CAN BE REMOVED ONCE THE FIRST LIFT OF ASPHALT IS DOWN AND THE ABOVE REQUIREMENTS ARE MET.
- THE ABOVE GUIDELINES ARE SUBJECT TO CHANGE AT ANY TIME.

**FIRE AUTHORITY APPROVAL**

THE NUMBER OF FIRE HYDRANTS AND HYDRANT LOCATIONS SHOWN ON THIS WATER INSTALLATION PLAN ARE CORRECT AND ADEQUATE TO SATISFY THE FIRE PROTECTION REQUIREMENTS AS SPECIFIED BY THE FIRE DISTRICT SERVING THE PROPERTY NOTED ON THE PLANS.

FIRE PROTECTION DISTRICT \_\_\_\_\_

SIGNED \_\_\_\_\_ DATE \_\_\_\_\_

FIRE PROTECTION DISTRICT

**WATER AND SEWER MAIN EXTENSIONS**

ANY CHANGES OR ALTERATIONS AFFECTING THE GRADE, ALIGNMENT, ELEVATION, AND/OR DEPTH OF COVER OF ANY WATER OR SEWER MAINS OR OTHER APPURTENANCE SHOWN ON THIS DRAWING SHALL BE THE RESPONSIBILITY OF THE OWNER/DEVELOPER. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR ALL OPERATIONAL DAMAGES AND DEFECTS IN INSTALLATION AND MATERIAL FOR MAINS AND SERVICES FROM THE DATE OF APPROVAL UNTIL FINAL ACCEPTANCE IS ISSUED.

SIGNED \_\_\_\_\_ DATE \_\_\_\_\_

OWNER/DEVELOPER

PRINT NAME \_\_\_\_\_

DBA \_\_\_\_\_

ADDRESS \_\_\_\_\_

**WOODMEN HILLS METROPOLITAN DISTRICT APPROVAL**

THE WOODMEN HILLS METROPOLITAN DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN AND HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

WOODMEN HILLS METROPOLITAN DISTRICT WATER DESIGN APPROVAL

DATE: \_\_\_\_\_ BY: \_\_\_\_\_

PROJECT NO. \_\_\_\_\_

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT, THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL.



**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



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SHEET TITLE  
**WHMD  
GENERAL  
NOTES**

WHA PROJECT NUMBER  
**2021-041.00**

DATE  
**4/12/2023**

REVISIONS

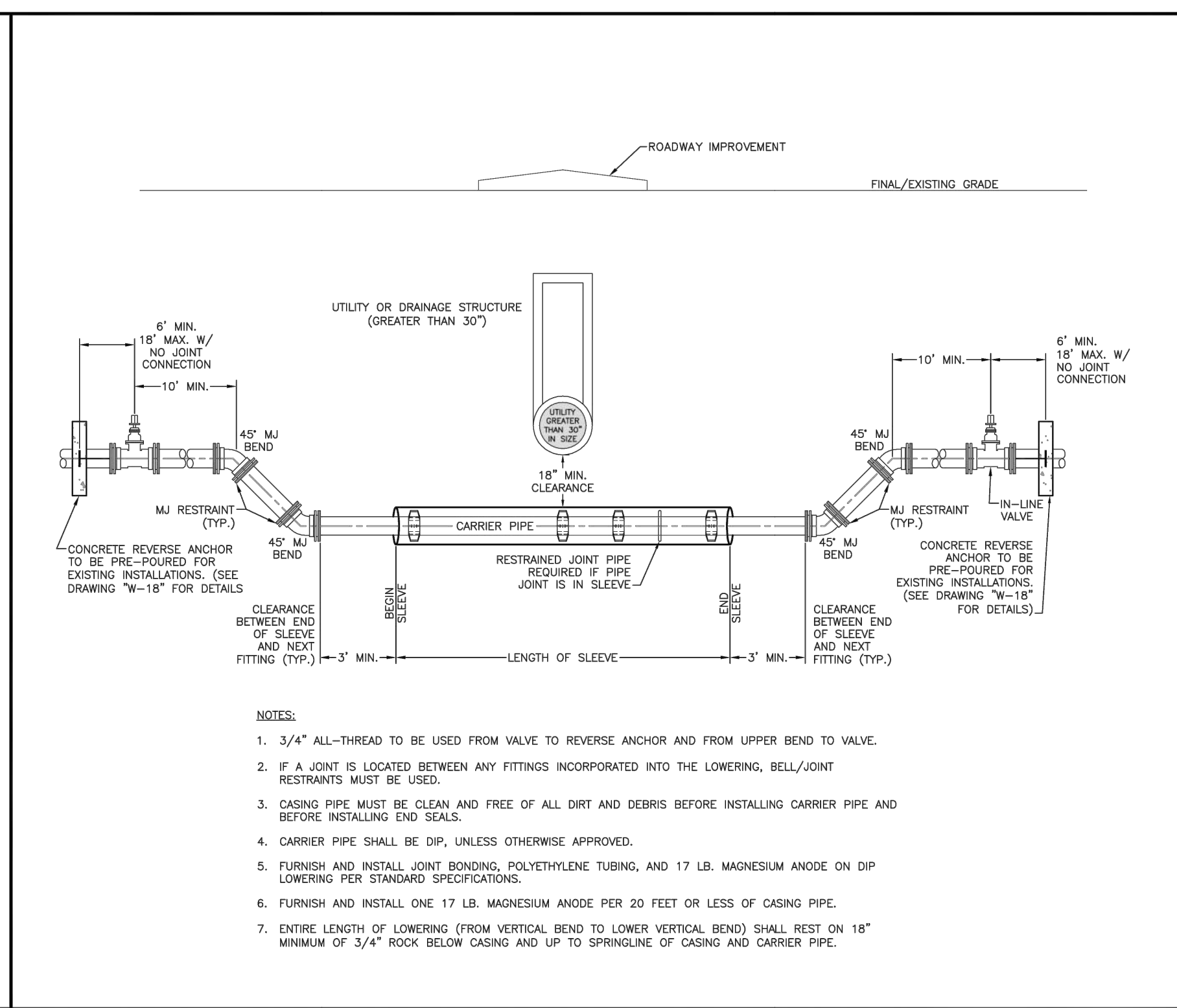
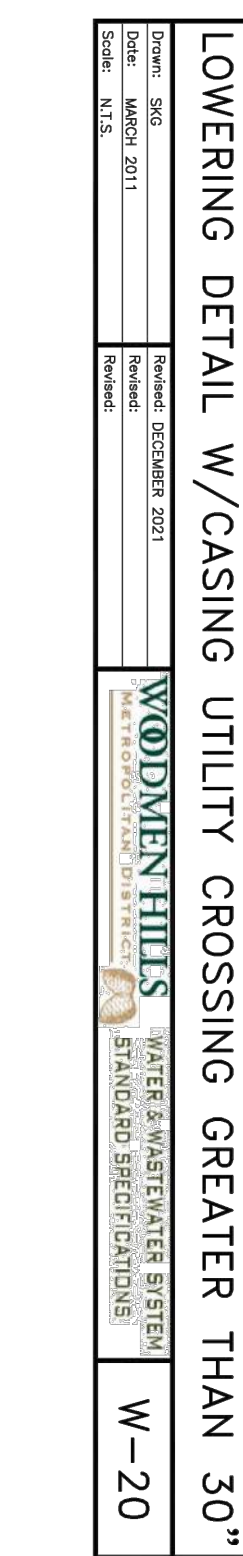
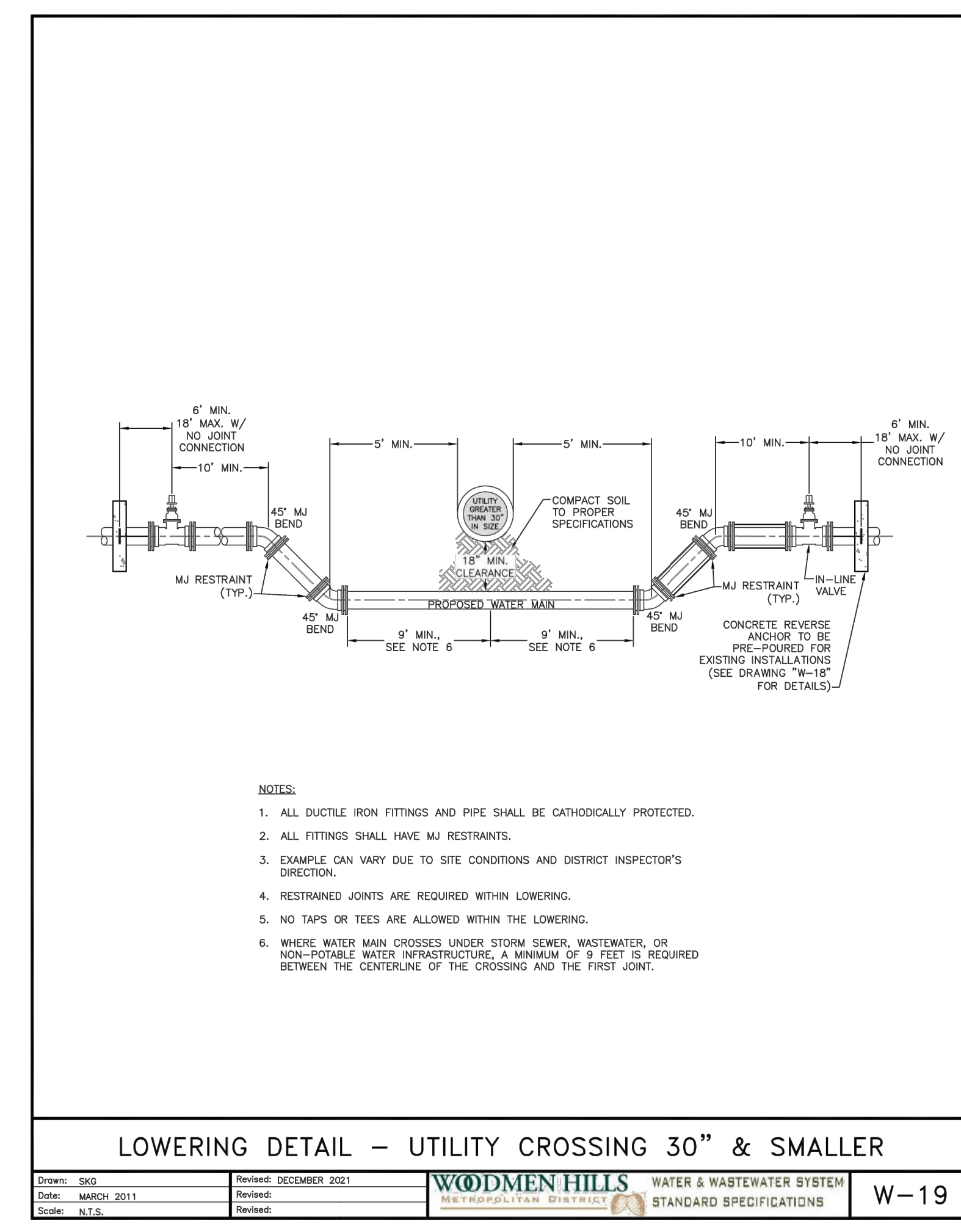
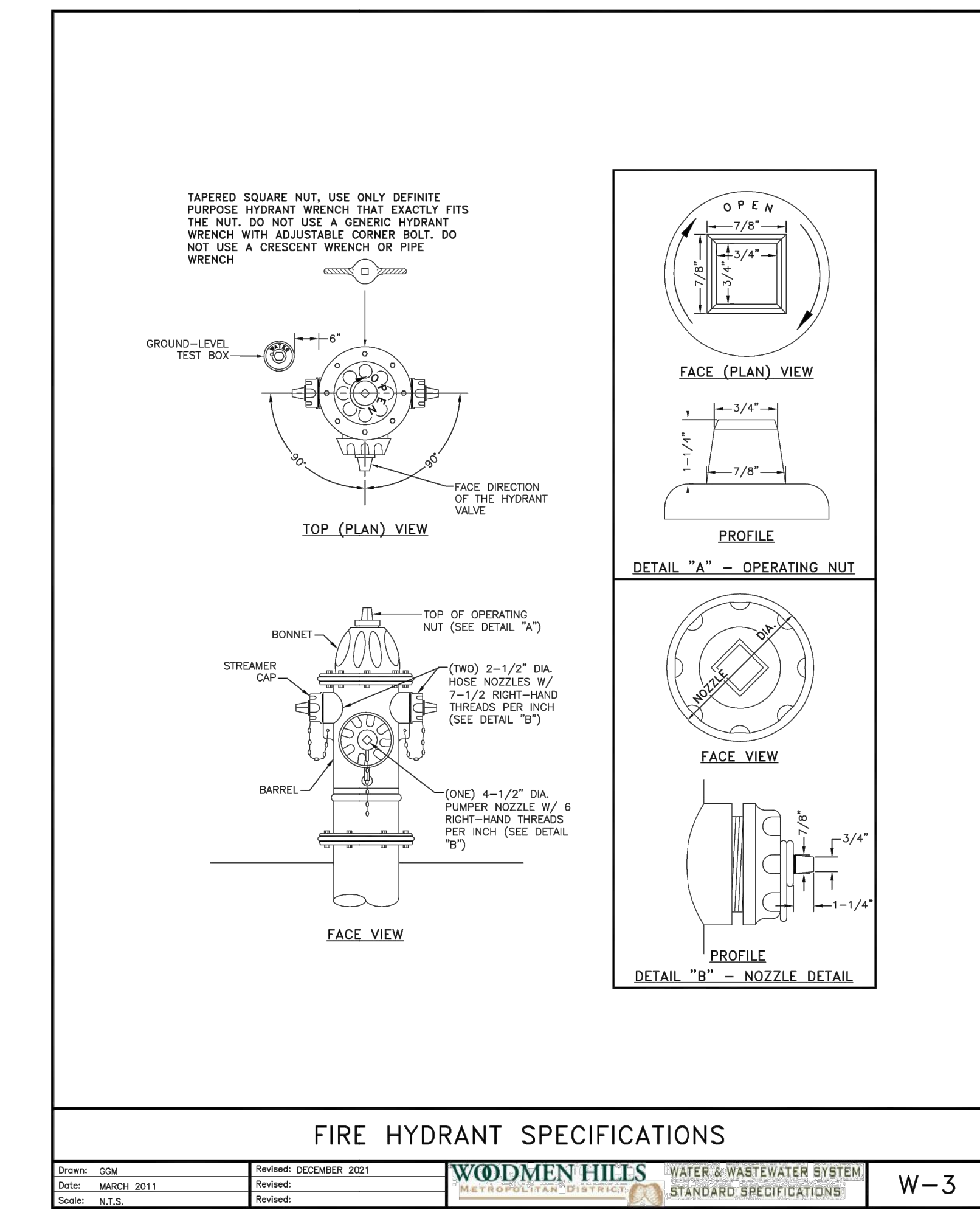
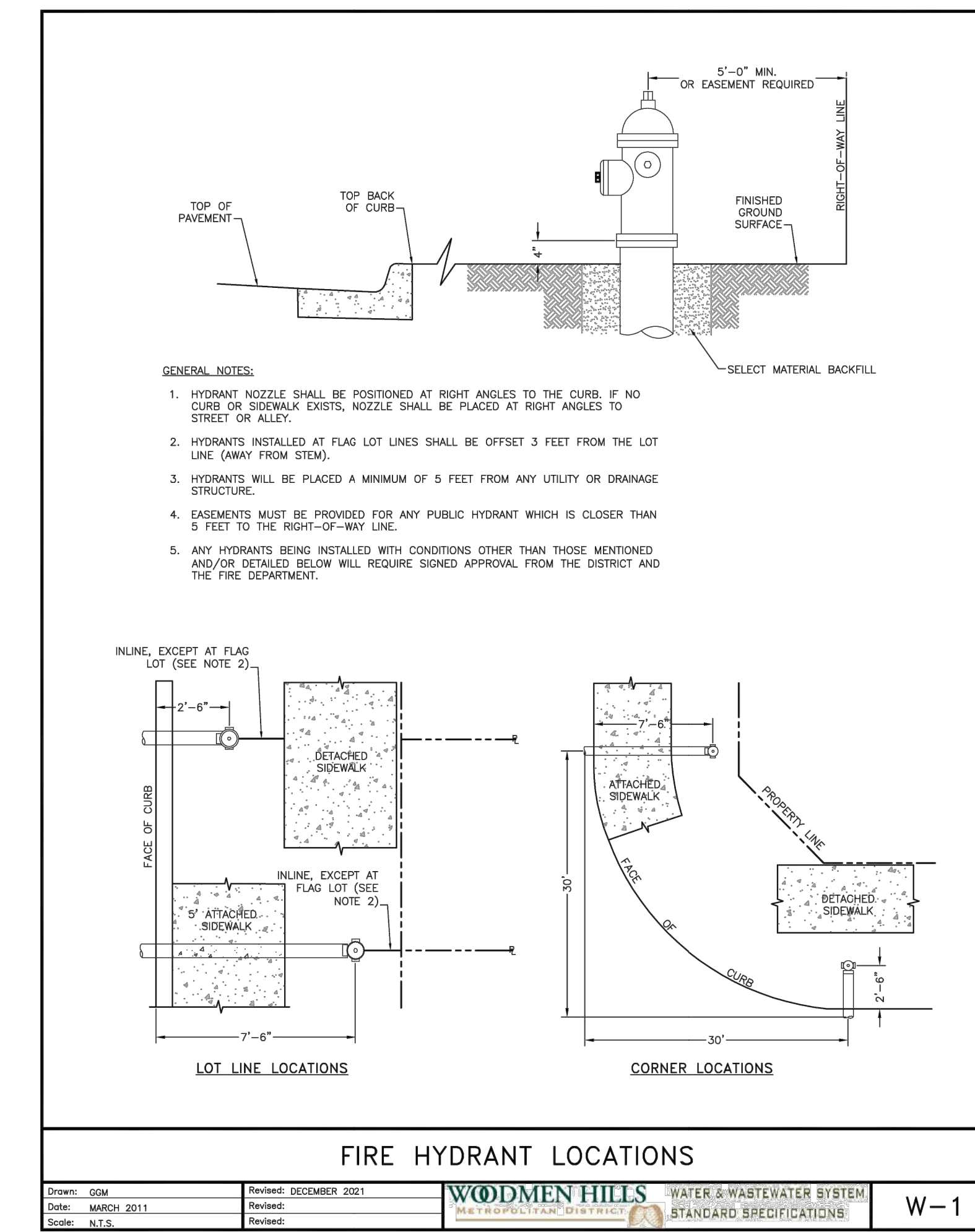
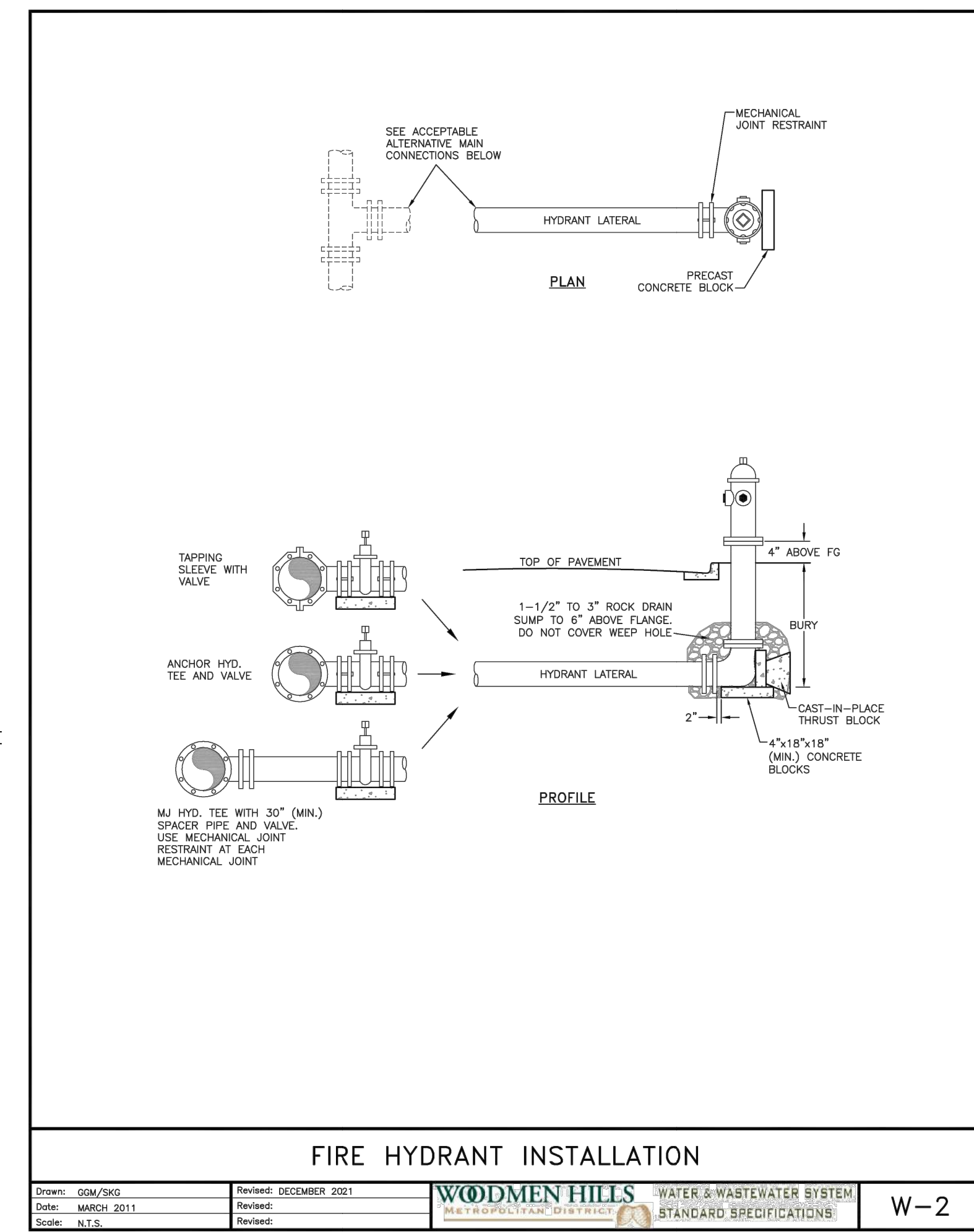
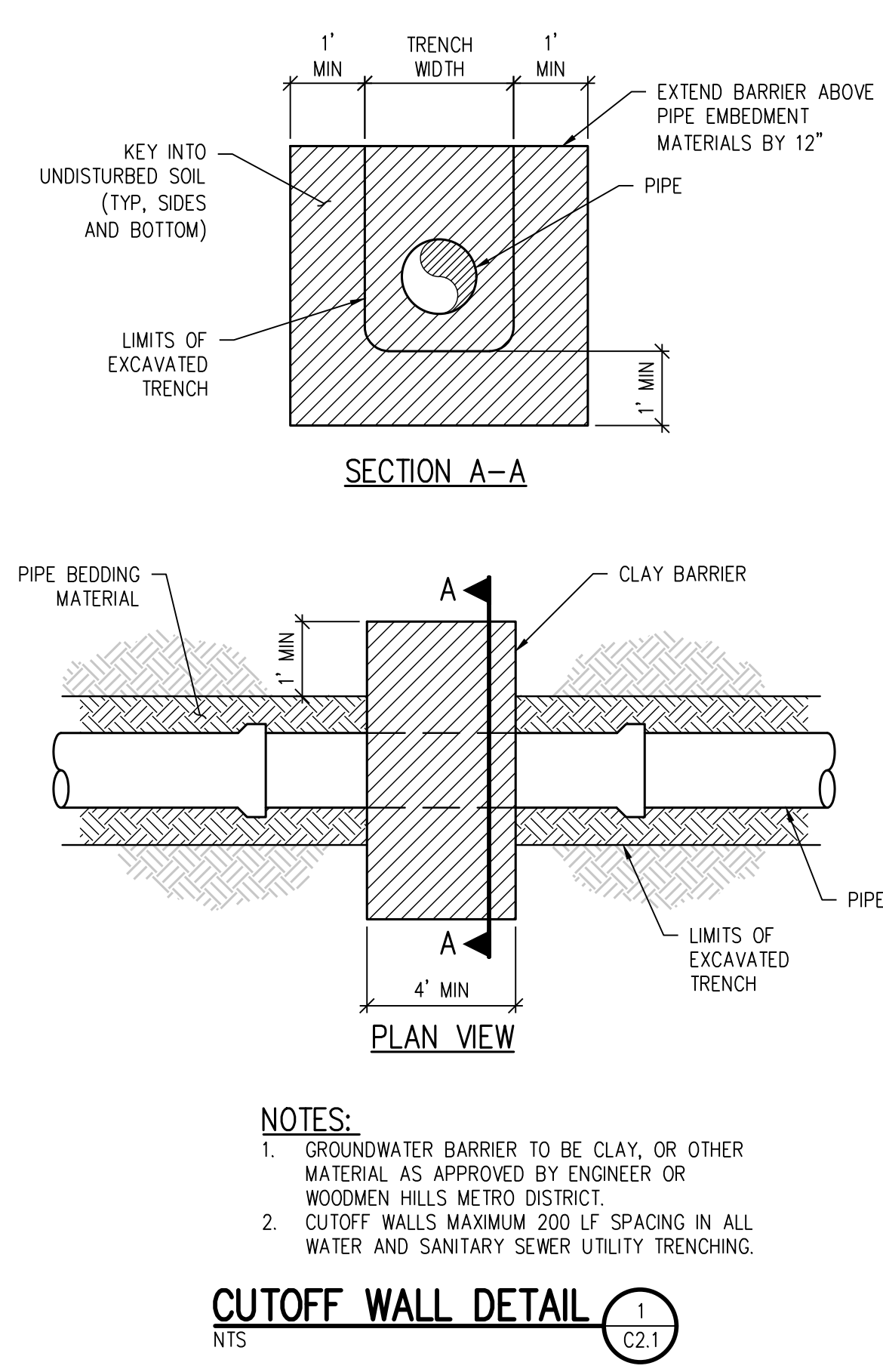
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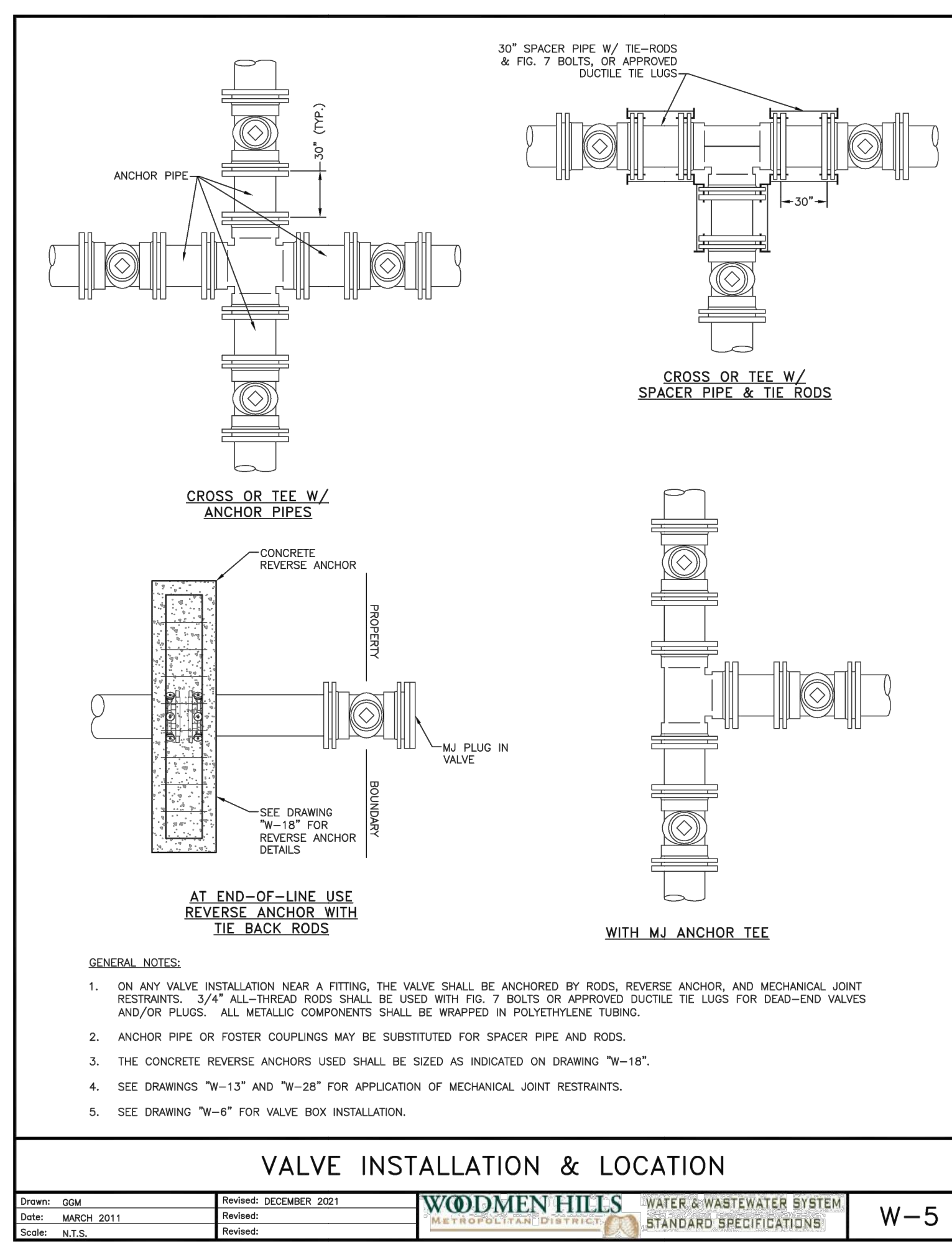
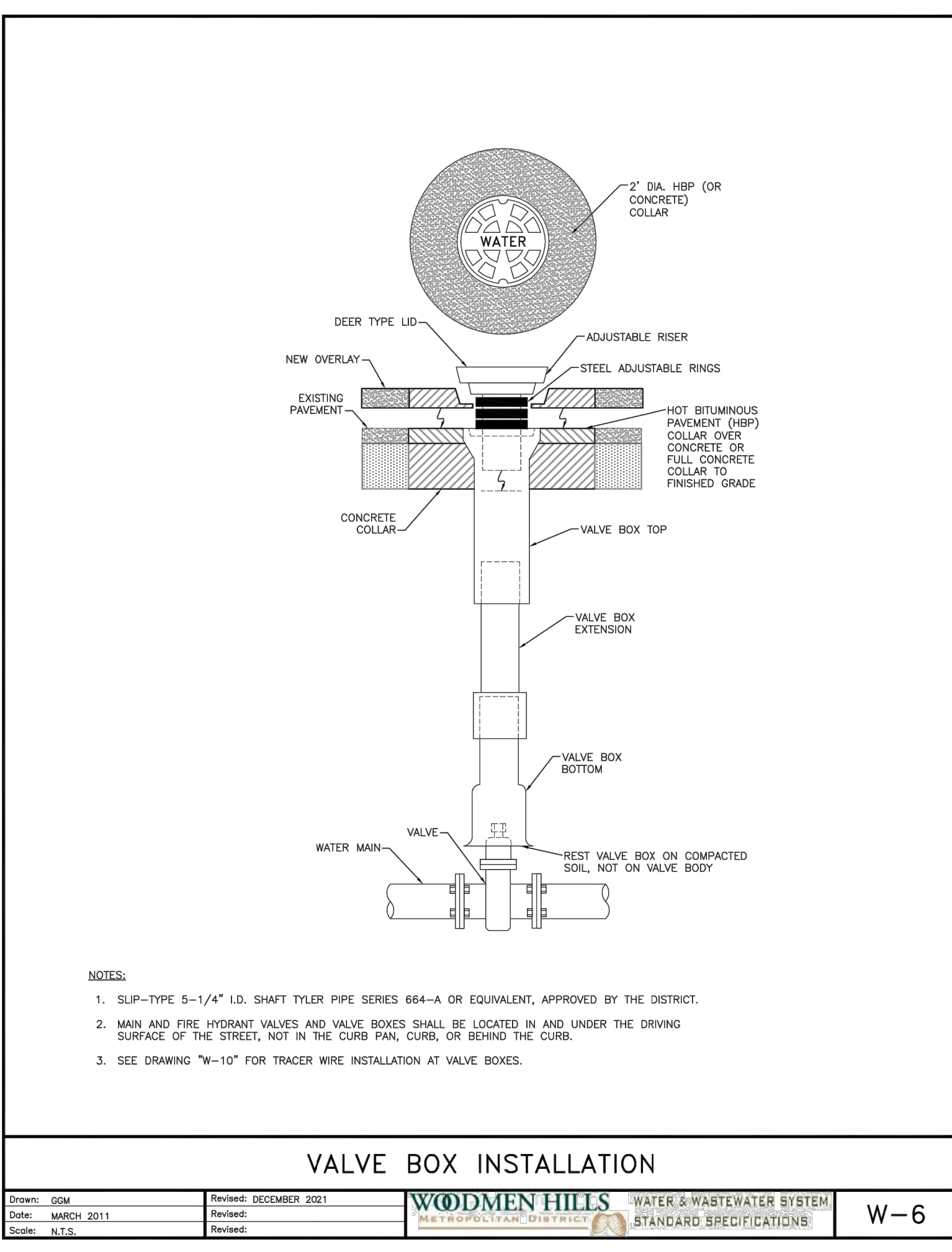
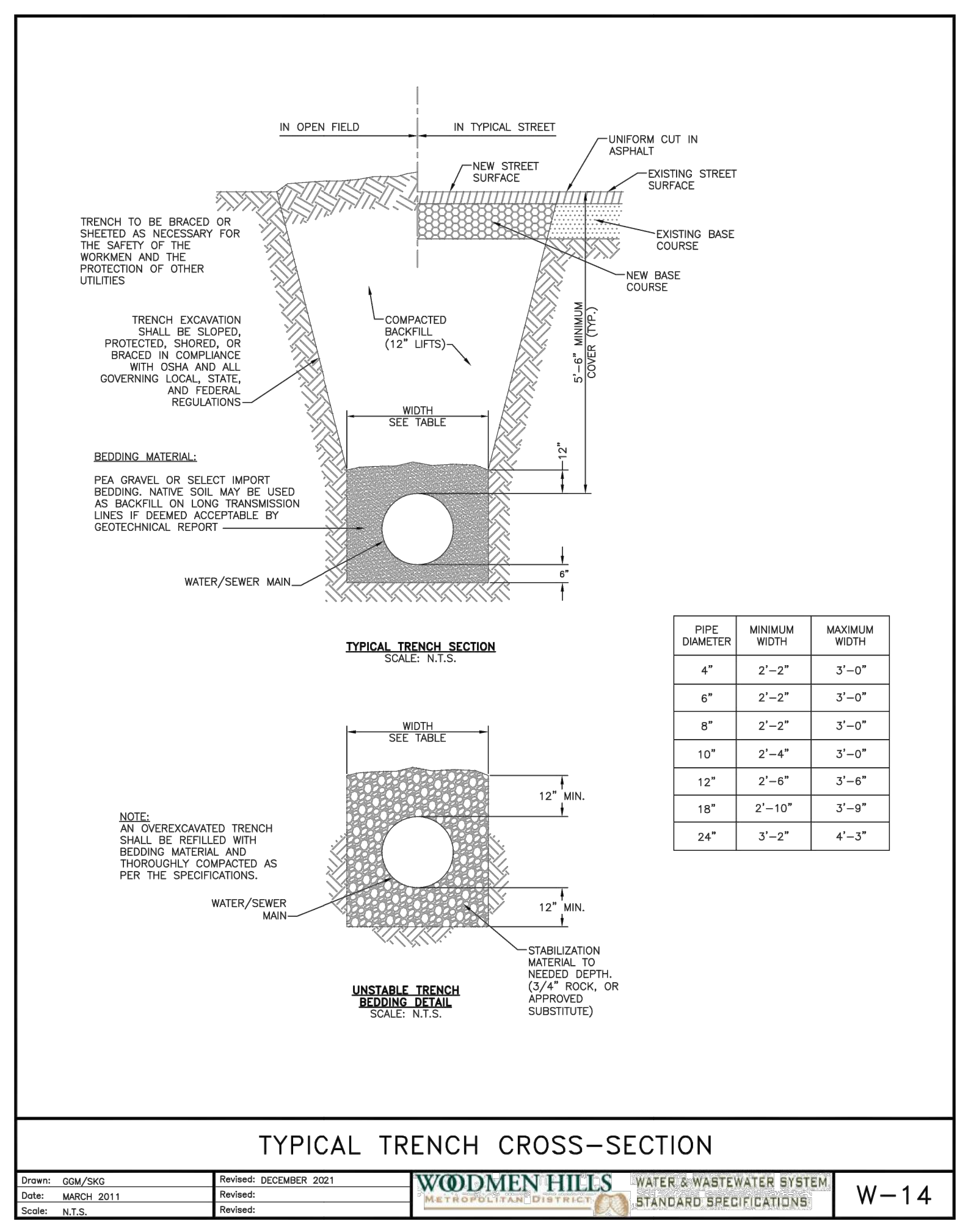
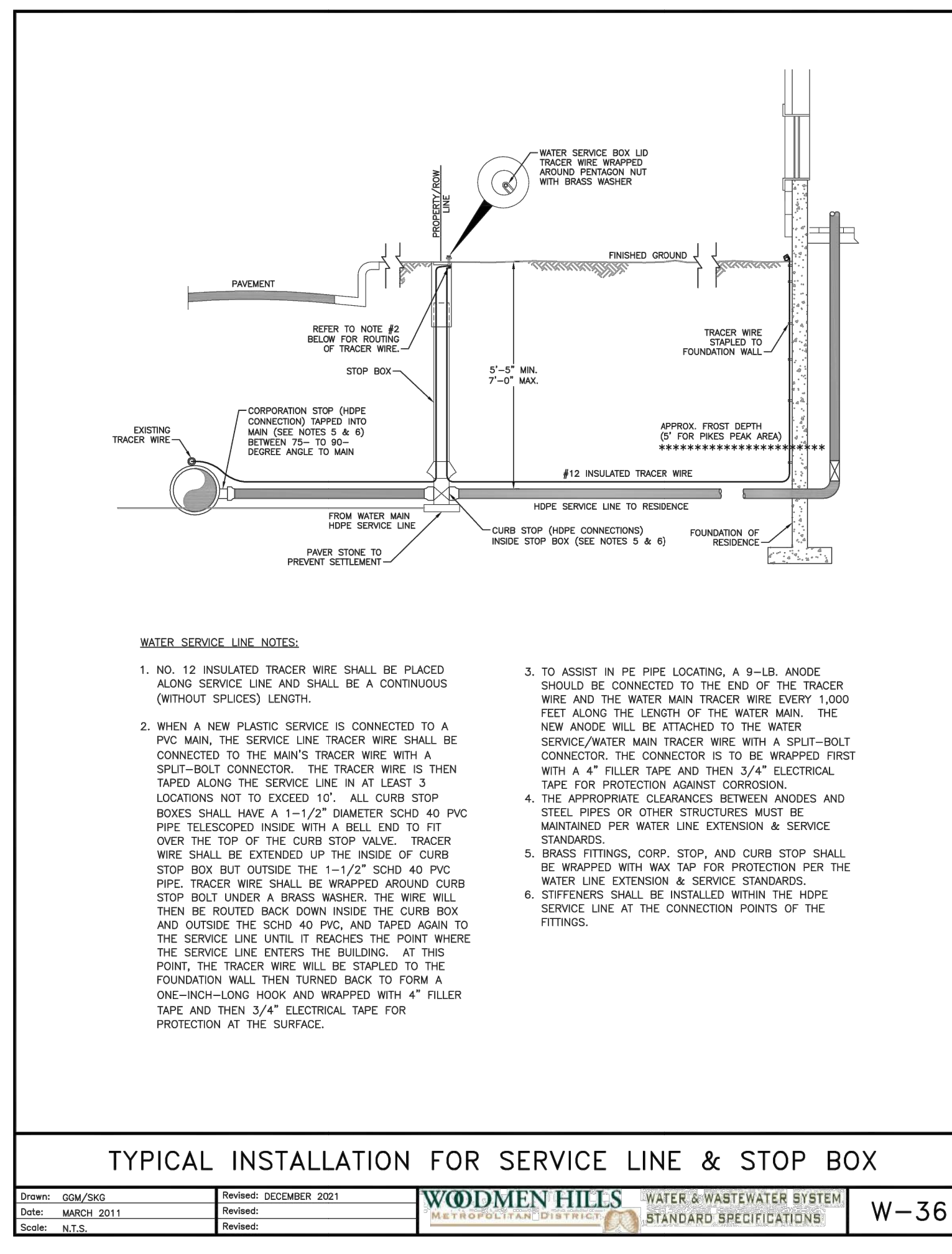
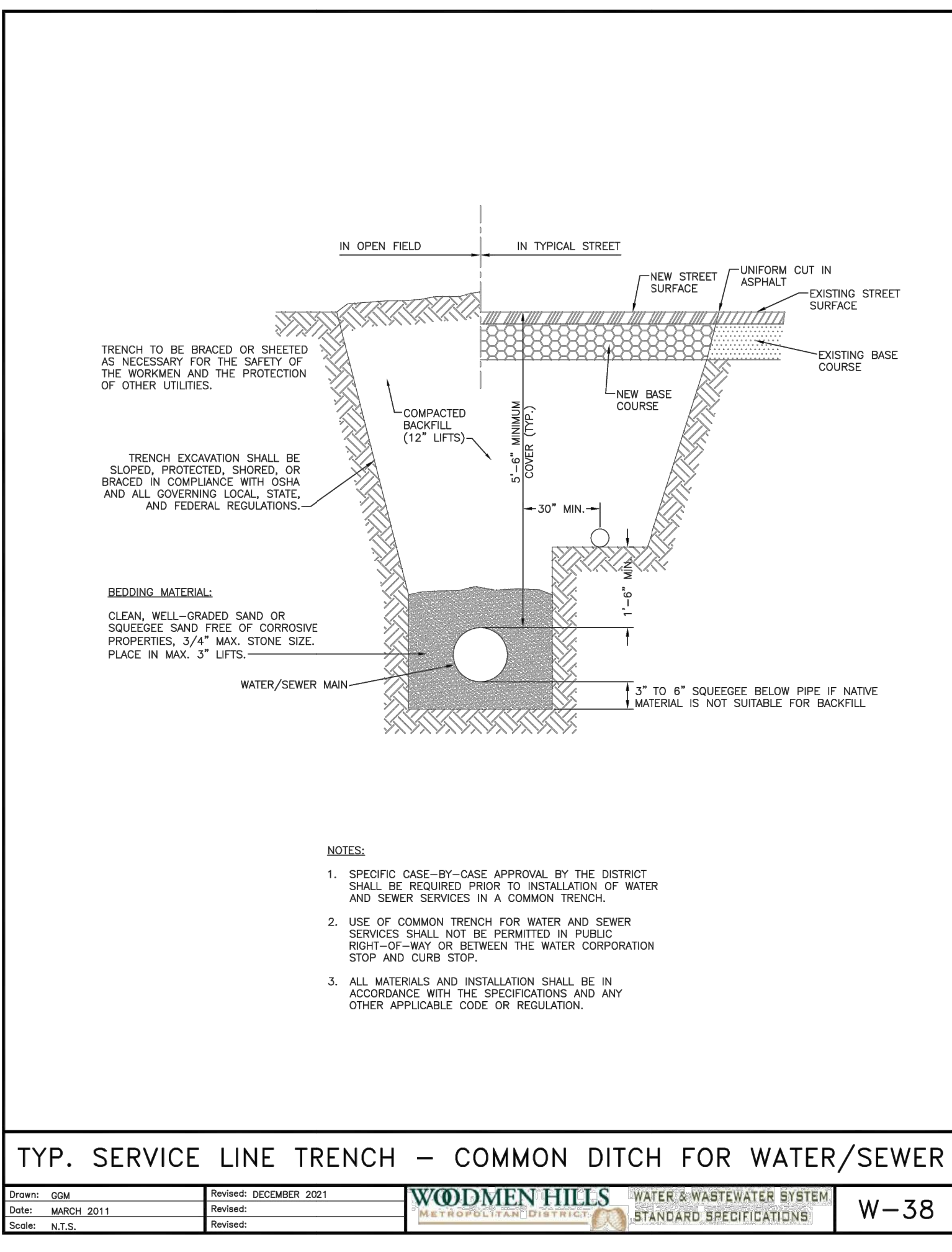
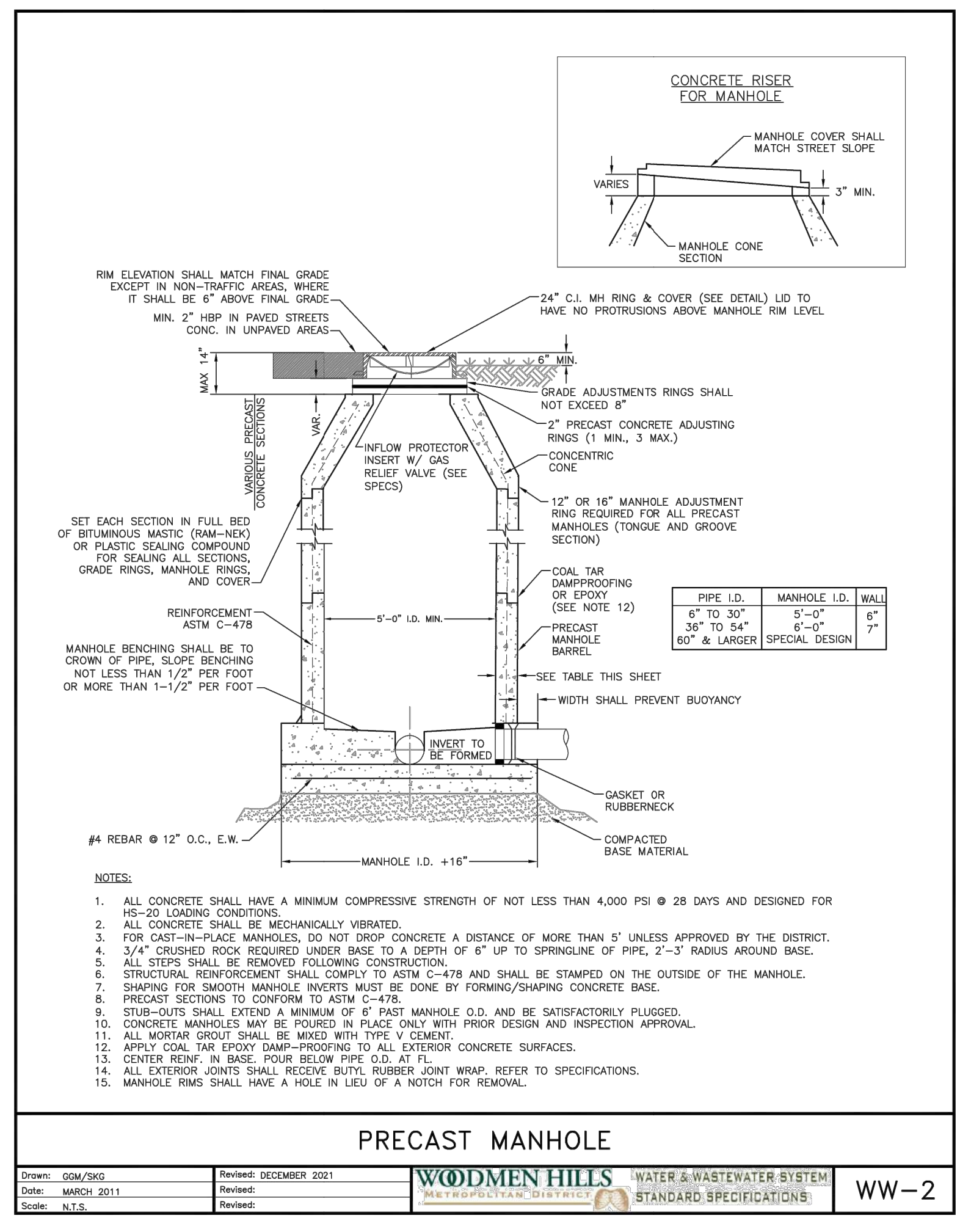
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 DRAWN BY: **T.W. AMB**  
 CHECKED BY: **CWK**

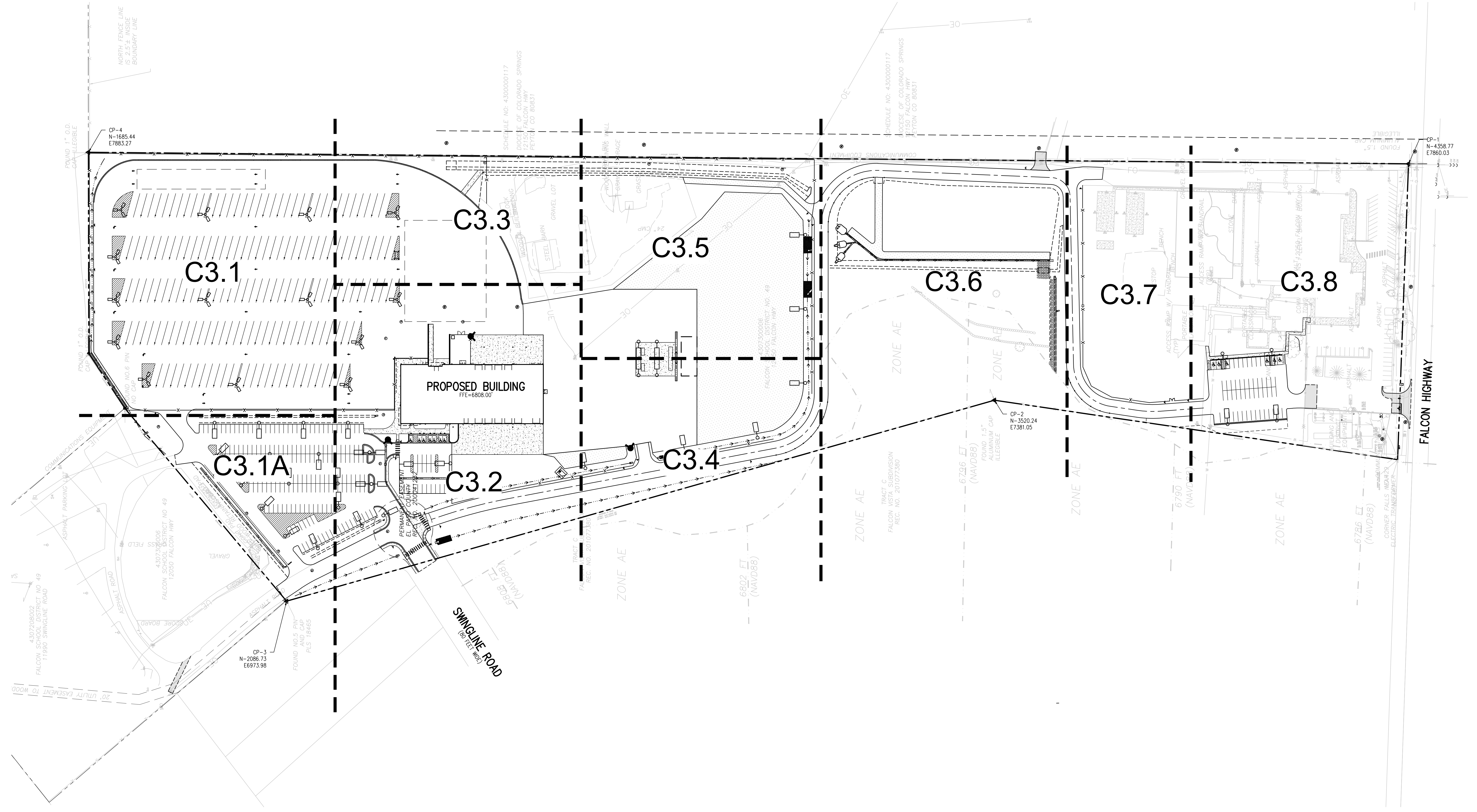
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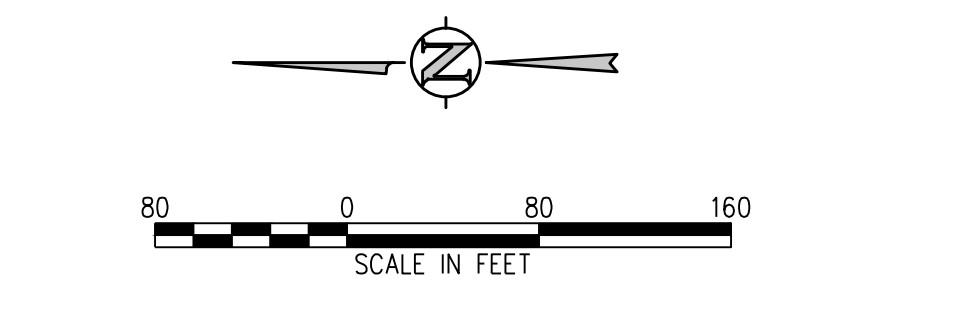
**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**OVERALL  
HORIZONTAL  
CONTROL PLAN**

STA PROJECT NUMBER  
**2021-041.00**  
DATE  
**4/12/2023**  
REVISIONS

#	DATE	DESCRIPTION



- HORIZONTAL CONTROL NOTES:**
1. ALL DIMENSIONS AND RADII ARE TO FACE OF CURB, FACE OF BUILDING AND EDGE OF WALK UNLESS OTHERWISE NOTED.
  2. CONTRACTOR TO REPAIR/REPLACE ALL DAMAGE TO EXISTING FLATWORK OR SITE FEATURES NOT INTENDED FOR DEMOLITION.
  3. REFER TO GRADING AND DRAINAGE PLAN FOR FURTHER INFORMATION PERTAINING TO CURB & GUTTER, CHASES, AND DRAINAGE PANS.

GRADE APPROVAL: **CWK/HCM**  
DRAWN BY: **TWK/AMB**  
CHECKED BY: **CWK**

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DOCUMENTS**

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**SCHOOL DISTRICT NO 49**  
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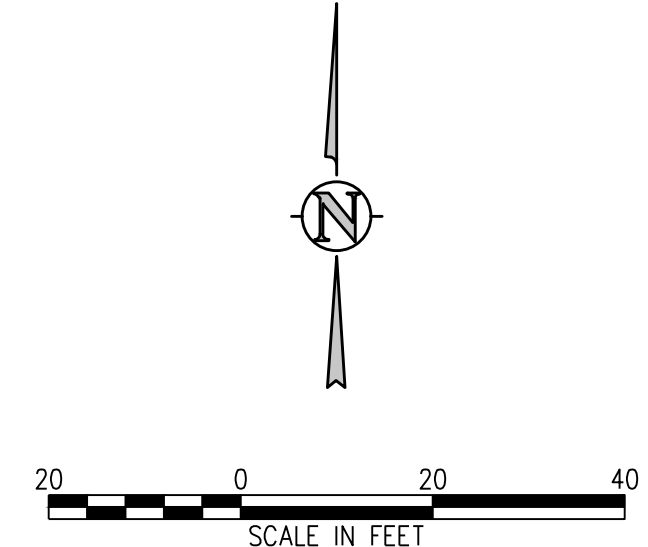
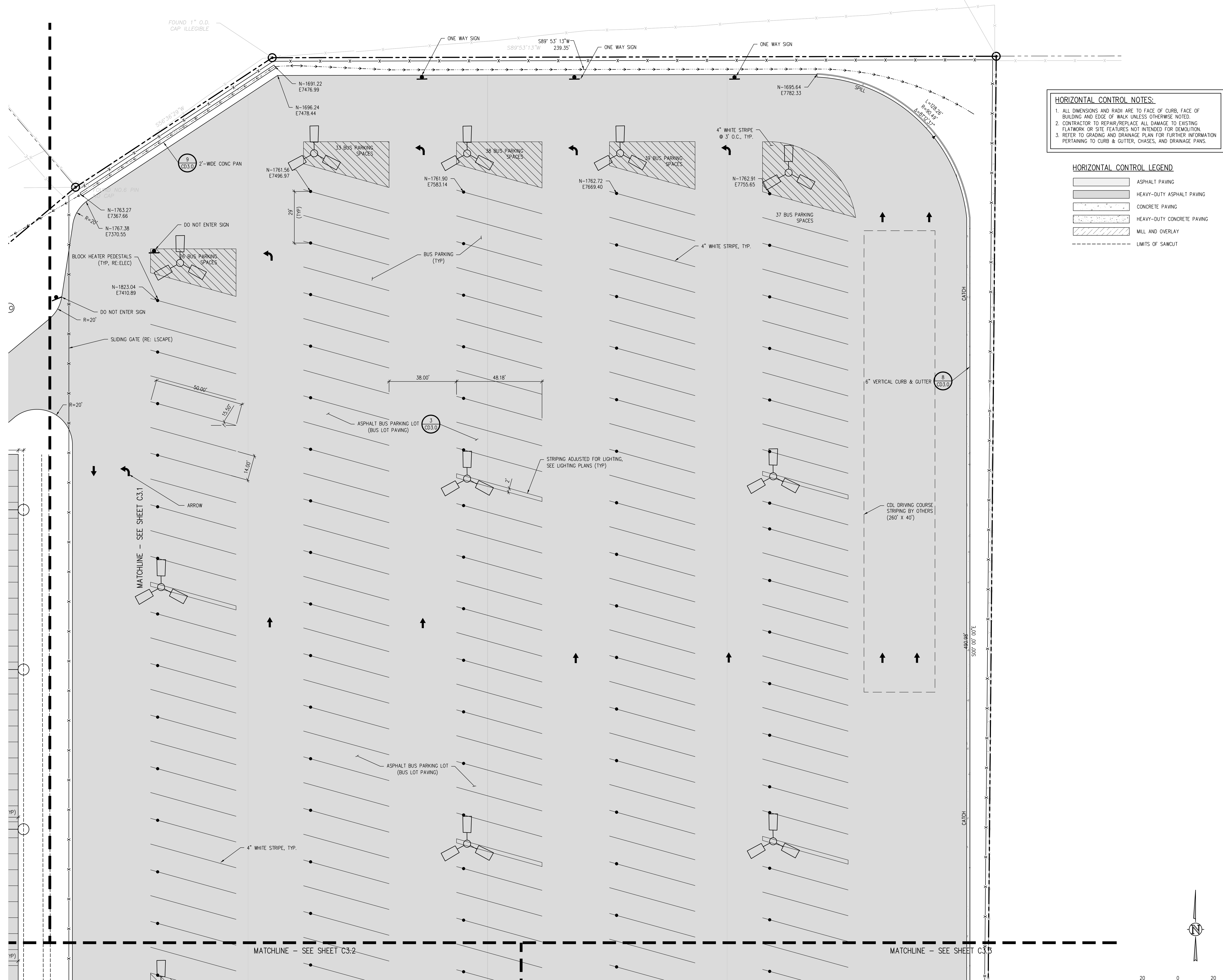
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**HORIZONTAL CONTROL PLAN**  
**A**

WTA PROJECT NUMBER  
**2021-041.00**  
 DATE  
**4/12/2023**

#	DATE	REVISIONS	DESCRIPTION

DESIGNED BY: CWK/HCM  
 DRAWN BY: TWK/AMB  
 CHECKED BY: CWK  
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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



WITA PROJECT NUMBER  
**2021-041.00**  
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**4/12/2023**  
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**CONSTRUCTION DOCUMENTS**  
SHEET NO.

**C3.1A**



**HORIZONTAL CONTROL NOTES:**

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**HORIZONTAL CONTROL LEGEND**

	ASPHALT PAVING
	HEAVY-DUTY ASPHALT PAVING
	CONCRETE PAVING
	HEAVY-DUTY CONCRETE PAVING
	MILL AND OVERLAY
	LIMITS OF SAWCUT

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**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



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**HORIZONTAL CONTROL PLAN B**

WTA PROJECT NUMBER  
**2021-041.00**

DATE  
**4/12/2023**

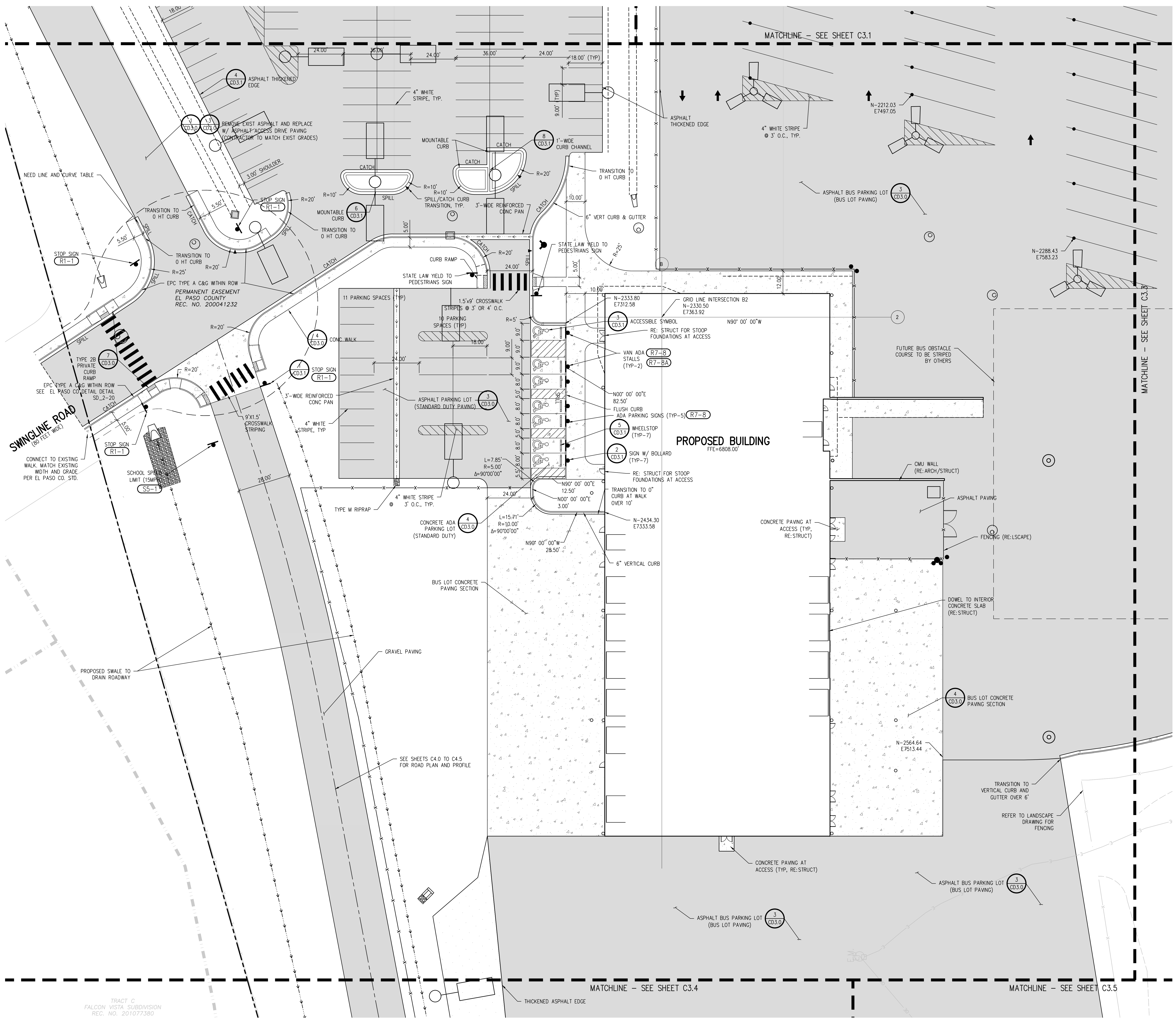
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DRAWN BY: **TW/AMB**  
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**CONSTRUCTION DOCUMENTS**

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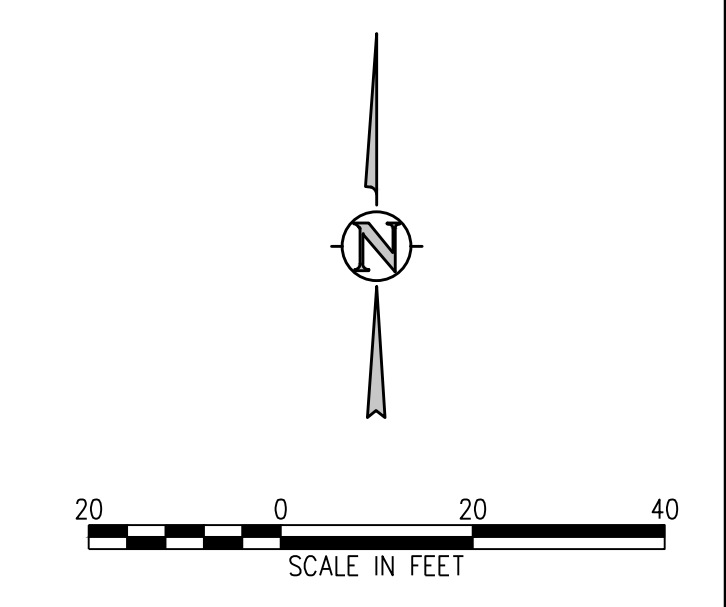


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- REFER TO GRADING AND DRAINAGE PLAN FOR FURTHER INFORMATION PERTAINING TO CURB & GUTTER, CHASES, AND DRAINAGE PANS.

**HORIZONTAL CONTROL LEGEND**

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[Pattern: Vertical Lines]	CONCRETE PAVING
[Pattern: Diagonal Lines]	HEAVY-DUTY CONCRETE PAVING
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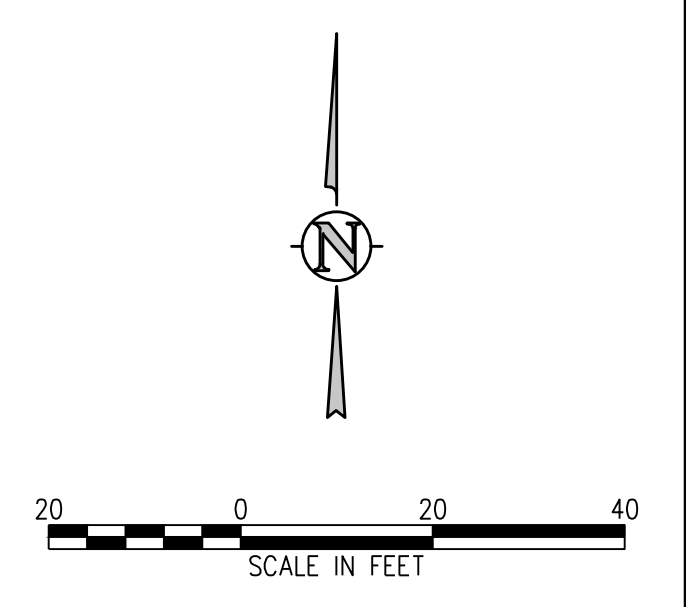
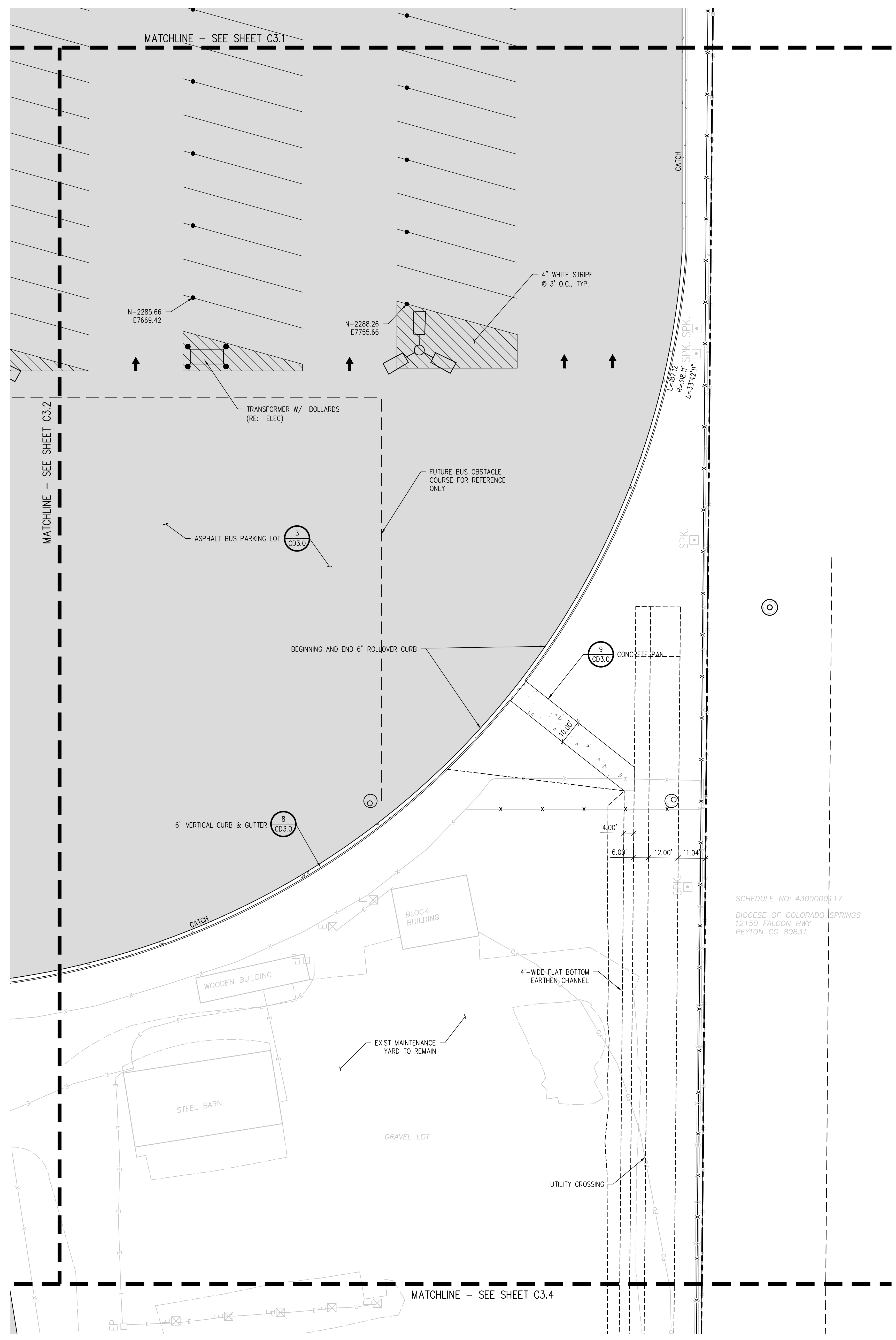
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REC. NO. 201077380

**HORIZONTAL CONTROL NOTES:**

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**HORIZONTAL CONTROL LEGEND**

- ASPHALT PAVING
- HEAVY-DUTY ASPHALT PAVING
- CONCRETE PAVING
- HEAVY-DUTY CONCRETE PAVING
- MILL AND OVERLAY
- LIMITS OF SAWCUT



**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
 11971 SWINGLINE ROAD  
 PEYTON, CO 80831



SHEET TITLE  
**HORIZONTAL CONTROL PLAN C**

RTA PROJECT NUMBER  
**2021-041.00**  
 DATE  
**4/12/2023**  
 REVISIONS

#	DATE	DESCRIPTION

GRADE APPROVAL: **CWK/HCM**  
 DRAWN BY: **TWK/AMB**  
 CHECKED BY: **CWK**

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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
 11971 SWINGLINE ROAD  
 PEYTON, CO 80831



SHEET TITLE  
**HORIZONTAL CONTROL PLAN D**

WTA PROJECT NUMBER  
**2021-041.00**  
 DATE  
**4/12/2023**

#	DATE	DESCRIPTION

DESIGNED BY: **CWK/HCM**  
 DRAWN BY: **TWW/AMB**  
 CHECKED BY: **CWK**

ISSUED FOR  
**CONSTRUCTION DOCUMENTS**

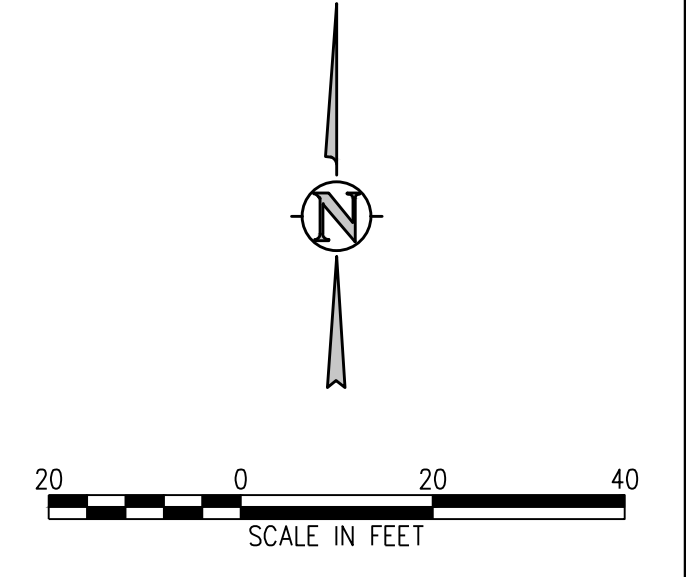
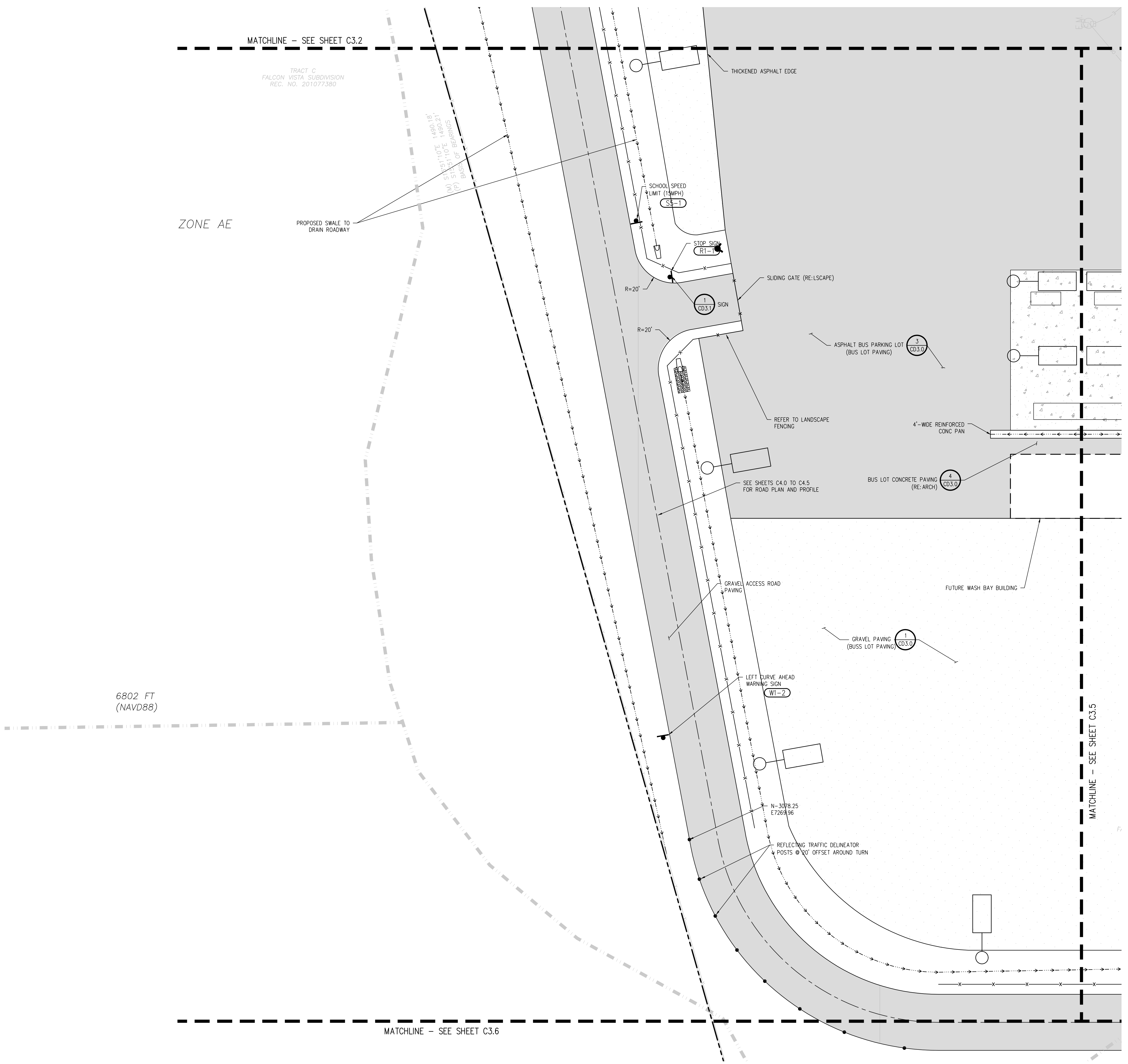
**C3.4**

**HORIZONTAL CONTROL NOTES:**

- ALL DIMENSIONS AND RADII ARE TO FACE OF CURB, FACE OF BUILDING AND EDGE OF WALK UNLESS OTHERWISE NOTED.
- CONTRACTOR TO REPAIR/REPLACE ALL DAMAGE TO EXISTING FLATWORK OR SITE FEATURES NOT INTENDED FOR DEMOLITION.
- REFER TO GRADING AND DRAINAGE PLAN FOR FURTHER INFORMATION PERTAINING TO CURB & GUTTER, CHASES, AND DRAINAGE PANS.

**HORIZONTAL CONTROL LEGEND**

- ASPHALT PAVING
- HEAVY-DUTY ASPHALT PAVING
- CONCRETE PAVING
- HEAVY-DUTY CONCRETE PAVING
- MILL AND OVERLAY
- LIMITS OF SAWCUT



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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**HORIZONTAL CONTROL PLAN E**

WTA PROJECT NUMBER  
**2021-041.00**  
DATE  
**4/12/2023**  
REVISIONS

#	DATE	DESCRIPTION

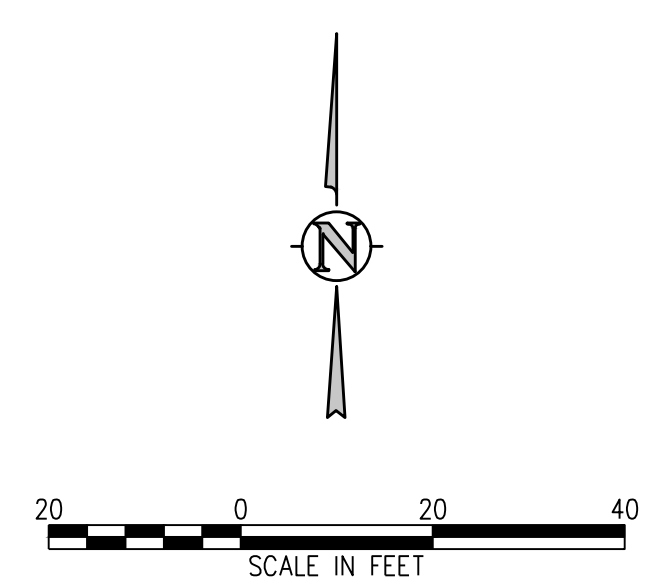
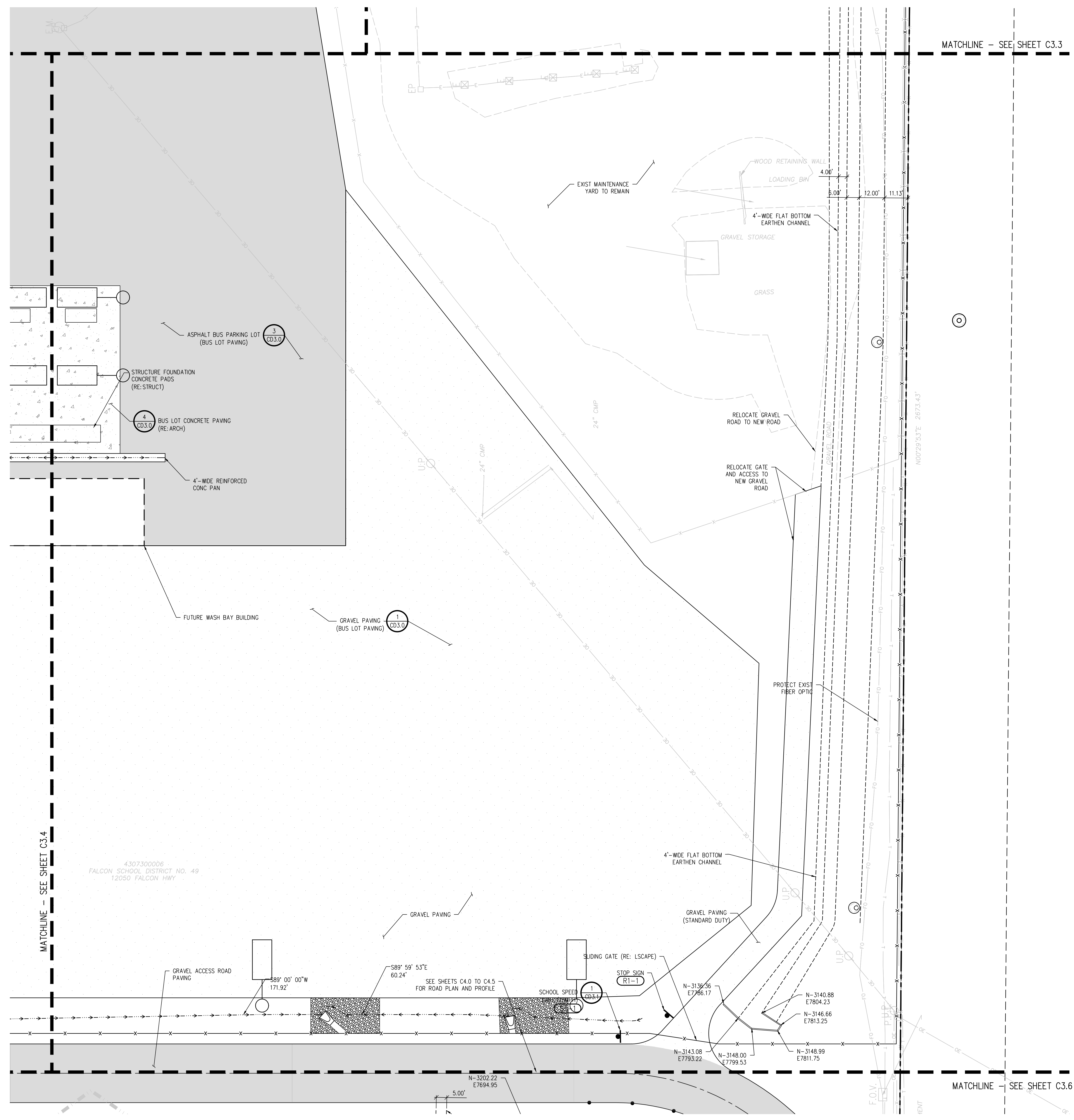
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DRAWN BY: **TWW/AMB**  
CHECKED BY: **CWK**

ISSUED FOR  
**CONSTRUCTION DOCUMENTS**  
SHEET NO.  
**C3.5**

**HORIZONTAL CONTROL NOTES:**  
1. ALL DIMENSIONS AND RADII ARE TO FACE OF CURB, FACE OF BUILDING AND EDGE OF WALK UNLESS OTHERWISE NOTED.  
2. CONTRACTOR TO REPAIR/REPLACE ALL DAMAGE TO EXISTING FLATWORK OR SITE FEATURES NOT INTENDED FOR DEMOLITION.  
3. REFER TO GRADING AND DRAINAGE PLAN FOR FURTHER INFORMATION PERTAINING TO CURB & GUTTER, CHASES, AND DRAINAGE PANS.

**HORIZONTAL CONTROL LEGEND**

- ASPHALT PAVING
- HEAVY-DUTY ASPHALT PAVING
- CONCRETE PAVING
- HEAVY-DUTY CONCRETE PAVING
- MILL AND OVERLAY
- LIMITS OF SAWCUT



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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
 11971 SWINGLINE ROAD  
 PEYTON, CO 80831



HORIZONTAL CONTROL PLAN  
 F

WTA PROJECT NUMBER  
**2021-041.00**  
 DATE  
**4/12/2023**  
 REVISIONS

#	DATE	DESCRIPTION

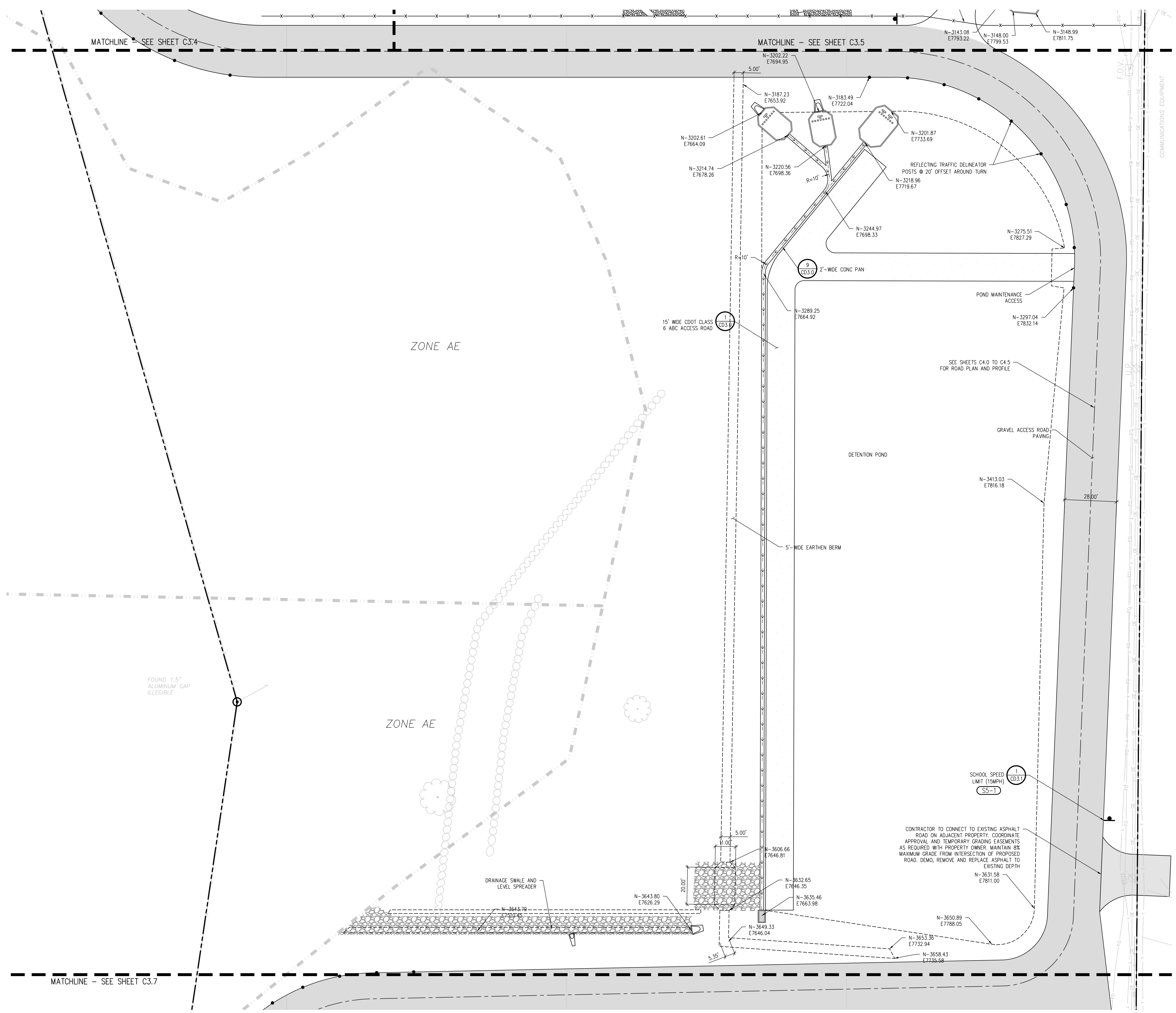
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 DRAWN BY: T.W. AMB  
 CHECKED BY: CWK

ISSUED FOR  
**CONSTRUCTION DOCUMENTS**  
 SHEET NO.  
**C3.6**

**HORIZONTAL CONTROL NOTES:**  
 1. ALL DIMENSIONS AND RADII ARE TO FACE OF CURB, FACE OF BUILDING AND EDGE OF WALK UNLESS OTHERWISE NOTED.  
 2. CONTRACTOR TO REPAIR/REPLACE ALL DAMAGE TO EXISTING FLATWORK OR SITE FEATURES NOT INTENDED FOR DEMOLITION.  
 3. REFER TO GRADING AND DRAINAGE PLAN FOR FURTHER INFORMATION PERTAINING TO CURB & GUTTER, CHASES, AND DRAINAGE PANS.

**HORIZONTAL CONTROL LEGEND**

- ASPHALT PAVING
- HEAVY-DUTY ASPHALT PAVING
- CONCRETE PAVING
- HEAVY-DUTY CONCRETE PAVING
- MILL AND OVERLAY
- LIMITS OF SAWCUT



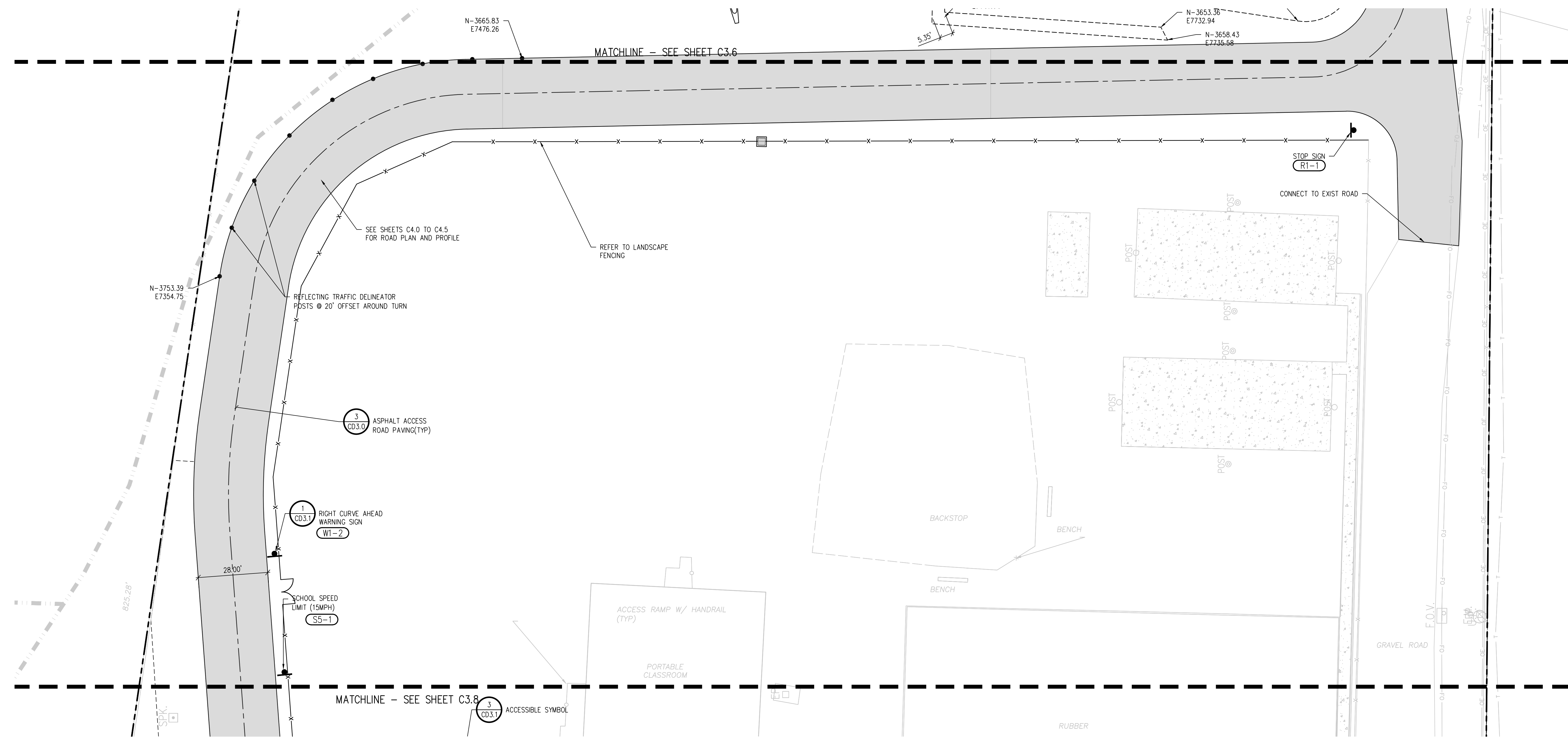
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**HORIZONTAL CONTROL NOTES:**

1. ALL DIMENSIONS AND RADII ARE TO FACE OF CURB, FACE OF BUILDING AND EDGE OF WALK UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO REPAIR/REPLACE ALL DAMAGE TO EXISTING FLATWORK OR SITE FEATURES NOT INTENDED FOR DEMOLITION.
3. REFER TO GRADING AND DRAINAGE PLAN FOR FURTHER INFORMATION PERTAINING TO CURB & GUTTER, CHASES, AND DRAINAGE PANS.

**HORIZONTAL CONTROL LEGEND**

- ASPHALT PAVING
- HEAVY-DUTY ASPHALT PAVING
- CONCRETE PAVING
- HEAVY-DUTY CONCRETE PAVING
- MILL AND OVERLAY
- LIMITS OF SAWCUT



**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**HORIZONTAL CONTROL PLAN G**

RTA PROJECT NUMBER  
**2021-041.00**

DATE  
**4/12/2023**

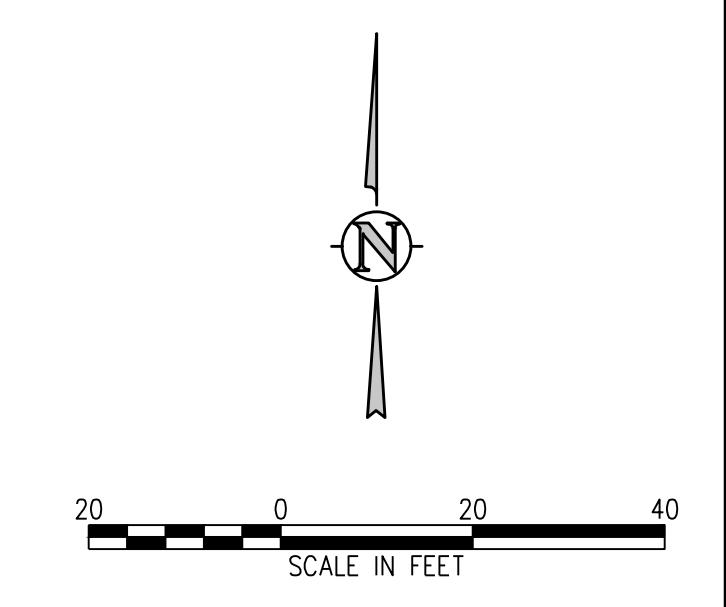
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DRAWN BY: **TWW/AMB**  
CHECKED BY: **CWK**

ISSUED FOR  
**CONSTRUCTION DOCUMENTS**

**C3.7**



**HORIZONTAL CONTROL NOTES:**

1. ALL DIMENSIONS AND RADII ARE TO FACE OF CURB, FACE OF BUILDING AND EDGE OF WALK UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO REPAIR/REPLACE ALL DAMAGE TO EXISTING FLATWORK OR SITE FEATURES NOT INTENDED FOR DEMOLITION.
3. REFER TO GRADING AND DRAINAGE PLAN FOR FURTHER INFORMATION PERTAINING TO CURB & GUTTER, CHASES, AND DRAINAGE PANS.

**HORIZONTAL CONTROL LEGEND**

- ASPHALT PAVING
- HEAVY-DUTY ASPHALT PAVING
- CONCRETE PAVING
- HEAVY-DUTY CONCRETE PAVING
- MILL AND OVERLAY
- LIMITS OF SAWCUT



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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**HORIZONTAL CONTROL PLAN H**

DATE PROJECT NUMBER  
**2021-041.00**

DATE  
**4/12/2023**

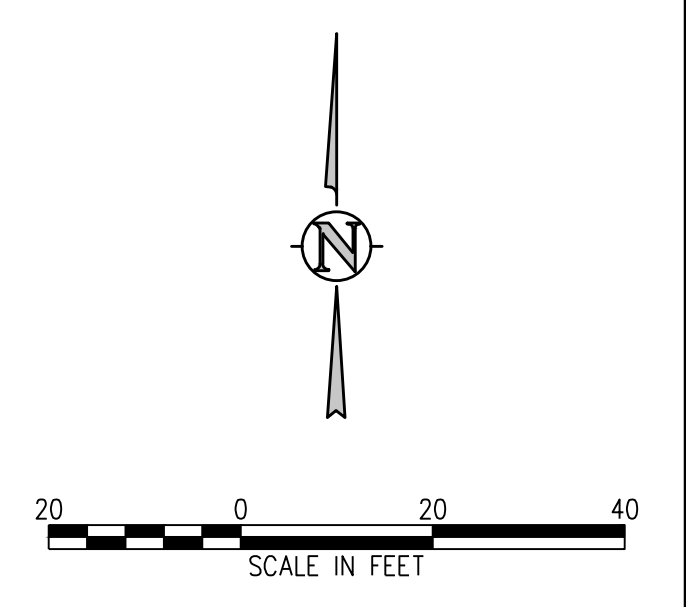
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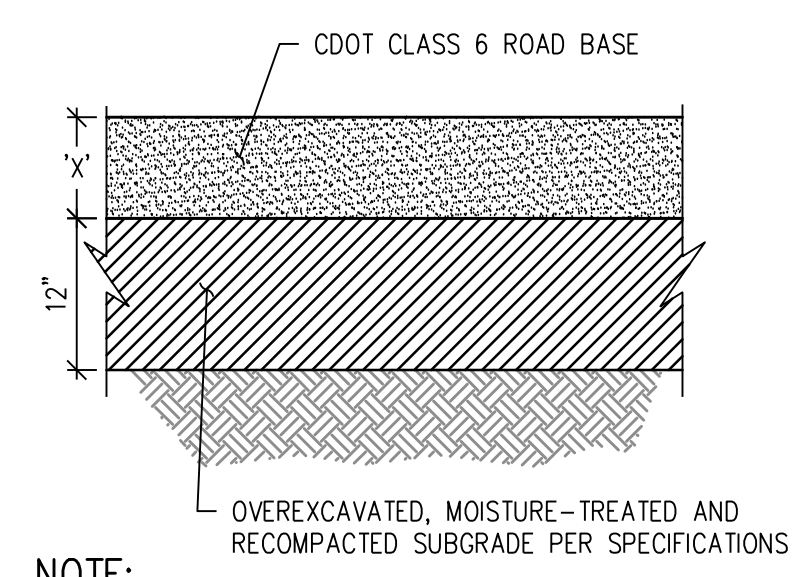
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ISSUED FOR  
**CONSTRUCTION DOCUMENTS**

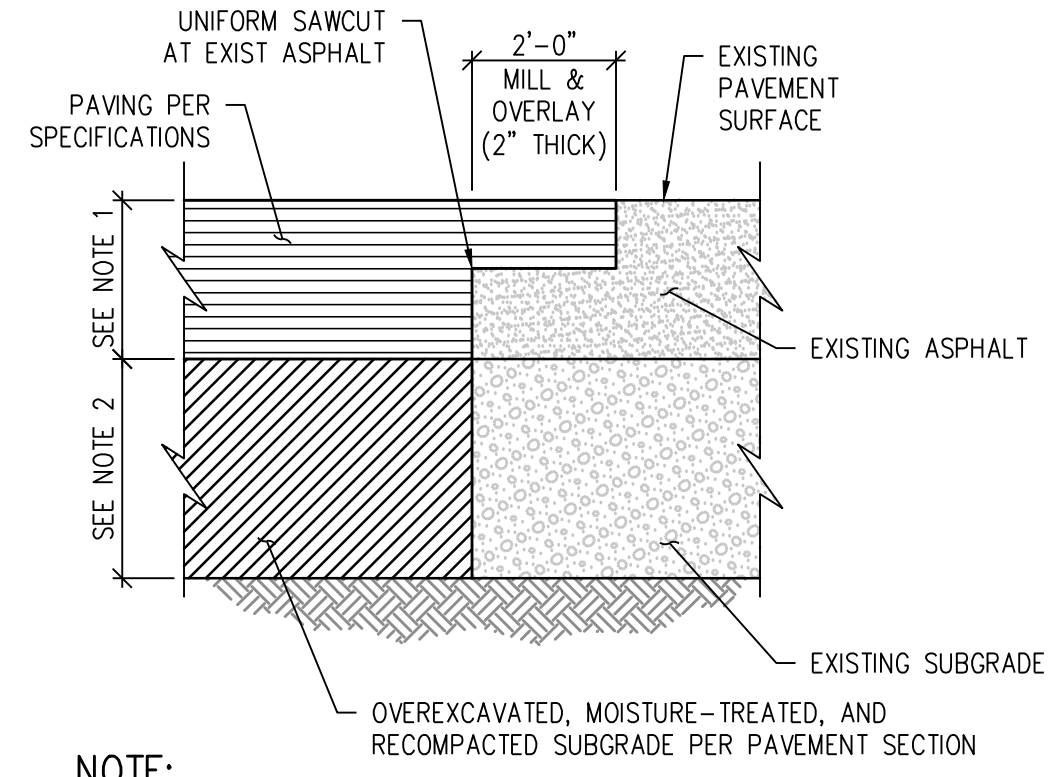
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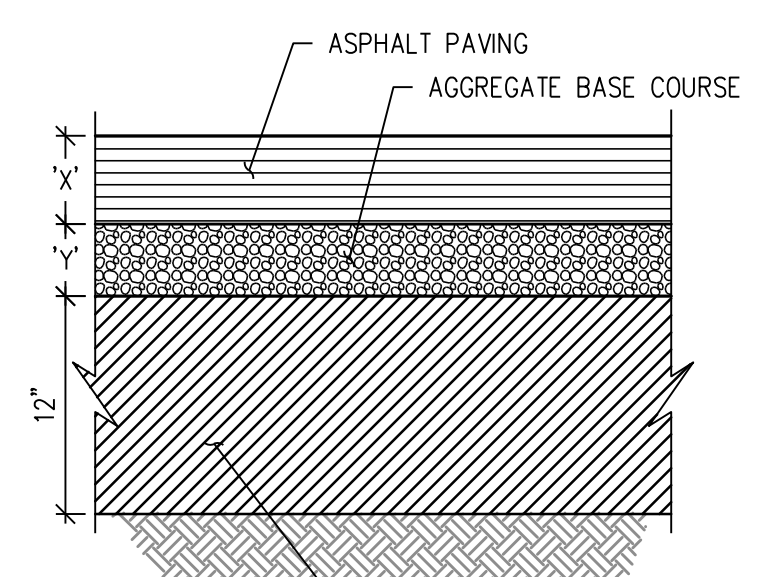
- NOTE:**
1. "X" GRAVEL THICKNESS:  
6" LIGHT DUTY  
8" STANDARD DUTY  
10" BUS LOT AND ACCESS ROAD
  2. REFER TO GEOTECHNICAL REPORT AND RECOMMENDATIONS FOR PAVEMENT SECTIONS INCLUDING PAVEMENTS AND SUBGRADE

**GRAVEL SECTION DETAIL** 1  
NTS C3.1



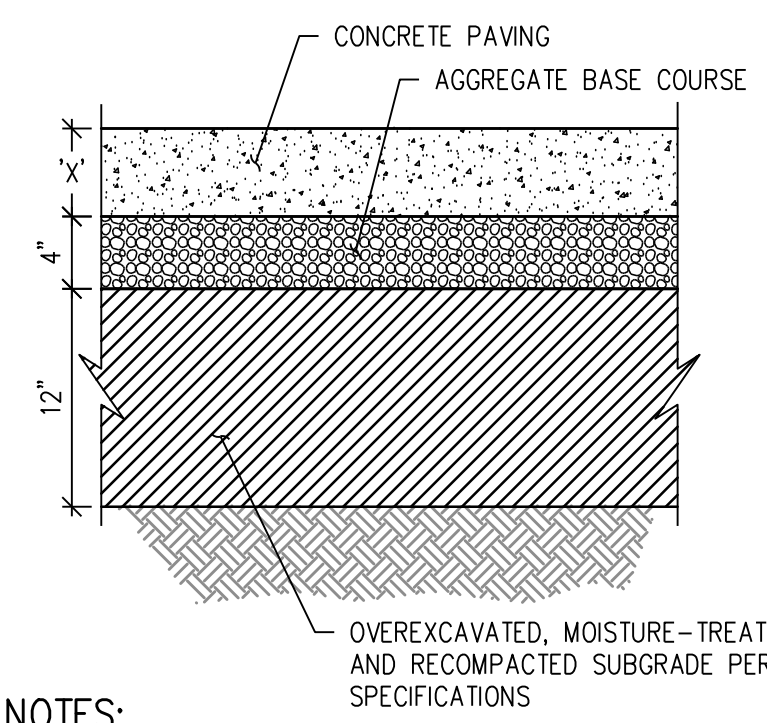
- NOTE:**
1. MATCH EXISTING DEPTH +1"
  2. MATCH EXIST SUBGRADE DEPTH UNLESS OTHERWISE SPECIFIED
  3. APPLY TACKIFIER AT SAWCUT AND MILL PRIOR TO PAVING.

**ASPHALT "T" PATCH DETAIL** 2  
NTS C3.2



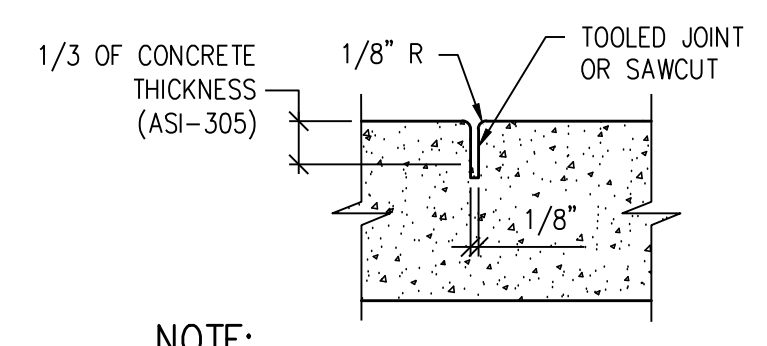
- NOTES:**
1. "X" ASPHALT THICKNESS:  
4.5" LIGHT DUTY  
5.5" STANDARD DUTY  
8" BUS LOT
  2. "Y" AGGREGATE BASE COURSE THICKNESS:  
6" LIGHT DUTY  
6" STANDARD DUTY  
10" BUS LOT

**COMPOSITE ASPHALT PAVEMENT SECTION DETAIL** 3  
NTS C3.2



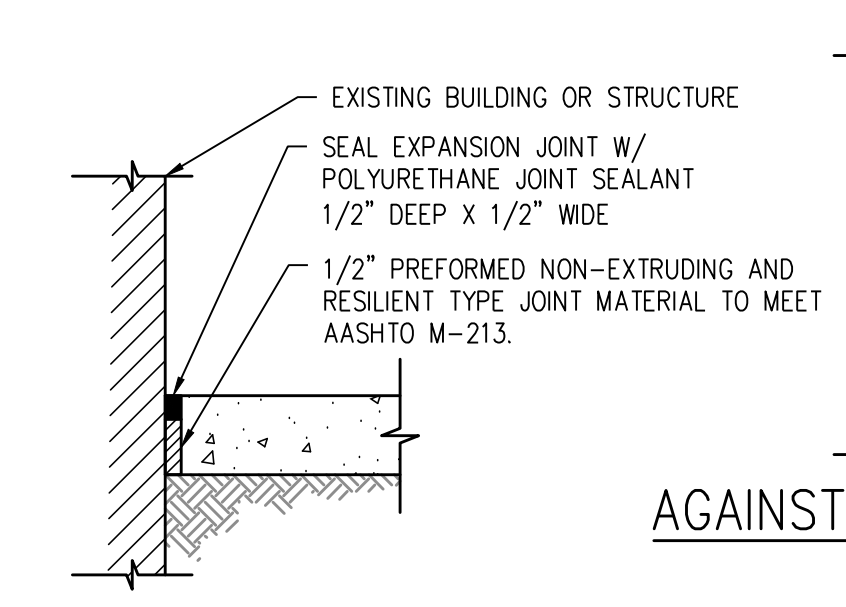
- NOTES:**
1. "X" CONCRETE THICKNESS:  
6" LIGHT DUTY  
6.5" STANDARD DUTY  
9.5" BUS LOT
  2. SEE SPECIFICATIONS FOR REINFORCEMENT REQUIREMENTS.
  3. SEE CONTRACTION JOINT AND EXPANSION JOINT DETAILS.

**CONCRETE PAVEMENT SECTION DETAIL** 4  
NTS C3.2

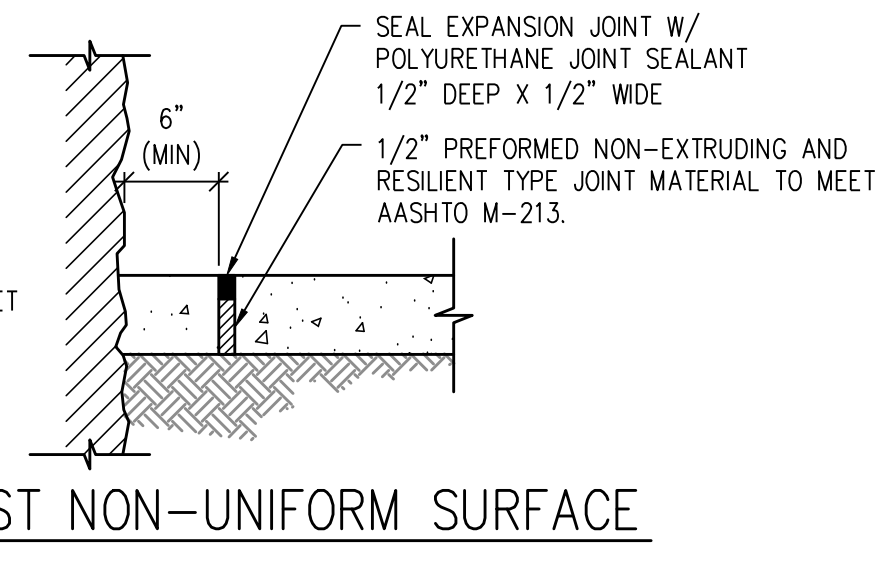


- NOTE:**  
CONTRACTION JOINTS AT 10' INTERVAL.

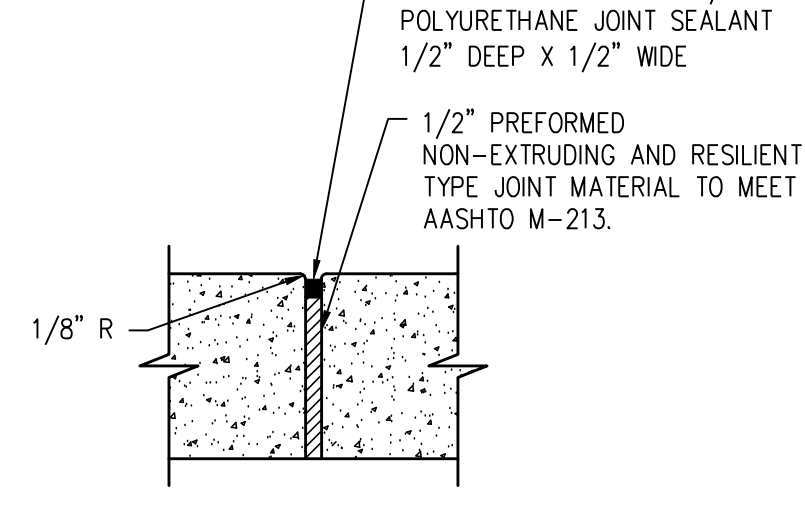
**CONTRACTION JOINT DETAIL** 5  
NTS REV DATE 01/2018 C3.2



**AGAINST STRUCTURE**



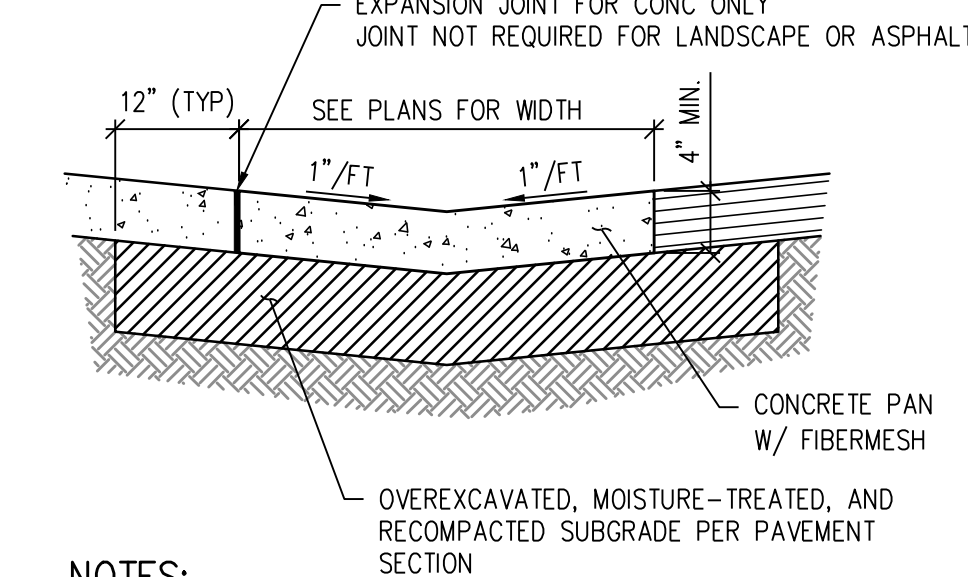
**AGAINST NON-UNIFORM SURFACE**



**SIDEWALK**

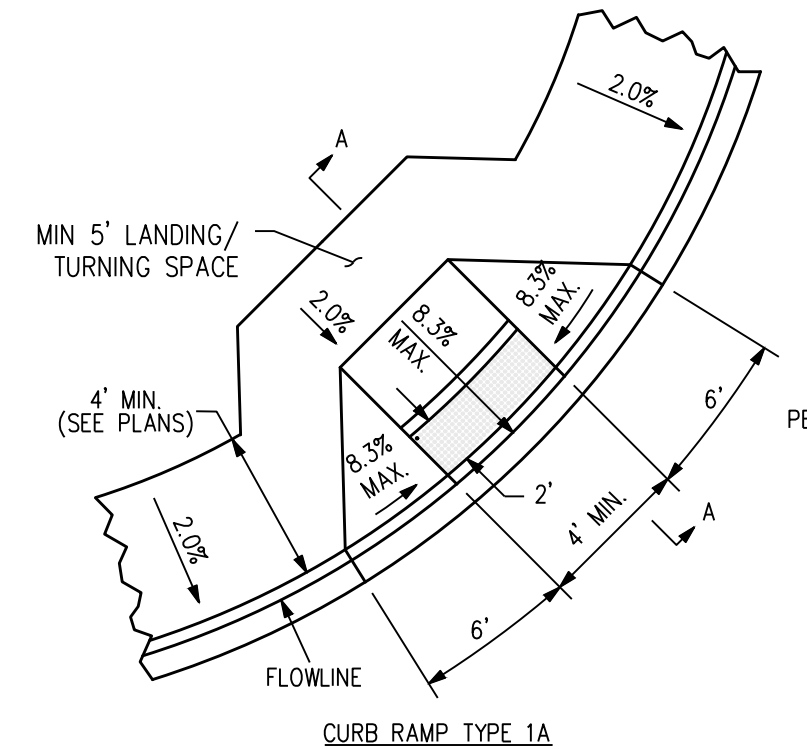
- NOTES:**
1. EXPANSION JOINTS EVERY 100' MAX AND WHEREVER SIDEWALK ABUTS EXISTING & PROPOSED CONCRETE STRUCTURES (TYP) - SEE PLAN
  2. REMOVE PLASTIC FORMING MATERIAL ("ZIP STRIPS") FROM PREFORMED JOINT MATERIAL PRIOR TO PLACING SEALANT

**EXPANSION JOINT DETAIL** 6  
NTS C3.2

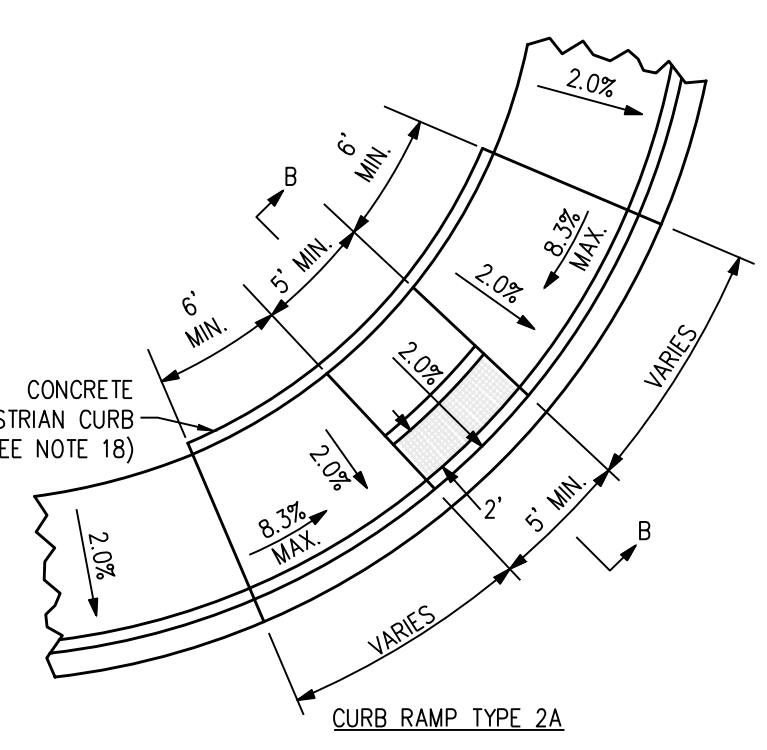


- NOTES:**
1. THIS PAN IS FOR USE AT NON-DRIVE AREAS ONLY.
  2. SEE PLANS FOR INVERT ELEVATIONS AND HORIZONTAL CONTROLS.
  3. SEE THIS SHEET FOR CONTRACTION AND EXPANSION JOINT DETAILS.
  4. PROVIDE JOINT LAYOUT PLAN TO OWNER FOR APPROVAL PRIOR TO CONSTRUCTION. JOINTS TO MATCH ADJOINING SIDEWALK.

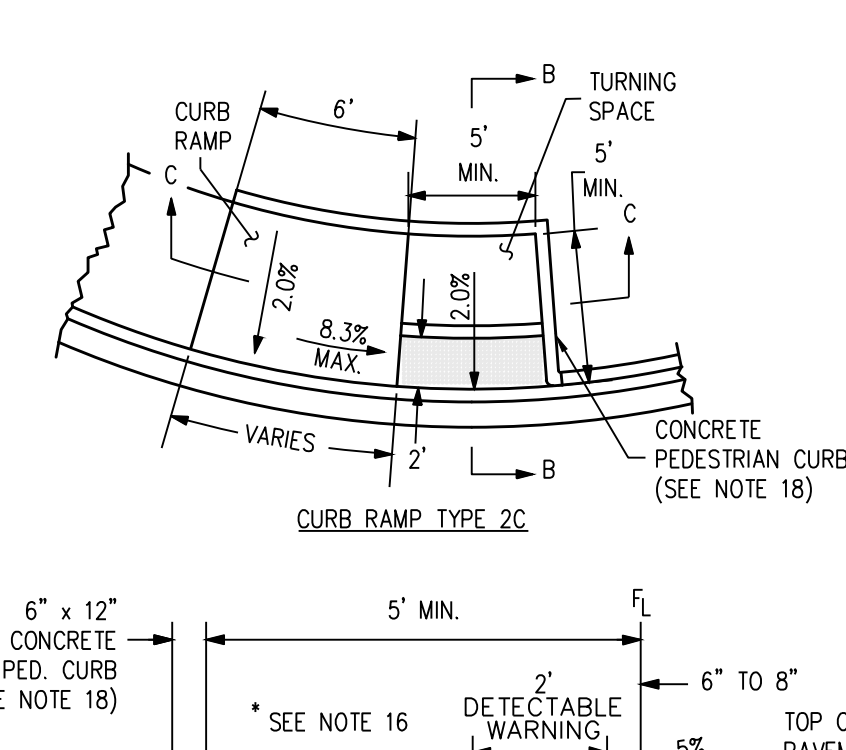
**CONCRETE PAN DETAIL** 9  
NTS C3.1



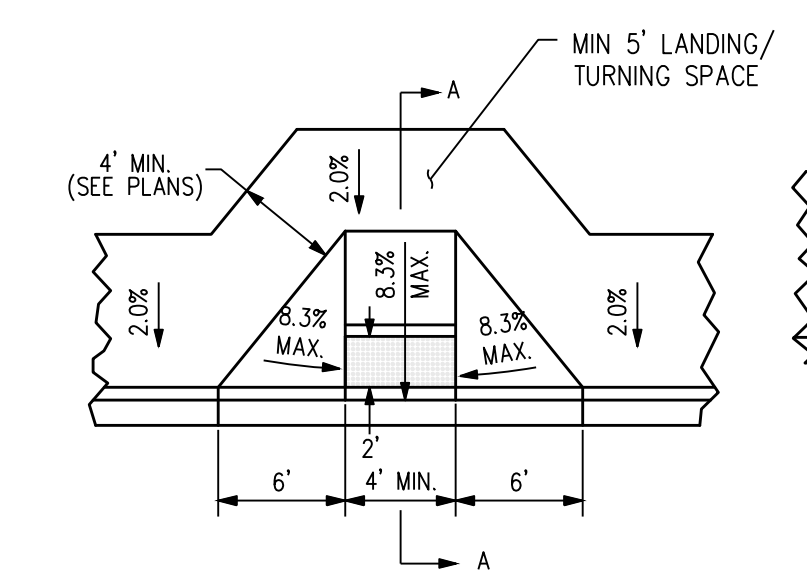
**CURB RAMP TYPE 1A**  
SEE NOTE 9.



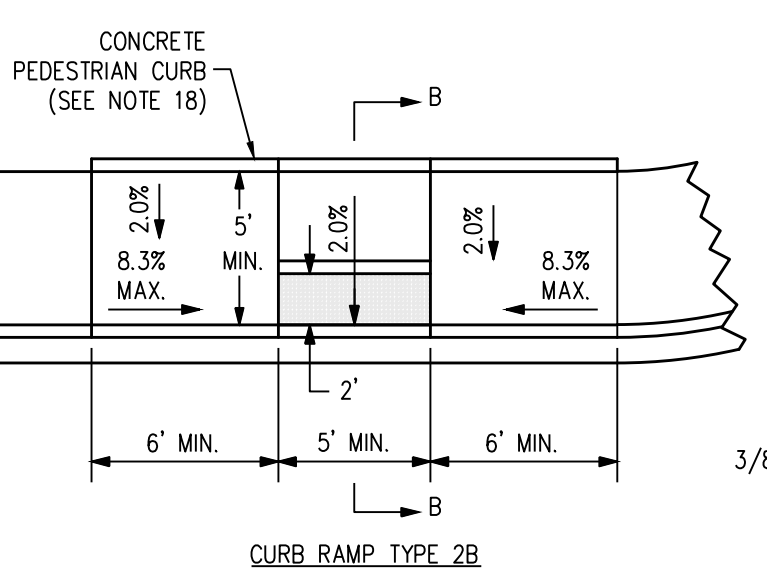
**CURB RAMP TYPE 2A**  
SEE NOTE 9.



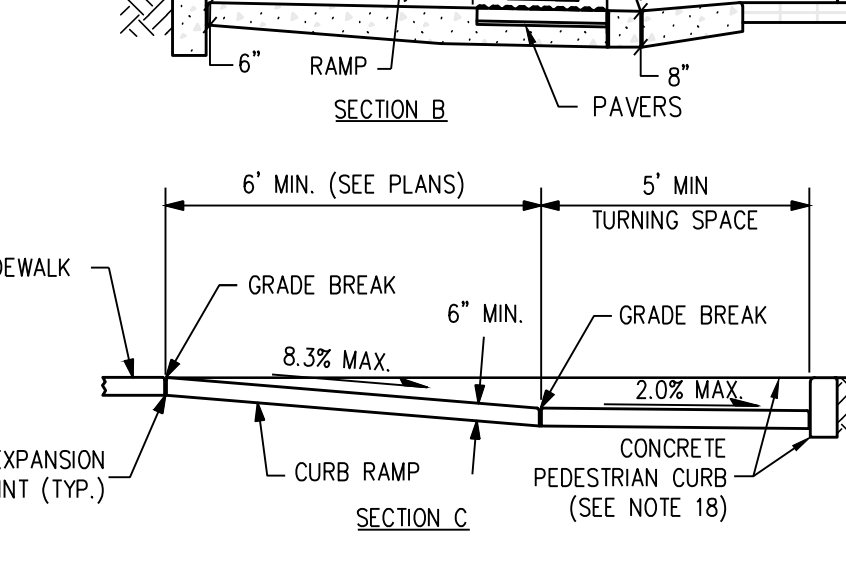
**CURB RAMP TYPE 2C**  
SEE NOTE 18.



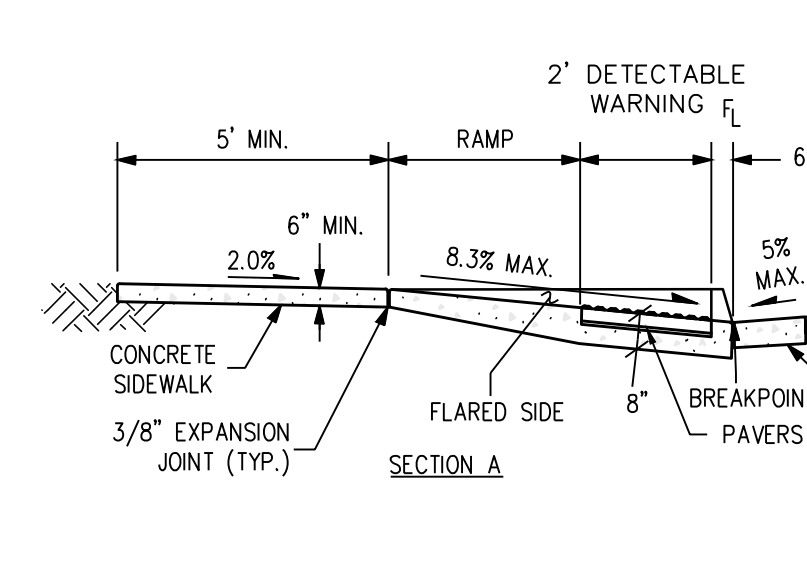
**CURB RAMP TYPE 1B DETAIL**



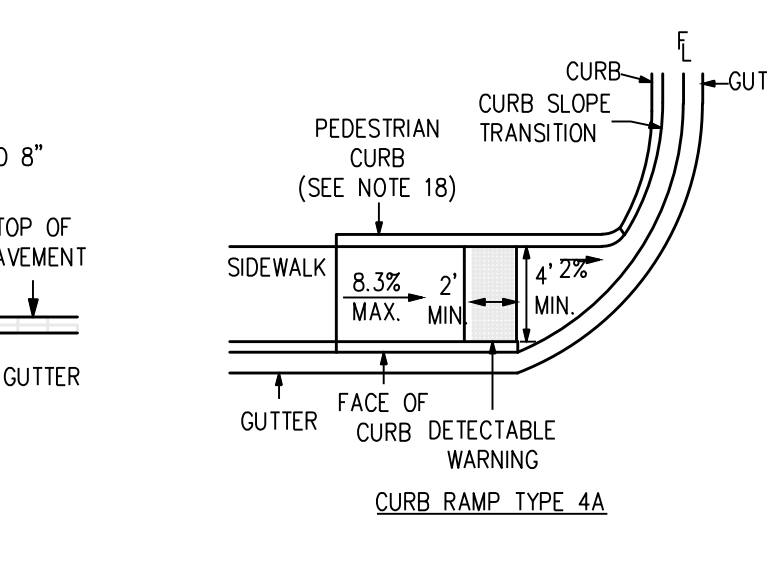
**CURB RAMP TYPE 2B**



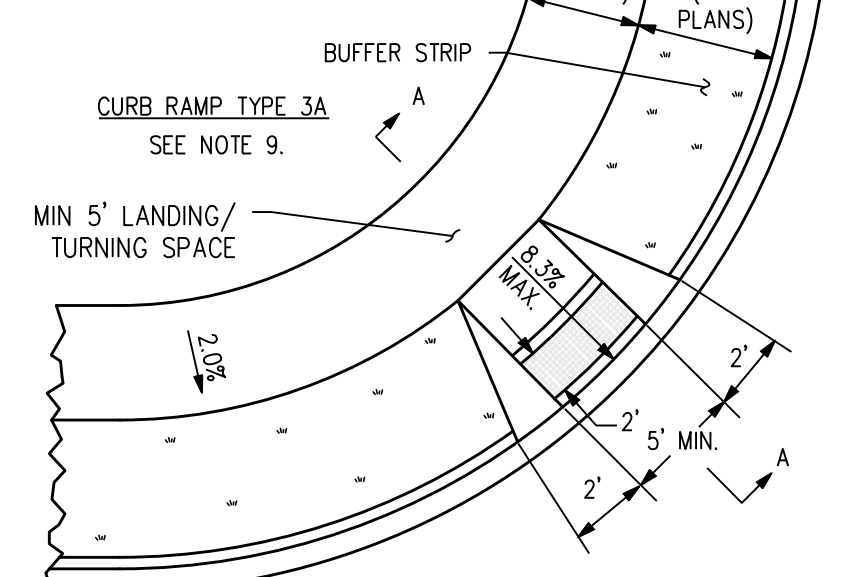
**CURB RAMP TYPE 2C**



**CURB RAMP TYPE 3A**  
SEE NOTE 9.



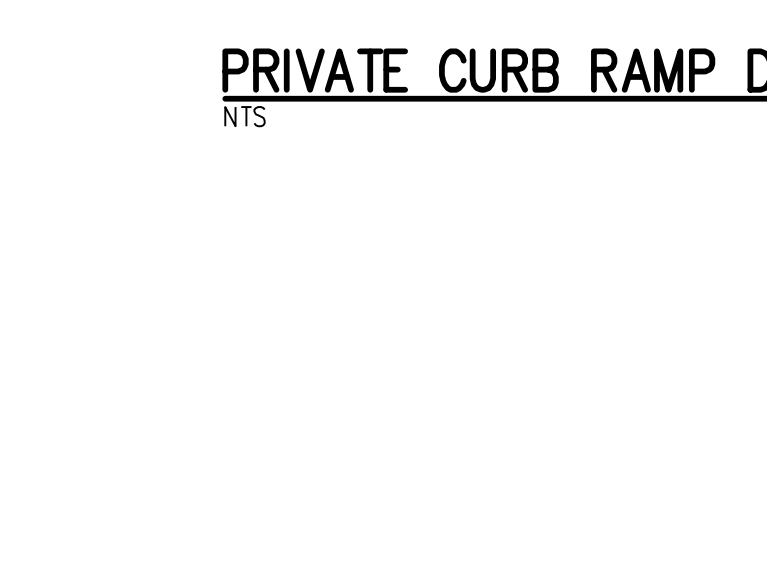
**CURB RAMP TYPE 3B**  
SEE NOTE 9.



**CURB RAMP TYPE 3C**  
SEE NOTE 9.



**CURB RAMP TYPE 4A**  
SEE NOTE 9.



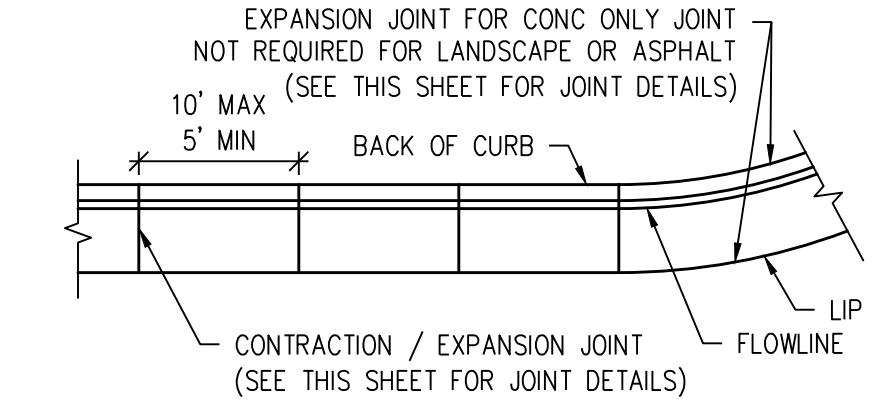
**CURB RAMP TYPE 4B**  
SEE NOTE 9.



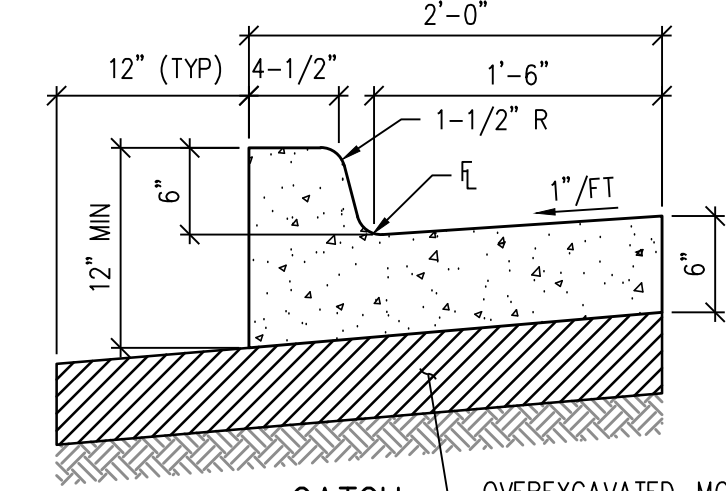
**CURB RAMP TYPE 4C**  
SEE NOTE 9.

**PRIVATE CURB RAMP DETAIL** 7  
NTS C3.2

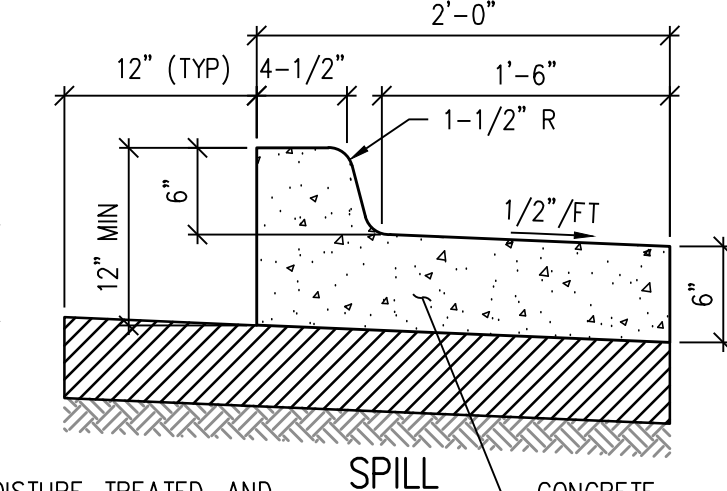
- NOTES:**
1. ALL DETECTABLE WARNING SURFACES SHALL BE INSTALLED AT SIDEWALK TO STREET TRANSITIONS THEY SHALL HAVE A TRUNCATED DOME SURFACE. THE DOMES SHALL BE IN A SQUARE GRID PATTERN AND ALIGNED WITH PEDESTRIAN TRAFFIC. THE DETECTABLE WARNINGS SHALL BE CONTRASTING COLOR TO THE SURROUNDING SIDEWALK.
  2. ALL DETECTABLE WARNING SURFACES SHALL START A MINIMUM OF 6 INCHES FROM THE FLOWLINE OF THE CURB AND NOT BE MORE THAN A MAXIMUM OF 8 INCHES FROM ANY POINT ON THE FLOWLINE OF THE CURB, WITH EXCEPTION FOR TYPES 1B MODIFIED AND 3B MODIFIED CURB RAMP AS THIS DIMENSION MAY BE GREATER THAN 8 INCHES ON ONE SIDE OF THE RADIUS.
  3. THE RAMP SLOPE AND DETECTABLE WARNING SURFACE SHALL BE 8.3% OR FLATTER.
  4. RAMP SLOPE MAY NOT EXCEED 8.3% CROSS SLOPE MAY NOT EXCEED 2.0% MAXIMUM SLOPES MAY NOT BE EXCEEDED REGARDLESS OF TOLERANCES, EXCEEDING THE MAXIMUM SLOPE WILL NOT BE ACCEPTED. ADJUST ALL DIMENSIONS PER PLAN.
  5. THE MINIMUM WIDTH FOR SIDEWALK IS 4 FEET.
  6. DRAINAGE STRUCTURES, TRAFFIC SIGNAL EQUIPMENT, OR OTHER OBSTRUCTIONS SHALL NOT BE INSTALLED IN THE CURB RAMP OR TURNING SPACE AREAS.
  7. CONSTRUCTION OF THE CONCRETE PEDESTRIAN CURB SHALL BE INCLUDED IN THE BID PRICE OF THE CONCRETE CURB RAMP.
  8. IF THE PLACEMENT OF THE PEDESTRIAN PUSH BUTTON ASSEMBLY ON A TRAFFIC SIGNAL MAST POLE WILL NOT BE WITHIN EASY REACH (10 INCHES OR LESS AND UNOBSTRUCTED) OF ALL PEDESTRIANS (IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT), THEN A SEPARATE PEDESTRIAN PUSH BUTTON POST ASSEMBLY (PPBPA) SHALL BE INSTALLED WITHIN ADA REACH RANGES. THE PPBPA SHALL MEET THE PROVISIONS FOUND IN "SECTION 4E.08 THROUGH 4E.13 - PEDESTRIAN DETECTORS" OF THE 2009 MUTCD MANUAL WITH REVISIONS 1 AND 2.
  9. DIAGONAL CURB RAMP (ON THE APEX) ARE NOT PREFERRED IN NEW CONSTRUCTION A SINGLE DIAGONAL CURB RAMP (ON THE APEX) WILL ONLY BE PERMITTED DURING RECONSTRUCTION OR ALTERATION WHERE PHYSICAL OR SITE CONSTRAINTS PREVENT TWO CURB RAMP FROM BEING INSTALLED. THE ENGINEER SHALL PROVIDE APPROVED JUSTIFICATION DOCUMENTATION (CDOT CURB RAMP DESIGN VARIANCE REQUEST FORM) FOR CDOT PROJECTS. ALL CURB RAMP INSTALLED ON THE APEX MUST MEET THE STANDARDS AS DEFINED IN M-608-1.
  10. CURB RAMP (EXCLUDING FLARED SIDES OR BLENDED TRANSITIONS) SHALL BE WHOLLY CONTAINED WITHIN THE WIDTH OF THE CROSSWALK AND/OR THE PEDESTRIAN STREET CROSSING THEY SERVE.
  11. ALL CURB RAMP JOINTS AND GRADE BREAKS SHALL BE FLUSH (0" - 1/8"). THE JOINT BETWEEN THE ROADWAY SURFACE AND GUTTER PAN SHALL BE FLUSH.
  12. THE CONTRACTOR SHALL VERIFY REMOVAL LIMITS ARE SUFFICIENT TO PROVIDE POSITIVE DRAINAGE, MAINTAIN EXISTING DRAINAGE PATTERNS, AND AVOID PONDING IN THE FINAL CONFIGURATION.
  13. TO AVOID CHASING GRADE INDEFINITELY WHEN TRAVERSING THE HEIGHT OF CURB, THE RAMP LENGTH SHALL NOT EXCEED 15 FEET. ADJUST THE RAMP SLOPE AS NEEDED TO PROVIDE ACCESS TO THE MAXIMUM EXTENT TECHNICALLY FEASIBLE.
  14. THE CHANGE IN GRADE AT THE BOTTOM OF THE CURB RAMP AND ADJOINING ROAD SURFACE SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 13.33%. THE COUNTER SLOPE OF THE GUTTER OR ROAD AT THE FOOT OF A CURB RAMP, TURNING SPACE, OR BLENDED TRANSITION SHALL NOT EXCEED 5.0%.
  15. FLARED SIDE SLOPES MAY EXCEED 10% ONLY WHERE THEY ABUT A NON-WALKABLE SURFACE OR THE ADJACENT CIRCULATION PATH IS BLOCKED.
  16. THE STANDARD TURNING SPACE IS 5 FEET BY 5 FEET.
  17. CURB RAMP TYPE 1B, 2B, AND 3B MAY BE USED IN MID-BLOCK.
  18. THE PEDESTRIAN CURB IS REQUIRED UNLESS OTHERWISE SPECIFIED.
  19. FOR FULL DETAIL INCLUDING BAR LIST AND DIMENSION TABLE, SEE CDOT DETAIL M-604-1 SHEETS 1 THROUGH 10.
  20. REFER TO PLANS, DETAILS AND SPECIFICATIONS FOR FLATWORK INFORMATION, SUBGRADE PREPARATION, WALK WIDTHS, CONCRETE THICKNESS, ETC.



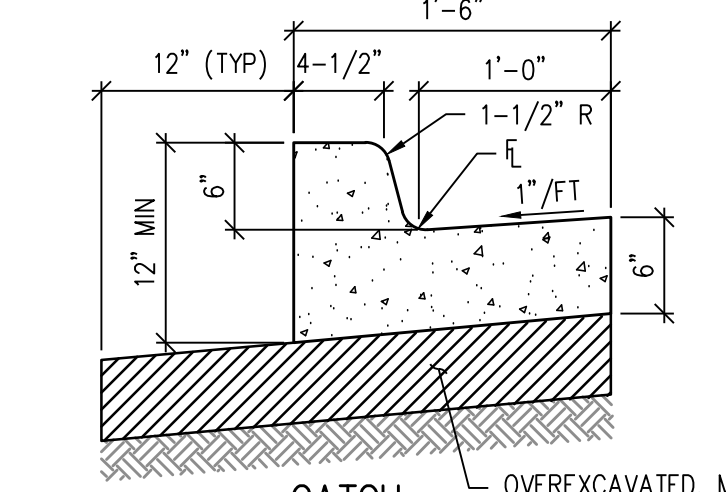
**1.5' CURB AND GUTTER**



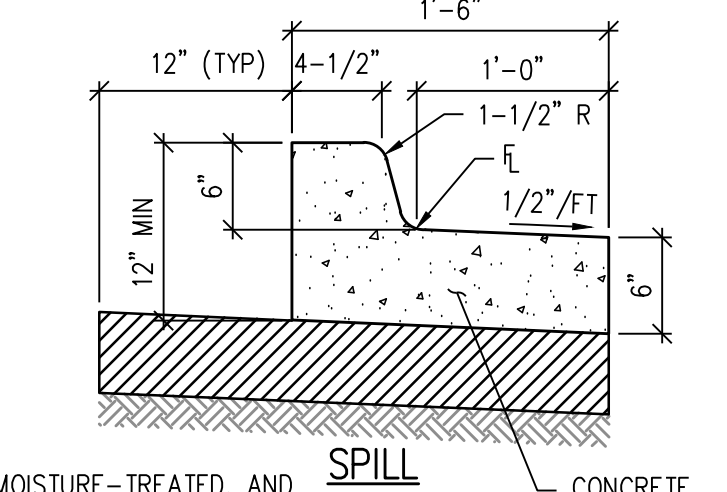
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**SPILL**

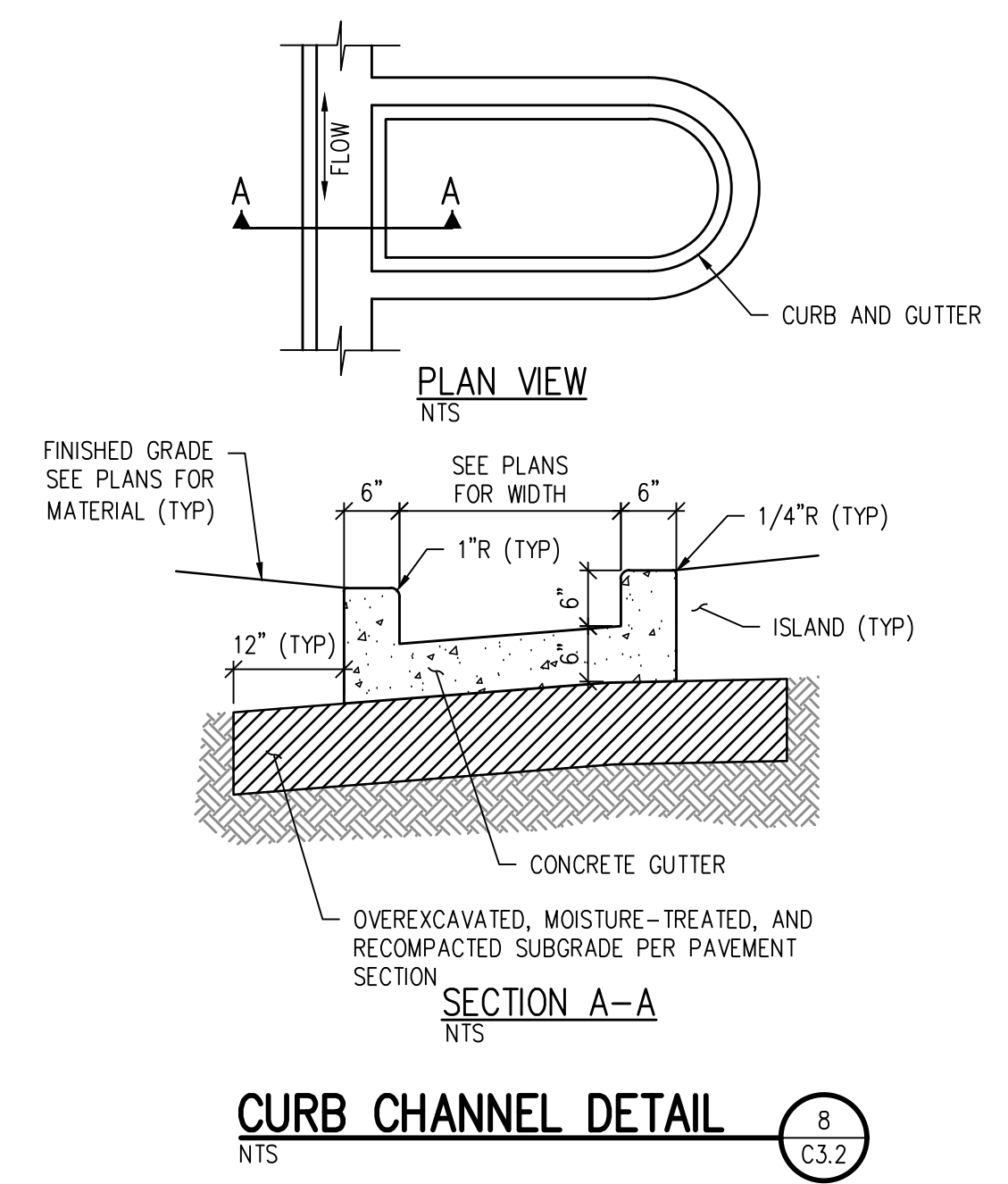
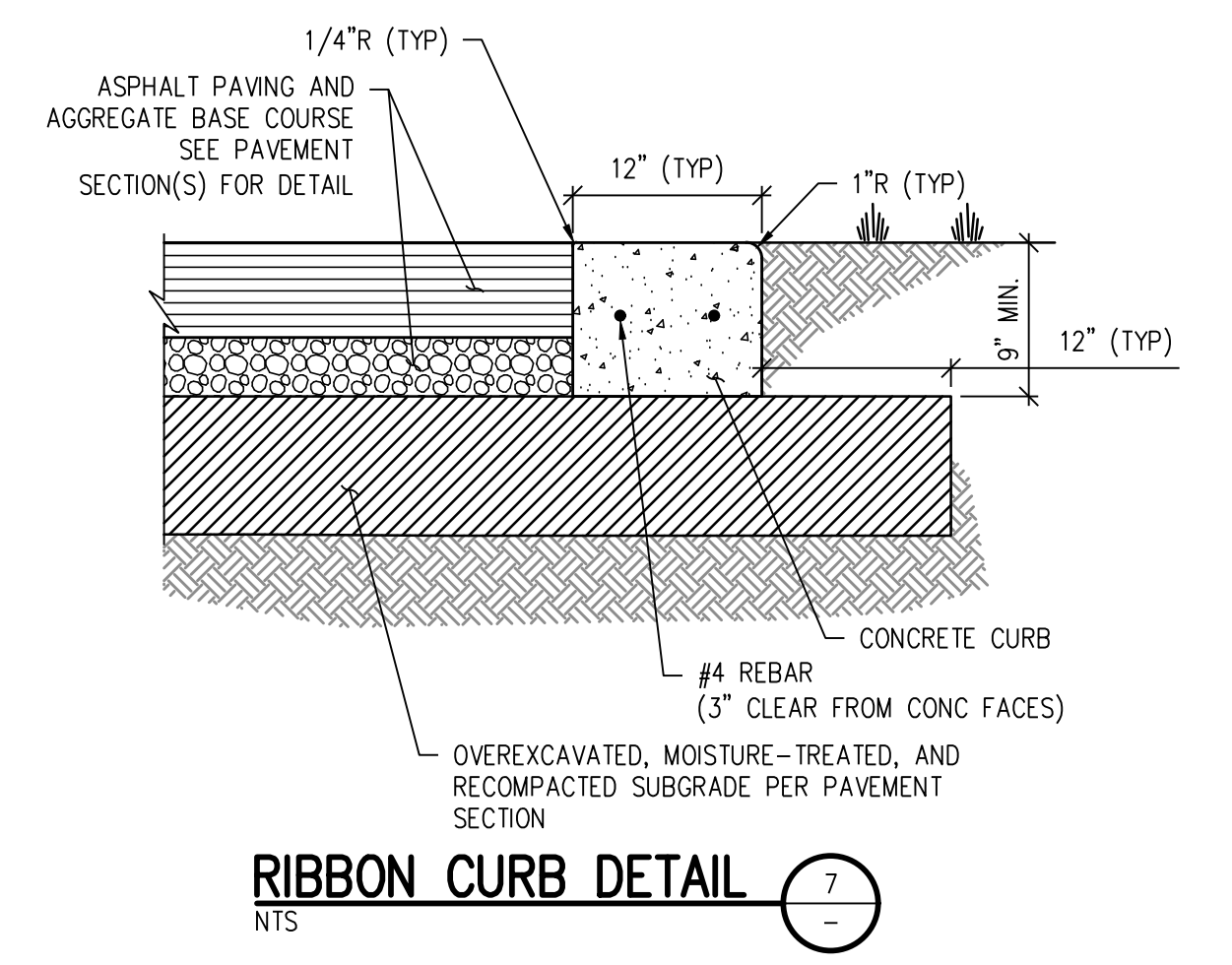
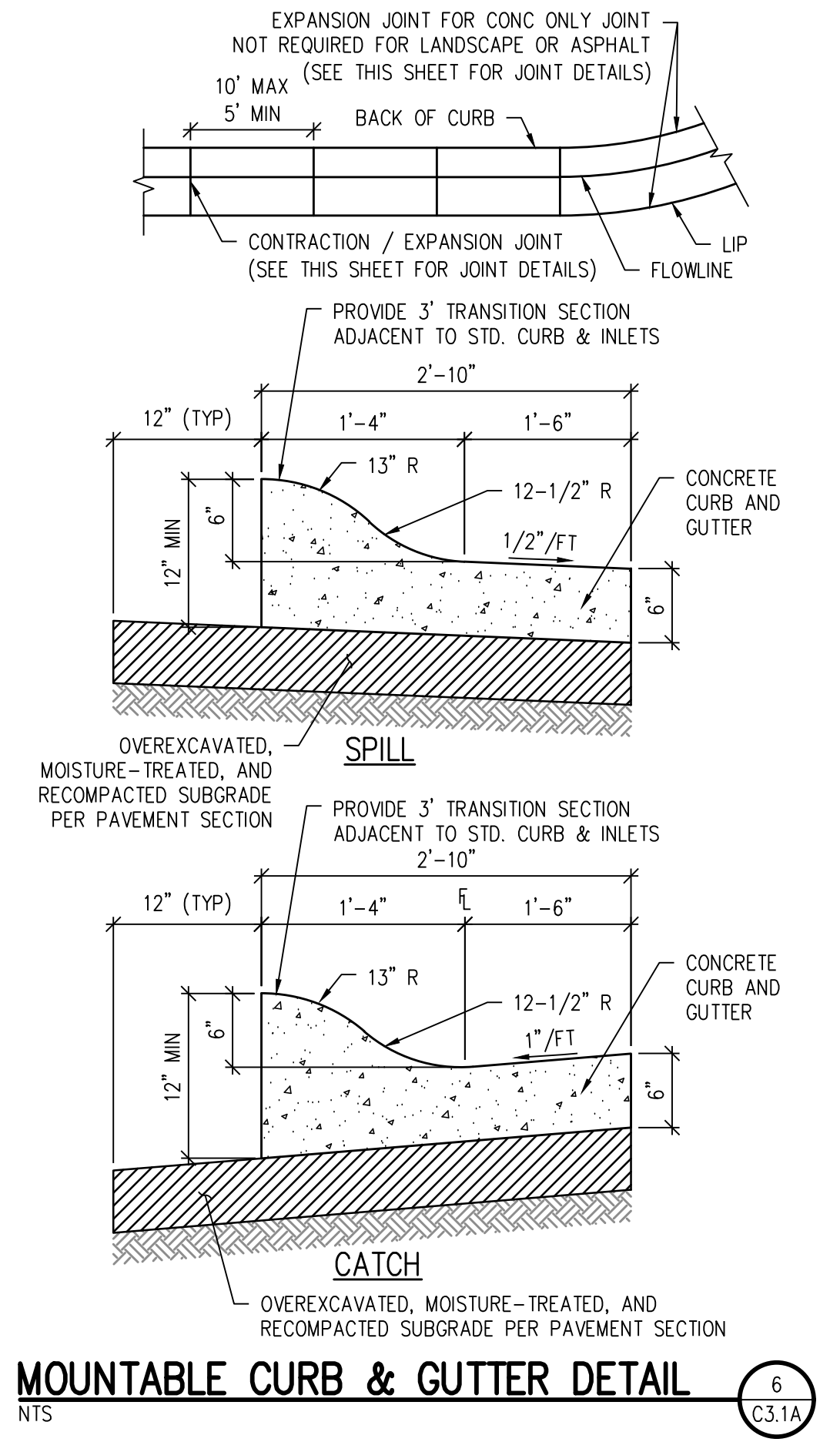
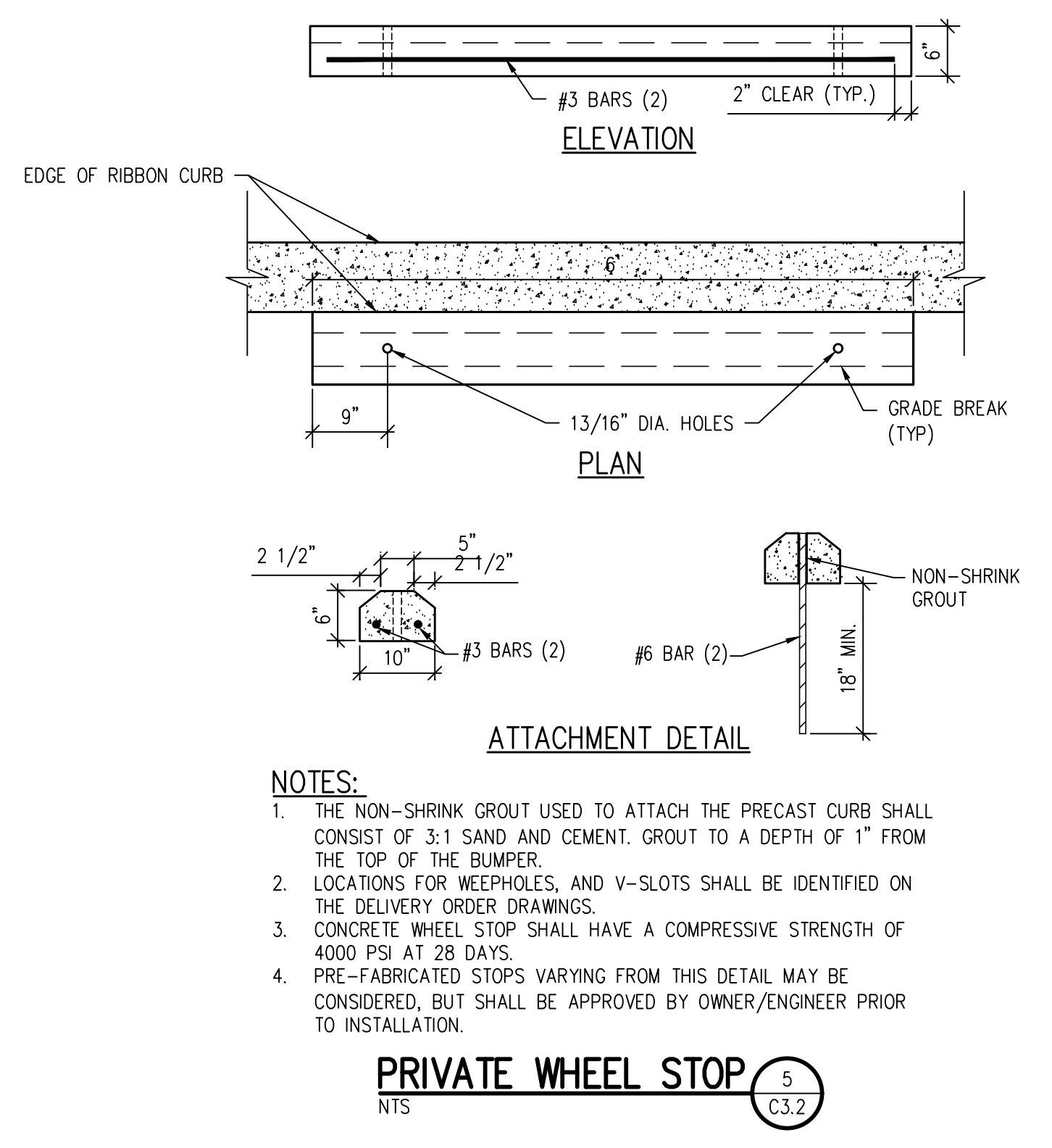
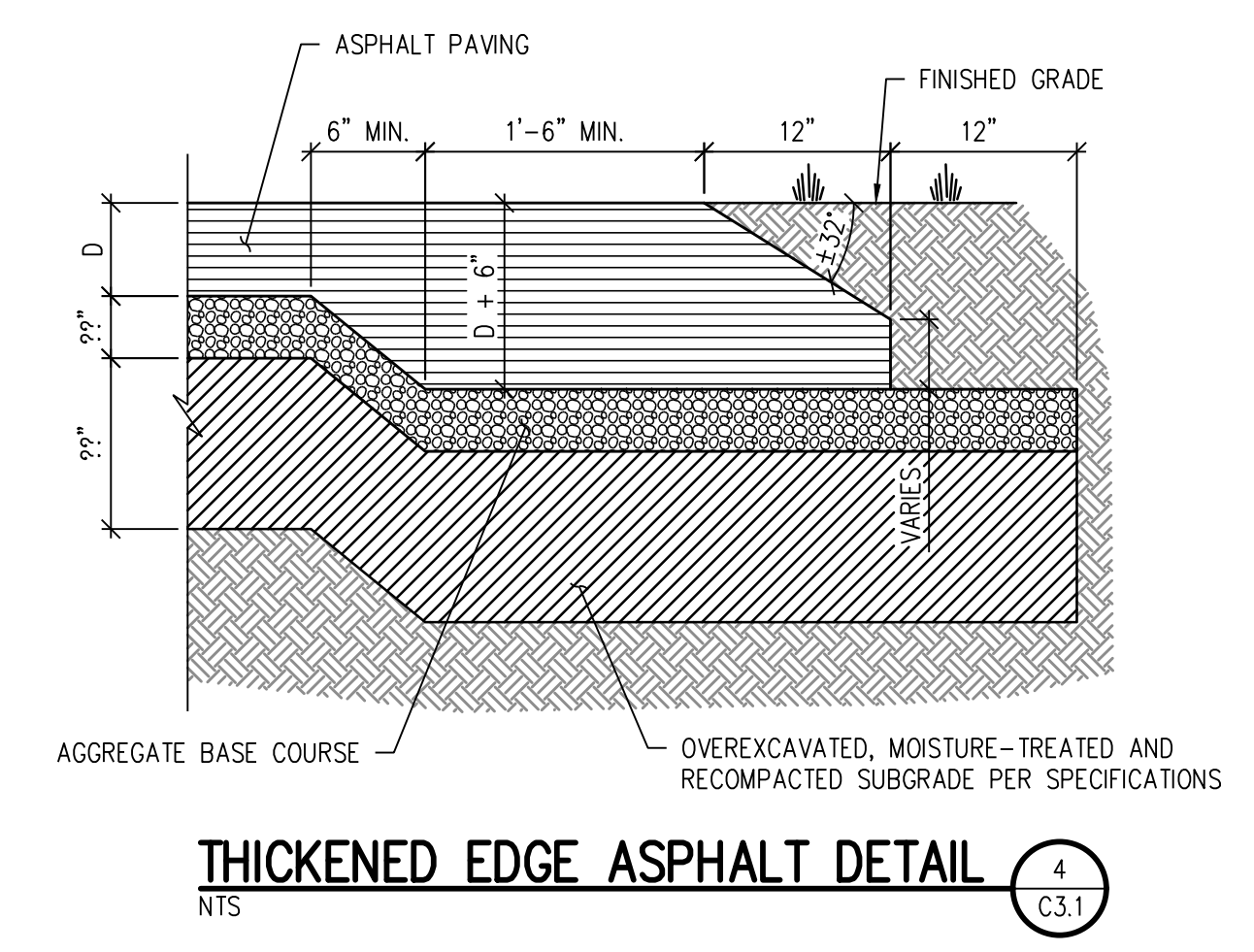
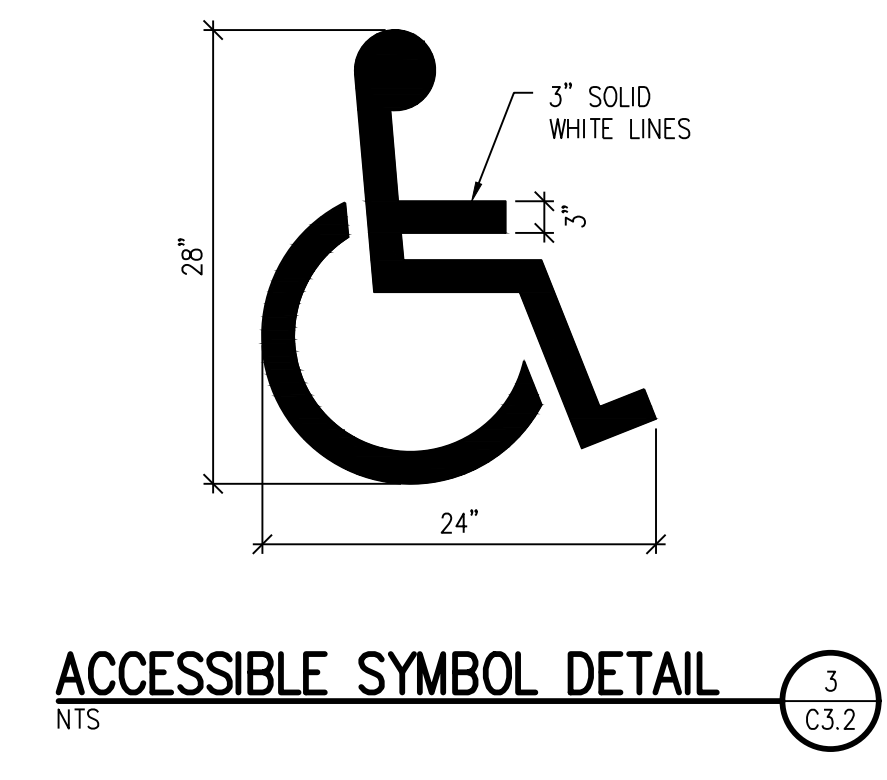
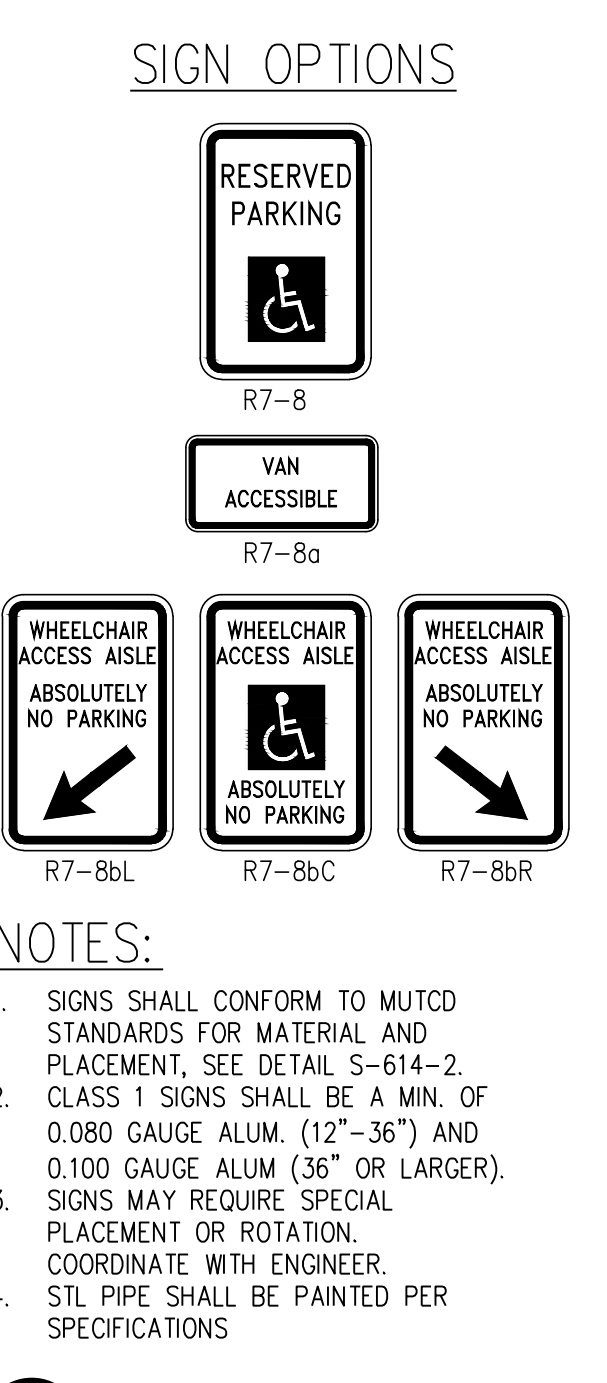
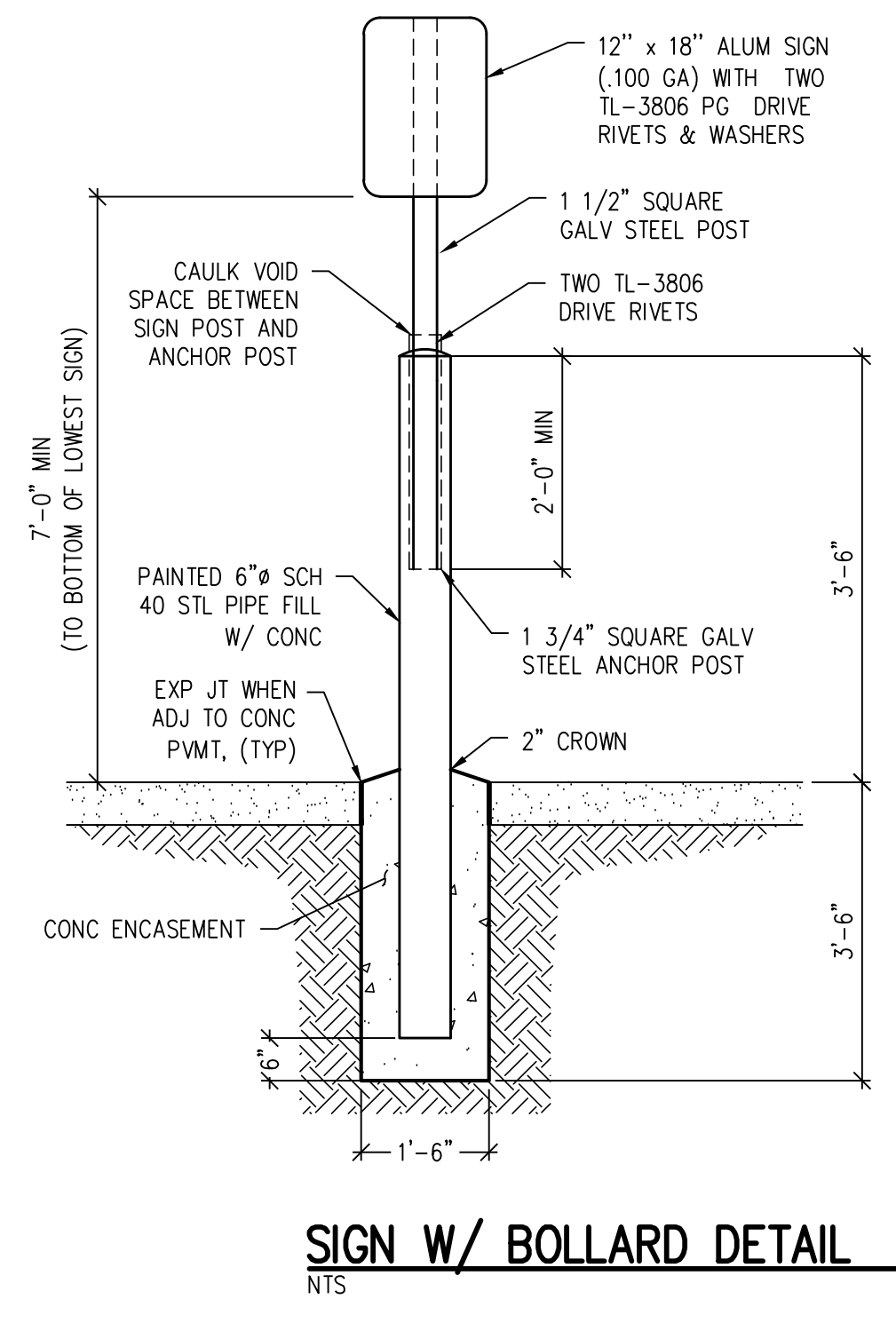
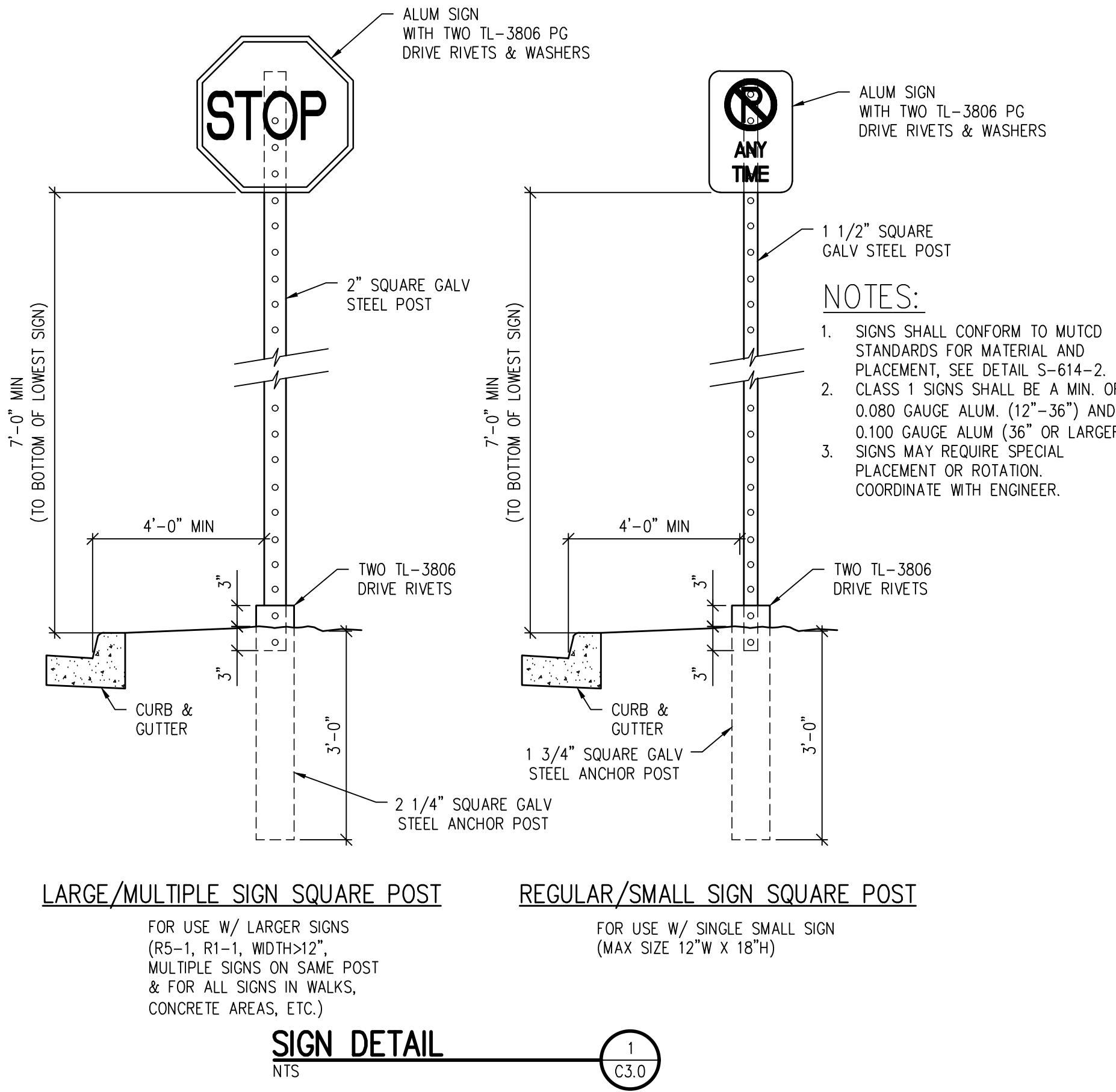


**CATCH**



**SPILL**

**PRIVATE CURB AND GUTTER DETAIL** 8  
NTS C3.2



**D49 TRANSPORTATION CENTER**  
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11971 SWINGLINE ROAD  
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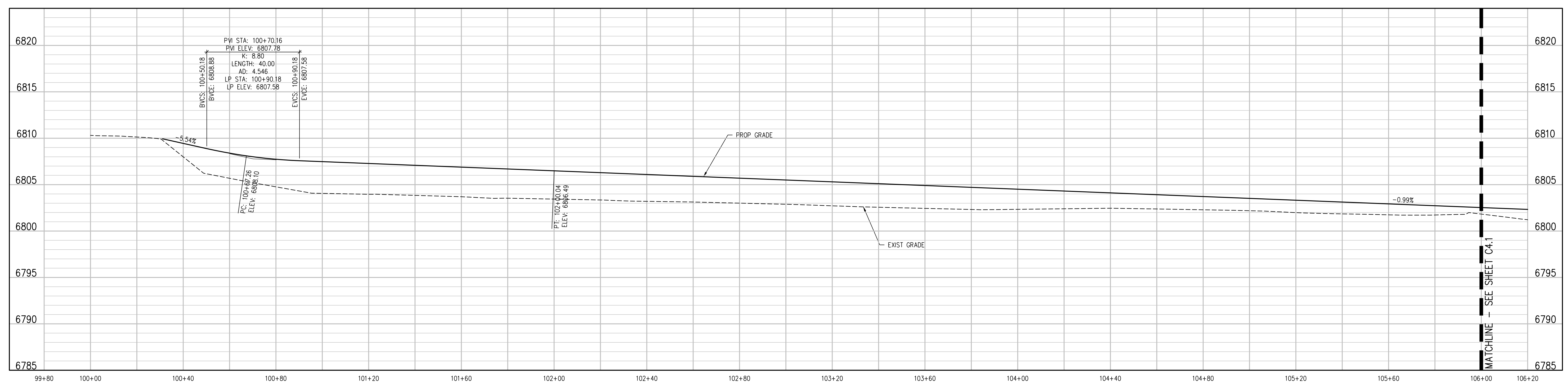
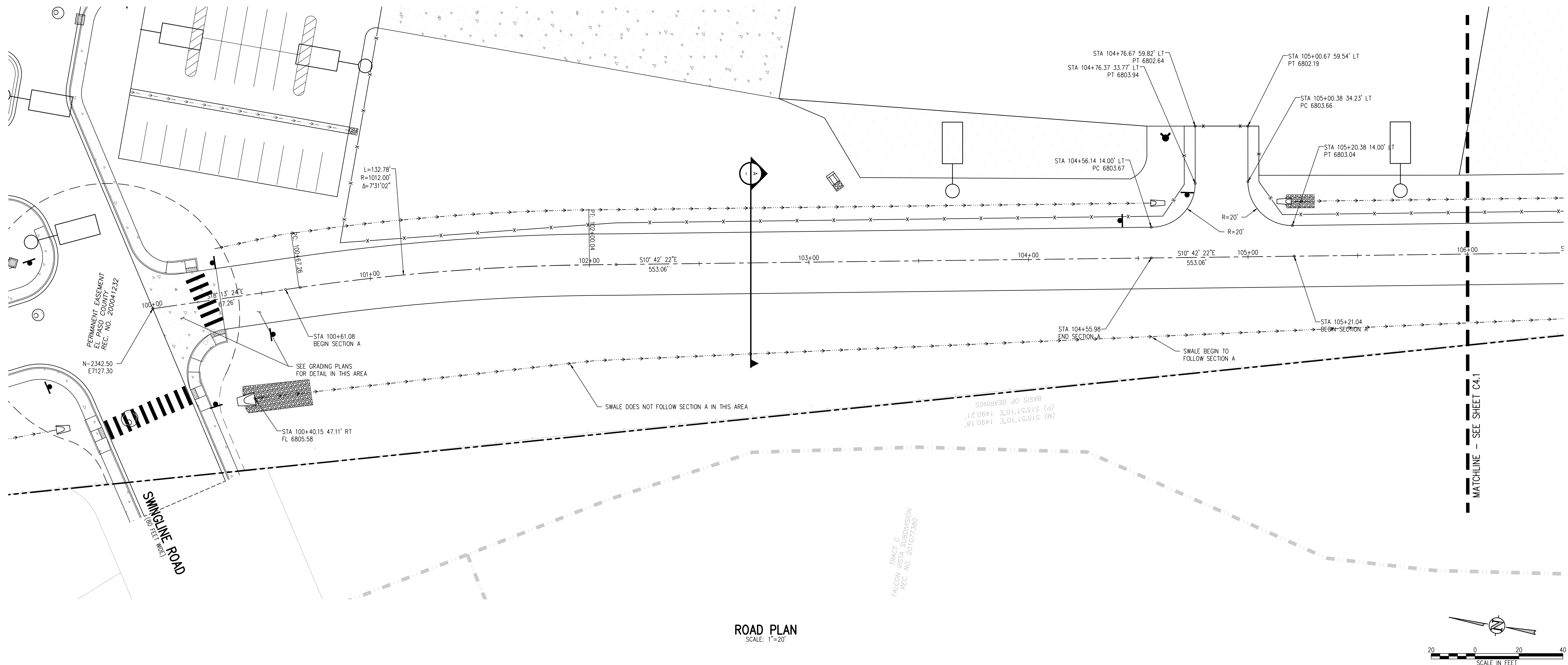


**HORIZONTAL CONTROL DETAILS**

WTA PROJECT NUMBER: **2021-041.00**  
DATE: **4/12/2023**

NO.	DATE	DESCRIPTION

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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**ROAD PLAN AND PROFILE**

WTA PROJECT NUMBER  
**2021-041-00**  
DATE  
**4/12/2023**

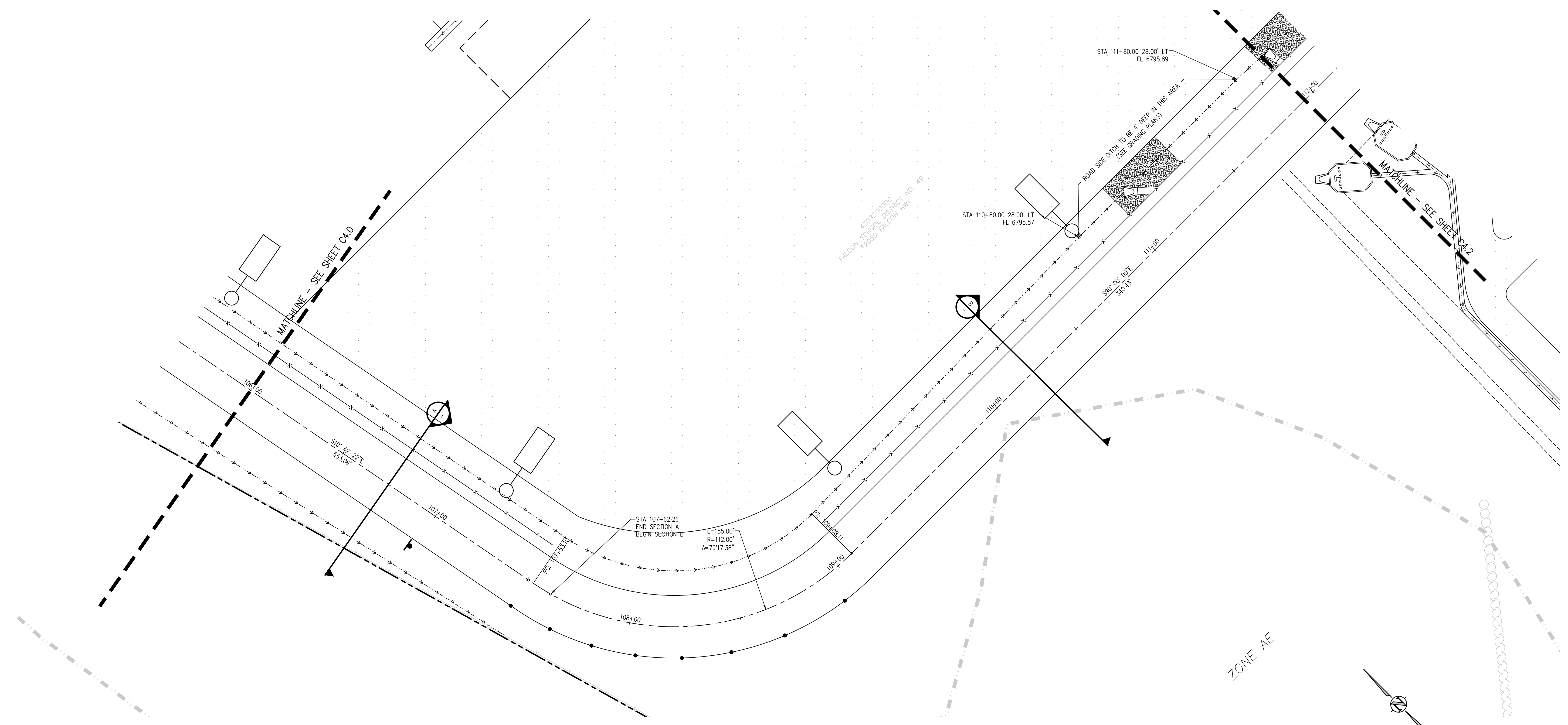
REVISIONS

#	DATE	DESCRIPTION

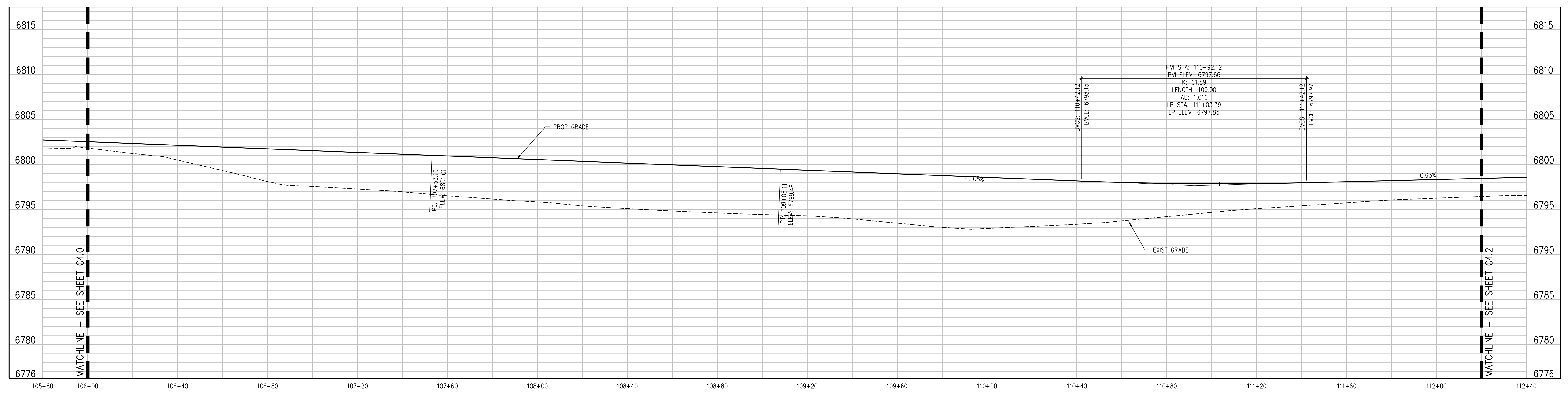
DESIGNED BY: **CWK/HCM**  
CHECKED BY: **TWK/AMB**  
DATE: **CWK**

ISSUED FOR  
**CONSTRUCTION DOCUMENTS**

**C4.0**



**GRAVEL ROAD PLAN**  
SCALE: 1"=20'



**ROAD PROFILE**  
SCALE: 1"=20' HORIZ  
1"=4' VERT

**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



**ROAD PLAN AND PROFILE**

WTA PROJECT NUMBER: **2021-041.00**  
DATE: **4/12/2023**

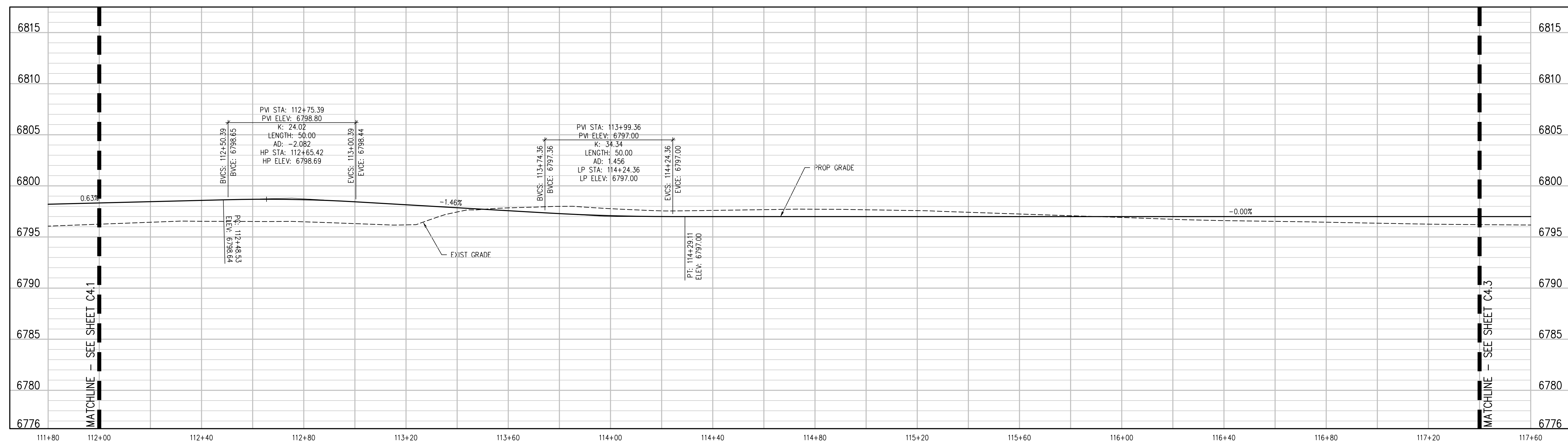
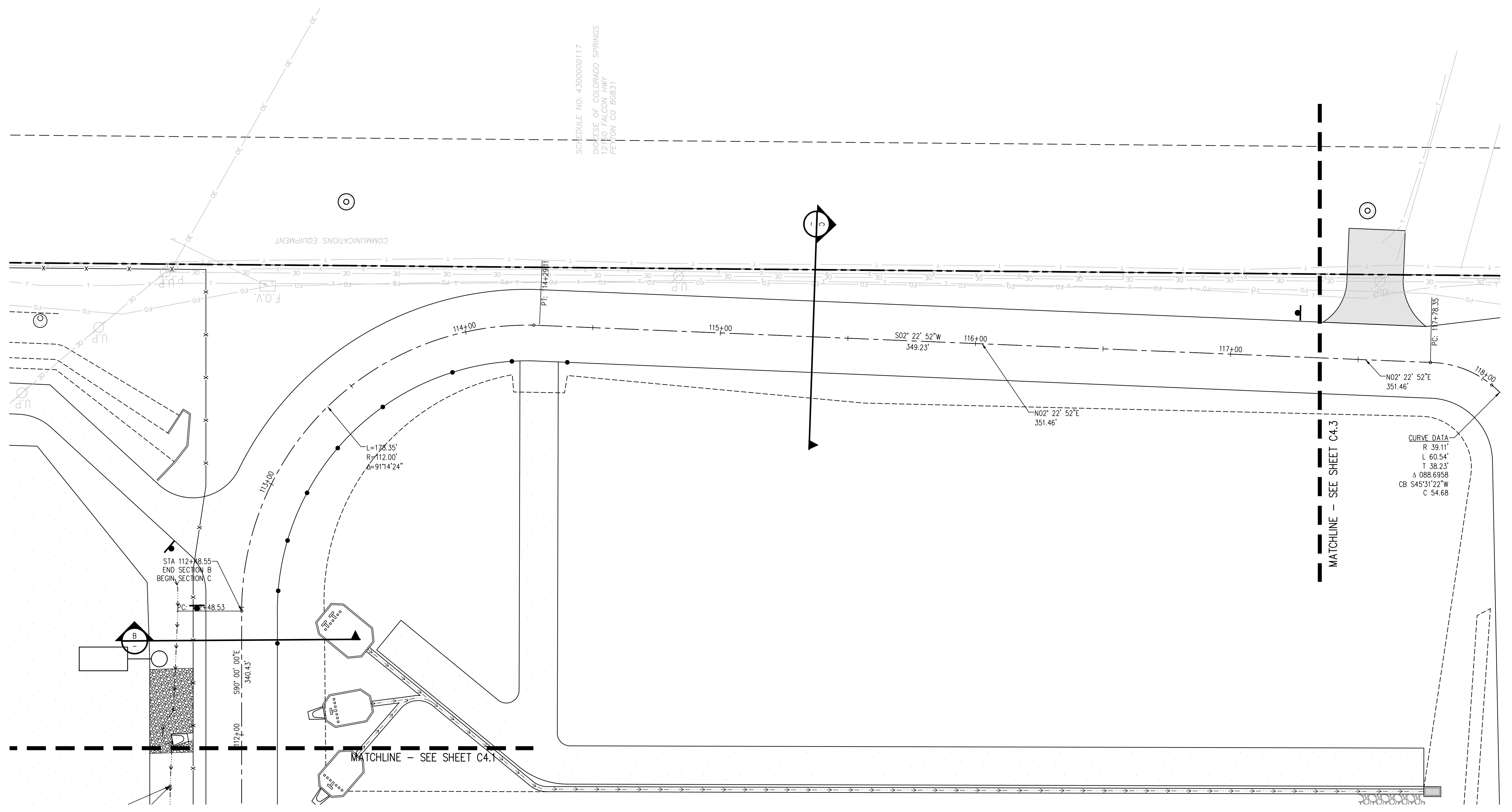
#	DATE	DESCRIPTION

DESIGNED BY: **CWK/HCM**  
CHECKED BY: **TWK/AMB**  
DATE: **CWK**

ISSUED FOR: **CONSTRUCTION DOCUMENTS**

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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**ROAD PLAN AND PROFILE**

WTA PROJECT NUMBER  
**2021-041.00**

DATE  
**4/12/2023**

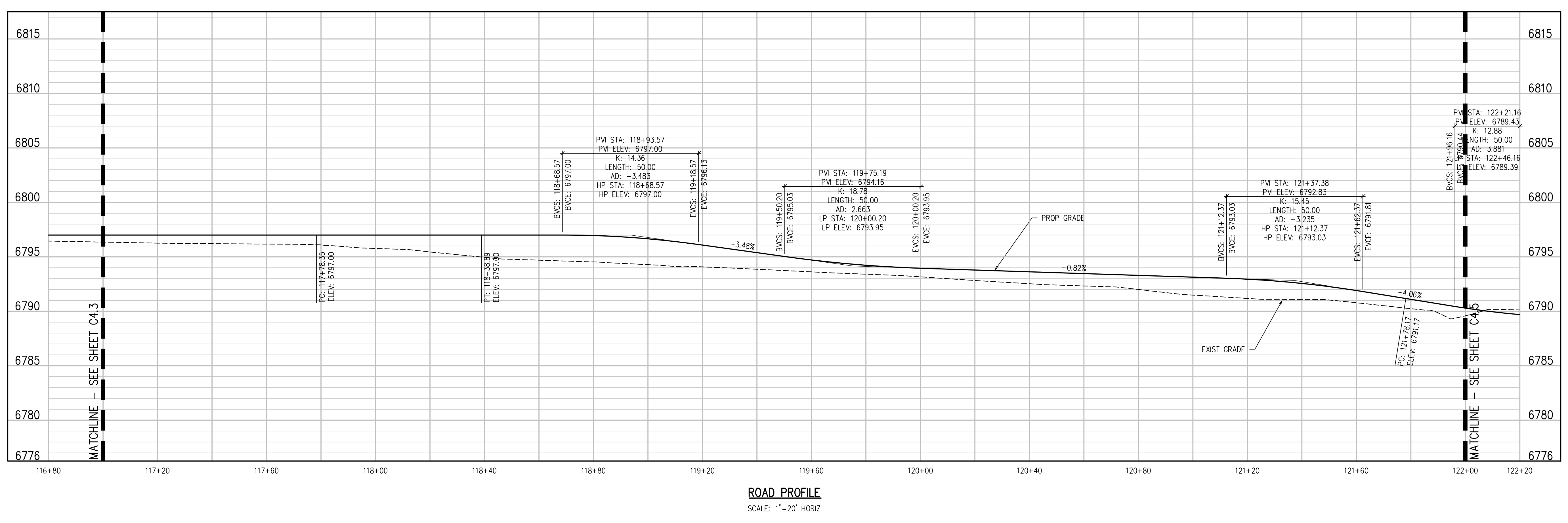
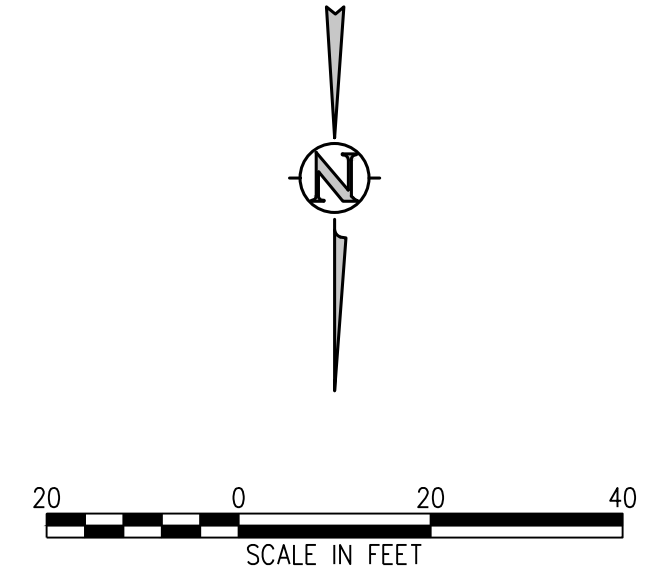
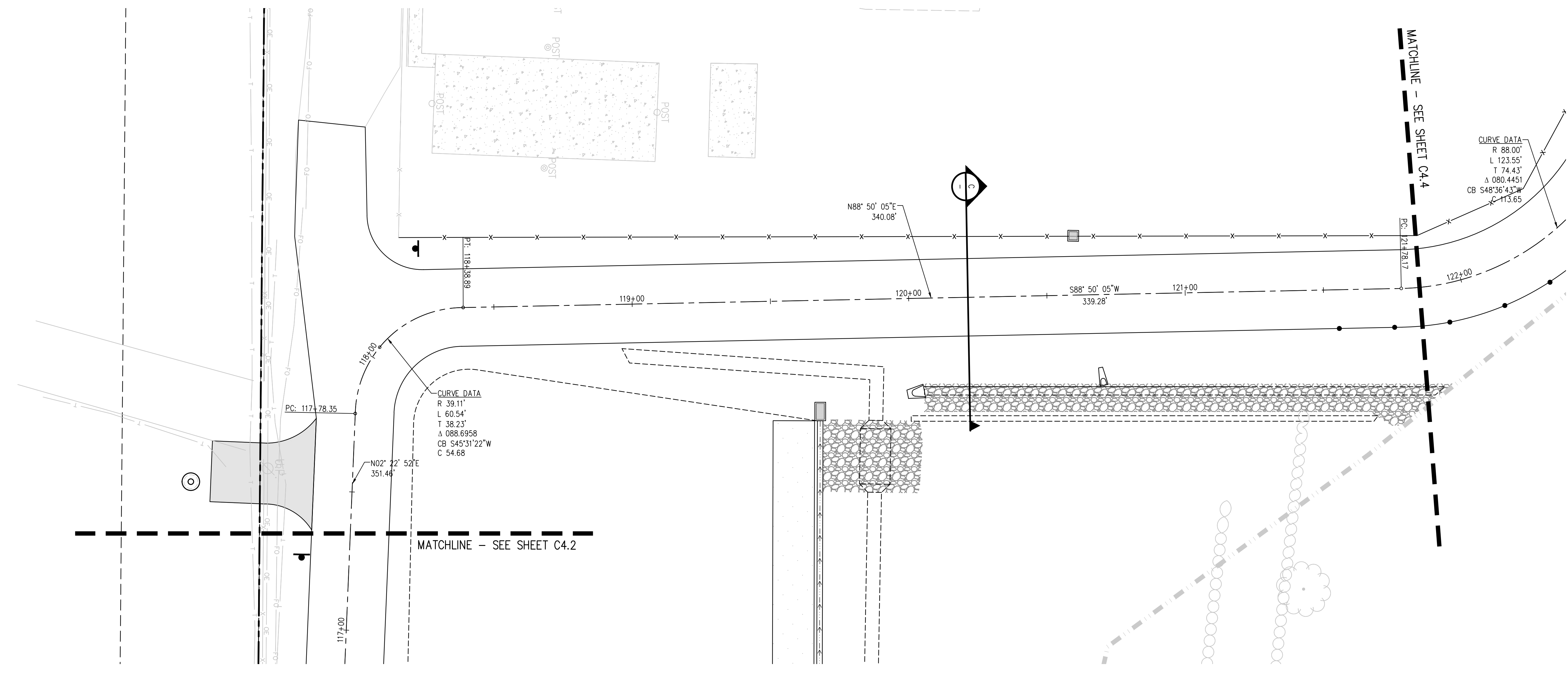
#	DATE	DESCRIPTION

DESIGNED BY: **CWK/HCM**  
DRAWN BY: **TWK/AMB**  
CHECKED BY: **CWK**

ISSUED FOR  
**CONSTRUCTION DOCUMENTS**

**C4.2**

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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831

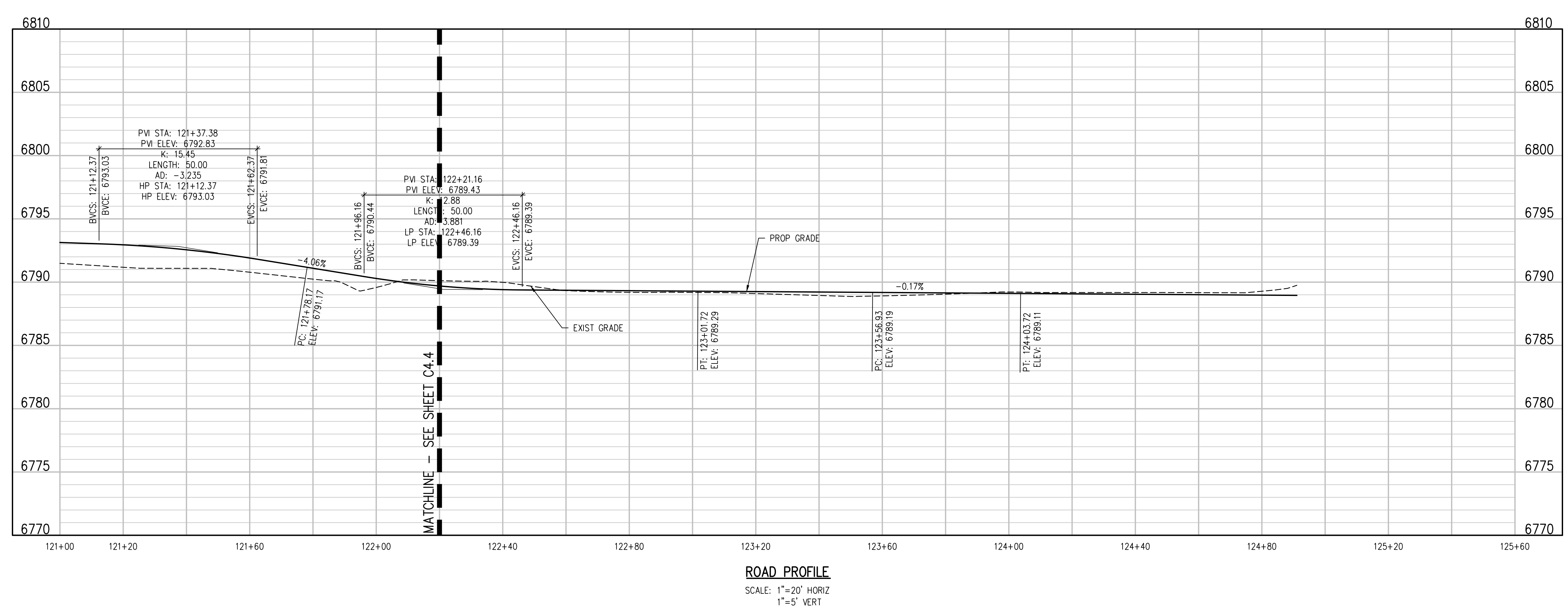
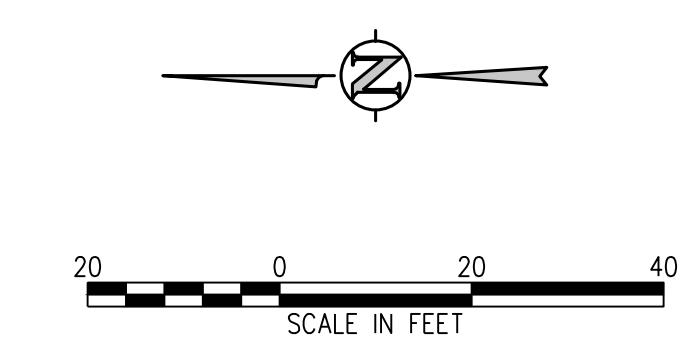
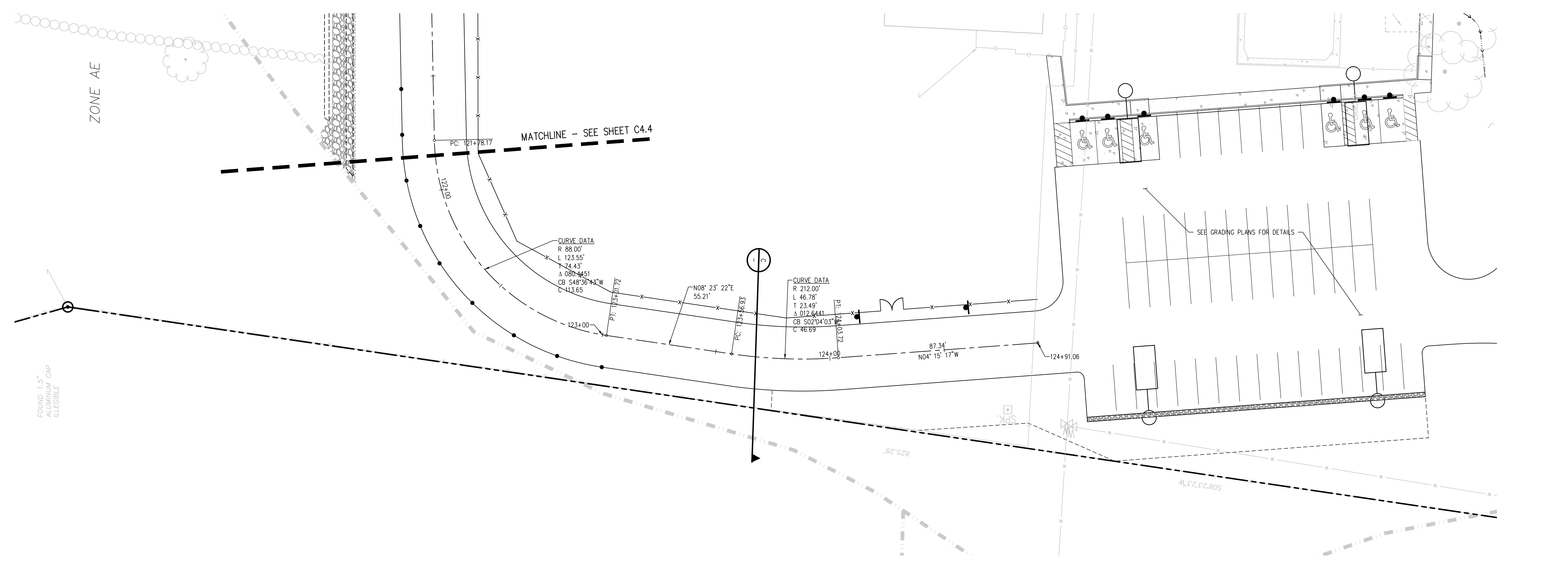


**ROAD PLAN AND PROFILE**

DATE: 4/12/2023  
PROJECT NUMBER: 2021-041-00

DESIGNED BY: T.W. AMB  
CHECKED BY: CWK

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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
11971 SWINGLINE ROAD  
PEYTON, CO 80831



SHEET TITLE  
**ROAD PLAN AND PROFILE**

WTA PROJECT NUMBER  
**2021-041.00**  
DATE  
**4/12/2023**

REVISIONS

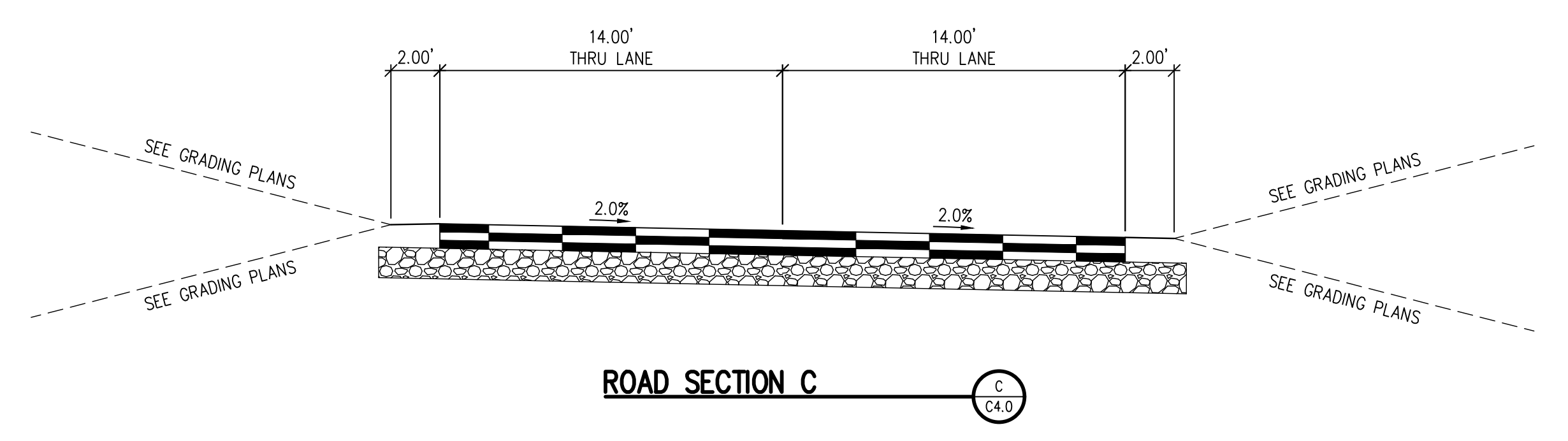
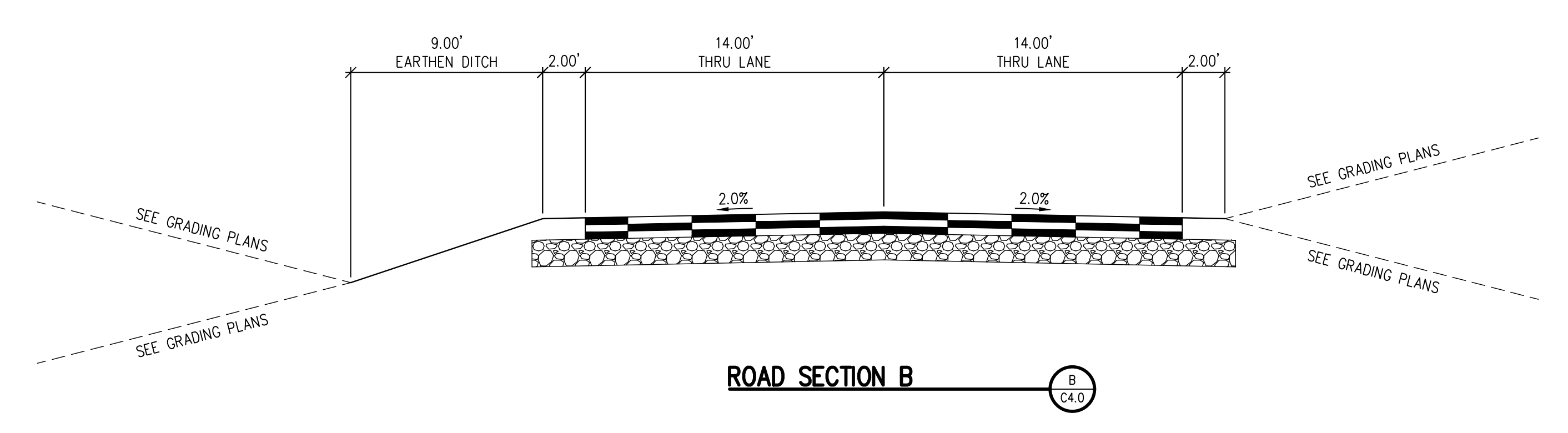
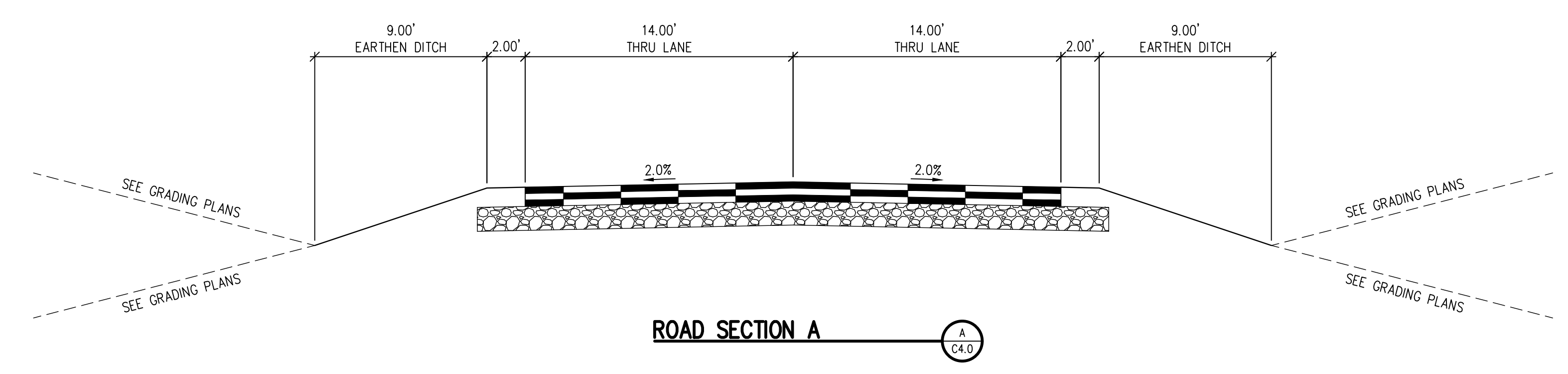
#	DATE	DESCRIPTION

DESIGNED BY: **CWK/HCM**  
DRAWN BY: **TWK/AMB**  
CHECKED BY: **CWK**

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**CONSTRUCTION DOCUMENTS**

**C4.4**

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**D49 TRANSPORTATION CENTER**  
**SCHOOL DISTRICT NO 49**  
 11971 SWINGLINE ROAD  
 PEYTON, CO 80831



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**ROAD SECTIONS**

RTA PROJECT NUMBER  
**2021-041.00**  
 DATE  
**4/12/2023**

#	DATE	DESCRIPTION

DESIGN APPROVAL: **CWK/HCM**  
 DRAWN BY: **TWK/AMB**  
 CHECKED BY: **CWK**

ISSUED FOR  
**CONSTRUCTION DOCUMENTS**  
 SHEET NO.  
**C4.5**