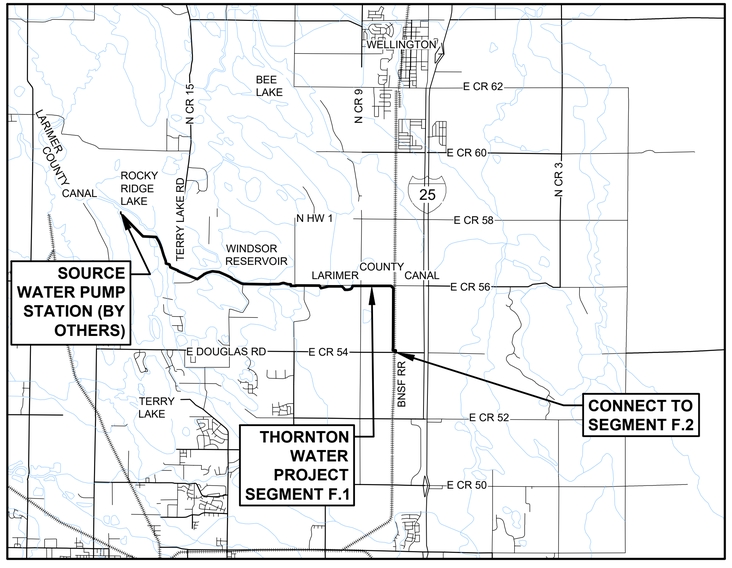
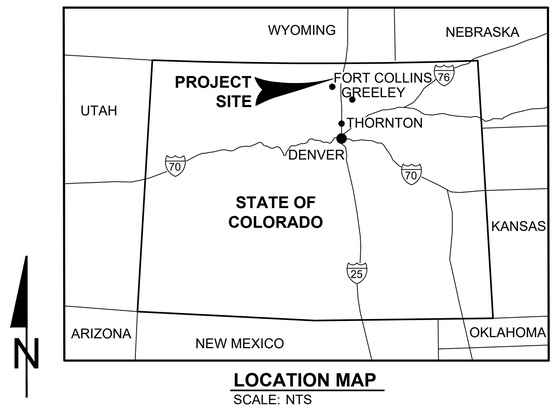
SEGMENT F.1

PROJECT NUMBER 12-777XF1

(VOLUME 1 OF 5)



VICINITY MAP
SCALE: NTS



LOCATION MAP
SCALE: NTS

APPROVALS

CITY OF THORNTON

JAMES KOEHLER, P.E., SEGMENT PROJECT MANAGER, CITY OF THORNTON — DATE

JOHN HIMYAK, P.E., THORNTON WATER PROJECT SUPERVISOR, CITY OF THORNTON — DATE

JASON PIERCE, P.E., THORNTON WATER PROJECT DIRECTOR, CITY OF THORNTON — DATE

TONY STOUT, P.E., OWNER ADVISOR, JACOBS ENGINEERING — DATE

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
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AUGUST 13, 2026

TWP SEGMENT F.1

COVER SHEET

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	1 OF 90
DRAWING:	G-001

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\900 CAD\02 - Sheets\G\240009_G-001-005.dwg USER: matthewb
DATE: Aug 13, 2026 12:18pm XREFS: 240009_TTB

DRAWING LIST

SHEET	DRAWING	DESCRIPTION
GENERAL (G)		
1	G-001	COVER SHEET
2	G-002	DRAWING LIST AND GENERAL NOTES
3	G-003	SYMBOLS AND ABBREVIATIONS
4	G-004	UTILITY, RAILROAD, AND DITCH CROSSING NOTES
5	G-005	LARIMER COUNTY NOTES
6	G-101	SURVEY CONTROL
7	G-102	SHEET INDEX, PROPERTY OWNERS, AND ACCESS MAP
8	G-103	UNDERGROUND UTILITY SCHEDULE
9	G-104	GEOTECHNICAL BORING LOCATIONS & RAPTOR BUFFERS
PLAN AND PROFILE (PP)		
10	PP-001	HYDRAULIC / CONDENSED PROFILE
11	PP-101	PLAN AND PROFILE STA 10+00 TO STA 14+00
12	PP-102	PLAN AND PROFILE STA 14+00 TO STA 24+00
13	PP-103	PLAN AND PROFILE STA 24+00 TO STA 36+00
14	PP-104	PLAN AND PROFILE STA 36+00 TO STA 47+00
15	PP-105	PLAN AND PROFILE STA 47+00 TO STA 58+00
16	PP-106	PLAN AND PROFILE STA 58+00 TO STA 71+00
17	PP-107	PLAN AND PROFILE STA 71+00 TO STA 82+00
18	PP-108	PLAN AND PROFILE STA 82+00 TO STA 94+00
19	PP-109	PLAN AND PROFILE STA 93+00 TO STA 106+00
20	PP-110	PLAN AND PROFILE STA 106+00 TO STA 118+00
21	PP-111	PLAN AND PROFILE STA 118+00 TO STA 130+00
22	PP-112	PLAN AND PROFILE STA 130+00 TO STA 142+00
23	PP-113	PLAN AND PROFILE STA 142+00 TO STA 153+00
24	PP-114	PLAN AND PROFILE STA 153+00 TO STA 165+00
25	PP-115	PLAN AND PROFILE STA 165+00 TO STA 177+00
26	PP-116	PLAN AND PROFILE STA 177+00 TO STA 189+00
27	PP-117	PLAN AND PROFILE STA 189+00 TO STA 201+00
28	PP-118	PLAN AND PROFILE STA 201+00 TO STA 213+00
29	PP-119	PLAN AND PROFILE STA 213+00 TO STA 225+00
30	PP-120	PLAN AND PROFILE STA 225+00 TO STA 237+00
31	PP-121	PLAN AND PROFILE STA 237+00 TO STA 250+00
32	PP-122	PLAN AND PROFILE STA 250+00 TO STA 262+00
33	PP-123	PLAN AND PROFILE STA 262+00 TO STA 273+00
34	PP-124	PLAN AND PROFILE STA 273+00 TO STA 285+00
35	PP-125	PLAN AND PROFILE STA 285+00 TO STA 297+00
36	PP-126	PLAN AND PROFILE STA 297+00 TO STA 308+00
37	PP-127	PLAN AND PROFILE STA 308+00 TO STA 314+37
CIVIL (C)		
38	C-301	LARIMER COUNTY ACCESS LOCATIONS
39	C-302	LARIMER COUNTY ACCESS LOCATIONS
40	C-303	LARIMER COUNTY ACCESS LOCATIONS
41	C-401	INSTRUMENTATION AND MONITORING PLAN
42	C-402	ENLARGED PLAN - 30" CULVERT (LOOKING EAST)
43	C-501	CIVIL DETAILS
44	C-502	CIVIL DETAILS
45	C-503	CIVIL DETAILS
46	C-504	CIVIL DETAILS
47	C-505	CIVIL DETAILS
48	C-506	CIVIL DETAILS
49	C-507	CIVIL DETAILS
50	C-508	CIVIL DETAILS
51	C-509	CIVIL DETAILS
52	C-510	CIVIL DETAILS
53	C-511	CIVIL DETAILS
54	C-512	CIVIL DETAILS
55	C-513	CIVIL DETAILS
56	C-514	CIVIL DETAILS
57	C-515	CIVIL DETAILS
58	C-516	CIVIL DETAILS
59	C-517	CIVIL DETAILS
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70	EC-001	ESC NOTES
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72	EC-101	EROSION CONTROL PLAN STA 10+00 TO STA 24+00
73	EC-102	EROSION CONTROL PLAN STA 24+00 TO 47+00
74	EC-103	EROSION CONTROL PLAN STA 47+00 TO STA 71+00
75	EC-104	EROSION CONTROL PLAN STA 71+00 TO 94+00
76	EC-105	EROSION CONTROL PLAN STA 94+00 TO 118+00
77	EC-106	EROSION CONTROL PLAN STA 118+00 TO 142+00
78	EC-107	EROSION CONTROL PLAN STA 142+00 TO 165+00
79	EC-108	EROSION CONTROL PLAN STA 165+00 TO 189+00
80	EC-109	EROSION CONTROL PLAN STA 189+00 TO 213+00
81	EC-110	EROSION CONTROL PLAN STA 213+00 TO 237+00
82	EC-111	EROSION CONTROL PLAN STA 237+00 TO 262+00
83	EC-112	EROSION CONTROL PLAN STA 262+00 TO 285+00
84	EC-113	EROSION CONTROL PLAN STA 285+00 TO 308+00
85	EC-114	EROSION CONTROL PLAN STA 308+00 TO 314+37
86	EC-501	GRADING EROSION AND SEDIMENT CONTROL DETAILS
87	EC-502	GRADING EROSION AND SEDIMENT CONTROL DETAILS
88	EC-503	GRADING EROSION AND SEDIMENT CONTROL DETAILS
89	EC-504	GRADING EROSION AND SEDIMENT CONTROL DETAILS
90	EC-505	SEED MIXES

GENERAL NOTES:

1. PIPELINE STATIONING AND LENGTHS OF PIPE ARE BASED ON THE HORIZONTAL PROJECTION OF THE PIPE CENTERLINE AS SHOWN ON THE DRAWINGS.
2. UNLESS OTHERWISE INDICATED, PIPELINE DIAMETERS ARE FINISHED INSIDE DIAMETERS AFTER INSTALLATION OF CEMENT MORTAR LINING.
3. ALL PIPELINE ELEVATIONS ARE REFERENCED TO THE TOP OF THE PIPE (TOP) UNLESS OTHERWISE NOTED.
4. DIMENSIONS OF VALVES, FITTINGS, AND OTHER EQUIPMENT MAY VARY DEPENDING UPON MANUFACTURER. CONTRACTOR SHALL REVIEW SHOP DRAWINGS AND MAKE ANY NECESSARY ADJUSTMENTS BEFORE SETTING BASES, SUPPORTS, ETC.
5. WHERE NECESSARY TO DEFLECT PIPE, EITHER HORIZONTALLY OR VERTICALLY, PIPE JOINT DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER RECOMMENDED DEFLECTION ANGLE, OR AS NOTED IN THE SPECIFICATIONS.
6. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE DRAWINGS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT OR ACCURATE. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AFFECTING THE WORK. SHOULD THE CONTRACTOR IDENTIFY ANY UTILITIES, STRUCTURES OR FEATURES NOT SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY.
7. CONTRACTOR TO POTHOLE UTILITIES A MINIMUM 1 MILE AHEAD OF CONSTRUCTION TO VERIFY LOCATIONS. NOTIFY CONSTRUCTION MANAGER OR OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY CONFLICTS ARISING BEFORE THE CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS.
8. CONTRACTOR SHALL ONLY STRIP TOPSOIL AND INSTALL EROSION CONTROL MEASURES A MAXIMUM OF 1/2 MILE IN ADVANCE OF PIPE LAYING OPERATIONS, UNLESS A GREATER DISTANCE IS APPROVED IN WRITING BY THE OWNER.
9. COORDINATE UNDERGROUND UTILITY MARKINGS WITH EXISTING UTILITIES BY CONTACTING THE UTILITY NOTIFICATION CENTER OF COLORADO (811 OR 1-800-922-1987) A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION OR GROUND DISTURBANCE IN ORDER TO OBTAIN LOCATES.
10. ALL UTILITIES SHALL BE KEPT IN OPERATION EXCEPT WITH THE WRITTEN PERMISSION OF THE UTILITY OWNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE EXISTING UTILITIES. ANY AND ALL DAMAGE TO EXISTING UTILITIES AS A RESULT OF THE CONTRACTOR'S ACTIONS, SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR SHALL COORDINATE WITH THE OWNERS OF ALL OVERHEAD FACILITIES REGARDING THE REMOVAL, REPLACEMENT, FLAGGING, OR RELOCATING OF ANY OVERHEAD INTERFERENCES THAT MAY AFFECT CONSTRUCTION OPERATION. THE CONTRACTOR SHALL AVOID DAMAGE TO SUCH FACILITIES AND USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER, GAS, OR OTHER UTILITIES TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS AND LIABILITY IN CONNECTION WITH THIS WORK.
12. THE CONTRACTOR SHALL REVIEW THE SITE PRIOR TO MOBILIZATION TO DOCUMENT EXISTING CONDITIONS. ANYTHING NOT SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER OR CONSTRUCTION MANAGER IMMEDIATELY AND SHALL NOT CONSTITUTE AN EXTRA, UNLESS APPROVED BY THE OWNER IN WRITING.
13. SEE SPECIFICATION SECTIONS 01 41 10 AND 02 01 20 AND DRAWING G-004 FOR PERMITTING, UTILITY, AND COORDINATION REQUIREMENTS AND CONTACTS.
14. PRESERVE ALL SURVEY MARKERS AND MONUMENTATION. THOSE REQUIRING REMOVAL SHALL BE REESTABLISHED BY A PROFESSIONAL LAND SURVEYOR IN ACCORDANCE WITH THE LOCAL GOVERNING AUTHORITY.
15. LIMIT CONSTRUCTION OPERATIONS TO WITHIN THE RIGHTS-OF-WAY AND EASEMENTS AND DESIGNATED WORK AREAS AS SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE AREA WITHIN THE CONSTRUCTION LIMITS TO A RESTORED CONDITION PER SPECIFICATION SECTION 32 90 10. CONSTRUCTION LIMITS ARE DELINEATED ON THE PLAN AND PROFILE DRAWINGS.
16. TRAFFIC CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
17. ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL STANDARDS. SUBMIT TRAFFIC CONTROL PLAN TO APPLICABLE AGENCIES AS REQUIRED AND OBTAIN PERMITS PRIOR TO CLOSURE OR DISRUPTION OF ANY ROADS.
18. ACCESS TO ALL PROPERTIES SHALL BE MAINTAINED AT ALL TIMES FOR SUPPORT SERVICE BY EMERGENCY VEHICLES. CONTRACTOR TO HAVE PRECONSTRUCTION MEETING WITH POUDRE FIRE AUTHORITY, LARIMER COUNTY SHERIFF'S OFFICE, AND POUDRE SCHOOL DISTRICT PRIOR TO CONSTRUCTION.
19. AT THE CLOSE OF EACH WORKING SHIFT, WHERE THE NEXT SHIFT WILL NOT IMMEDIATELY FOLLOW, PROTECT AND SECURE OPEN EXCAVATION.
20. EXCAVATION WITHIN ESTABLISHED LIMITS OF CONSTRUCTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SPECIFICATION SECTION 32 90 10. WETLAND TOPSOIL SHOULD BE SEPARATED AND STOCKPILED FROM OTHER TOPSOIL AND USED FOR WETLAND AREA RESTORATION. STOCKPILE SOILS A MINIMUM OF 200 FEET FROM WETLANDS AND WATERS. STRIPPING AND BACKFILLING OPERATIONS SHALL PROCEED IN A "FIRST OUT, LAST IN" SEQUENCE. SURFICIAL SOILS SHALL NOT BE LEFT STOCKPILED IN EXCESS OF TWO WEEKS WITHOUT TEMPORARY STABILIZATION. WETLANDS SHALL BE RESTORED TO THE ORIGINAL LINE, GRADE, AND CROSS-SECTION AS INDICATED BY THESE DRAWINGS. EXCESS BACKFILL SOILS TO BE DISPOSED OF OFFSITE BY THE CONTRACTOR. NO TOPSOIL, WETLAND SOIL, OR ROOT ZONE MATERIAL SHALL BE REMOVED FROM THE SITE.
21. PROTECT EXCAVATIONS AGAINST COLLAPSE AND PROVIDE BRACING, SHEETING, OR SHORING AS NECESSARY. EXCAVATION AND TRENCHES SHALL BE KEPT COMPLETELY DRY AND STABLE PER SPECIFICATION SECTIONS 31 23 00, 31 23 19, AND 31 23 43. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND PERMITTING OF DISCHARGE FLOWS IN ACCORDANCE WITH THE SPECIFICATIONS.
22. ALL DELETERIOUS SUBSURFACE MATERIAL, E.G., MUCK, PEAT, BURIED DEBRIS, SHALL BE EXCAVATED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, OR AS DIRECTED IN WRITING BY THE CONSTRUCTION MANAGER. DELETERIOUS MATERIAL IS TO BE REMOVED FROM THE SITE IMMEDIATELY AND PROPERLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS.
23. PROTECT AND RESTORE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES PER SPECIFICATION SECTIONS 01 41 10 AND 32 90 10.
24. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, FENCES, DRIVEWAYS, SIDEWALKS, FIELD ROADS, ETC., WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION, AS DIRECTED IN WRITING BY THE CONSTRUCTION MANAGER, OR AS REFERENCED IN THE SPECIFICATIONS.
25. ALL AREAS SHALL BE GRADED AND REVEGETATED, AS INDICATED ON THE DRAWINGS, IN ACCORDANCE WITH SPECIFICATION 32 90 10, AND AS REQUIRED BY APPLICABLE PERMITS.
26. ALL TREES LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED UNLESS SPECIFICALLY SHOWN FOR PROTECTION AND PRESERVATION. PRE-CONSTRUCTION, CONTRACTOR SHALL TOUR THE SITE WITH THE CONSTRUCTION MANAGER TO MARK TREES THAT ARE TO BE PROTECTED. CONTRACTOR TO REFER TO SPECIFICATION SECTIONS 01 41 10 AND 32 90 10.
27. ANY SOIL THAT IS CONTAMINATED BY FLUIDS FROM VEHICLES OR EQUIPMENT SHALL BE REMOVED FROM THE CONSTRUCTION SITE, APPROPRIATELY DISPOSED OF, AND REPLACED WITH CLEAN SOIL.
28. LOOSE WELDED STEEL PIPE ITEMS INCLUDE:
    - 28.1. SIX (6) STEEL BUTT-STRAPS FOR 0.281" WALL THICKNESS.
    - 28.2. ONE (1) 50FT STANDARD LENGTH OF STEEL PIPE WITH 0.281" WALL THICKNESS.
    - 28.3. FOUR (4) STEEL FILLER RINGS FOR EACH PIPE THICKNESS (12 TOTAL).
    - 28.4. FOUR (4) 45-DEGREE BENDS WITH 0.281" WALL THICKNESS.
29. CONTRACTOR SHALL USE CAUTION IN HANDLING WATER THAT HAS BEEN STORED IN CEMENT MORTAR LINED PIPE. STORAGE IN CONTACT WITH THE LINING RESULTS IN HIGH PH THAT CAN CAUSE SKIN IRRITATION/BURNING. CONTRACTOR SHALL TEST ANY WATER TO BE HANDLED AND/OR DISCHARGED AND HANDLE/TREAT/DISCHARGE ACCORDING TO APPLICABLE SAFETY MEASURES AND DISCHARGE PERMIT(S).
30. CONTRACTOR SHALL REPAIR OR REPLACE FENCING ON OR ADJACENT TO THE LIMITS OF CONSTRUCTION THAT WAS REMOVED OR SERVERED AS PART OF THE WORK. CONTRACTOR SHALL REPAIR OR REPLACE FENCING TO MATCH CONDITION OF SUCH FENCE PRIOR TO REMOVAL. IF NECESSARY TO CONTAIN LIVESTOCK, WHETHER SHOWN ON PLANS OR NOT, CONTRACTOR SHALL PROVIDE TEMPORARY LIVESTOCK FENCE DURING CONSTRUCTION UNTIL THE FENCING CAN BE REPAIRED OR REPLACED TO PRE-CONSTRUCTION CONDITIONS.
31. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY TEMPORARY IRRIGATION REQUIRED BY PROPERTY OWNERS DUE TO DITCHES, SPRINKLERS, OR OTHER CONVEYANCE BEING TEMPORARILY IMPACTED BY THE WORK.

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

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AUGUST 13, 2026

TWP SEGMENT F.1

DRAWING LIST AND GENERAL NOTES

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	2 OF 90
DRAWING:	G-002

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\900 CAD\02 - Sheets\G\240009_G-001-005.dwg USER: matthewb
DATE: Aug 13, 2026 12:18pm XREFS: 240009_TTB

LEGEND:

GENERAL

EXISTING — SMALLER *ITALICIZED* TEXT DENOTES EXISTING EQUIPMENT, STRUCTURES, PIPING, ETC.

PROPOSED — LINEWORK AND TEXT DENOTES PROPOSED EQUIPMENT, STRUCTURES, PIPING, ETC.

UTILITY LINETYPES



TYPE

CATV	=	CABLE TV
DR	=	DRAIN
FM	=	FORCE MAIN
FO	=	FIBER OPTIC
G	=	GAS
GS	=	GAS SERVICE
IRR	=	IRRIGATION
OHE	=	OVERHEAD ELECTRICAL
OHT	=	OVERHEAD TELEPHONE
OHU	=	OVERHEAD UTILITY
PW	=	POTABLE WATER
SD	=	STORM DRAIN
SS	=	SANITARY SEWER
E	=	UNDERGROUND ELECTRIC
T	=	UNDERGROUND TELEPHONE
W	=	WATER
WM	=	WATER MAIN
WS	=	WATER SERVICE

SYMBOLS

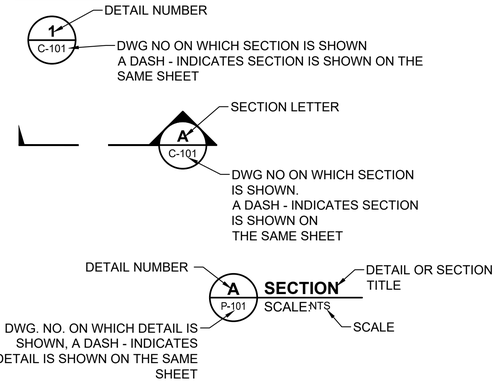
- SECTION CORNER AS DESCRIBED
- RANGE POINT AS DESCRIBED
- MONUMENT FOUND AS DESCRIBED
- MONUMENT SET AS DESCRIBED
- (D) DENOTES DEEDED INFORMATION
- (P) DENOTES PLATTED INFORMATION
- (M) DENOTES MEASURED INFORMATION
- EXISTING GAS VALVE
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING ELECTRIC HANDHOLE
- EXISTING TELEPHONE PEDESTAL
- EXISTING FIBER PEDESTAL
- EXISTING SEWER MANHOLE
- EXISTING VENT PIPE
- EXISTING STORM MANHOLE
- EXISTING WATER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING YARD HYDRANT
- EXISTING COMMUNICATION MH
- EXISTING ELECTRIC MANHOLE
- EXISTING CABLE TV PEDESTAL
- EXISTING GAS METER
- EXISTING ELECTRIC METER
- EXISTING TRAFFIC SIGNAL
- EXISTING GREASE MANHOLE
- EXISTING IRRIGATION VALVE
- EXISTING ELECTRIC PEDESTAL
- EXISTING CLEAN OUT
- EXISTING TRAFFIC HANDHOLE
- EXISTING UTILITY HANDHOLE
- EXISTING BOLLARD/POST
- EXISTING LANDSCAPE LIGHT
- EXISTING UTILITY POLE
- EXISTING GUY WIRE
- EXISTING STREET LIGHTPOLE

- EXISTING TREE TO BE PROTECTED
- EXISTING BUSH
- EXISTING TREE STUMP
- EXISTING MAILBOX
- EXISTING SIGN
- LANDSCAPED AREA
- EXISTING TRAFFIC LIGHT
- EXISTING MONITORING WELL
- EXISTING WATER WELL
- DRAINAGE FLOW ARROW
- MB MAIL BOX

LINETYPES

- DRAINAGE FLOWLINE
- 5050 EXISTING INDEX CONTOUR
- 5051 EXISTING INTERMEDIATE CONTOUR
- EXISTING FENCE
- PROPOSED FENCE
- EDGE OF BUSHES/TREES
- EXISTING BUILDING/STRUCTURE
- LOC LIMITS OF CONSTRUCTION
- EASEMENT, TEMPORARY OR PERMANENT
- RIGHT-OF-WAY
- SECTION LINE
- PROPERTY LINE
- 100 FP 100 YEAR FLOODPLAIN
- RAILROAD CENTER LINE
- WETLAND/WATER BOUNDARY
- ZINC RIBBON LINE
- FO FIBER OPTIC LINE

REFERENCE



HATCH TYPES

- UNDISTURBED SOIL
- EARTH FILL / BACKFILL
- RIPRAP
- RIPRAP BEDDING
- CONCRETE
- CLAY LINER
- NATIVE MATERIAL
- ASPHALT
- SAND FILTER/DIRT/ DRAIN MATERIAL/BEDDING
- GRAVEL
- WETLANDS & WATERS

ABBREVIATIONS:

ABC	AGGREGATE BASE COURSE
AC	ASPHALT CONCRETE
ACP	ASBESTOS CEMENT PIPE
ACS	ACCESS
AIR/VAC	COMBINATION AIR RELEASE/VACUUM VALVE
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
ASSY	ASSEMBLY
AWG	AMERICAN WIRE GAUGE
B , BOT	BOTTOM
B/O, BO	BLOWOFF
BF	BLIND FLANGE
BFLY	BUTTERFLY
BFV	BUTTERFLY VALVE
BH	BORE HOLE (SOIL BORING)
BLK	BLOCK
BNSF	BURLINGTON NORTHERN / SANTA FE RAILROAD
C	CENTERLINE
CATV	CABLE TV
CARV	COMBINATION AIR VALVE ASSEMBLY
CAV	COMBINATION AIR VALVE
CDOT	COLORADO DEPT. OF TRANSPORTATION
CI	CAST IRON
CL	CONSTRUCTION LIMIT, CENTERLINE
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CM	CONSTRUCTION MANAGER
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
COMM	COMMUNICATION
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS, CONTINUATION
COT	CITY OF THORNTON
CP	CONTROL POINT, CATHODIC PROTECTION
CPLG	COUPLING
CPP	CORRUGATED PLASTIC PIPE
CR	COUNTY ROAD
CTR	CENTER
CYL	CYLINDER
DB	DIRECT BURY
DI	DUCTILE IRON
DIA, Ø	DIAMETER
DIP	DUCTILE IRON PIPE
DNF	DID NOT FIND
DNPH	DID NOT POTHOLE
DR	DRIVE, DRAIN
DTL	DETAIL
DWLJ	DOUBLE-WELDED LAP JOINT
E	EAST, EASTING, ELECTRIC
EA	EACH
ECMP	ELLIPTICAL CORRUGATED METAL PIPE
EL, ELEV	ELEVATION
ELEC	ELECTRIC
EQ	EQUAL
ESMT	EASEMENT
EX	EXISTING
EXT	EXTENSION
FCV	FLOW CONTROL VALVE
FES	FLARED END SECTION
FIK	FLANGE INSULATING KIT
FL	FLOW LINE
FLG, FLG'D	FLANGE, FLANGED

FM	FORCE MAIN
FO	FIBER OPTIC
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FOOT, FEET
FUT	FUTURE
G	GAS
GA	GAUGE
GS	GAS SERVICE
GALV	GALVANIZED
GBR	GEOTECHNICAL BASELINE REPORT
GDR	GEOTECHNICAL DATA REPORT
GRV	GROOVED
GV	GATE VALVE
GW	GROUNDWATER
HD	HEAVY DUTY
HDPE	HIGH DENSITY POLYETHYLENE
HGL	HYDRAULIC GRADE LINE
HH	HAND HOLE
HORZ	HORIZONTAL
HP	HIGH PERFORMANCE
HWY	HIGHWAY
ID	INSIDE DIAMETER, IDENTIFICATION
IN	INCH
INV	INVERT
IR	VOLTAGE
IRR	IRRIGATION
JTS	JOINTS
L	LENGTH
LCR	LARIMER COUNTY ROAD
LD	LIGHT DUTY
LOC	LIMITS OF CONSTRUCTION
MAX	MAXIMUM
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
MP	MARKER POST
MW	MONITORING WELL (GROUNDWATER), MANWAY
N	NORTH, NORTHING
NGS	NATIONAL GEODETIC SURVEY
NIC	NOT IN CONTRACT
NOM	NOMINAL
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
NWP	NATIONWIDE PERMIT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OHE	OVERHEAD ELECTRIC
OHT	OVERHEAD TELEPHONE
OHWM	ORDINARY HIGH WATER MARK
OHU	OVERHEAD UTILITY
OPNG	OPENING
OPR	OPERATOR
OZ	OUNCE
P	PERMANENT
PE	PLAIN END, PERMANENT EASEMENT
PH	POTHOLE
PL	PROPERTY LINE, PLATE
PP	POWER POLE
PSCO	PUBLIC SERVICE COMPANY (XCEL ENERGY)
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVREA	POUDRE VALLEY RURAL ELECTRIC ASSOCIATION

PW	POTABLE WATER
R	RADIUS
R/W, ROW	RIGHT OF WAY
RCP	REINFORCED CONCRETE PIPE
REINF	REINFORCED/REINFORCEMENT
REQ'D	REQUIRED
RHW	WIRE INSULATION (MOISTURE RESISTANT)
RPMP	REINFORCED PLASTIC MORTAR PIPE
RR	RAILROAD
RW	RESILIENT WEDGE
S	SOUTH
SD	STORM DRAIN
SEO	STATE ENGINEER'S OFFICE
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS, SAN	SANITARY SEWER
ST	STAINLESS
STA	STATION
STD	STANDARD
STL	STEEL
STM	STORM
STRUCT	STRUCTURE
SWLJ	SINGLE-WELDED LAP JOINT
SWPS	SOURCE WATER PUMP STATION
SWR	SEWER
T	TOP, TELEPHONE, TEMPORARY
T/	TOP OF
TCE	TEMPORARY CONSTRUCTION EASEMENT
TEL	TELEPHONE
TEMP	TEMPORARY
TH	TEST HOLE (SOIL BORING)
TOC	TOP OF CONCRETE
TOP	TOP OF PIPE
TOW	TOP OF WALL
TT	TREE TAG
TWP	THORNTON WATER PROJECT
TYP	TYPICAL
UG	UNDERGROUND
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VTC	VEHICLE TRACKING CONTROL
W, WTR	WEST, WATER
W/	WITH
WE	WATERLINE EASEMENT
WM	WATER MAIN
WL	WATER LINE
WRCC	WINDSOR RESERVOIR AND CANAL COMPANY
WS	WATER SERVICE
WSP	WELDED STEEL PIPE
WSSC	WATER SUPPLY & STORAGE COMPANY
WT	WEIGHT
WWF	WELDED WIRE FABRIC

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CONTACT 811 BEFORE YOU DIG 811 SAFE DIGGING PARTNER

ISSUED FOR BIDDING
NOT FOR CONSTRUCTION
AUGUST 13, 2026

TWP SEGMENT F.1

SYMBOLS AND ABBREVIATIONS

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	3 OF 90
DRAWING:	G-003

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\900 CAD\02 - Sheets\G\240009_G-001-005.dwg USER: matthewb
DATE: Aug 13, 2026 12:18pm XREFS: 240009_TTB

XCEL (PSCO) ENERGY (GAS) GENERAL NOTES:

1. WITHIN 10 BUSINESS DAYS AFTER THE COMPLETION OF THE CROSSING, THE CONTRACTOR SHALL DELIVER TO THE OWNER'S CONSTRUCTION MANAGER AS-BUILT DRAWINGS DEPICTING THE FINAL CONSTRUCTION OF THE CROSSING OF GAS LINES.

2. IN THE EVENT THE CONTRACTOR DESIRES TO CHANGE THE CROSSING DESIGNS OR REQUIREMENTS PROVIDED IN THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S CONSTRUCTION MANAGER FOR REVIEW.

3. CONTRACTOR SHALL INVITE PSCO REPRESENTATIVES TO THE PRE-CONSTRUCTION MEETING TO OBTAIN PROJECT SCHEDULES, CONSTRUCTION PLANS, AND ADDRESS ANY SITE-SPECIFIC CONDITIONS THAT WOULD RESULT IN CHANGES TO THE APPROVED PLANS. ANY CHANGES TO THE APPROVED PLANS MUST BE PRESENTED TO PSCO ENGINEERING AND OPERATIONS FOR REVIEW AND APPROVAL.

4. THE CONTRACTOR SHALL INSTALL THE OWNER'S PIPELINE AND FIBER OPTIC LINE WITH A MINIMUM OF 2 FEET OF CLEARANCE OF GAS LINES.

5. A MINIMUM OF 20 BUSINESS DAYS IN ADVANCE OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO PSCO ENGINEERING AND OPERATIONS:

   5.1. A "METHOD OF CONSTRUCTION" PLAN FOR REVIEW AND APPROVAL. THE PLAN SHALL INCLUDE AN EXCAVATION AND BACKFILL PLAN ALONG WITH MATERIAL SPECIFICATIONS FOR BEDDING AND BACKFILL.

   5.2. THE PROPOSED TYPE, SIZE, AND WEIGHT OF CONSTRUCTION EQUIPMENT FOR GAS COMPANY APPROVAL. THE CONTRACTOR SHALL CONSULT THE GAS COMPANY FOR WHEEL LOAD ANALYSIS TO CONFIRM PROPOSED EQUIPMENT IS WITHIN ACCEPTABLE RANGE. IF EQUIPMENT EXCEEDS ACCEPTABLE MAXIMUM LOADING, THE CONTRACTOR SHALL GAIN APPROVAL FOR PROVISIONS TO BE IMPLEMENTED INCLUDING TEMPORARY FILLS AND/OR TEMPORARY BRIDGING TO DISTRIBUTE LOADS.

   5.3. A PLAN DETAILING THE SUPPORT METHODS FOR GAS LINES TO LIMIT STRESS FOR OPEN TRENCH UTILITY SPANS.

6. THE CONTRACTOR WILL NOT BE ALLOWED TO OPERATE HEAVY VIBRATORY COMPACTION EQUIPMENT (DRIVER OPERATED) OVER OR ALONG THE LENGTH OF PSCO PIPELINES FOR A DISTANCE OF TEN (10) FEET FROM THE OUTSIDE WALL OF THE PIPE AND TEN (10) FEET FROM THEN ENDS OF THE PIPELINE LENGTH AT THE COMPACTION AREA LIMITS IF LESS THAN THREE (3) FEET OF COVER IS LEFT OVER THE PIPE AFTER THE SUBEXCAVATION WORK IS COMPLETED. LIGHT VIBRATORY COMPACTION EQUPIMENT (JUMPING JACKS, WALK BEHIND, OR REMOTE-CONTROL ROLLERS) MAY BE USED ONCE A MINIMUM OF ONE (1) FOOT OF BEDDING MATERIAL IS PLACED OVER THE PSCO PIPELINE.

7. VIBRATIONS FROM DYNAMIC COMPACTION EQUIPMENT MUST BE MAINTAINED AT A PEAK PARTICLE VELOCITY OF LESS THAN 1 IN/SEC AS MEASURED IN ANY ONE OF THE THREE COMPONENTS OF A SEISMOGRAPHIC READER.

8. CONTRACTOR SHALL OBTAIN A COPY OF THE PSCO LICENSE AGREEMENT FROM THE OWNER OR OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION AND KEEP THIS LICENSE ON THE PROPERTY AT ALL TIMES DURING CONSTRUCTION.

9. CONTRACTOR SHALL NOT BRING ONTO PROPERTY, OR PERMIT TO BE BROUGHT ONTO THE PROPERTY, ANY HAZARDOUS MATERIALS INCLUDING BUT NOT LIMITED TO PETROLEUM, ASBESTOS, PCB'S, COAL ASH, OR COAL COMBUSTION RESIDUALS WITHOUT THE WRITTEN APPROVAL OF PSCO.

10. THE CONTRACTOR SHALL PROVIDE PSCO INSPECTION PERSONNEL ACCESS TO THE PSCO FACILITIES AT ALL TIMES.

11. CONTRACTOR'S EXCAVATION OPERATORS ACTING IN A MANNER DEEMED RECKLESS BY THE PSCO INSPECTOR SHALL BE ASKED TO STOP THEIR WORK UNTIL SUCH TIME PSCO PERSONNEL DEEM THE SITUATION HAS RETURNED TO A SAFE OPERATIONAL CONDITION.

12. CONTRACTOR SHALL PROVIDE PSCO A MINIMUM OF 14 DAYS WRITTEN NOTICE BEFORE STARTING THE CONSTRUCTION TO SCHEDULE A STANDBY TO BE ONSITE DURING ALL PSCO UTILITY CROSSINGS.

13. AT GAS LINE CROSSING LOCATIONS, STRAY CURRENT MITIGATION WILL BE REQUIRED IF EITHER PIPELINE IS CATHODICALLY PROTECTED FROM A RECTIFIED GROUND BED SYSTEM. AT A MINIMUM MITIGATION SHALL CONSIST OF A RUN OF TWO #8 WIRES FROM PSCO PIPE AND 2 #8 WIRES UP FROM THE OWNER'S PIPE INTO A COMMON OR SEPARATE TEST STATION FOR BONDING OF THE TWO SYSTEMS TOGETHER IF NECESSARY. THE WIRES COULD EITHER RUN TO THE TEST STATION IN A COMMON CONDUIT OR SEPARATE CONDUITS. IN ADDITION, TWO (2) 32 LB MAGNESIUM ANODES ARE TO BE PLACED IN EACH QUADRANT OF THE CROSSING PIPES AND PLACED VERTICALLY EQUIDISTANT BETWEEN THE TWO PIPELINES. PSCO WILL PROVIDE THE MATERIAL FOR ITS CP TEST STATION AND ASSIST CONTRACTOR WITH INSTALLATION OF THE TEST STATION. AT CROSSING LOCATIONS, PSCO WILL PROVIDE THE MATERIALS FOR THE CATHODIC PROTECTION TEST STATION AND WILL ASSIST THE CONTRACTOR WITH INSTALLATION.

14. POTHOLING FREQUENCY WILL BE AT THE DISCRETION OF THE PSCO FIELD OPERATOR BASED ON FIELD CONDITIONS AND PROXIMITY TO THE PIPELINE. POTHOLING WITH EXCAVATION EQUIPMENT WILL NOT BE ALLOWED DURING FROST CONDITIONS. POTHOLING WITH HYDRO-VAC TRUCKS WILL BE ALLOWED UNDER ANY CONDITIONS.

15. THE CONTRACTOR SHALL MAKE SURE THAT PSCO FIELD OPERATORS ARE ON SITE DURING POTHOLING, EXCAVATION, SITE GRADING, BACKFILL, COMPACTION, AND INSTALLATION OF FACILITIES WHEN WORKING WITHIN 15-FEET OF THE OUTER LIMITS OF THE LOCATE MARKS.

PLATTE RIVER POWER AUTHORITY (PRPA) GENERAL NOTES:

1. CONTRACTOR MUST NOTIFY ALL ITS EMPLOYEES, AGENTS, SUBCONTRACTORS, SUPPLIERS AND OTHER PERSONS WHO MAY WORK OVER, UNDER, AND/OR ADJACENT TO PRPA FACILITIES OF THE DANGERS INVOLVED AND THE PRECAUTIONS AND SAFETY MEASURES TO BE TAKEN TO WORK SAFELY.

2. BEFORE EXCAVATION, CONTRACTOR MUST COORDINATE LOCATION OF EXISTING UNDERGROUND FACILITIES WITH PRPA. CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THAT ALL UNDERGROUND PRPA FACILITIES ARE POSITIVELY LOCATED BEFORE CONSTRUCTION ACTIVITIES AND PROVIDE LOCATE INFORMATION TO PRPA REPRESENTATIVES.

3. CONTRACTOR SHALL PROVIDE PRPA A MINIMUM OF 14 DAYS WRITTEN NOTICE BEFORE STARTING THE CONSTRUCTION PHASE OF THE PROJECT. FURTHERMORE, CONTRACTOR SHALL PROVIDE PRPA MINIMUM OF 14 DAYS WRITTEN NOTICE BEFORE ANY EXCAVATION WITHIN 10 FEET OF ANY PRPA FACILITIES, INCLUDING TRANSMISSION POLES, GAS OR WATER PIPELINES, UNDERGROUND ELECTRICAL CONDUCTORS, OR ANYTIME WORK WILL OCCUR UNDER OVERHEAD ELECTRICAL CONDUCTORS.

4. CONTRACTOR SHALL IMMEDIATELY NOTIFY PRPA AND REPAIR ANY DAMAGE TO FACILITIES DAMAGED DURING CONSTRUCTION.

5. PRPA MAY AT ANY TIME REQUIRE CONTRACTOR, OR ITS SUBCONTRACTORS, TO ADJUST ITS CONSTRUCTION SCHEDULE SHOULD PRPA DETERMINE THE CONSTRUCTION INTERFERES OR WILL IMMINENTLY INTERFERE WITH PRPA'S OPERATION OR USE OF ITS FACILITIES.

6. IF CONSTRUCTION REQUIRES AN OUTAGE OF PRPA FACILITIES, CONTRACTOR MUST REQUEST THE OUTAGE A MINIMUM OF 14 DAYS IN ADVANCE. PRPA MAY DETERMINE THAT AN OUTAGE CANNOT BE PERFORMED AS REQUESTED BASED ON PRPA'S SYSTEM REQUIREMENTS AND OBLIGATIONS, IN WHICH CASE THE PRPA AND THE CONTRACTOR WILL WORK COOPERATIVELY TO EVALUATE HOW TO BEST ACCOMMODATE THE REQUEST.

7. CONTRACTOR MUST NOT DISTURB PRPA'S FACILITIES, UNLESS PRPA GRANTS PRIOR EXPRESS WRITTEN PERMISSION TO CONTRACTOR FOR AN OUTAGE. IF CONSTRUCTION INTERRUPTS PRPA'S FACILITIES WITHOUT PRIOR WRITTEN PERMISSION, CONTRACTOR MUST REIMBURSE PRPA FOR ALL COSTS, INCLUDING ANY LOST PROFITS, INCURRED DUE TO THE INTERRUPTION.

8. PRIOR TO CROSSING PRPA FACILITIES, CONTRACTOR MUST ARRANGE FOR PRPA'S INSPECTION. AFTER CROSSING INSPECTION, EXCAVATED AREAS MUST BE PROMPTLY BACKFILLED FOLLOWING PRPA'S CROSSING APPROVAL.

9. ALL EXCAVATIONS ACROSS PRPA FACILITIES MUST BE BACKFILLED AND COMPACTED TO THE ORIGINAL GROUND LINE IN LAYERS NOT TO EXCEED SIX INCHES LOOSE MEASURE, TO A COMPACTION OF 95% STANDARD PROCTOR MAXIMUM DENSITY. CONTRACTOR MUST CORRECT TRENCHES THAT SETTLE BELOW THE ORIGINAL GROUND LINE WITHIN ONE YEAR THROUGH ADDITIONAL FILL AND COMPACTION TO THIS COMPACTION STANDARD.

10. CONTRACTOR MUST INSTALL PIPELINE MARKERS IDENTIFYING THE LOCATION PRPA FACILITY CROSSING AFTER CONSTRUCTION.

11. CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY INFORMATION ASSOCIATED WITH CROSSING PRPA FACILITIES WITHIN 5 WORKING DAYS AFTER CROSSING.

12. CONTRACTOR SHALL PROVIDE PRPA A MINIMUM 14 DAY WRITTEN NOTICE BEFORE STARTING THE CONSTRUCTION TO SCHEDULE A STANDBY TO BE ONSITE FOR ALL PRPA UTILITY CROSSINGS.

13. PRPA CONTACT: SYSTEM ENGINEERING MANAGER, 2000 EAST HORSETOOTH ROAD, FORT COLLINS, COLORADO 80525. (970) 226-4000.

BURLINGTON NORTHERN -SANTA FE (BNSF) RAILROAD GENERAL NOTES:

1. WHEN WORK IS PERFORMED WITHIN BNSF RIGHT-OF-WAY, RAILROAD FLAGGING AND CONSTRUCTION INSPECTION WILL BE REQUIRED. FLAGGING SERVICES SHALL BE PERFORMED BY A BNSF QUALIFIED FLAGGER AND THE TOTAL COST BORNE BY THE CONTRACTOR. A WRITTEN REQUEST FOR INSPECTION AND FLAGGING SERVICES WILL BE REQUIRED AT LEAST FIFTEEN (15) WORKING DAYS PRIOR TO THE TIME WHEN SUCH SERVICES ARE NEEDED. THIS REQUEST SHALL BE MADE TO THE BNSF SCHEDULING AGENT - TBD. PLEASE CONTACT BNSF's SCHEDULING AGENT AT WILSONCOMPANY.UTILITY.IC@WILSONCO.COM OR 816-556-3624 AT LEAST FIFTEEN (15) DAYS IN ADVANCE OF ENTRY AND BEFORE YOU DIG, CALL (800) 533-2891 (OPTION 7)

2. PRIOR TO CONSTRUCTION COMMENCING ON BNSF PROPERTY, THE CONTRACTOR SHALL EXECUTE A CONTRACTOR'S RIGHT OF ENTRY (CROE) AGREEMENT WITH BNSF WHICH INCLUDES ALL NECESSARY INSURANCE CERTIFICATES AND CONSTRUCTION REQUIREMENTS.

3. CONTRACTOR SHALL CONSTRUCT THE WORK WITHIN THE BNSF RIGHT-OF-WAY IN ACCORDANCE WITH:

   3.1. AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION ("AREMA") STANDARDS AND GUIDELINES ("UP ADDITIONAL REQUIREMENTS").

   3.2. ALL APPLICABLE LAWS, RULES, AND REGULATIONS, INCLUDING ANY APPLICABLE FEDERAL RAILROAD ADMINISTRATION AND FEDERAL ENERGY REGULATORY COMMISSION REGULATIONS AND ENACTMENTS ("LAWS").

4. THE CONTRACTOR SHALL INSTALL ALL CASING PIPES WITH THE TOP OF THE CASING PIPE A MINIMUM OF 6 FEET BELOW THE EXISTING GROUND AT ALL POINTS WITHIN THE RAILROAD PROPERTY.

POUDRE VALLEY RURAL ELECTRIC ASSOCIATION (PVREA) GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE PVREA A MINIMUM OF 45 CALENDAR DAYS ADVANCE WRITTEN NOTICE BEFORE ACCESSING PVREA RIGHTS-OF-WAY AND COMMENCING ANY CONSTRUCTION. FURTHERMORE, CONTRACTOR SHALL NOTIFY PVREA AT 970-282-6483 AND 970-282-6451 A MINIMUM OF 3 WEEKS BEFORE PERFORMING ANY EXCAVATION OR USING ANY OVERSIZED EQUIPMENT NEAR ELECTRIC FACILITIES.
2. SHOULD ANY PVREA FACILITIES NEED SUPPORTING DURING CONSTRUCTION, CONTRACTOR SHALL CONTRACTOR SHALL PROVIDE PVREA A MINIMUM OF 15 CALENDAR DAYS ADVANCE NOTICE SO PVREA CAN PLAN RESOURCES ACCORDINGLY.
3. THE CONTRACTOR SHALL INSTALL UTILITY MARKERS / SIGNS ON BOTH SIDES OF THE CROSSING OF PVREA RIGHTS-OF-WAY OR EASEMENTS.
4. CONTRACTOR SHALL BE AWARE THAT OVERHEAD ELECTRIC CONDUCTORS ARE NOT INSULATED AND WILL TRANSMIT AND CONTINUE TO TRANSMIT ELECTRICAL CURRENT DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY ALL EMPLOYEES, SUBCONTRACTORS, OR OTHER PERSONS INVOLVED WITH CONSTRUCTION OF THE DANGERS INVOLVED. CONTRACTOR SHALL ENSURE THAT ALL WORKERS IN PROXIMITY OF THE ENERGIZED LINES ARE QUALIFIED AS DEFINED IN OSHA 29 CFR1910.269, LATEST EDITION. IF CONTRACTOR DOES NOT HAVE OSHA QUALIFIED WORKERS, CONTRACTOR SHALL NOTIFY PVREA A MINIMUM OF 15 CALENDAR DAYS ADVANCE NOTICE TO SCHEDULE QUALIFIED STANDBY PERSONNEL.

LARIMER COUNTY CANAL (LCC) GENERAL NOTES:

1. THE TOP OF PIPE INSTALLATION SHALL HAVE A MINIMUM DEPTH OF 6 FT BELOW THE INVERT OF THE CANAL.
2. CONTRACTOR SHALL SCHEDULE CONSTRUCTION SO THAT THE CROSSING OF THE CANAL IS COMPLETED BETWEEN NOVEMBER 1 AND MARCH 31 (NON-OPERATING SEASON.
3. CONTRACTOR SHALL PROVIDE LCC A MINIMUM OF 14 DAYS WRITTEN NOTICE BEFORE STARTING THE CONSTRUCTION IN THE LCC RIGHT-OF-WAY. LCC CONTACT: (970) 482-3433.
4. CONTRACTOR SHALL RESTORE THE ACCESS ROAD WITHIN THE CANAL RIGHT-OF-WAY TO THE SAME CONDITION AS BEFORE CONSTRUCTION.

TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION GENERAL NOTES:

1. CONTRACTOR SHALL NOTIFY TRI-STATE'S SYSTEM OPERATIONS OUTAGE COORDINATOR NO LESS THAN THIRTY (30) CALENDAR DAYS PERFORMING ANY EXCAVATION OR USING ANY OVERSIZED EQUIPMENT IN THE EASEMENT AREA. THE COORDINATOR CAN BE CONTACTED MONDAY - FRIDAY, 7 AM - 4 PM AT 303-254-3645 OR TSGTOUTAGE@TRISTATEGT.ORG. IF NOTIFICATION IS SENT TO THE COORDINATOR BEFORE 10 AM, THEN DAY ONE OF THE NOTIFICATION TIME FRAME SHALL BEGIN THE SAME DAY; OR IF NOTIFICATION IS SENT TO THE COORDINATOR AFTER 10 AM, THEN DAY ONE OF THE NOTIFICATION TIME FRAME SHALL BEGIN THE FOLLOWING DAY.
2. CONTRACTOR SHALL RESTRICT CONSTRUCTION EQUIPMENT HEIGHT UNDER TRI-STATE TRANSMISSION LINES TO THIRTY (30) FEET.
3. WHEN THE CONTRACTOR IS CONSTRUCTING WITHIN THE TRI-STATE EASEMENT, AN OSHA 29 CFR 1910.269 QUALIFIED TRI-STATE WORKER SHALL BE ONSITE. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH RETAINING THE QUALIFIED WORKER FROM TRI-STATE INCLUDING MEALS, TRAVEL TIME, VEHICLE COST, AND LODGING.

EAST LARIMER COUNTY WATER DISTRCT (ELCO) GENERAL NOTES:

1. CONTRACTOR SHALL CALL ELCO (970-493-2044) WITH 48-HOURS ADVANCED NOTIFICATION TO SCHEDULE ELCO PERSONNEL TO BE ONSITE PRIOR TO EXCAVATION FOR CROSSINGS OF OR PARALLELING TO EXISTING ELCO WATER LINES. CONTRACTOR SHALL SUBMIT SUPPORT CROSSING PLAN TO ELCO FOR INFORMATION.
2. ALL EXISTING WATERLINES SHALL REMAIN IN SERVICE AND BE PROTECTED IN PLACE WITH ADEQUATE SUPPORT, PROTECTED FROM CONTAMINATION, AND MAINTAINED WITH 2 FEET VERTICAL AND 10 FOOT HORIZONTAL SEPARATION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES AND REPAIRS. CONTRACTOR TO OBTAIN REPAIR EQUIPMENT SPECIFICATIONS (E.G. PIPE MATERIAL, PRESSURE CLASS, ETC.) FROM ELCO. FROM ALL OPEN CUT CROSSINGS, CONTRACTOR SHALL HAVE REPAIR PARTS ONSITE IN CASE OF A FAILURE DURING THE CROSSING.
4. CONTRACTOR SHALL PLACE MARKER POSTS WHERE THE OWNER'S PIPELINE ENTERS AND EXITS ELCO EASEMENTS (IF APPLICABLE). IF MARKER POSTS CANNOT BE PLACED OVER THE CENTERLINE OF OWNER'S PIPELINE BECAUSE OF SURFACE OBSTRUCTIONS, THE MARKER POSTS SHALL BE PLACED AS CLOSELY AS PRACTICABLE TO THE CENTERLINE. SUCH MARKERS SHALL HAVE A PLACARD AFFIXED STATING "MARKER IS NOT OVER CENTERLINE OF UNDERGROUND FACILITY" OR EQUIVALENT.
5. CONTRACTOR SHALL BE AWARE OF THE POTENTIAL FOR THE WORK TO CONFLICT WITH ELCO'S 2-INCH WATERLINE LOCATED IN CR 56. IF IMPACTED OR THE NEED EXISTS TO CLOSE A VALVE, CONTRACTOR SHALL IMMEDIATELY CONTACT ELCO FIELD OPERATIONS MANAGER AT (970-493-2044). AS PART OF A CONTINGENCY PLAN, CONTRACTOR SHALL PRE-PURCHASE AND HAVE ON SITE THE FOLLOWING MATERIALS.
   5.1. 200 FEET OF 2" ISP SCHEDULE 40 PVC POTABLE WATER 1120 PIPE (XIRTEC).
   5.2. FOUR (4) 2" NOMINAL SIZE NSF APPROVED SMITH BLAIR BLUE EPOXY REPAIR COUPLINGS, 2.34-2.63 OD, PART NUMBER 41100025003003.
   5.3. FOUR (4) 2.5" NOMINAL SIZE NSF APPROVED SMITH BLAIR BLUE EPOXY REPAIR COUPLINGS, 2.88 OD, PART NUMBER 41100028810003.
   5.4. TWO (2) 2" MUELLER 2362 RESILIENT WEDGE GATE VALVES (MJ X MJ).
6. THE CONTRACTOR SHALL USE ONLY STATIC COMPACTION EQUIPMENT WITHIN THE ELCO EASEMENT. THE CONTRACTOR SHALL NOT USE ANY VIBRATORY OR HEAVY SHEEPSFOOT COMPACTION WITHIN TWENTY (20) FEET OF ELCO INFRASTRUCTURE.

PROSPECT ENERGY GENERAL NOTES:

1. PROSPECT ENERGY HAS ABANDONED OIL AND GAS LINES LOCATED ALONG THE CONSTRUCTION CORRIDOR. ENGINEER HAS SHOWN THESE LINES USING THE BEST AVAILABLE INFORMATION, BUT THERE MAY BE OTHER LINES WITH UNKNOWN LOCATIONS.
2. PROSPECT ENERGY LINES ARE UNDER THE STATE OF COLORADO'S ORPHAN WELL PROGRAM.
3. THE STATE OF COLORADO HAS COMMUNICATED THAT THE POTENTIAL EXISTS FOR THESE OIL AND GAS LINES TO CONTAIN NUISANCE PRODUCT.
4. IF OIL AND GAS LINES ARE IMPACTED A SPILL EVENT AND CLEANUP PROCESS WILL NEED TO TAKE PLACE UNDER THE DIRECTION OF THE ORPHAN WELL PROGRAM. IN ADDITION, CONTACT THE CDPHE SPILL REPORTING NUMBER FOR AN ENVIRONMENTAL INCIDENT: 1-877-518-5608.
5. CONTRACTOR SHALL CONTACT THE FOLLOWING INDIVIDUAL FOR STANDBY WHEN CROSSING KNOWN PROSPECT ENERGY LINES. CONTACT MUST BE MADE A MINIMUM OF 15 BUSINESS DAYS IN ADVANCE OF CROSSING TO:

   MIKE HICKEY, EASTERN REGIONAL SUPERVISOR

   (970) 302-1024

   MICHAEL.HICKEY@STATE.CO.US

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
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AUGUST 13, 2026

TWP SEGMENT F.1

UTILITY, RAILROAD, AND DITCH CROSSING NOTES

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	4 OF 90
DRAWING:	G-004

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\800 CAD\02 - Sheets\G\240009_G-001-005.dwg USER: matthewb
DATE: Aug 13, 2026 12:18pm XREFS: 240009_TTB

LARIMER COUNTY GENERAL NOTES

1. LARIMER COUNTY WILL NOT BE PROVIDING ONGOING MANAGEMENT, MONITORING, INSPECTION OR SUPERVISION OF THIS PROJECT TO ENSURE COMPLIANCE WITH THE APPROVED CONSTRUCTION DRAWINGS, AND ALL APPLICABLE STANDARDS AND SPECIFICATIONS. THIS RESPONSIBILITY FALLS UPON THE CONTRACTOR. DURING AND UPON PROJECT COMPLETION, LARIMER COUNTY WILL REQUIRE EXTENSIVE DOCUMENTATION, SUCH AS MATERIAL TESTING RECORDS, RECORD DRAWINGS, AND FIELD INSPECTION REPORTS, TO DEMONSTRATE THAT THIS PROJECT IS IN COMPLIANCE WITH THE APPROVED CONSTRUCTION DRAWINGS, AND ALL APPLICABLE STANDARDS AND SPECIFICATIONS.

2. NO WORK MAY COMMENCE WITHIN THE PUBLIC RIGHT-OF-WAY UNTIL A DEVELOPMENT CONSTRUCTION PERMIT AND RIGHT OF WAY CONSTRUCTION PERMIT IS OBTAINED FROM THE LARIMER COUNTY ENGINEERING DEPARTMENT. ALL FEES SHALL BE PAID BY THE CONTRACTOR PRIOR TO ISSUANCE OF THE DEVELOPMENT CONSTRUCTION PERMIT AND RIGHT OF WAY PERMIT.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION WITHIN THE RIGHT OF WAY. THE CONTRACTOR SHALL NOTIFY THE LARIMER COUNTY ENGINEERING DEPARTMENT AT LEAST 10 WORKING DAYS PRIOR TO THE START OF ANY WORK WITHIN THE RIGHT OF WAY.

4. PRIOR TO THE ISSUANCE OF THE DEVELOPMENT CONSTRUCTION PERMIT AND RIGHT OF WAY CONSTRUCTION PERMIT, THE CONTRACTOR SHALL SUBMIT A CERTIFIED TRAFFIC CONTROL PLAN AND MANAGEMENT PLAN, IN ACCORDANCE WITH MUTCD, TO THE LARIMER COUNTY ENGINEERING DEPARTMENT FOR APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE APPROVED PLAN.

5. SIGNAGE, SUCH AS SITE ENTRANCE SIGNS, WILL NOT BE ALLOWED WITHIN THE ROW OF LARIMER COUNTY ROADS THAT ARE EXTERNAL TO AND/OR ADJACENT TO THE PROJECT. PLEASE NOTE THAT ALL SIGNS WILL REQUIRE A SEPARATE SIGN PERMIT FROM THE LARIMER COUNTY BUILDING DEPARTMENT.

6. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE LARIMER COUNTY RURAL AREA ROAD STANDARDS AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE MOST RESTRICTIVE STANDARD SHALL APPLY.

7. ALL REFERENCES TO PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.

8. ALL SANITARY SEWER, STORM SEWER, AND WATER LINE CONSTRUCTION, AS WELL AS POWER AND OTHER “DRY” UTILITY INSTALLATIONS, SHALL CONFORM TO THE GOVERNING AUTHORITY STANDARDS AND SPECIFICATIONS CURRENT AT THE DATE OF APPROVAL OF THE PLANS BY THE LARIMER COUNTY ENGINEERING DEPARTMENT.

9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE RIGHT OF WAY BEFORE COMMENCING NEW CONSTRUCTION.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES DURING CONSTRUCTION AND FOR COORDINATING WITH THE APPROPRIATE UTILITY COMPANIES FOR ANY UTILITY CROSSINGS REQUIRED OR UTILITY RELOCATION DUE TO A UTILITY CONFLICT WITH THE PROPOSED PIPELINE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL COMPLETE ALL UTILITY WORK IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE AND SHALL BE RESPONSIBLE FOR CONTACTING, IN ADVANCE, ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE AS WELL AS THE UTILITY COMPANIES. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 1-800-922-1987, AT LEAST 10 WORKING DAYS PRIOR TO BEGINNING EXCAVATION OR GRADING, TO HAVE ALL REGISTERED UTILITY LOCATIONS MARKED. OTHER UNREGISTERED UTILITY ENTITIES (I.E. DITCH / IRRIGATION COMPANY) ARE TO BE LOCATED BY CONTACTING THE RESPECTIVE REPRESENTATIVE. IF A CONFLICT EXISTS BETWEEN EXISTING AND PROPOSED UTILITIES AND/OR A DESIGN MODIFICATION IS REQUIRED, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO MODIFY THE DESIGN. ANY DESIGN MODIFICATION(S) MUST BE APPROVED BY THE LARIMER COUNTY ENGINEERING DEPARTMENT PRIOR TO BEGINNING CONSTRUCTION.

11. NO WORK MAY COMMENCE ON ANY STORM WATER, SANITARY SEWER OR POTABLE WATER UTILITIES UNTIL THE CONTRACTOR NOTIFIES THE UTILITY PROVIDER. NOTIFICATION SHALL BE A MINIMUM OF 10 WORKING DAYS PRIOR TO COMMENCEMENT OF ANY WORK.

12. THE WORK INVOLVED WITH PIPELINE INSTALLATION WITHIN THE RIGHT OF WAY MUST BE COMPLETED, INCLUDING SUCCESSFULLY PRESSURE TESTING OF THE PIPE, PRIOR TO FINAL ROAD RECONSTRUCTION / RESTORATION. FOR THE PURPOSES OF THE WORK WITHIN THE RIGHT OF WAY, ANY WORK ABOVE THE SUBGRADE SHALL BE CONSIDERED FINAL ROAD RECONSTRUCTION / RESTORATION.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.

14. FOR WORK HOUR RESTRICTIONS, PLEASE SEE SPECIFICATION 01 41 10.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE WORK SHOWN ON THESE DRAWINGS

16. THE CONTRACTOR SHALL HAVE, ONSITE AT ALL TIMES, ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ALL PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE WORK. IF, DURING THE CONSTRUCTION, CONDITIONS ARE ENCOUNTERED IN THE RIGHT OF WAY WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION MANAGER AND THE LARIMER COUNTY ENGINEERING DEPARTMENT IMMEDIATELY.

17. UPON COMPLETION OF CONSTRUCTION, THE SITE SHALL BE CLEANED AND RESTORED TO A CONDITION EQUAL TO, OR BETTER THAN, THAT WHICH EXISTED BEFORE CONSTRUCTION, AND TO PRE-CONSTRUCTION GRADES AND CONDITION AS REQUIRED BY THESE PLANS.

18. ANY EXISTING IMPROVEMENTS DESTROYED, DAMAGED OR REMOVED DUE TO CONSTRUCTION OF THIS PROJECT, SHALL BE REPLACED OR RESTORED IN LIKE KIND AT THE CONTRACTOR'S EXPENSE.

LARIMER COUNTY GRADING AND EROSION CONTROL NOTES

1. ALL GRADING AND EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS; AND ANY ADDITIONAL LOCAL, STATE, OR FEDERAL REQUIREMENTS.

2. A STATE CONSTRUCTION DEWATERING DISCHARGE PERMIT IS REQUIRED IF DEWATERING IS REQUIRED IN ORDER TO INSTALL THE PIPELINE OR WATER IS DISCHARGED INTO A STORM SEWER, CHANNEL, IRRIGATION DITCH OR ANY WATERS OF THE UNITED STATES.

3. THE CONTRACTOR SHALL COMPLY WITH ALL TERMS AND CONDITIONS OF THE COLORADO PERMIT FOR STORM WATER DISCHARGE (CONTACT COLORADO DEPARTMENT OF HEALTH, WATER QUALITY CONTROL DIVISION, (303) 692-3590), THE STORM WATER MANAGEMENT PLAN, AND THE EROSION CONTROL PLAN.

4. TEMPORARY EROSION CONTROL DURING CONSTRUCTION SHALL BE PROVIDED AS DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS AND SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR. TEMPORARY EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL SUCH TIME AS ALL TRIBUTARY-DISTURBED AREAS ARE SUFFICIENTLY STABILIZED AS DETERMINED BY THE LARIMER COUNTY ENGINEERING DEPARTMENT. WHEN TEMPORARY EROSION CONTROL MEASURES ARE REMOVED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEAN-UP AND REMOVAL OF ALL SEDIMENT AND DEBRIS FROM ALL DRAINAGE AND OTHER PUBLIC FACILITIES.

5. SILT AND SEDIMENT, WITHIN RIGHT-OF-WAY, SHALL BE REMOVED ON A REGULAR BASIS AS NEEDED AND AS DIRECTED BY THE CONSTRUCTION MANAGER OR LARIMER COUNTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT NO MUD OR DEBRIS IS TRACKED ONTO EXISTING ROADS. MUD AND DEBRIS MUST BE REMOVED WITHIN 24 HOURS BY AN APPROPRIATE MECHANICAL METHOD (I.E. MACHINE BROOM SWEEP, LIGHT DUTY FRONT-END LOADER, ETC.) OR AS APPROVED BY LARIMER COUNTY ENGINEERING DEPARTMENT.

6. ALL PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED AND FUNCTIONAL, PRIOR TO ANY OTHER EARTH-DISTURBING ACTIVITY.

7. ANY EROSION CONTROL FACILITY DAMAGED OR DESTROYED PREMATURELY, BY ANY MEANS, SHALL BE IMMEDIATELY REPAIRED BY THE DEVELOPER.

8. THERE SHALL BE NO EARTH-DISTURBING ACTIVITY OUTSIDE THE LIMITS DESIGNATED ON THESE PLANS.

9. TOPSOIL SHALL BE REMOVED, STOCKPILED, AND PROTECTED PRIOR SITE ACCESS BY EQUIPMENT NECESSARY TO CONSTRUCT THE PROJECT.

10. CONDITIONS IN THE FIELD MAY WARRANT EROSION CONTROL MEASURES THAT ARE IN ADDITION TO WHAT IS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL IMPLEMENT WHATEVER MEASURES ARE DETERMINED NECESSARY, AS DIRECTED BY THE LARIMER COUNTY ENGINEERING DEPARTMENT.

11. NEGATIVE IMPACTS TO DOWNSTREAM AREAS CAUSED BY CONTRACTOR ACTIVIITES ARE TO BE CORRECTED BY THE CONTRACTOR IMMEDIATELY. ANY OFF-SITE CLEAN-UP, DIRECTED BY THE LARIMER COUNTY ENGINEERING DEPARTMENT, (INCLUDING STREET CLEANING), SHALL BE COMPLETED WITHIN 24-HOURS OF WRITTEN INSTRUCTION, OR RISK CONSTRUCTION STOPPAGE.

12. ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE PROTECTED, SEEDED, MULCHED, AND RESTORED IN ACCORDANCE SPECIFICATION 32 90 10.

LARIMER COUNTY ROAD IMPROVEMENT NOTES

1. ALL ROAD RECONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.

2. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER AND THE LARIMER COUNTY ENGINEERING DEPARTMENT PRIOR TO RECONSTRUCTION WORK WITHIN THE RIGHT OF WAY INCLUDING BACKFILLING, SUBGRADE PREPARATION, PROOF ROLLING, BASE PLACEMENT, AND THE INCORPORATION OF DUST PALLIATIVES. THE CONTRACTOR'S QUALITY CONTROL REPRESENTATIVES SHOULD BE PRESENT AT ALL TIMES DURING ROAD RECONSTRUCTION. THE LARIMER COUNTY ENGINEERING DEPARTMENT SHOULD BE GIVEN AT LEAST 10 DAYS ADVANCED NOTICE OF RECONSTRUCTION ACTIVITIES. A LARIMER COUNTY ENGINEERING DEPARTMENT REPRESENTATIVE MUST BE PRESENT FOR THESE ACTIVITIES.

3. PROOF ROLLING SHOULD BE PERFORMED ON SUBGRADE PRIOR TO PLACEMENT OF ROAD BASE, AND ON THE ROAD BASE AFTER RIPPING AND THE PLACEMENT OF DUST PALLIATIVE. ALL FAILED AREAS OR MATERIAL WHICH EXHIBITS EXCESSIVE PUMPING OR DEFORMATION SHALL BE REWORKED, REPLACED OR OTHERWISE MODIFIED TO FORM A SMOOTH, NON-YIELDING SURFACE. FOLLOWING PRECIPITATION, ALL AREAS SHOULD BE RE-PROOFROLLED AS NEEDED BASED UPON THE EVALUATION OF THE LARIMER COUNTY ENGINEERING DEPARTMENT.

4. THE CONTRACTOR SHALL PERFORM A MECHANICAL PROOF ROLLS OF THE ENTIRE SUBGRADE AND BASE MATERIAL WITH A HEAVILY LOADED VEHICLE THAT HAS A GROSS VEHICLE WEIGHT (GVW) GREATER THAN 50,000 LBS. AND A SINGLE AXLE WEIGHT GREATER THAN 18,000 LBS. WITH PNEUMATIC TIRES INFLATED A MINIMUM OF 90 P.S.I.G. THE CONTRACTOR SHALL PERFORM PROOF ROLLING AS SPEEDS LESS THAN THAN 3 M.P.H.

5. THE TOP 12 INCHES OF ROAD SUBGRADE SHALL BE SCARIFIED AND RE-COMPACTED PRIOR TO THE PLACEMENT OF AGGREGATE BASE COURSE. NO AGGREGATE BASE SHALL BE LAID UNTIL THE SUBGRADE HAS BEEN INSPECTED AND APPROVED BY CONTRACTOR'S QUALITY CONTROL REPRESENTIVE AND THE LARIMER COUNTY ENGINEERING DEPARTMENT.

6. THE CONTRACTOR'S QUALITY CONTROL REPRESENTIVE SHALL CERTIFY THE MINIMUM THICKNESS OF THE AGGREGATE BASE COURSE REQUIRED BY LARIMER COUNTY.

LARIMER COUNTY STORM DRAINAGE NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF STORM DRAINAGE FACILITIES DURING THE CONSTRUCTION OF THE PROJECT.

2. PRIOR TO COMPLETION OF THE WORK WITHIN THE RIGHT OF WAY, LARIMER COUNTY WILL INSPECT ALL EXISTING AND NEW STORM DRAINAGE FACILTIES TO CERTIFY THE ARE IN WORKING CONDITION AND HAVE BEEN INSTALLED IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS, AND LARIMER COUNTY RURAL AREA ROAD STANDARDS.

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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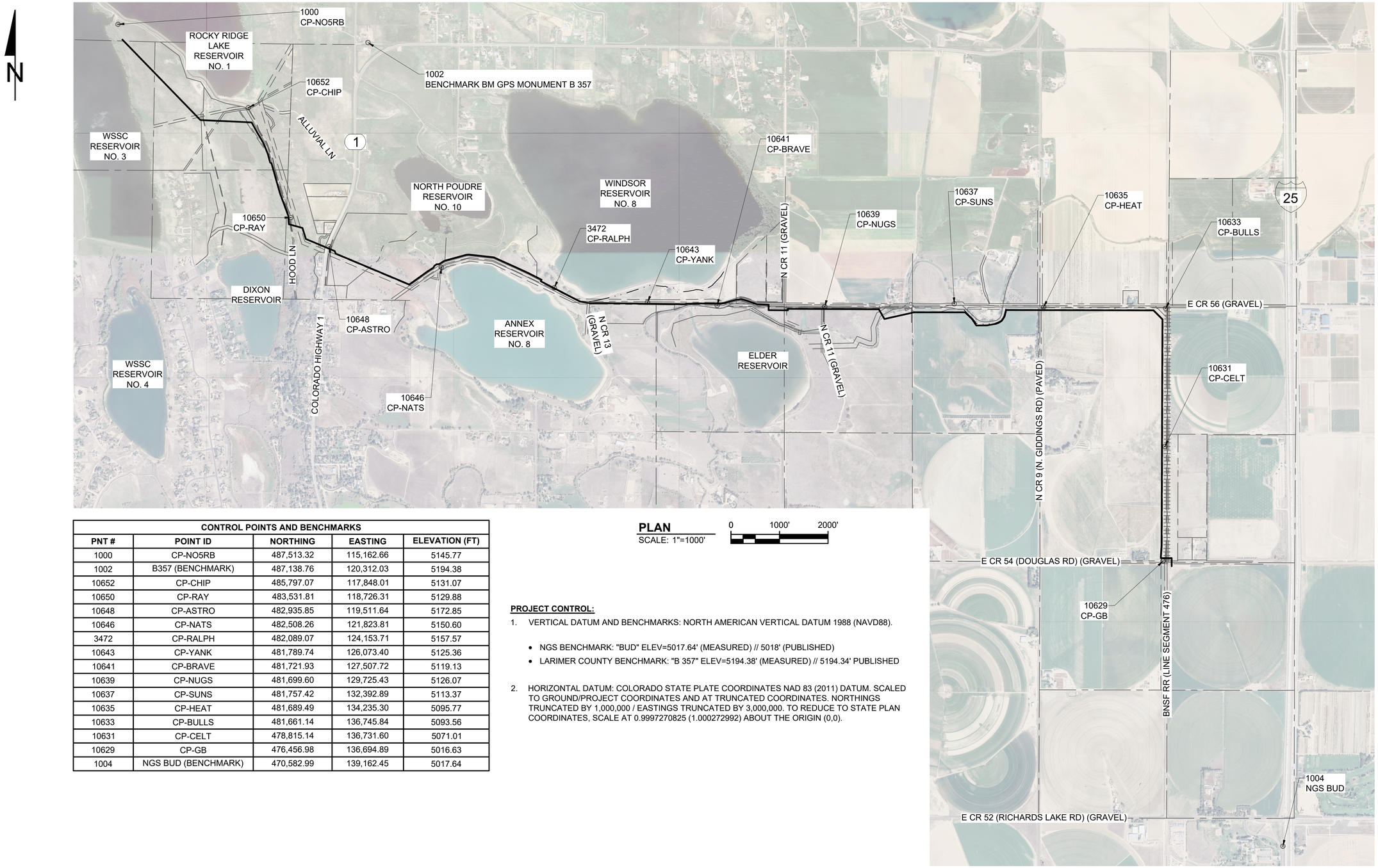
NOT FOR CONSTRUCTION
AUGUST 13, 2026

TWP SEGMENT F.1

LARIMER COUNTY NOTES

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	5 OF 90
DRAWING:	G-005

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\800_CAD\02 - Sheets\G\240009_G-001-005.dwg USER: matthewb
DATE: Aug 13, 2026 12:18pm XREFS: 240009_TTB



CONTROL POINTS AND BENCHMARKS				
PNT #	POINT ID	NORTHING	EASTING	ELEVATION (FT)
1000	CP-NO5RB	487,513.32	115,162.66	5145.77
1002	B357 (BENCHMARK)	487,138.76	120,312.03	5194.38
10652	CP-CHIP	485,797.07	117,848.01	5131.07
10650	CP-RAY	483,531.81	118,726.31	5129.88
10648	CP-ASTRO	482,935.85	119,511.64	5172.85
10646	CP-NATS	482,508.26	121,823.81	5150.60
3472	CP-RALPH	482,089.07	124,153.71	5157.57
10643	CP-YANK	481,789.74	126,073.40	5125.36
10641	CP-BRAVE	481,721.93	127,507.72	5119.13
10639	CP-NUGS	481,699.60	129,725.43	5126.07
10637	CP-SUNS	481,757.42	132,392.89	5113.37
10635	CP-HEAT	481,689.49	134,235.30	5095.77
10633	CP-BULLS	481,661.14	136,745.84	5093.56
10631	CP-CELT	478,815.14	136,731.60	5071.01
10629	CP-GB	476,456.98	136,694.89	5016.63
1004	NGS BUD (BENCHMARK)	470,582.99	139,162.45	5017.64

PLAN
SCALE: 1"=1000'

0 1000' 2000'

PROJECT CONTROL:

1. VERTICAL DATUM AND BENCHMARKS: NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
   - NGS BENCHMARK: "BUD" ELEV=5017.64' (MEASURED) // 5018' (PUBLISHED)
   - LARIMER COUNTY BENCHMARK: "B 357" ELEV=5194.38' (MEASURED) // 5194.34' PUBLISHED
2. HORIZONTAL DATUM: COLORADO STATE PLATE COORDINATES NAD 83 (2011) DATUM. SCALED TO GROUND/PROJECT COORDINATES AND AT TRUNCATED COORDINATES. NORTHINGS TRUNCATED BY 1,000,000 / EASTINGS TRUNCATED BY 3,000,000. TO REDUCE TO STATE PLAN COORDINATES, SCALE AT 0.9997270825 (1.000272992) ABOUT THE ORIGIN (0,0).

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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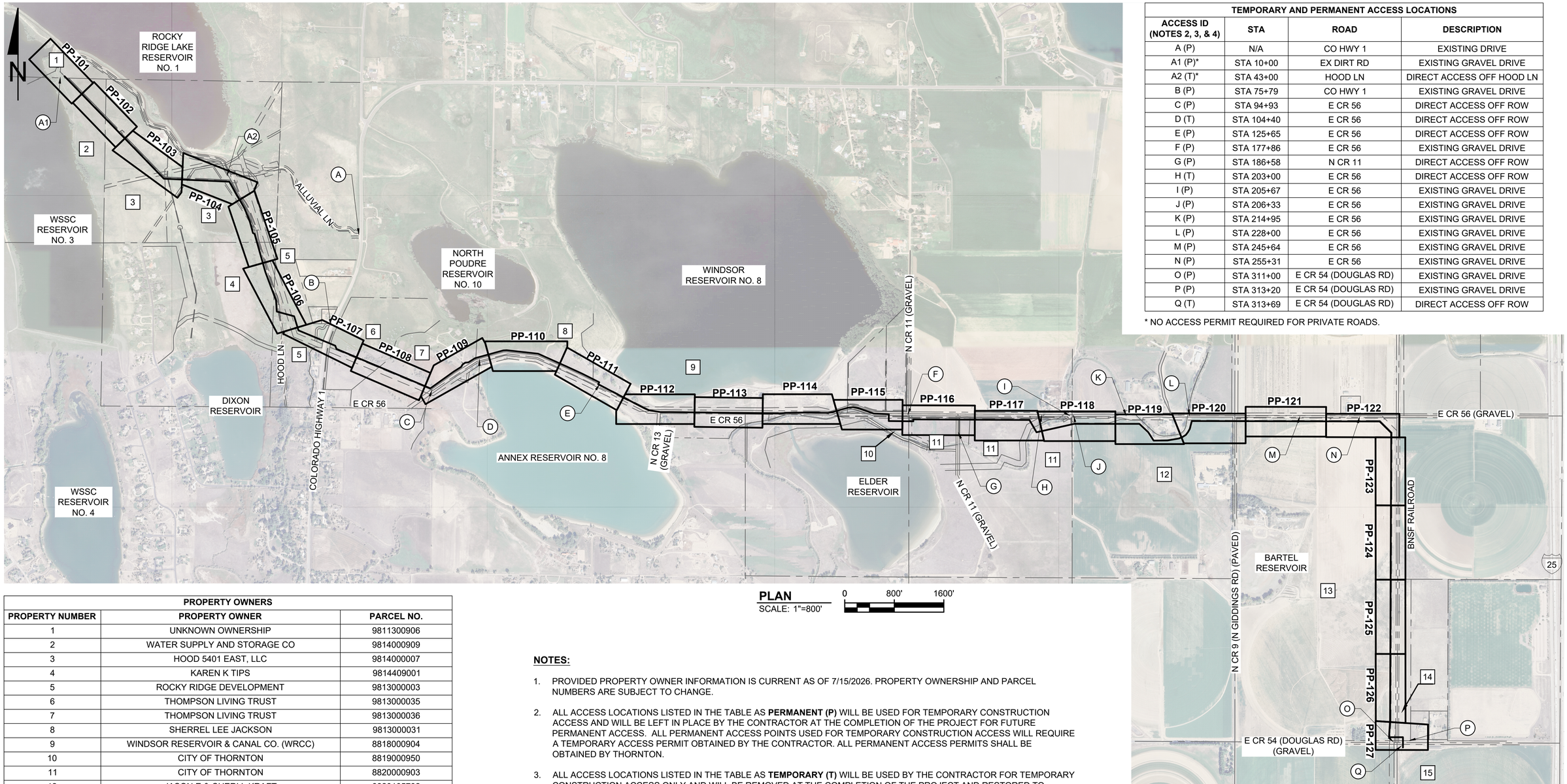
AUGUST 13, 2026

TWP SEGMENT F.1

SURVEY CONTROL

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	6 OF 90
DRAWING:	G-101

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\900 CAD\02 - Sheets\G\240009_G-101.dwg USER: matthewb
DATE: Aug 13, 2026 12:20pm XREFS: 240009_X-PRCL 240009_AERL-G4 240009_AERL-G1 240009_AERL-G2 240009_AERL-G3 240009_X-BASE 240009_TTB



PLAN
SCALE: 1"=800'

0 800' 1600'

TEMPORARY AND PERMANENT ACCESS LOCATIONS			
ACCESS ID (NOTES 2, 3, & 4)	**STA**	**ROAD**	**DESCRIPTION**
A (P)	N/A	CO HWY 1	EXISTING DRIVE
A1 (P)*	STA 10+00	EX DIRT RD	EXISTING GRAVEL DRIVE
A2 (T)*	STA 43+00	HOOD LN	DIRECT ACCESS OFF HOOD LN
B (P)	STA 75+79	CO HWY 1	EXISTING GRAVEL DRIVE
C (P)	STA 94+93	E CR 56	DIRECT ACCESS OFF ROW
D (T)	STA 104+40	E CR 56	DIRECT ACCESS OFF ROW
E (P)	STA 125+65	E CR 56	DIRECT ACCESS OFF ROW
F (P)	STA 177+86	E CR 56	EXISTING GRAVEL DRIVE
G (P)	STA 186+58	N CR 11	DIRECT ACCESS OFF ROW
H (T)	STA 203+00	E CR 56	DIRECT ACCESS OFF ROW
I (P)	STA 205+67	E CR 56	EXISTING GRAVEL DRIVE
J (P)	STA 206+33	E CR 56	EXISTING GRAVEL DRIVE
K (P)	STA 214+95	E CR 56	EXISTING GRAVEL DRIVE
L (P)	STA 228+00	E CR 56	EXISTING GRAVEL DRIVE
M (P)	STA 245+64	E CR 56	EXISTING GRAVEL DRIVE
N (P)	STA 255+31	E CR 56	EXISTING GRAVEL DRIVE
O (P)	STA 311+00	E CR 54 (DOUGLAS RD)	EXISTING GRAVEL DRIVE
P (P)	STA 313+20	E CR 54 (DOUGLAS RD)	EXISTING GRAVEL DRIVE
Q (T)	STA 313+69	E CR 54 (DOUGLAS RD)	DIRECT ACCESS OFF ROW

* NO ACCESS PERMIT REQUIRED FOR PRIVATE ROADS.

PROPERTY OWNERS		
PROPERTY NUMBER	**PROPERTY OWNER**	**PARCEL NO.**
1	UNKNOWN OWNERSHIP	9811300906
2	WATER SUPPLY AND STORAGE CO	9814000909
3	HOOD 5401 EAST, LLC	9814000007
4	KAREN K TIPS	9814409001
5	ROCKY RIDGE DEVELOPMENT	9813000003
6	THOMPSON LIVING TRUST	9813000035
7	THOMPSON LIVING TRUST	9813000036
8	SHERREL LEE JACKSON	9813000031
9	WINDSOR RESERVOIR & CANAL CO. (WRCC)	8818000904
10	CITY OF THORNTON	8819000950
11	CITY OF THORNTON	8820000903
12	JASON E & CHERI L KRAFT	8820105702
13	DOUGLAS L BARTELS	8821000004
14	QTR D, INC	8821000003
15	JOYCE L SCHWARZ	8828000001

NOTES:

1. PROVIDED PROPERTY OWNER INFORMATION IS CURRENT AS OF 7/15/2026. PROPERTY OWNERSHIP AND PARCEL NUMBERS ARE SUBJECT TO CHANGE.
2. ALL ACCESS LOCATIONS LISTED IN THE TABLE AS **PERMANENT (P)** WILL BE USED FOR TEMPORARY CONSTRUCTION ACCESS AND WILL BE LEFT IN PLACE BY THE CONTRACTOR AT THE COMPLETION OF THE PROJECT FOR FUTURE PERMANENT ACCESS. ALL PERMANENT ACCESS POINTS USED FOR TEMPORARY CONSTRUCTION ACCESS WILL REQUIRE A TEMPORARY ACCESS PERMIT OBTAINED BY THE CONTRACTOR. ALL PERMANENT ACCESS PERMITS SHALL BE OBTAINED BY THORNTON.
3. ALL ACCESS LOCATIONS LISTED IN THE TABLE AS **TEMPORARY (T)** WILL BE USED BY THE CONTRACTOR FOR TEMPORARY CONSTRUCTION ACCESS ONLY AND WILL BE REMOVED AT THE COMPLETION OF THE PROJECT AND RESTORED TO PRECONSTRUCTION CONDITIONS OR BETTER. ALL TEMPORARY CONSTRUCTION ACCESSES WILL REQUIRE A TEMPORARY ACCESS PERMIT OBTAINED BY THE CONTRACTOR.
4. ALL ACCESS POINTS OFF OF LARIMER COUNTY RIGHT-OF-WAY MUST MEET LARIMER COUNTY ACCESS STANDARDS.
5. SHOULD THE CONTRACTOR WANT ADDITIONAL TEMPORARY CONSTRUCTION ACCESS LOCATIONS IN ADDITION TO THOSE LISTED IN THE TABLE, APPROVALS/PERMITS MUST BE ACQUIRED FROM THE CITY OF THORNTON, LARIMER COUNTY, CDOT, AND/OR THE AGENCY HAVING JURISDICTION OVER THE RIGHT-OF-WAY.
6. USE OF HOOD LN SOUTH OF THE INTERSECTION OF HOOD LN AND ALLUVIAL LN IS NOT PERMITTED.

LEGEND:

- PROPERTY LINE
- PIPELINE
- [#] PROPERTY ID NUMBER
- (#) ACCESS LOCATION ID NUMBER

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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NOT FOR CONSTRUCTION
AUGUST 13, 2026

TWP SEGMENT F.1

SHEET INDEX, PROPERTY OWNERS, AND ACCESS MAP

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	7 OF 90
DRAWING:	G-102

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\900 CAD\02 - Sheets\G\240009_G-102.dwg USER: matthewb
DATE: Aug 13, 2026 12:21pm XREFS: 240009_X-PRCL 240009_AERL-G4 240009_AERL-G1 240009_AERL-G2 240009_AERL-G3 240009_P-BASE 240009_C-REF 240009_ITB

SHT #	STA	TYPE	PH #	NO/SIZE (IN)		MATERIAL	UTILITY OWNER	QUALITY LEVEL	DATE OF POTHOLE	DEPTH TO T.O.P. (FT)	NOTES
PP-103	32+06	GAS	HOOD-GAS-1	1	6	STL	XCEL (PSCO)	A	6/12/2025	4.2	
	33+39	GAS	HOOD-GAS-2				XCEL (PSCO)	N/A	DNP	N/A	POTENTIALLY ABANDONED, MAY NOT EXIST (NOTE 2)
	33+45	GAS	HOOD-GAS-3				XCEL (PSCO)	N/A	DNP	N/A	POTENTIALLY ABANDONED, MAY NOT EXIST (NOTE 2)
	33+72	GAS	HOOD-GAS-4	1	1	PVC	XCEL (PSCO)	A	2/18/2026	3.6	
PP-104	36+82	WTR	HOOD-WAT-1	1	12	PVC	ELCO	A	6/12/2025	6	
PP-107	75+78	WTR	RRDI-WAT-1	1	6	AC	ELCO	A	6/12/2025	7.4	
	77+02	FO	LCROW-FO-1	1	2	POLY	UNKOWN	A	6/20/2025	2.3	
PP-108	92+36	GAS	THOMP-GAS-1	1	6	STL	XCEL (PSCO)	A	9/22/2025	2.1	
PP-110	116+81	WTR	JACKSON-WAT-1	1	2	PVC	PRIVATE	A	9/22/2025	4.7	
PP-111	125+32	WTR	LCROW-WAT-1	1	8	PVC	ELCO	A	7/14/2025	5.9	
	129+39	DRAIN	RESERVOIR CONNECTOR	1	48	RCP	WRCC	B	DNP	33.8	DEPTH ESTIMATED USING EXISTING DRAWINGS
PP-112	133+76	ELEC	LCROW-E-1	1	3	PVC	PVREA	A	8/14/2025	8.7	
		ELEC	LCROW-E-1 B	1	3	PVC	PVREA	A	8/14/2025	4.2	
	NORTH OF ALIGNMENT	WTR	LCROW-WAT-9	1	12	PVC	ELCO	A	6/27/2025	5.6	
	135+08	IRR	LCROW-STM-1	1	15 TO 18	CLAY	PRIVATE	A	DNP	3.6	
	NORTH OF ALIGNMENT	WTR	LCROW-WAT-2	1	8	PVC	ELCO	A	6/27/2025	4.4	
	NORTH OF ALIGNMENT	WTR	LCROW-WAT-2 B	1	2	PVC	ELCO	D	8/14/2025	DNF	
	136+31	WTR	LCROW-WAT-2 C	1	2	PVC	ELCO	D	8/15/2025	DNF	
	136+40	FO	LCROW-FO-2	1	0.5	DB	CENTURY LINK	A	6/27/2025	3	
	NORTH OF ALIGNMENT	WTR	LCROW-WAT-10	1	2	PVC	ELCO	D	8/26/2025	DNF	
PP-113	NORTH OF ALIGNMENT	WTR	LCROW-WAT-10 B	1	2	PVC	ELCO	D	8/26/2025	DNF	
	151+15	STM	LCROW-STM-2	1	18	ADS	LARIMER COUNTY	A	DNP	1.5	
	151+76	ELEC	LCROW-E-2	1	4	PVC	PVREA	A	6/27/2025	7.2	
		ELEC	LCROW-E-2 B	1	2	PVC	PVREA	A	8/5/2025	4.9	
	NORTH OF ALIGNMENT	GAS	LCROW-GAS-1	1	2	POLY	COLORADO DEPARTMENT OF NATURAL RESOURCES - ORPHAN WELL PROGRAM	D	8/15/2025	DNF	POTENTIALLY ABANDONED
	SOUTH OF ALIGNMENT	GAS	LCROW-GAS-1 B	1	2	POLY	COLORADO DEPARTMENT OF NATURAL RESOURCES - ORPHAN WELL PROGRAM	D	8/15/2025	DNF	POTENTIALLY ABANDONED
PP-114	NORTH OF ALIGNMENT	WTR	LCROW-WAT-11	1	2	PVC	ELCO	A	8/26/2025	5.6	
	155+95	GAS	LCROW-GAS-2	1	8	STL	COLORADO DEPARTMENT OF NATURAL RESOURCES - ORPHAN WELL PROGRAM	A	8/14/2025	8.1	POTENTIALLY ABANDONED
	NORTH OF ALIGNMENT	FO	LCROW-FO-8	1	0.5	DB	CENTURY LINK	A	8/14/2025	2.2	
	156+70	DRAIN	RESERVOIR OUTLET	1	60/54	ARCH RCP/HDPE	WRCC	B	DNP	16.9	DEPTH ESTIMATED USING EXISTING DRAWINGS; 60" ARCH PIPE WITH 54" OD HDPE SLIPLINE
	156+70	ELEC					WRCC	D	DNP		ELEC IS ALONG TOP OF RESERVOIR NO. 8 OUTLET; CONSTRACTOR TO VERIFY LOCATION PRIOR TO CONSTRUCTION
	SOUTH OF ALIGNMENT	ELEC	LCROW-E-4	2	2	PVC	WRCC	A	8/26/2025	7	
	157+87	STM	LCROW-STM-3	1	30	CMP	LARIMER COUNTY	A	DNP	2.8	
	SOUTH OF ALIGNMENT	ELEC	LCROW-E-4 B	2	4 & 2	PVC	PVREA	A	8/26/2025	6.7	
	NORTH OF ALIGNMENT	WTR	LCROW-WAT-12	1	2	PVC	ELCO	A	8/28/2025	4.9	
PP-115	166+79	STM	LCROW-STM-4	1	12	CMP	LARIMER COUNTY	A	DNP	2.2	
	NORTH OF ALIGNMENT	WTR	LCROW-WAT-11 B	1	2	PVC	ELCO	D	8/26/2025	DNF	
	NORTH OF ALIGNMENT	WTR	LCROW-WAT-12 B	1	2	PVC	ELCO	D	8/28/2025	DNF	
	174+08	ELEC	THORNTON-E-1	2	2 & 8	PVC	PVREA	A	6/11/2025	4.7	
PP-116	178+21	GAS	THORNTON-GAS-1	1	8	STL	XCEL (PSCO)	A	6/11/2025	3.5	
	186+19	WTR	LCROW-WAT-5	1	12	AC	ELCO	A	6/19/2025	6.1	
	186+51	FO	LCROW-FO-5	1	0.25	DB	COMCAST	A	6/19/2025	2	
	186+66	ELEC	THORNTON-E-2	1	3	PVC	PVREA	A	6/19/2025	4.7	
	SOUTH OF ALIGNMENT	WTR	THORNTON-WAT-1	1	3	STL	COLORADO DEPARTMENT OF NATURAL RESOURCES - ORPHAN WELL PROGRAM	D	8/15/2025	DNF	POTENTIALLY ABANDONED
PP-118	205+82	ELEC	THORNTON-E-3	1	4	POLY	XCEL (PSCO)	A	7/10/2025	8	
PP-120	235+42	WTR	LCROW-WAT-6	1	24	STL	PRPA	A	8/14/2025	6.3	
	235+48	FO	LCROW-FO-6 WEST	3	4, 4 & 1/4	POLY, POLY, DB	COMCAST	A	6/19/2025	2.2	
	235+50	WTR	LCROW-WAT-7	1	2	PVC	ELCO	A	8/14/2025	6.1	
	235+53	FO	LCROW-FO-6 EAST		1	DB	COMCAST	A	6/19/2025	4	
	235+57	ELEC	BARTELS-E-1	2	2	POLY	XCEL (PSCO)	A	6/19/2025	3.1	
PP-122	250+40	WTR	BARTELS-WAT-1	1	8	PVC	PRIVATE	A	11/19/2025	2.9	
	250+41	ELEC	BARTELS-E-2	1	1.25	POLY	PRIVATE	A	11/19/2025	3.6	
PP-127	313+51	FO	LCROW-FO-7				UNKNOWN	D	6/20/2025	DNF	
	313+73	WTR	LCROW-WAT-8	1	2.5	PVC	ELCO	A	7/15/2025	7.2	
	313+88	IRR	-	1	18	CLAY	PRIVATE	A	DNP	0	

QUALITY LEVEL DEFINITIONS

QUALITY LEVEL A: PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT. MINIMALLY INTRUSIVE EXCAVATION EQUIPMENT IS TYPICALLY USED TO MINIMIZE THE POTENTIAL FOR UTILITY DAMAGE. A PRECISE HORIZONTAL AND VERTICAL LOCATION, AS WELL AS OTHER UTILITY ATTRIBUTES, IS SHOWN ON PLAN DOCUMENTS. ACCURACY IS TYPICALLY SET TO 15-MM VERTICAL AND TO APPLICABLE HORIZONTAL SURVEY AND MAPPING ACCURACY AS DEFINED OR EXPECTED BY THE PROJECT OWNER.

QUALITY LEVEL B: INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. QUALITY LEVEL B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS.

QUALITY LEVEL C: INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGEMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION.

QUALITY LEVEL D: INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.

NOTES:

1. DEPTH TO T.O.P. SHOWN IN TABLE CORRESPONDS TO DEPTH TO TOP OF UTILITY WHERE POTHOLE WAS EXCAVATED.
2. TRENCH WAS DUG VIA HYDROEXCAVATING BETWEEN HOOD-GAS-2 AND HOOD-GAS-3. NO UTILITIES COULD BE FOUND. XCEL ALSO DOES NOT HAVE ANY EVIDENCE OF GAS LINES HERE.

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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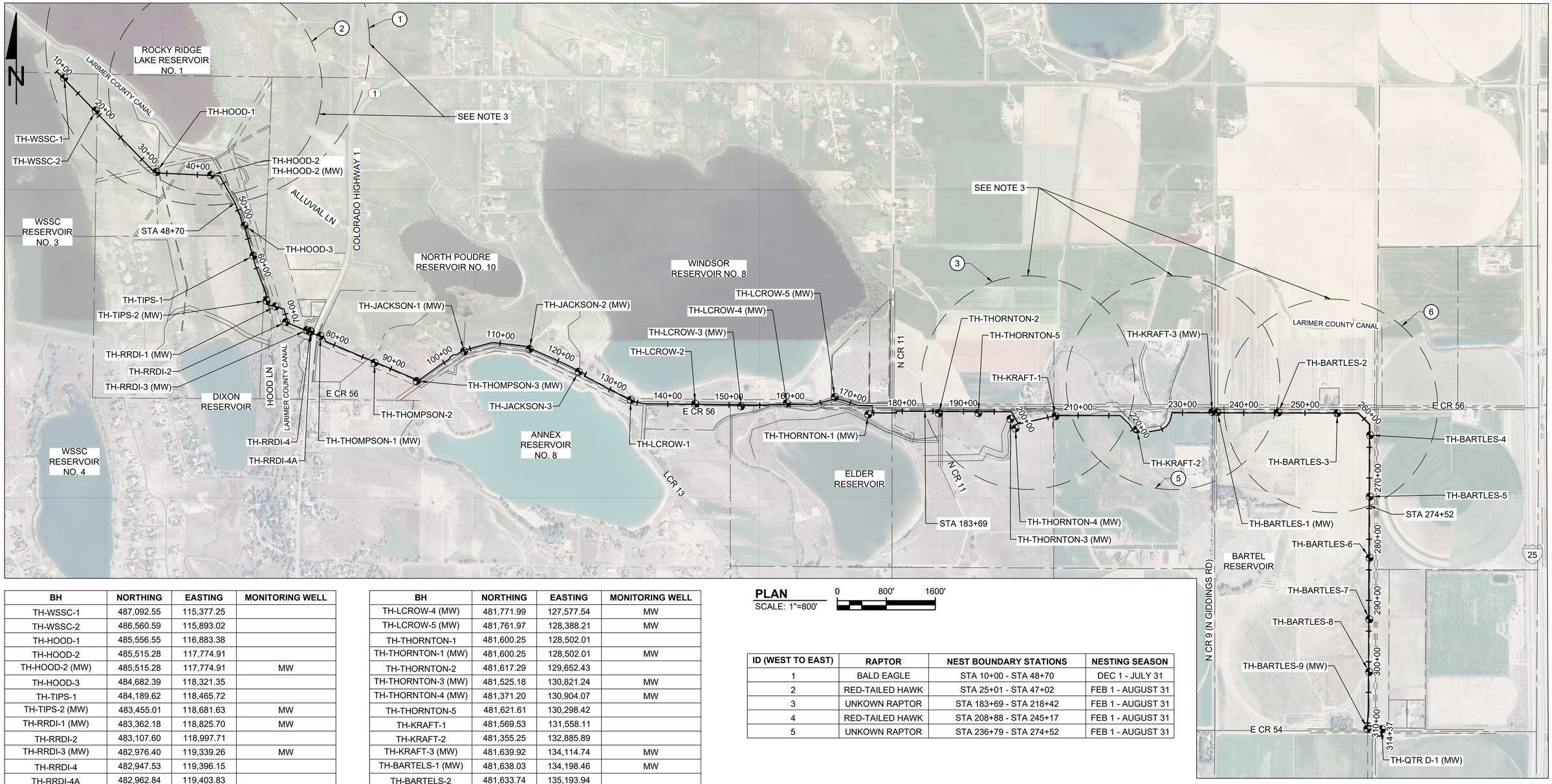
ISSUED FOR BIDDING
NOT FOR CONSTRUCTION
AUGUST 13, 2026

TWP SEGMENT F.1

UNDERGROUND UTILITY SCHEDULE

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	8 OF 90
DRAWING:	G-103

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\900 CAD\02 - Sheets\G\240009_G-103.dwg USER: matthewb
DATE: Aug 13, 2026 12:21pm XREFS: 240009_TTB



BH	NORTHING	EASTING	MONITORING WELL
TH-WSSC-1	487,092.55	115,377.25	
TH-WSSC-2	486,560.59	115,893.02	
TH-HOOD-1	485,556.55	116,883.38	
TH-HOOD-2	485,515.28	117,774.91	
TH-HOOD-2 (MW)	485,515.28	117,774.91	MW
TH-HOOD-3	484,682.39	118,321.35	
TH-TIPS-1	484,189.62	118,465.72	
TH-TIPS-2 (MW)	483,455.01	118,681.63	MW
TH-RRDI-1 (MW)	483,362.18	118,825.70	MW
TH-RRDI-2	483,107.60	118,997.71	
TH-RRDI-3 (MW)	482,976.40	119,339.26	MW
TH-RRDI-4	482,947.53	119,396.15	
TH-RRDI-4A	482,962.84	119,403.83	
TH-THOMPSON-1 (MW)	482,883.07	119,559.73	MW
TH-THOMPSON-2	482,442.99	120,444.26	
TH-THOMPSON-3 (MW)	482,145.68	121,131.97	MW
TH-JACKSON-1 (MW)	482,630.71	121,905.78	MW
TH-JACKSON-2 (MW)	482,670.22	122,975.65	MW
TH-JACKSON-3	482,297.77	123,776.96	
TH-LCROW-1	481,837.56	124,624.93	
TH-LCROW-2	481,775.30	125,677.26	
TH-LCROW-3 (MW)	481,767.66	126,613.47	MW

BH	NORTHING	EASTING	MONITORING WELL
TH-LCROW-4 (MW)	481,771.99	127,577.54	MW
TH-LCROW-5 (MW)	481,761.97	128,388.21	MW
TH-THORNTON-1	481,600.25	128,502.01	
TH-THORNTON-1 (MW)	481,600.25	128,502.01	MW
TH-THORNTON-2	481,617.29	129,652.43	
TH-THORNTON-3 (MW)	481,525.18	130,821.24	MW
TH-THORNTON-4 (MW)	481,371.20	130,904.07	MW
TH-THORNTON-5	481,621.61	130,298.42	
TH-KRAFT-1	481,569.53	131,558.11	
TH-KRAFT-2	481,355.25	132,885.89	
TH-KRAFT-3 (MW)	481,639.92	134,114.74	MW
TH-BARTELS-1 (MW)	481,638.03	134,198.46	MW
TH-BARTELS-2	481,633.74	135,193.94	
TH-BARTELS-3	481,620.52	136,156.97	
TH-BARTELS-4	481,261.89	136,692.50	
TH-BARTELS-5	480,259.52	136,689.29	
TH-BARTELS-6	479,261.71	136,684.32	
TH-BARTELS-7	478,255.48	136,679.84	
TH-BARTELS-8	477,396.58	136,677.23	
TH-BARTELS-9 (MW)	476,466.69	136,647.69	MW
TH-QTR D-1 (MW)	476,463.76	136,886.29	MW

PLAN
SCALE: 1"=800'

0 800' 1600'

ID (WEST TO EAST)	RAPTOR	NEST BOUNDARY STATIONS	NESTING SEASON
1	BALD EAGLE	STA 10+00 - STA 48+70	DEC 1 - JULY 31
2	RED-TAILED HAWK	STA 25+01 - STA 47+02	FEB 1 - AUGUST 31
3	UNKOWN RAPTOR	STA 183+69 - STA 218+42	FEB 1 - AUGUST 31
4	RED-TAILED HAWK	STA 208+88 - STA 245+17	FEB 1 - AUGUST 31
5	UNKOWN RAPTOR	STA 236+79 - STA 274+52	FEB 1 - AUGUST 31

LEGEND:

- TH-## — BOREHOLE LOCATION
- (#) — RAPTOR NEST ID NUMBER
- PROPERTY LINE
- PIPELINE

NOTES:

1. FOR DETAILED GEOTECHNICAL / SUBSURFACE INFORMATION REFERENCE THE BRIERLEY ASSOCIATES GEOTECHNICAL BASELINE REPORT AND CMT TECHNICAL SERVICES GEOTECHNICAL DATA REPORT AND GEOTECHNICAL DESIGN MEMORANDUM INCLUDED WITH THE PROJECT CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL PROTECT MONITORING WELLS (MW) DURING CONSTRUCTION AND TAKE RESPONSIBILITY FOR WELL ABANDONMENT AFTER CONSTRUCTION IS COMPLETE. SEE SPEC SECTIONS 01 41 10 & 01 20 20.
3. SEE SPEC SECTION 01 41 10 FOR REQUIREMENTS AND RESTRICTIONS WHEN WORKING IN RAPTOR NEST BOUNDARIES.

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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AUGUST 13, 2026

TWP SEGMENT F.1

GEOTECHNICAL BORING LOCATIONS & RAPTOR BUFFERS

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	9 OF 90
DRAWING:	G-104

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\800 CAD\02 - Sheets\G\240009_G-104.dwg USER: matthewb
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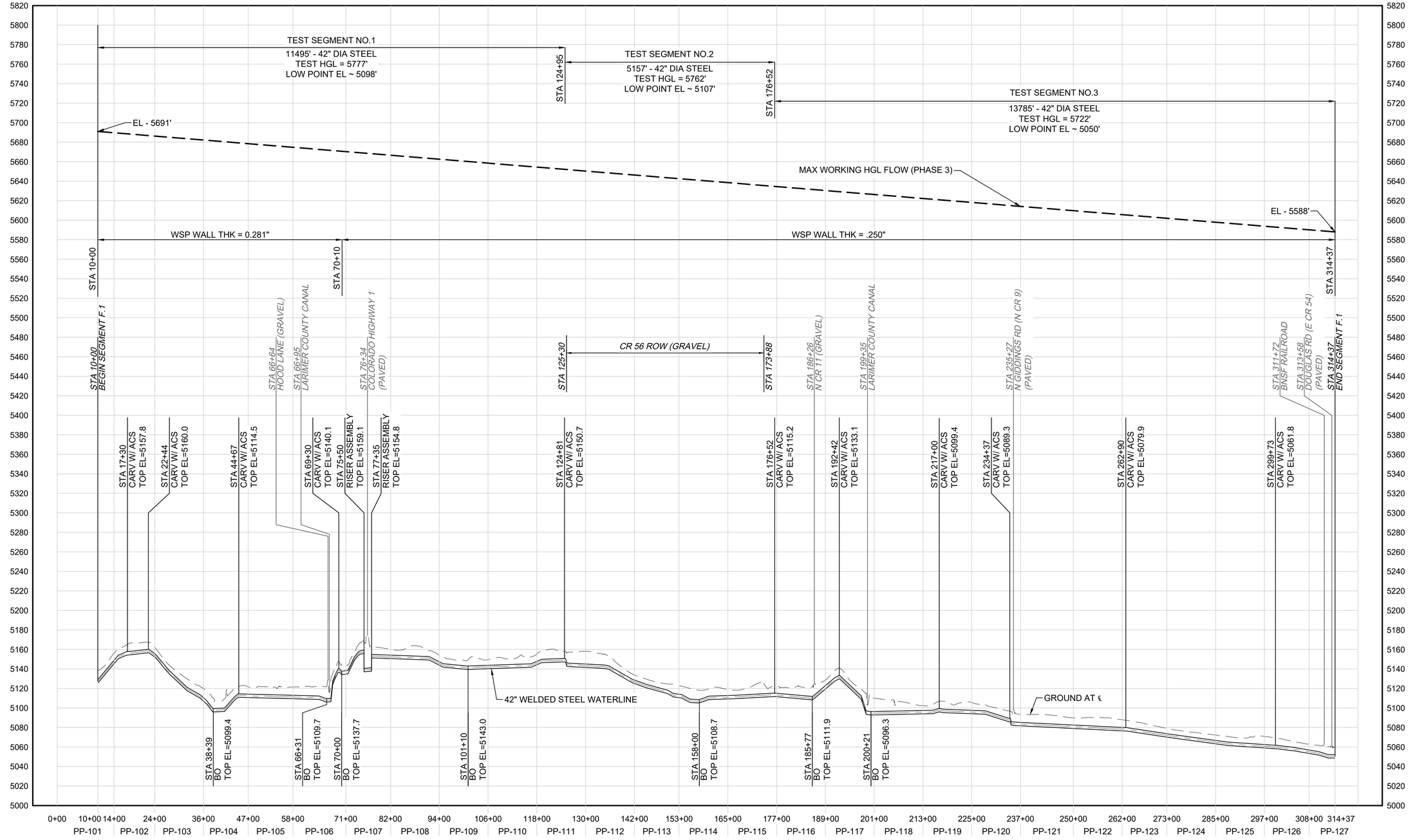

HYDRAULIC PROFILE

SCALE: 1"=1200'H; 1"=50'V

GENERAL NOTES:

1. THE DESIGN HGL SHOWN IS THE MAXIMUM HGL TAKING INTO CONSIDERATION STATIC, PUMPED, AND GRAVITY FLOW CONDITIONS.

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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NOT FOR CONSTRUCTION
AUGUST 13, 2026

TWP SEGMENT F.1

HYDRAULIC / CONDENSED PROFILE

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	10 OF 90
DRAWING:	PP-001

DWG: Z:\Stanet\200 Projects\240009 (TWP-F)\900 CAD\02 - Sheets\PP\240009_PP-001.dwg USER: matthewb
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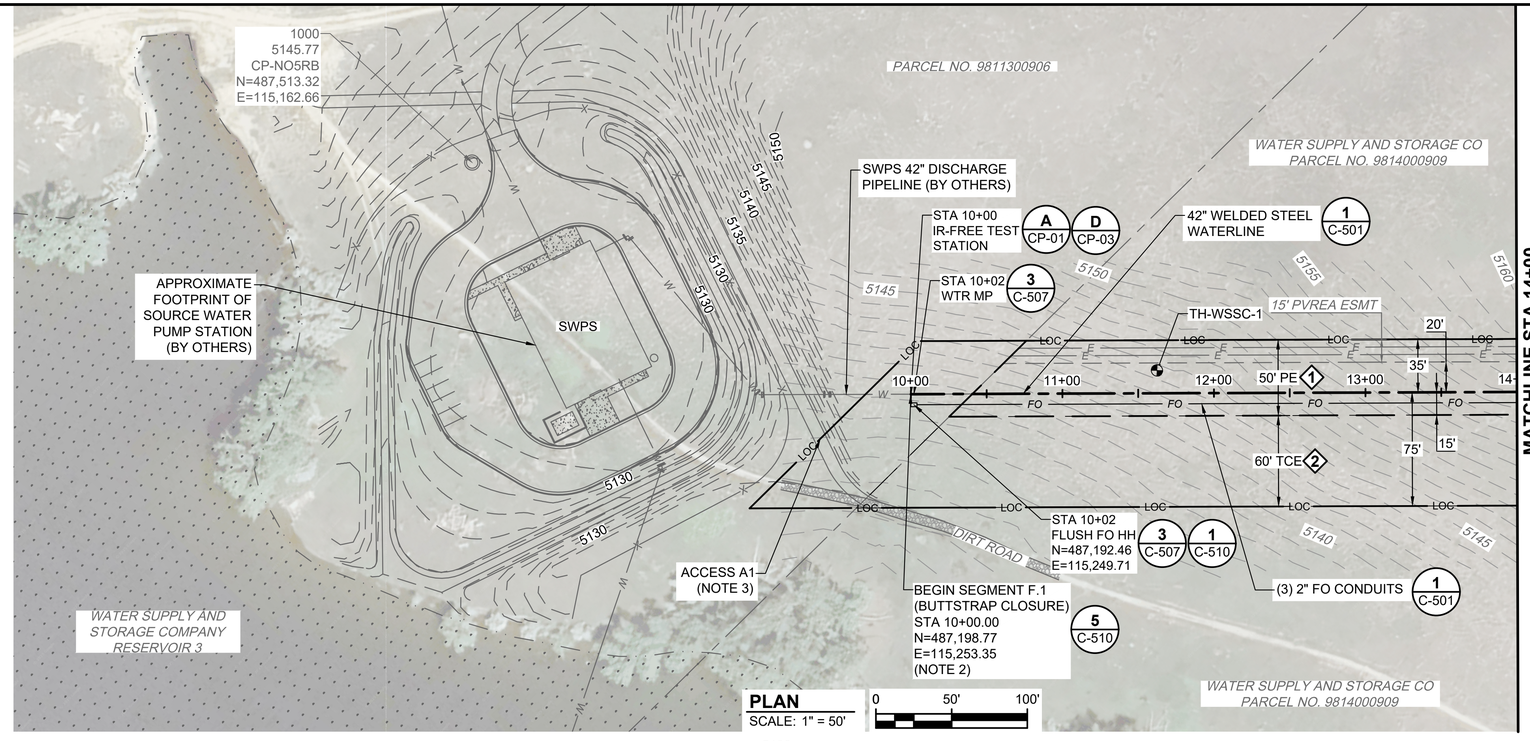
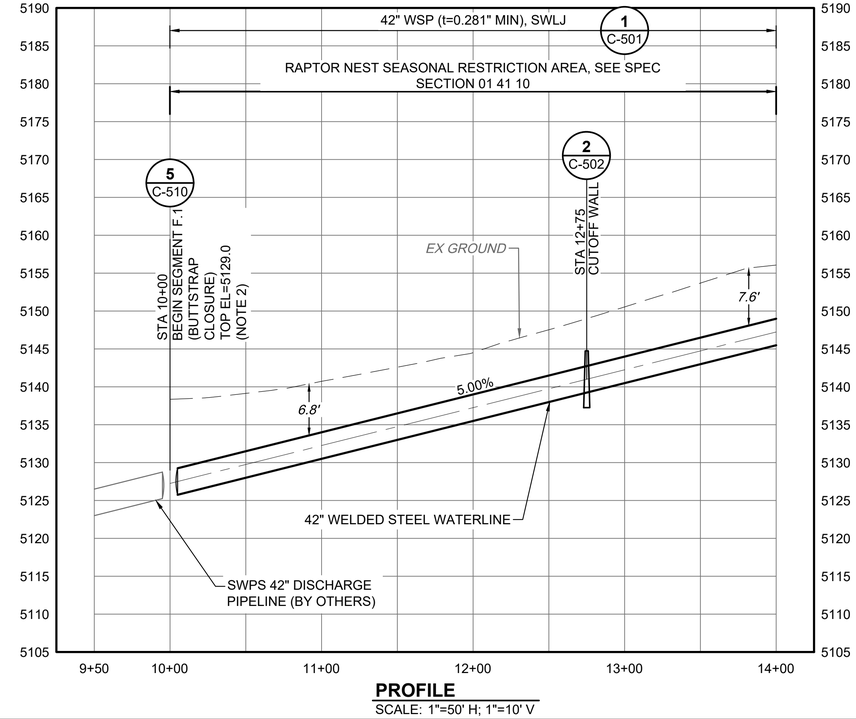


PLAN
SCALE: 1" = 50'

0 50' 100'



PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. PRESSURE TEST PIPELINE PRIOR TO REMOVING BULKHEADS AND MAKING CONNECTION TO THE SWPS 42" DISCHARGE PIPELINE. COORDINATE WITH SWPS CONTRACTOR.
3. ACCESS TO BE COORDINATED WITH SWPS CONTRACTOR.

CITY OF THORNTON EASEMENT SUMMARY			
ID	TIER #	EASEMENT TYPE	RECEPTION #
1	54-5PE	WATERLINE	20260021149
2	54-5TE	TEMPORARY ACCESS AND CONSTRUCTION	20260021151

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THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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ISSUED FOR BIDDING
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AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE
STA 10+00 TO STA 14+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	11 OF 90
DRAWING:	PP-101

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\900 CAD\02 - Sheets\PP\240009_PP-101-PP-106.dwg USER: matthewb
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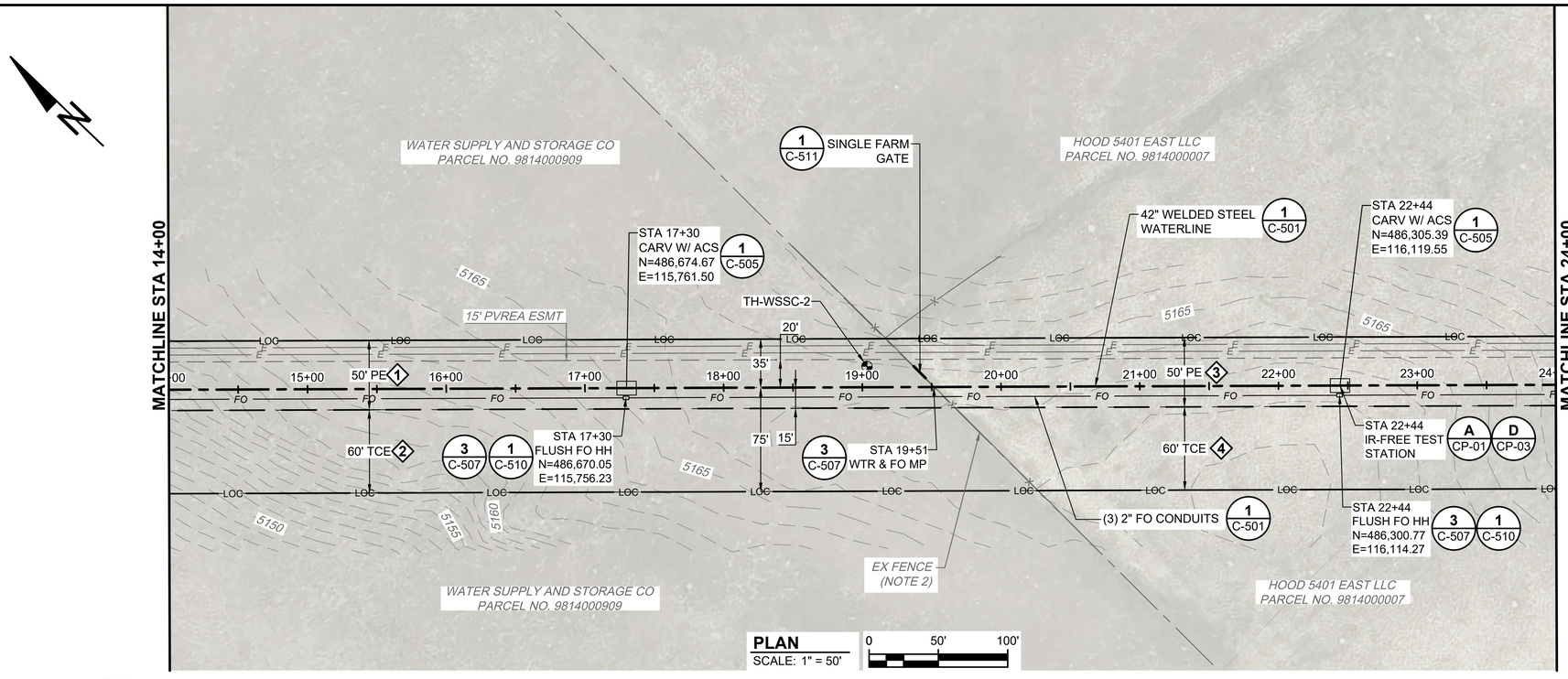

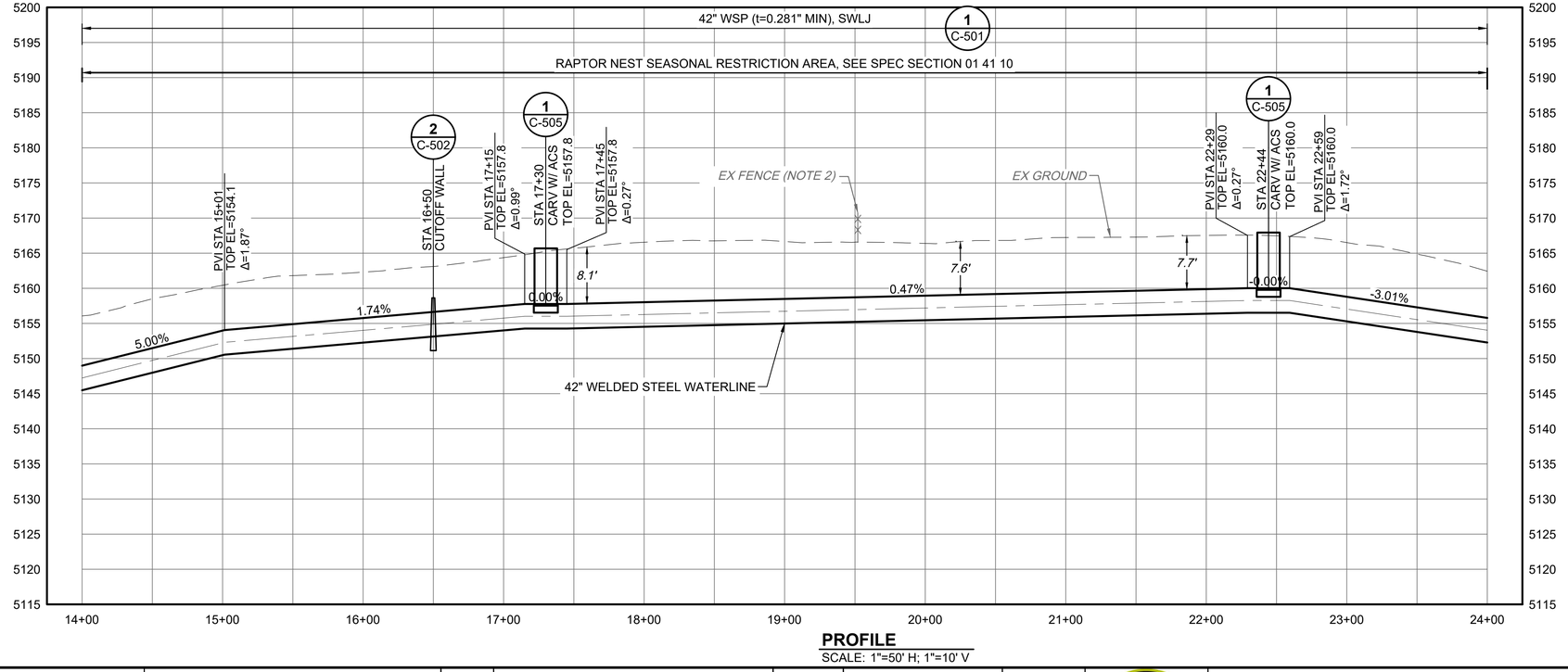

PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. REMOVE AND REPLACE FENCE IN KIND TO MATCH EXISTING WITHIN LOC.

CITY OF THORNTON EASEMENT SUMMARY			
ID	TIER #	EASEMENT TYPE	RECEPTION #
1	54-5PE	WATERLINE	20260021149
2	54-5TE	TEMPORARY ACCESS AND CONSTRUCTION	20260021151
3	54-4PE	WATERLINE	20250049280
4	54-4TE	TEMPORARY ACCESS AND CONSTRUCTION	20250049278

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THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE
STA 14+00 TO STA 24+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	12 OF 90
DRAWING:	PP-102

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\800 CAD\02 - Sheets\PP\240009_PP-101-PP-106.dwg USER: matthewb
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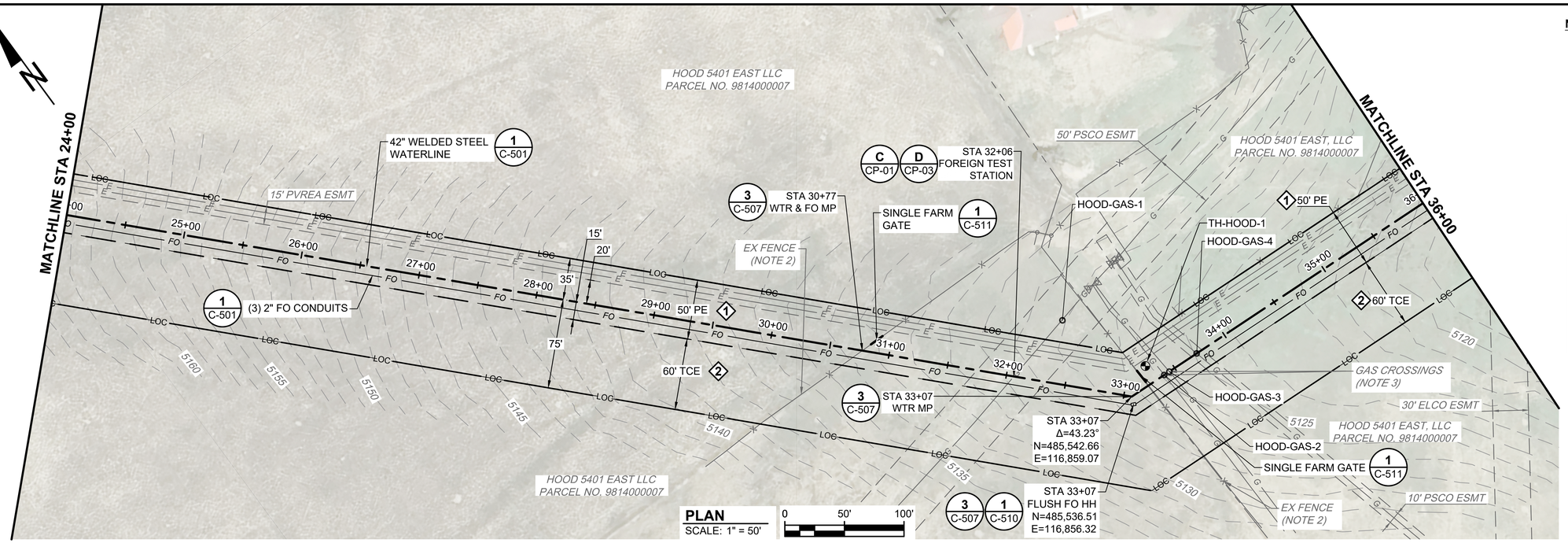

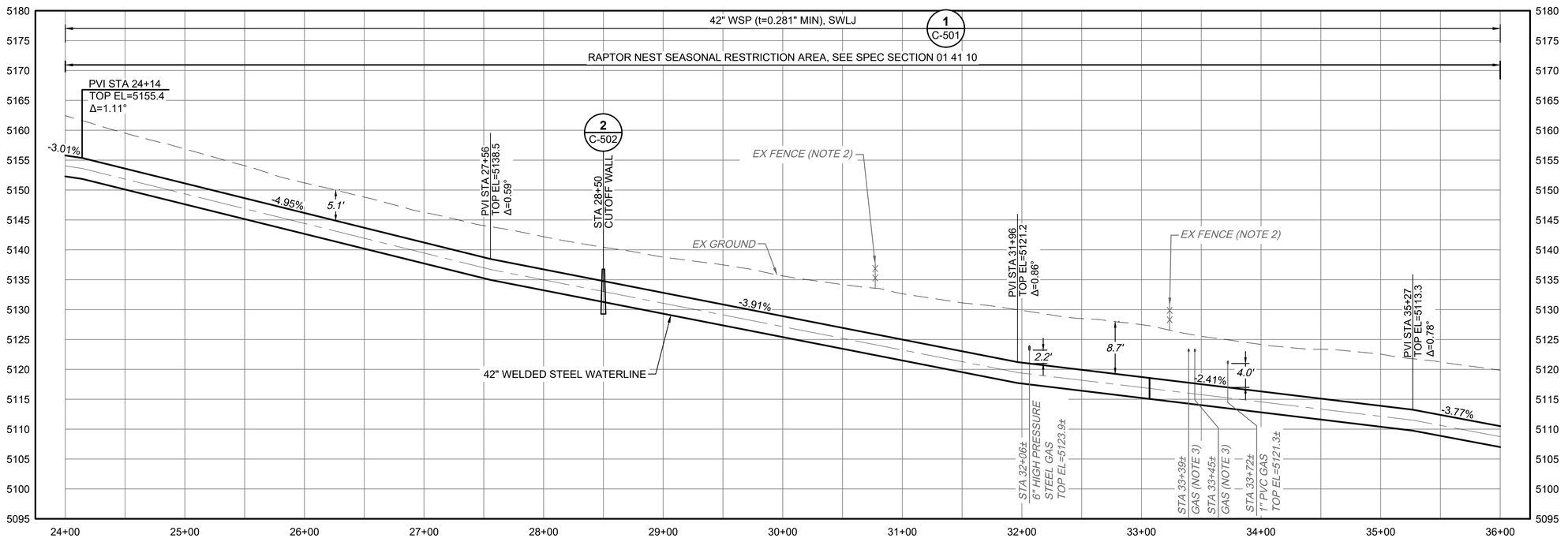

PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. REMOVE AND REPLACE FENCE IN KIND TO MATCH EXISTING WITHIN LOC.
3. GAS FACILITY OWNER STATED GAS LINES WERE EITHER REMOVED OR ABANDONED AND COULD NOT BE LOCATED. CONTRACTOR TO CONFIRM GAS LINE IS NOT IN CONFLICT AND PROVIDE SUFFICIENT LEAD TIME FOR ANY REQUIRED DESIGN REVISIONS.

CITY OF THORNTON EASEMENT SUMMARY			
ID	TIER #	EASEMENT TYPE	RECEPTION #
1	54-4PE	WATERLINE	20250049280
2	54-4TE	TEMPORARY ACCESS AND CONSTRUCTION	20250049278

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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811
SAFE DIGGING PARTNER

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NOT FOR CONSTRUCTION
AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA 24+00 TO STA 36+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	13 OF 90
DRAWING:	PP-103

DWG: Z:\Share\200 Projects\240009 (TWP-F)\900 CAD\02 - Sheets\PP\240009_PP-101+PP-106.dwg
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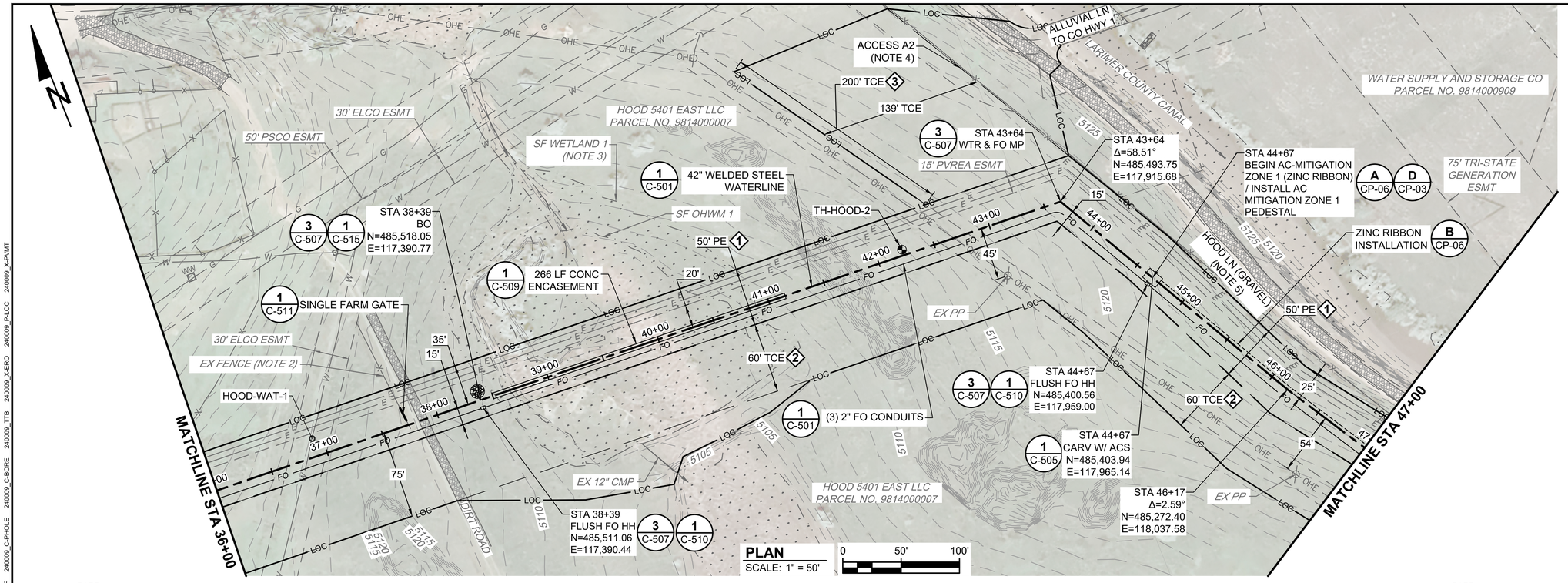

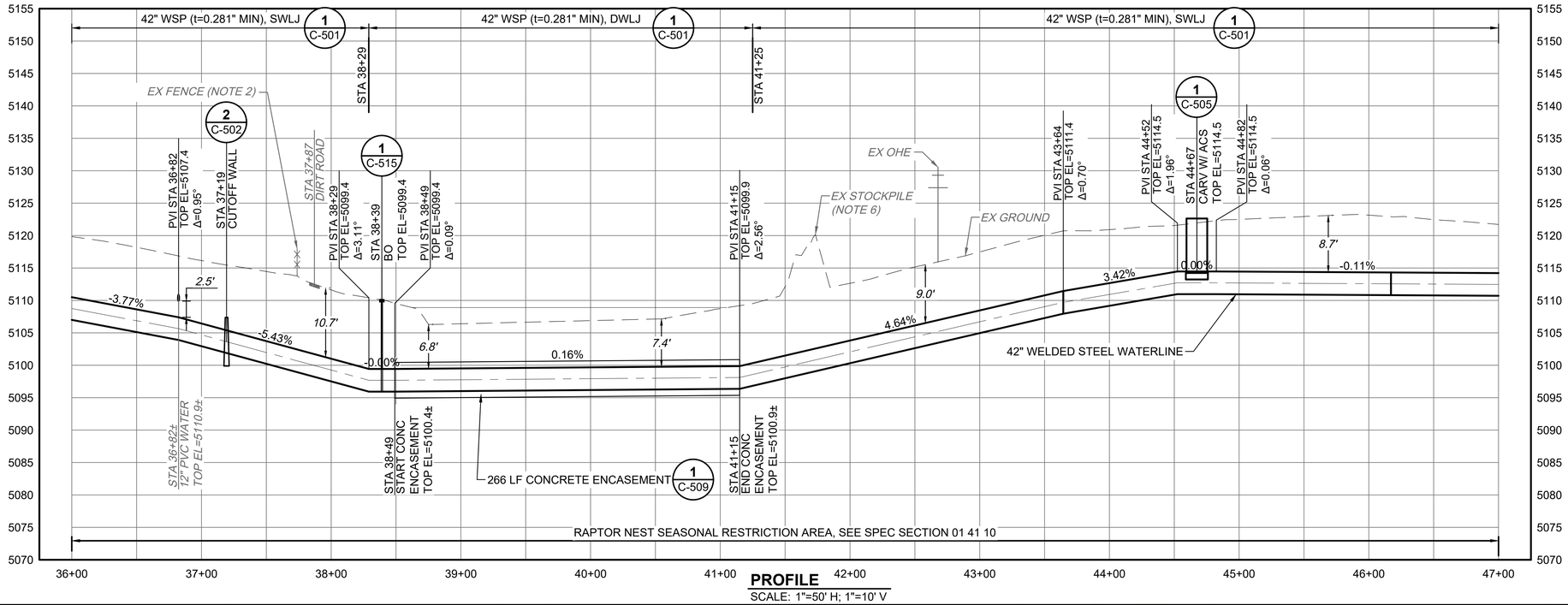

PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. REMOVE AND REPLACE FENCE IN KIND TO MATCH EXISTING WITHIN LOC.
3. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR WETLAND CROSSING REQUIREMENTS. NWP 58 EXPIRATION 3/15/2031.
4. CONTRACTOR TO BUILD TEMPORARY CONSTRUCTION ACCESS. TEMPORARY ACCESS TO BE REMOVED AND RESTORED IN ACCORDANCE WITH SPEC 32 90 10 NO LATER THAN 1/3/2028.
5. USE OF HOOD LANE SOUTH OF ALLUVIAL LN IS PROHIBITED.
6. CONTRACTOR TO COORDINATE WITH PROPERTY OWNER TO MOVE EXISTING STOCKPILE WITHIN THE LOC TO ANOTHER LOCATION ON THE OWNERS PROPERTY.

CITY OF THORNTON EASEMENT SUMMARY			
ID	TIER #	EASEMENT TYPE	RECEPTION #
1	54-4PE	WATERLINE	20250049280
2	54-4TE	TEMPORARY ACCESS AND CONSTRUCTION	20250049278
3	54-4TE6	TEMPORARY ACCESS AND CONSTRUCTION	20260025137

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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CONTACT 811 BEFORE YOU DIG 811 SAFE DIGGING PARTNER

ISSUED FOR BIDDING
NOT FOR CONSTRUCTION
AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA 36+00 TO STA 47+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	14 OF 90
DRAWING:	PP-104

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\900 CAD\02 - Sheets\PP\240009_PP-101-PP-106.dwg
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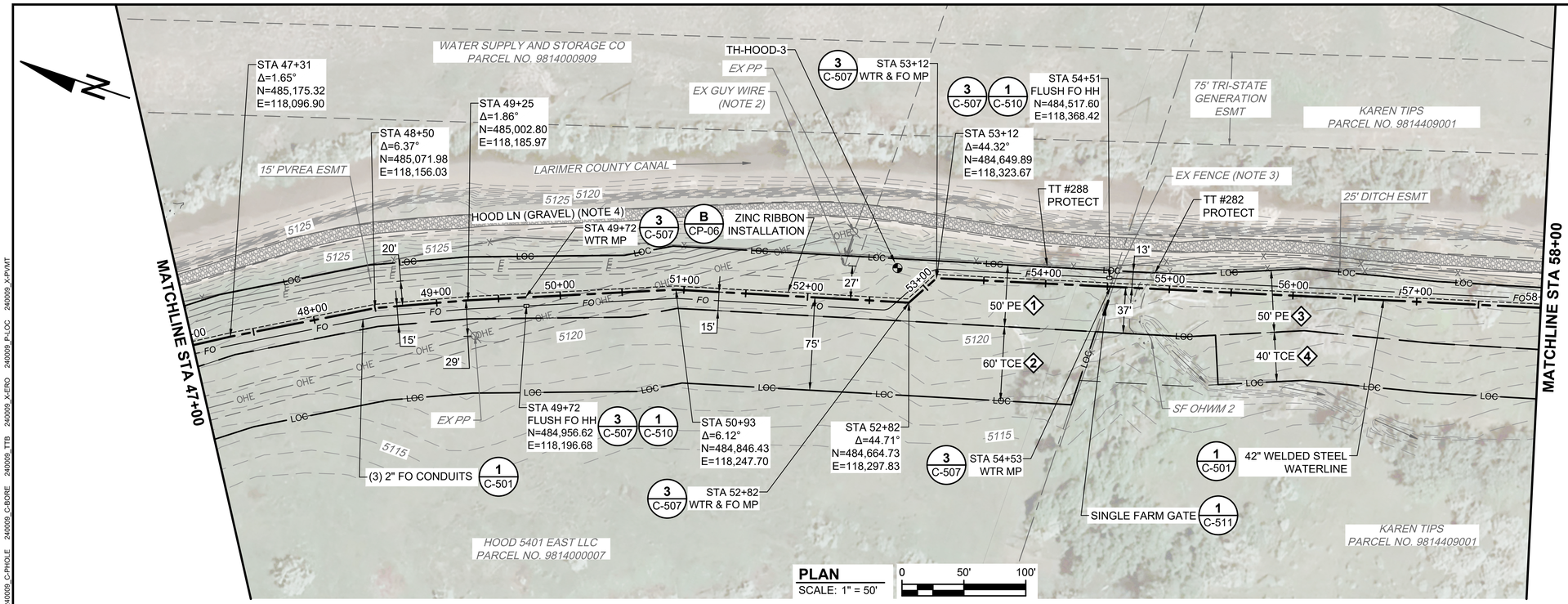
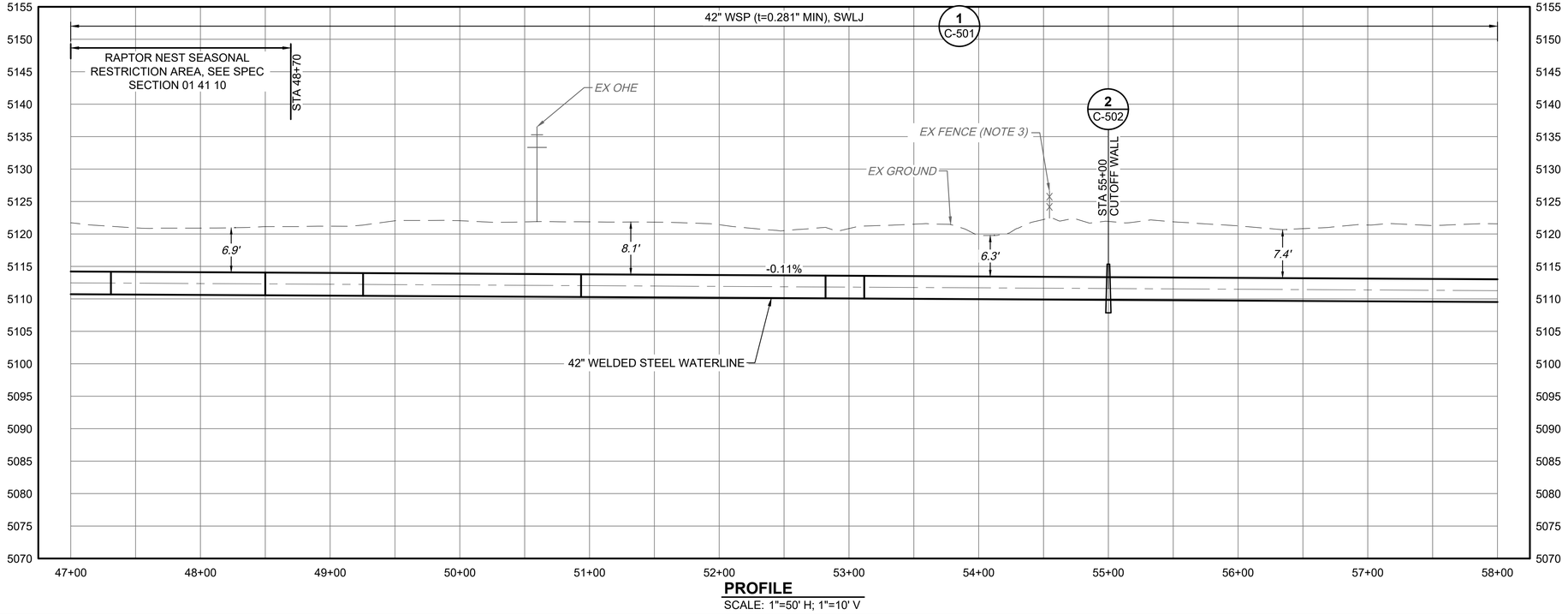


PLAN
SCALE: 1" = 50'

0 50' 100'



PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. REMOVE AND RESET GUY WIRE IF NEEDED, COORDINATE POWER POLE SUPPORT WITH PVREA.
3. REMOVE AND REPLACE FENCE IN KIND TO MATCH EXISTING WITHIN LOC.
4. USE OF HOOD LANE IS PROHIBITED.

CITY OF THORNTON EASEMENT SUMMARY			
ID	TIER #	EASEMENT TYPE	RECEPTION #
1	54-4PE	WATERLINE	20250049280
2	54-4TE	TEMPORARY ACCESS AND CONSTRUCTION	20250049278
3	54-3PE	WATERLINE	20250027166
4	54-3TE	TEMPORARY ACCESS AND CONSTRUCTION	20250027167

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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CONTACT 811 BEFORE YOU DIG. SAFE DIGGING PARTNER

ISSUED FOR BIDDING
NOT FOR CONSTRUCTION
AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA 47+00 TO STA 58+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	15 OF 90
DRAWING:	PP-105

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\800 CAD\02 - Sheets\PP\240009_PP-101-PP-106.dwg USER: matthewb
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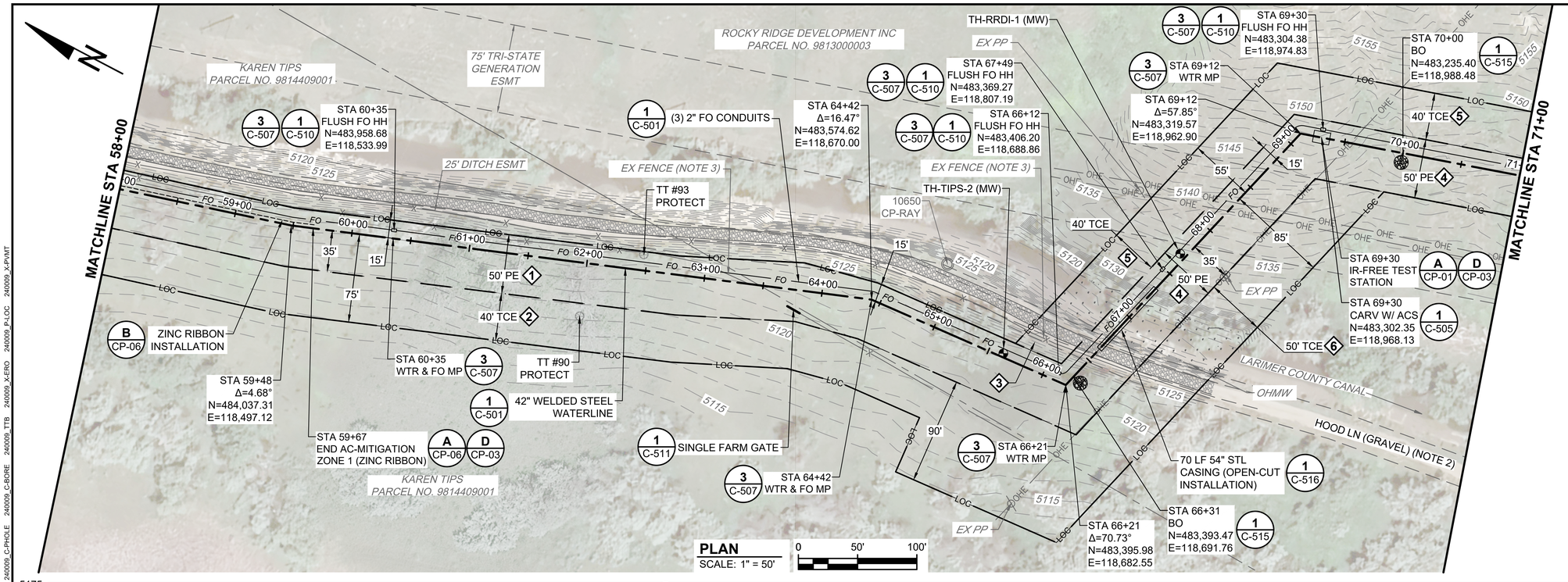
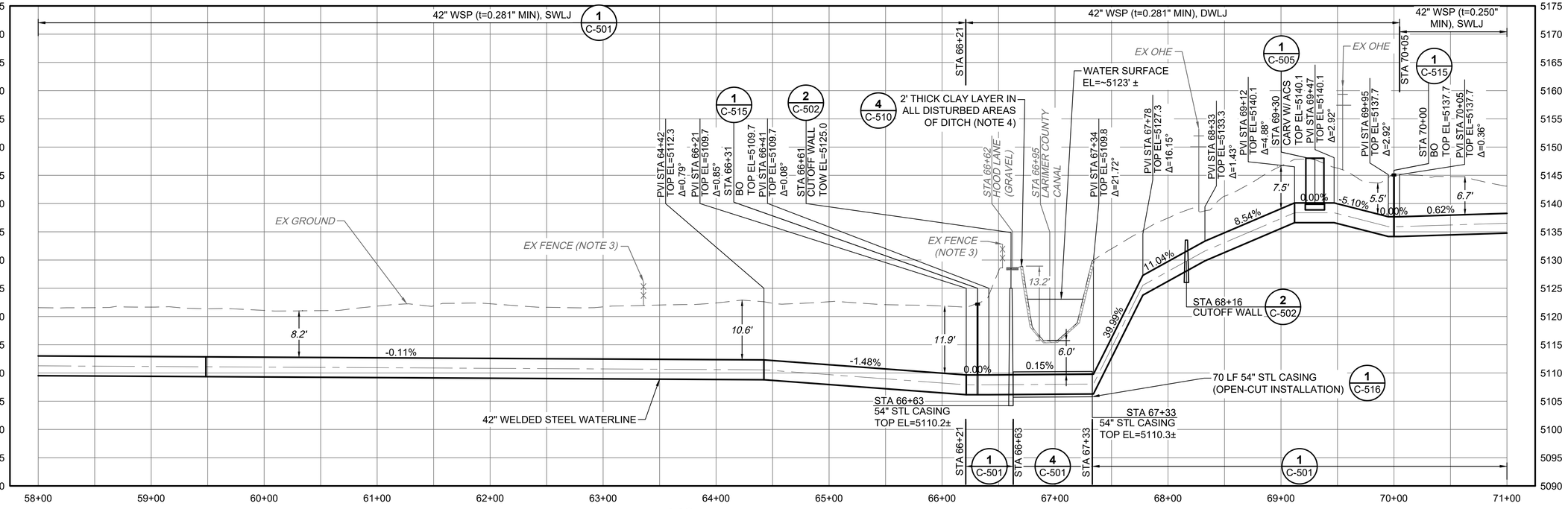


PLAN
SCALE: 1" = 50'

0 50' 100'



PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. USE OF HOOD LANE IS PROHIBITED. CONTRACTOR TO COORDINATE ALTERNATE ROUTES WITH PROPERTY OWNER AND REGULAR USERS OF HOOD LANE BEFORE CROSSING BEGINS.
3. REMOVE AND REPLACE FENCE IN KIND TO MATCH EXISTING WITHIN LOC.
4. NWP 58 CONDITIONS MUST BE FOLLOWED FOR WORK RELATED TO THE LARIMER COUNTY CANAL CROSSING. STOCKPILE AND PRESERVE ANY EXISTING EMBANKMENT PROTECTION AND REPLACE, IN KIND, AFTER CLAY LINER INSTALLATION.

CITY OF THORNTON EASEMENT SUMMARY

ID	TIER #	EASEMENT TYPE	RECEPTION #
1	54-3PE	WATERLINE	20250027166
2	54-3TE	TEMPORARY ACCESS AND CONSTRUCTION	20250027167
3	54-3TE2	TEMPORARY ACCESS AND CONSTRUCTION	20250027167
4	53-4PE	WATERLINE	20250049274
5	53-4TE	TEMPORARY ACCESS AND CONSTRUCTION	20250049275
6	53-4TE3	TEMPORARY ACCESS AND CONSTRUCTION	20250049275

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THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA 58+00 TO STA 71+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	16 OF 90
DRAWING:	PP-106

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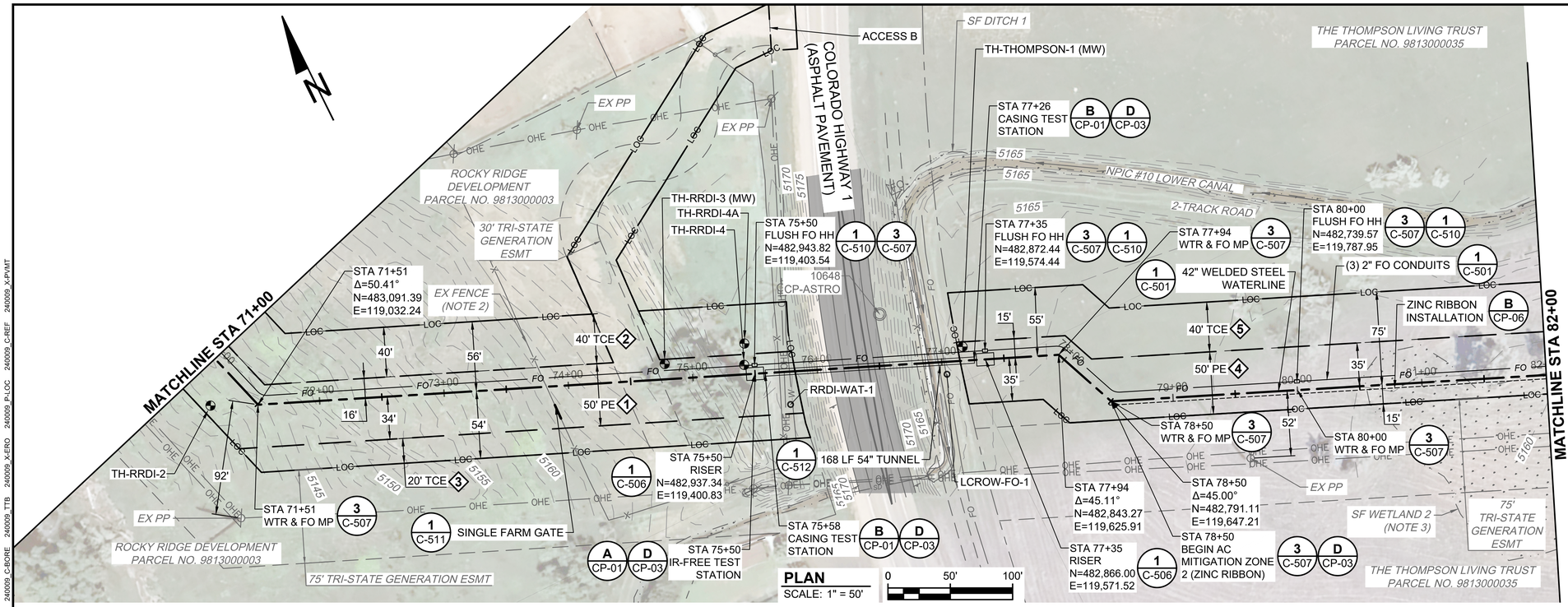
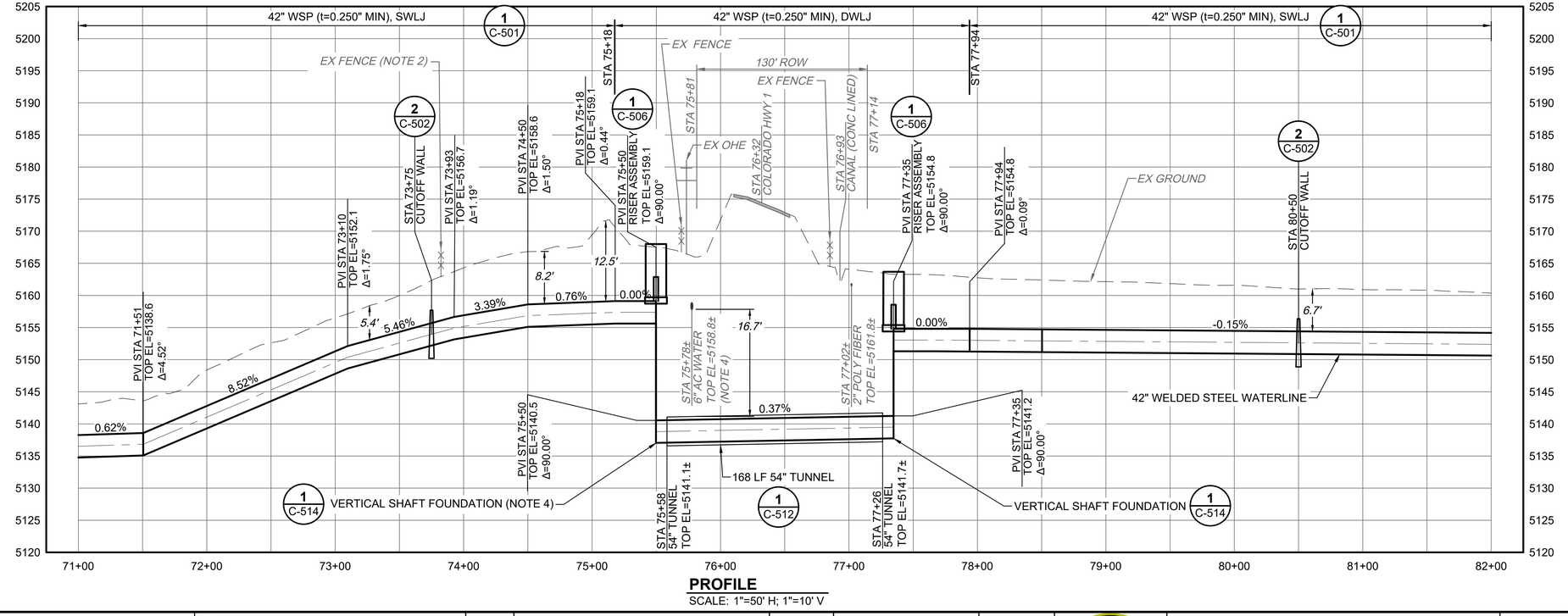
USER: matthewb





PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. REMOVE AND REPLACE FENCE IN KIND TO MATCH EXISTING WITHIN LOC.
3. SEE SPEC SECTION 01 41 10 and 32 90 10 FOR WETLAND CROSSING REQUIREMENTS. NWP 58 EXPIRATION 3/15/2031.
4. VERTICAL SHAFT EXCAVATION AND CONTRACTOR SHORING SHALL BE DONE IN SUCH A MANNER TO PROTECT THE EXISTING ELCO WATERLINE.

CITY OF THORNTON EASEMENT SUMMARY			
ID	TIER #	EASEMENT TYPE	RECEPTION #
1	53-4PE	WATERLINE	20250049274
2	53-4TE	TEMPORARY ACCESS AND CONSTRUCTION	20250049275
3	53-4TE2	TEMPORARY ACCESS AND CONSTRUCTION	20250049275
4	53-3PE	WATERLINE	20260013064
5	53-3TE	TEMPORARY ACCESS AND CONSTRUCTION	20260013065

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA 71+00 TO STA 82+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	17 OF 90
DRAWING:	PP-107

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\900 CAD\02 - Sheets\PP\240009_PP-107-PP-112.dwg
DATE: Aug 13, 2026 12:24pm
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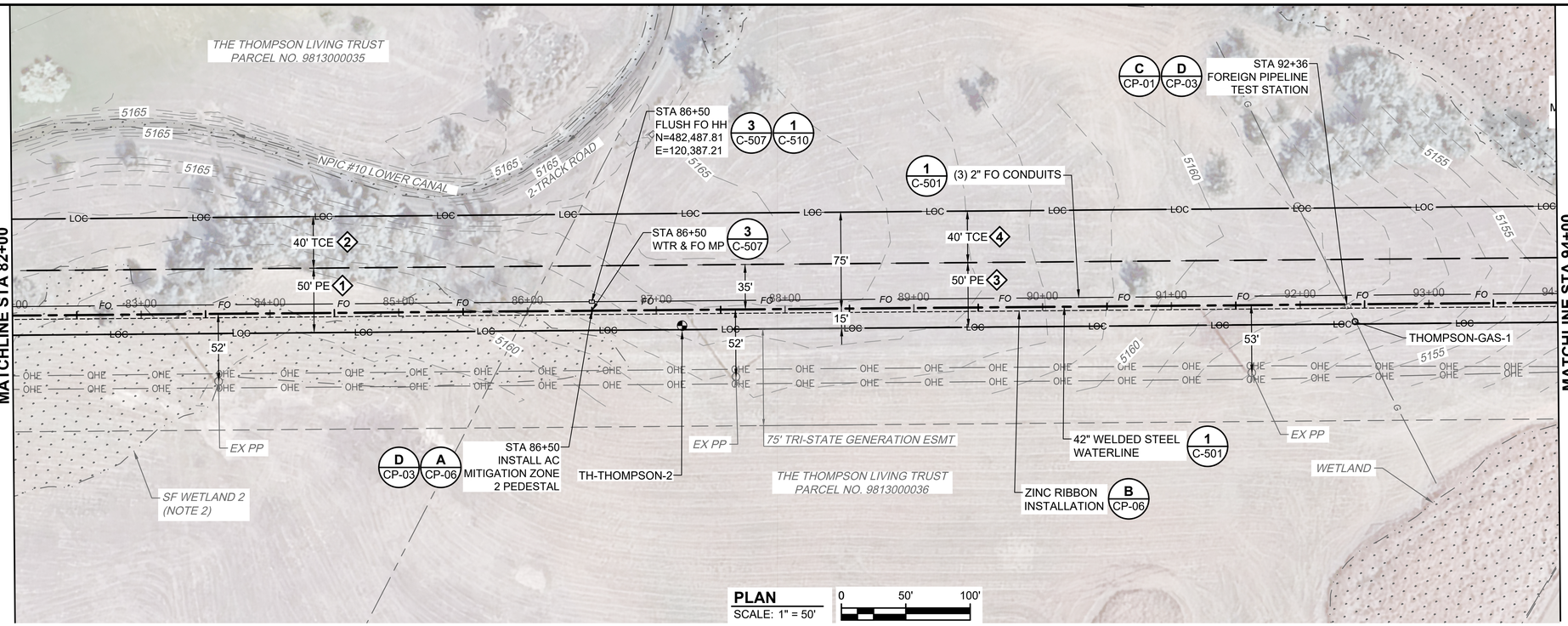
USER: mattnewb



PLAN
SCALE: 1" = 50'

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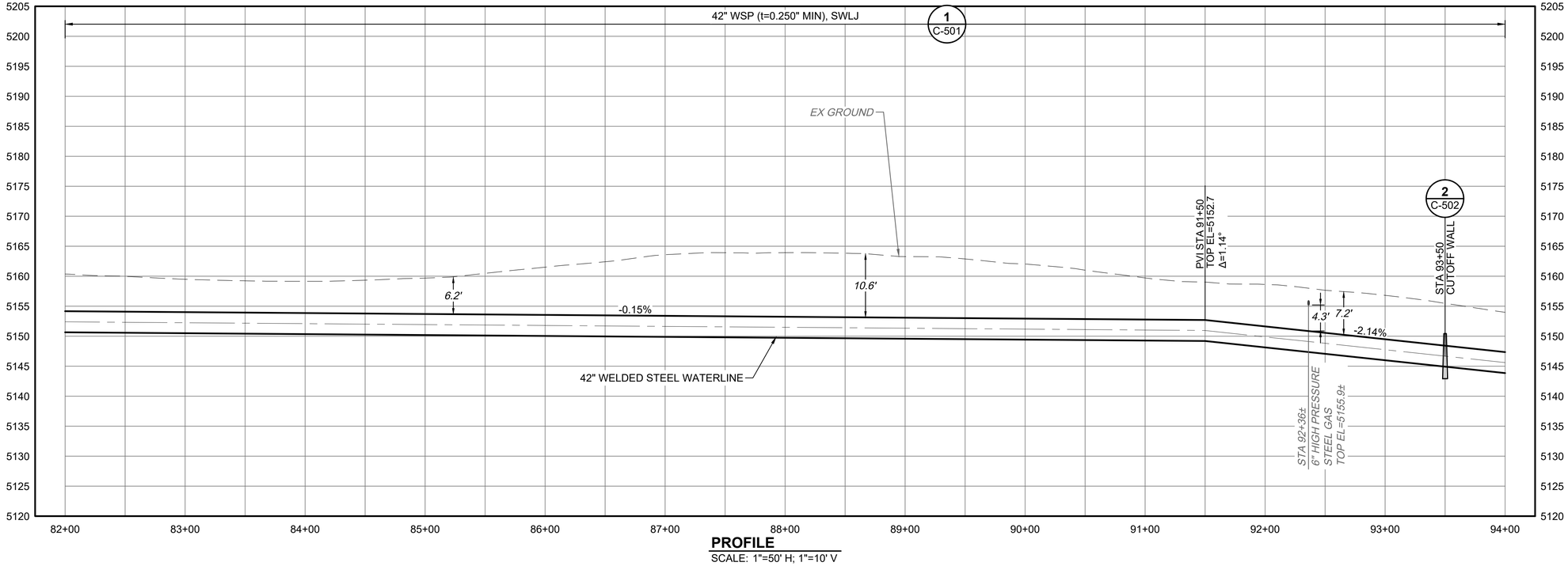

PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR WETLAND CROSSING REQUIREMENTS. NWP 58 EXPIRATION 3/15/2031.

CITY OF THORNTON EASEMENT SUMMARY			
ID	TIER #	EASEMENT TYPE	RECEPTION #
1	53-3PE	WATERLINE	20260013064
2	53-3TE	TEMPORARY ACCESS AND CONSTRUCTION	20260013065
3	53-2PE	WATERLINE	20260013064
4	53-2TE	TEMPORARY ACCESS AND CONSTRUCTION	20260013065

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THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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811
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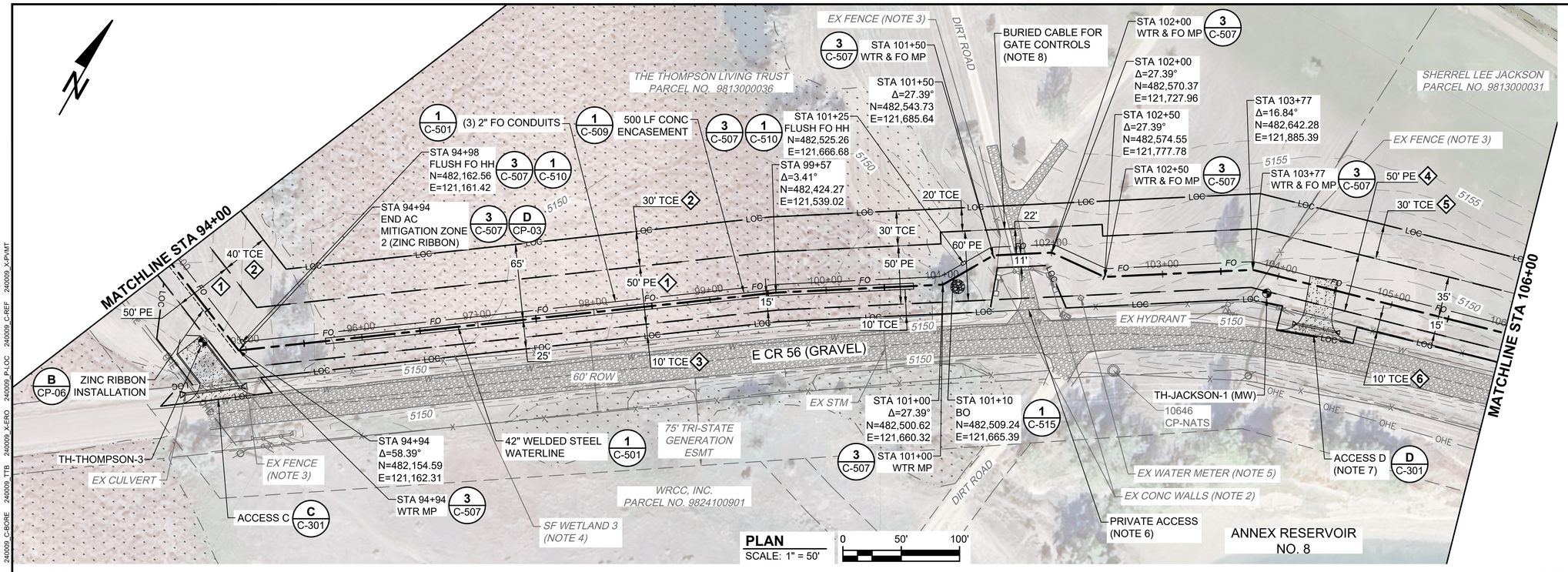
AUGUST 13, 2026

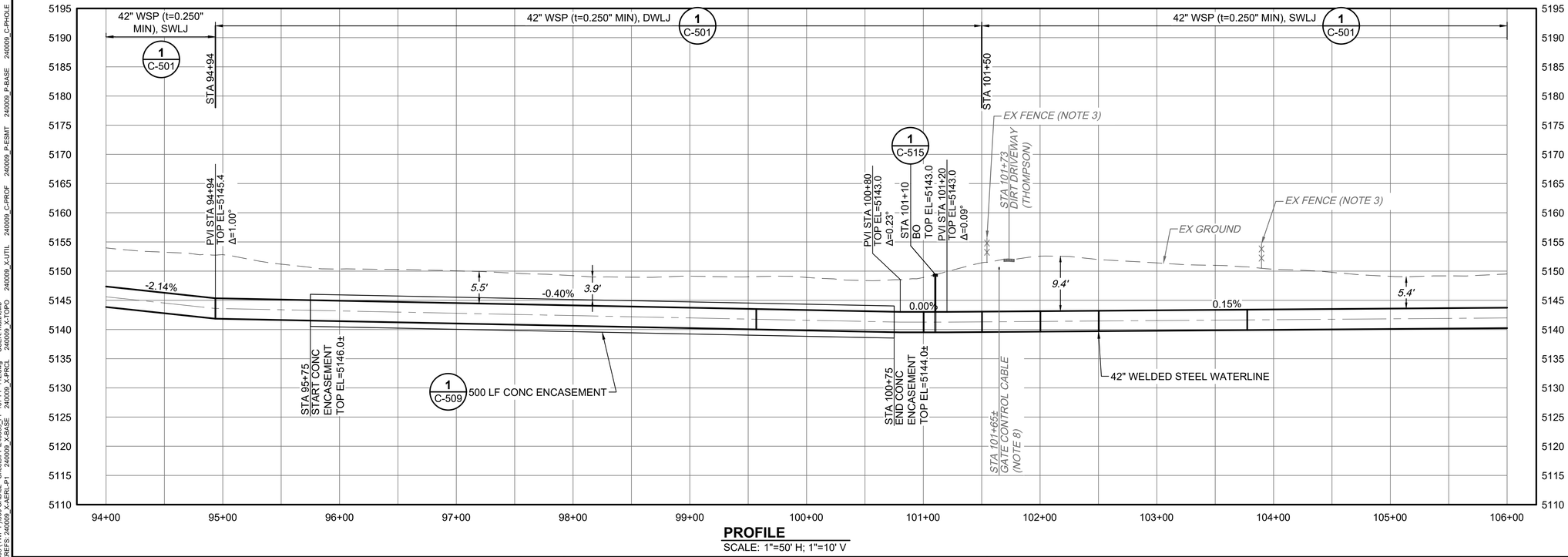
TWP SEGMENT F.1

PLAN AND PROFILE STA
82+00 TO STA 94+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	18 OF 90
DRAWING:	PP-108

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\900 CAD\02 - Sheets\PP\240009_PP-107-PP-112.dwg USER: matthewb
DATE: Aug 13, 2026 12:24pm XREFS: 240009_X-AERL-P1 240009_X-BASE 240009_X-PROL 240009_X-TOPO 240009_X-UTIL 240009_C-PROF 240009_P-ESMT 240009_P-BASE 240009_C-PHOLE 240009_C-BORE 240009_TTB 240009_X-ERO 240009_P-LOC 240009_C-REF 240009_X-PVMT





NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. CONCRETE WALL, FENCE, AND ACCESS GATE TO BE PROTECTED DURING CONSTRUCTION.
3. REMOVE AND REPLACE FENCE IN KIND TO MATCH EXISTING WITHIN LOC BEYOND EXTENTS OF ACCESS.
4. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR WETLAND CROSSING REQUIREMENTS. NWP 58 EXPIRATION 3/15/2031.
5. PROTECT EXISTING WATER METER AND EXISTING WATER SERVICE LINE.
6. CONTRACTOR TO MAINTAIN ACCESS INGRESS AND EGRESS FOR THE PROPERTY OWNER DURING CONSTRUCTION.
7. TEMPORARY ACCESS TO BE GRADED TO ALLOW SAFE VEHICULAR PASSAGE AND TO MAINTAIN EXISTING DRAINAGE WAYS. TEMPORARY ACCESS TO BE REMOVED AND RESTORED IN ACCORDANCE WITH SPEC 32 90 10.
8. BURIED CABLE IS FOR THE GATE CONTROLS. CABLE COULD NOT BE LOCATED. CABLE CAN BE CUT FOR CONSTRUCTION AND MUST BE SPLICED WHEN WORK IS COMPLETE.

CITY OF THORNTON EASEMENT SUMMARY

ID	TIER #	EASEMENT TYPE	RECEPTION #
1	53-2PE	WATERLINE	20260013064
2	53-2TE	TEMPORARY ACCESS AND CONSTRUCTION	20260013065
3	53-2TE2	TEMPORARY ACCESS AND CONSTRUCTION	20260013065
4	53-1PE	WATERLINE	20260028104
5	53-1TE	TEMPORARY ACCESS AND CONSTRUCTION	20260028105
6	53-1TE2	TEMPORARY ACCESS AND CONSTRUCTION	20260028105

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THORNTON WATER PROJECT

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AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA 93+00 TO STA 106+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	19 OF 90
DRAWING:	PP-109

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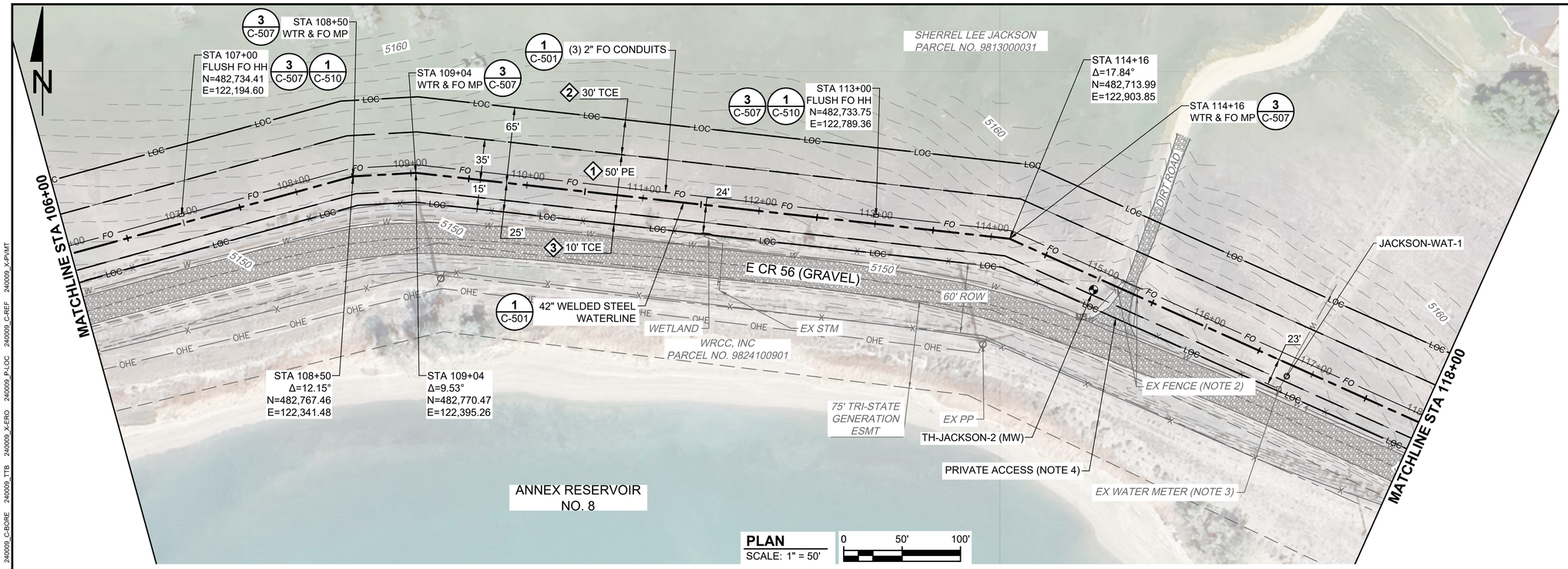
USER: mattheeb



PLAN
SCALE: 1" = 50'

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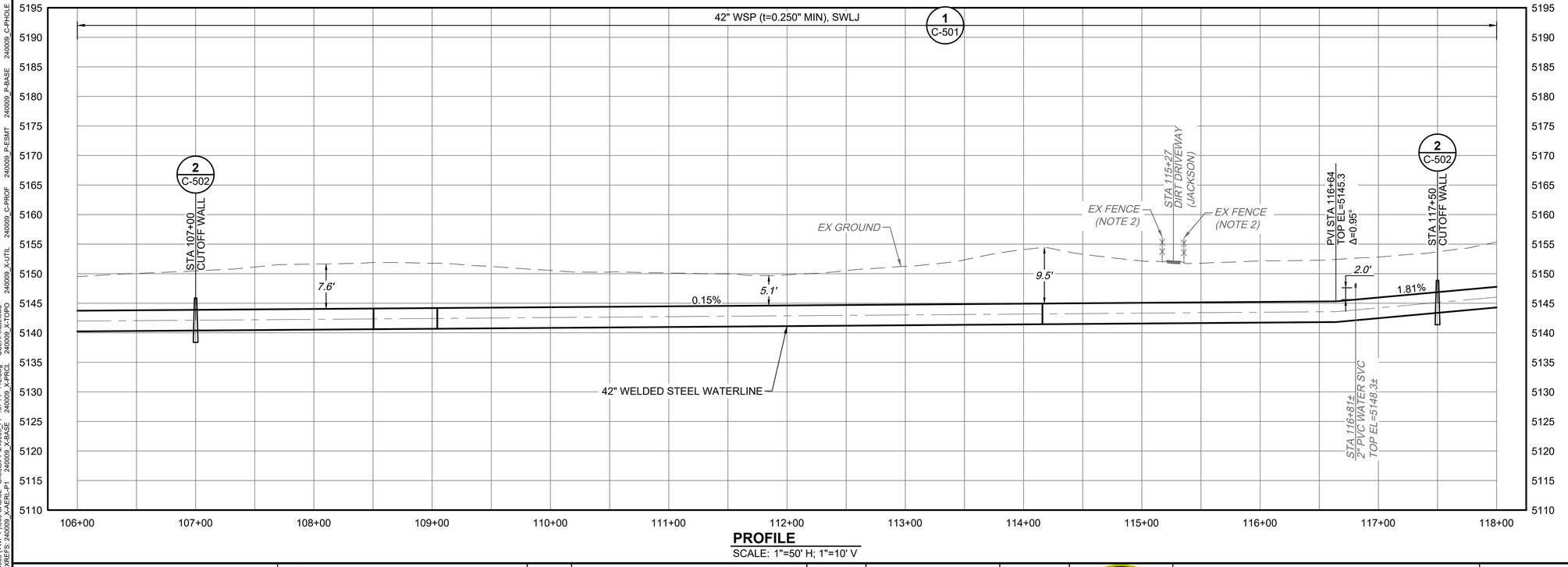

PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. REMOVE AND REPLACE FENCE IN KIND TO MATCH EXISTING WITHIN LOC.
3. PROTECT EXISTING WATER METER AND WATER SERVICE LINE.
4. CONTRACTOR TO MAINTAIN ACCESS INGRESS AND EGRESS FOR THE PROPERTY OWNER DURING CONSTRUCTION.

CITY OF THORNTON EASEMENT SUMMARY			
ID	TIER #	EASEMENT TYPE	RECEPTION #
1	53-1PE	WATERLINE	20260028104
2	53-1TE	TEMPORARY ACCESS AND CONSTRUCTION	20260028105
3	53-1TE2	TEMPORARY ACCESS AND CONSTRUCTION	20260028105

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THORNTON WATER PROJECT

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NOT FOR CONSTRUCTION
AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA 106+00 TO STA 118+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	20 OF 90
DRAWING:	PP-110

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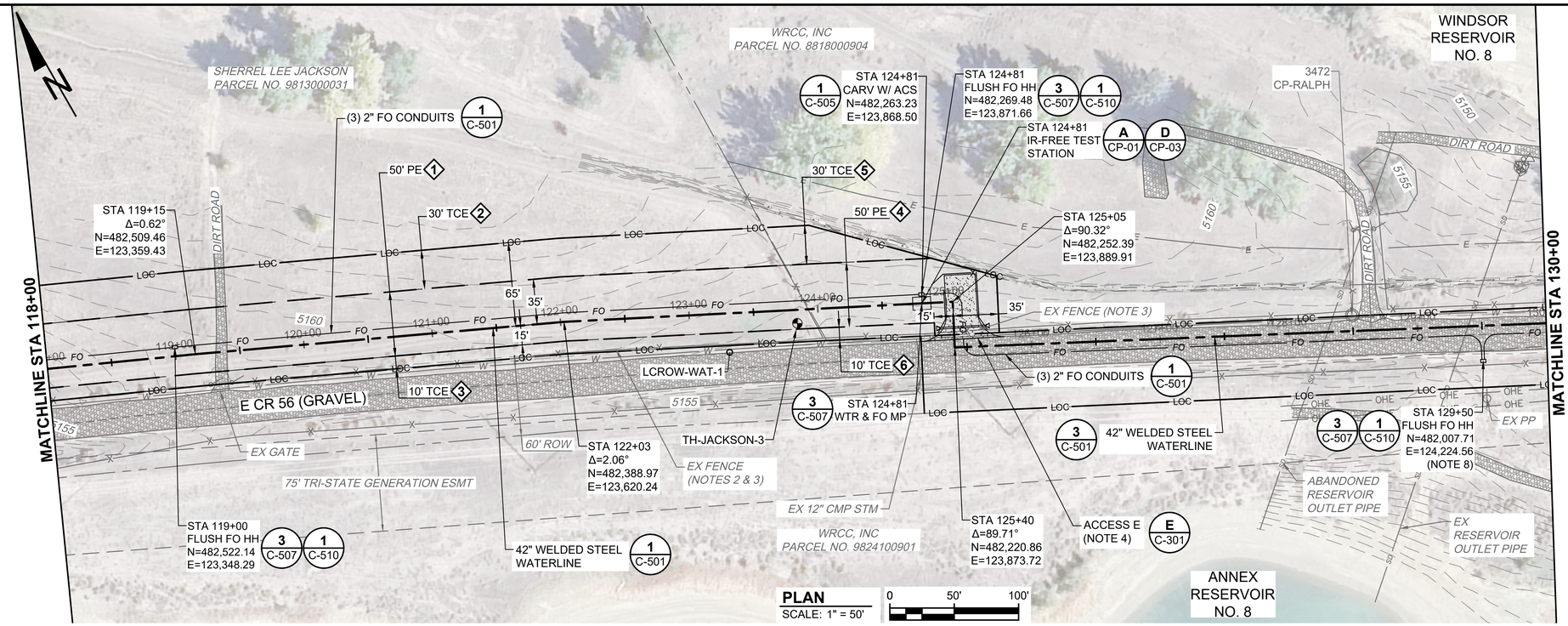
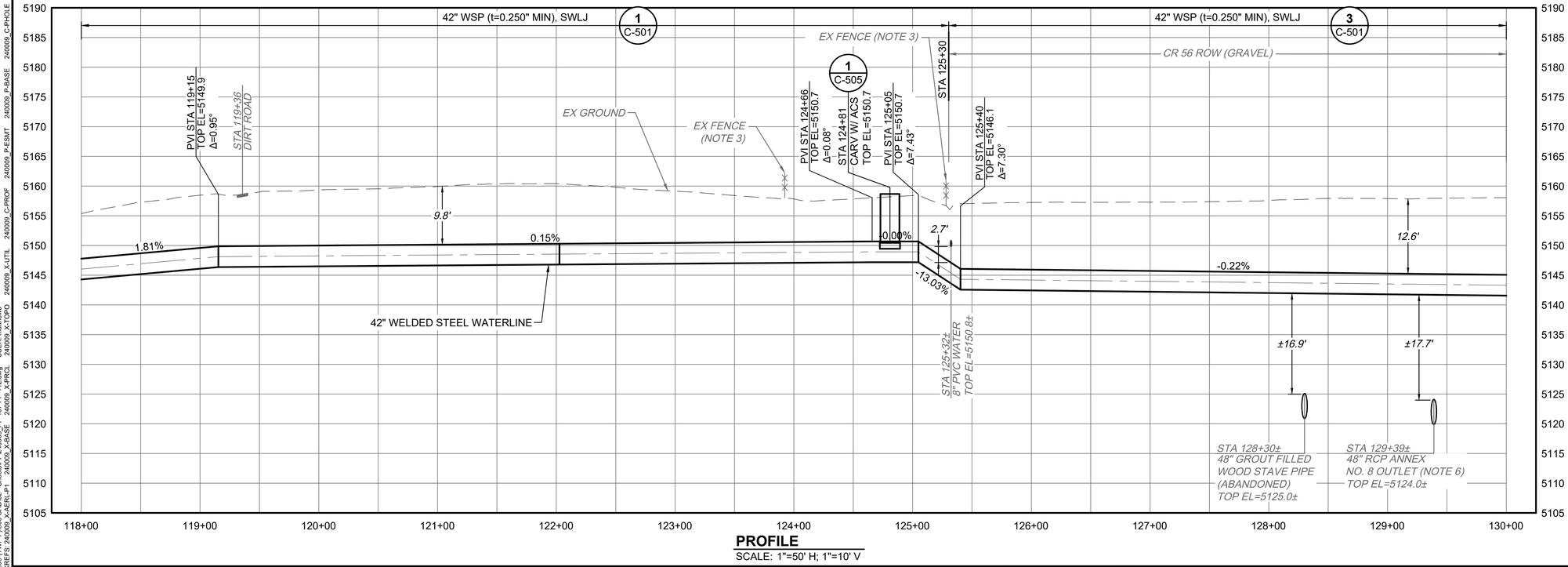
USER: matthewb



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. PROTECT STEEL FENCE CORNER.
3. REMOVE AND REPLACE FENCE IN KIND TO MATCH EXISTING WITHIN LOC.
4. ACCESS TO BE GRADED TO ALLOW SAFE VEHICULAR PASSAGE AND TO MAINTAIN EXISTING DRAINAGEWAYS.
5. DEVIATION #1 TO THORNTON WATER PROJECT 1041 APPROVED ALIGNMENT FROM STA 125+25 TO STA 130+40.
6. CONTRACTOR TO POTHOLE 2' BELOW THE BOTTOM OF THE TRENCH PRIOR TO CONSTRUCTION TO ENSURE THERE IS NO CONFLICT WITH THE OUTLET PIPE. CONTRACTOR TO COORDINATE WITH SEO AND WRCC.
7. CONTRACTOR TO CONTACT THE FOLLOWING INDIVIDUAL AT COLORADO DEPARTMENT OF NATURAL RESOURCES STATE ENGINEER'S OFFICE TO CONDUCT A PRE-CONSTRUCTION MEETING FOR ALL ACTIVITY FROM STA 128+00 TO STA 138+50 AND STA 156+50 TO 157+00. CONTRACTOR TO INCLUDE WRCC, CM / OWNER AND ENGINEER IN MEETING. CONTACT MUST BE MADE A MINIMUM OF 15 BUSINESS DAYS IN ADVANCE OF CROSSING TO:

   KALLIE BAUER, P.E., DAM SAFETY ENGINEER
   (970)-352-8712
   KALLIE.BAUER@STATE.CO.US

8. FIBER OPTIC HANDHOLE SHALL BE PLACED A MINIMUM 5 FT FROM THE EDGE OF ROAD.

CITY OF THORNTON EASEMENT SUMMARY			
ID	TIER #	EASEMENT TYPE	RECEPTION #
1	53-1PE	WATERLINE	20260028104
2	53-1TE	TEMPORARY ACCESS AND CONSTRUCTION	20260028105
3	53-1TE2	TEMPORARY ACCESS AND CONSTRUCTION	20260028105
4	52-3PE	WATERLINE	20260025111
5	52-3TE	TEMPORARY ACCESS AND CONSTRUCTION	20260025111
6	52-3TE2	TEMPORARY ACCESS AND CONSTRUCTION	20260025111

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA 118+00 TO STA 130+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	21 OF 90
DRAWING:	PP-111

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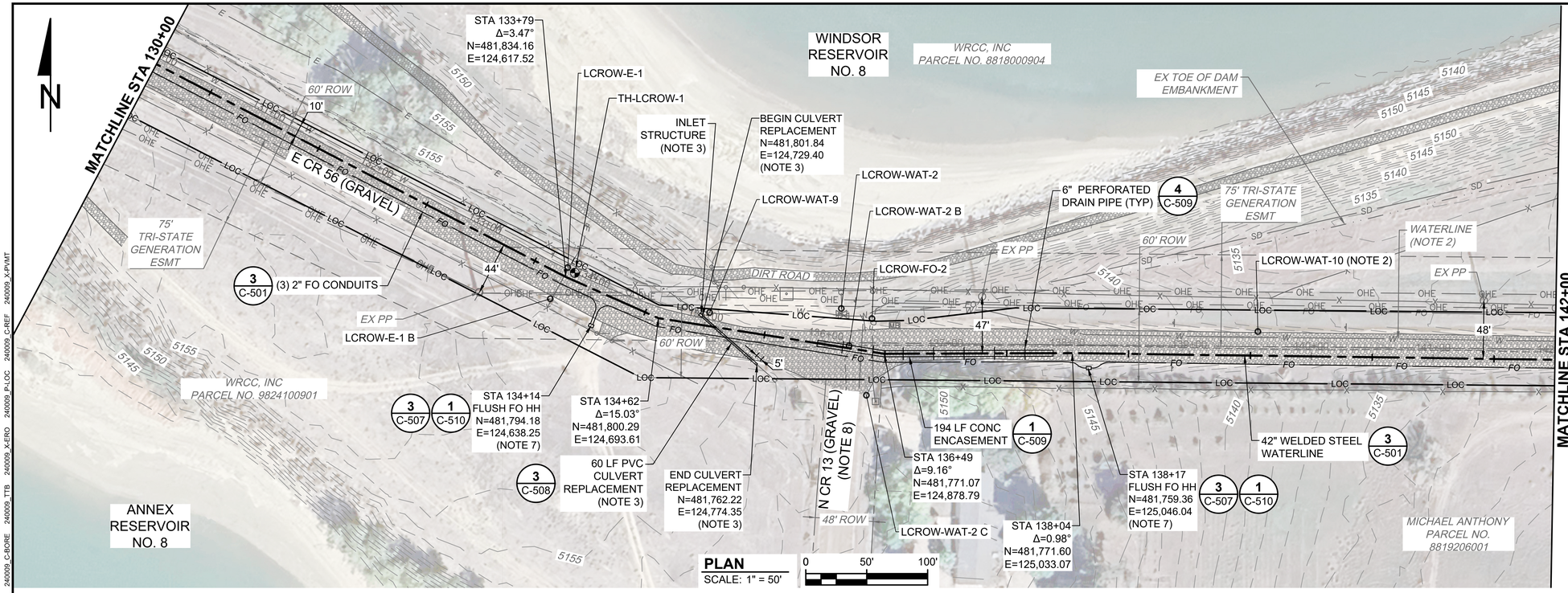
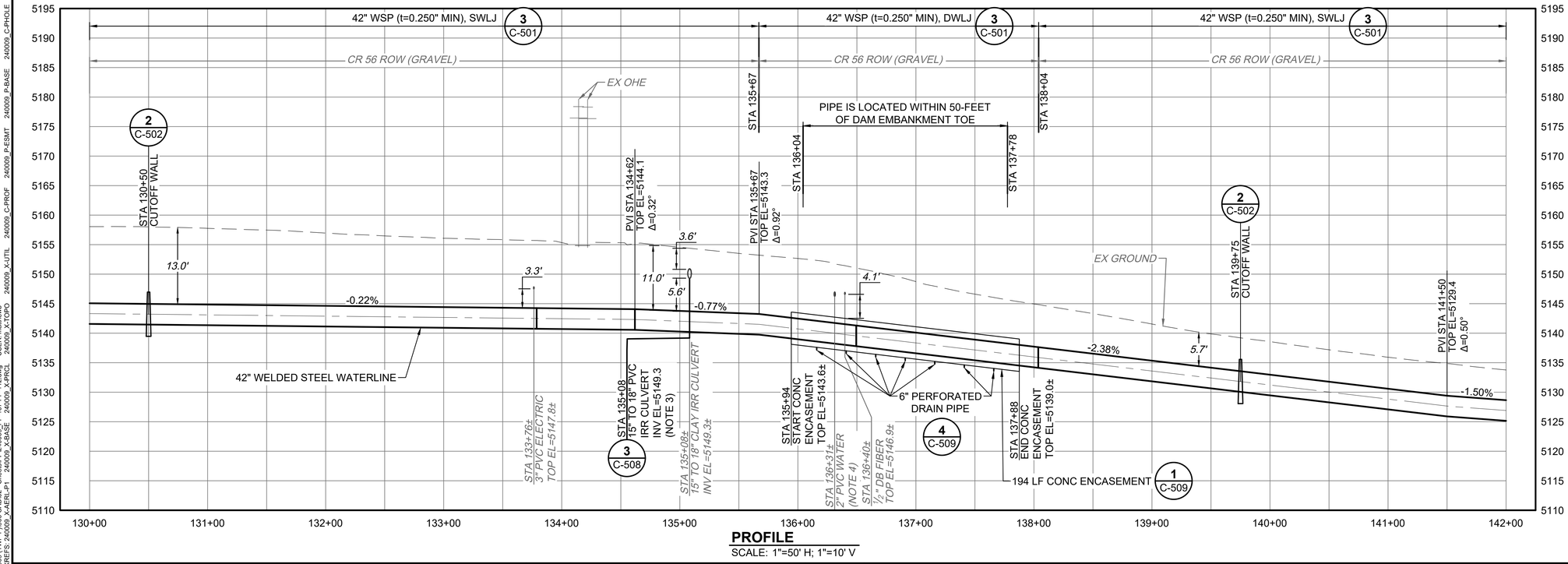
USER: matthewb





PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. THE LOCATION OF 2" ELCO WATERLINE IS UNCERTAIN AND MAY BE IN CONFLICT (LESS THAN 10 FT OF SEPARATION BETWEEN EXISTING ELCO LINE AND THE SEG F.1 PIPELINE) BETWEEN STA 136+50 AND 173+66. CONTRACTOR TO BE PREPARED TO RELOCATE AND COORDINATE ISOLATION AND SERVICE OUTAGE WITH ELCO REPRESENTATIVES.
3. CONTRACTOR TO REMOVE AND DISPOSE OF OFFSITE, REINFORCED CONCRETE INLET STRUCTURE AND CLAY PIPE TO THE LIMITS SHOWN. CONTRACTOR SHALL CONFIRM THE INLET STRUCTURE DIMENSIONS AND REPLACE IN KIND. CONTRACTOR SHALL REPLACE CLAY PIPE WITH ASTM D3034 SDR 26 PVC PIPE AND INSTALL THE PVC PIPE TO MATCH THE CLAY PIPE FLOWLINE INVERT. CONTRACTOR TO VERIFY CLAY PIPE SIZE PRIOR TO ORDERING PVC PIPE REPLACEMENT MATERIALS. ON THE SOUTHEAST SIDE OF CR 56, CONTRACTOR SHALL CONNECT PVC PIPE TO EXISTING CLAY PIPE WITH A FERNCO PIPE COUPLING. FERNCO PIPE COUPLING SHALL NOT BE INSTALLED UNDER THE CR 56 GRAVEL ROADWAY. CONTRACTOR SHALL NOT DISTURB THE CLAY PIPE ON PRIVATE PROPERTY OUTSIDE THE LOC/ROW.
4. EXISTING WATERLINE COULD NOT BE LOCATED. ELCO CONFIRMED THE WATERLINE EXISTS. CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION.
5. DEVIATION #1 TO THORNTON WATER PROJECT 1041 APPROVED ALIGNMENT FROM STA 125+25 TO STA 130+40.
6. CONTRACTOR TO CONTACT THE FOLLOWING INDIVIDUAL AT COLORADO DEPARTMENT OF NATURAL RESOURCES STATE ENGINEER'S OFFICE (DAM SAFETY) TO CONDUCT A PRE-CONSTRUCTION MEETING FOR ALL ACTIVITY FROM STA 128+00 TO STA 138+50 AND STA 156+50 TO 157+00 (KALLIE BAUER, PE, DAM SAFETY ENGINEER, 970-352-8712, KALLIE.BAUER@STATE.CO.US). CONTRACTOR TO INCLUDE WRCC, THORNTON, CONSTRUCTION MANAGER, AND ENGINEER IN MEETING. CONTACT MUST BE MADE A MINIMUM OF 15 BUSINESS DAYS IN ADVANCE OF SCHEDULED PRE-CONSTRUCTION MEETING.
7. FIBER OPTIC HANDHOLE SHALL BE PLACED A MINIMUM 5 FT FROM THE EDGE OF ROADWAY.
8. LCR 13 CANNOT BE USED SOUTH OF THE CONSTRUCTION LIMITS.

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

VERIFY SCALE
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CONTACT 811 BEFORE YOU DIG 811 SAFE DIGGING PARTNER

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NOT FOR CONSTRUCTION
AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA 130+00 TO STA 142+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	22 OF 90
DRAWING:	PP-112

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\900 CAD\02 - Sheets\PP\240009_PP-107-PP-112.dwg USER: matthewb
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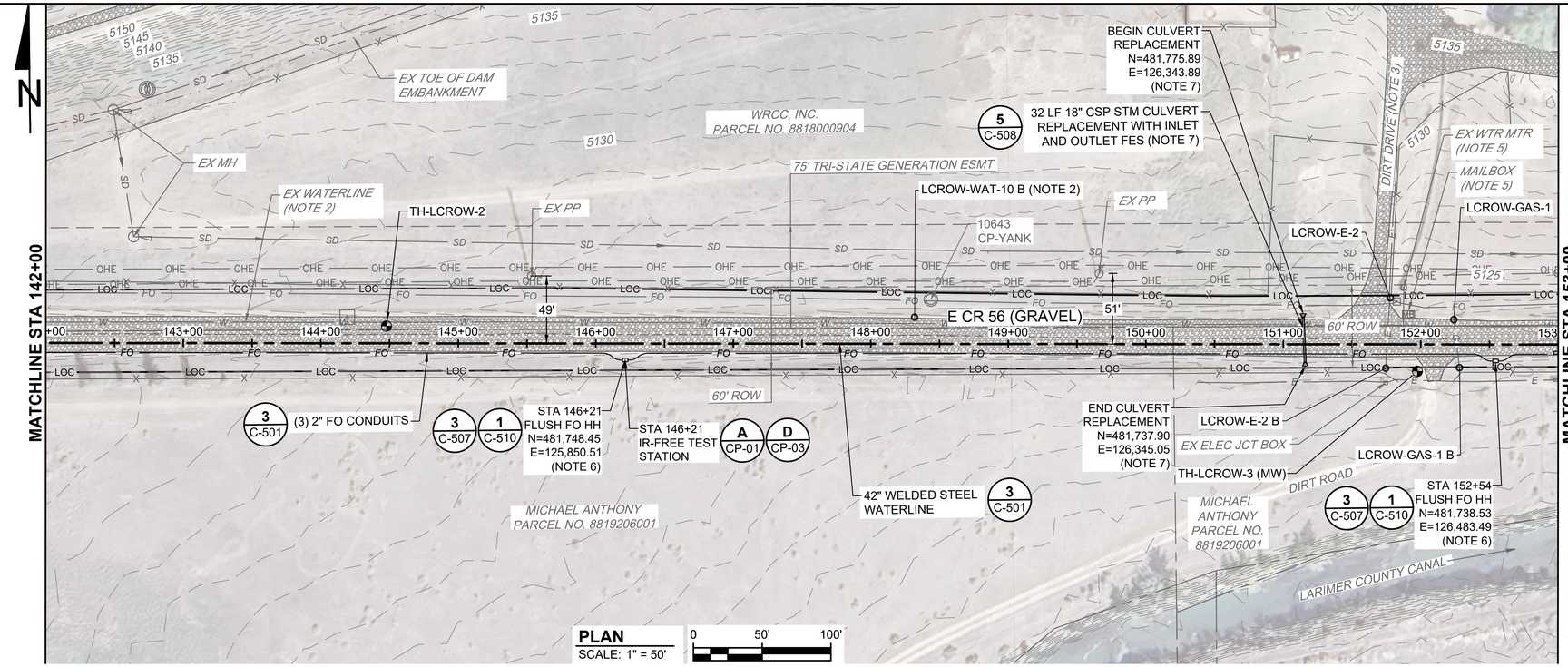

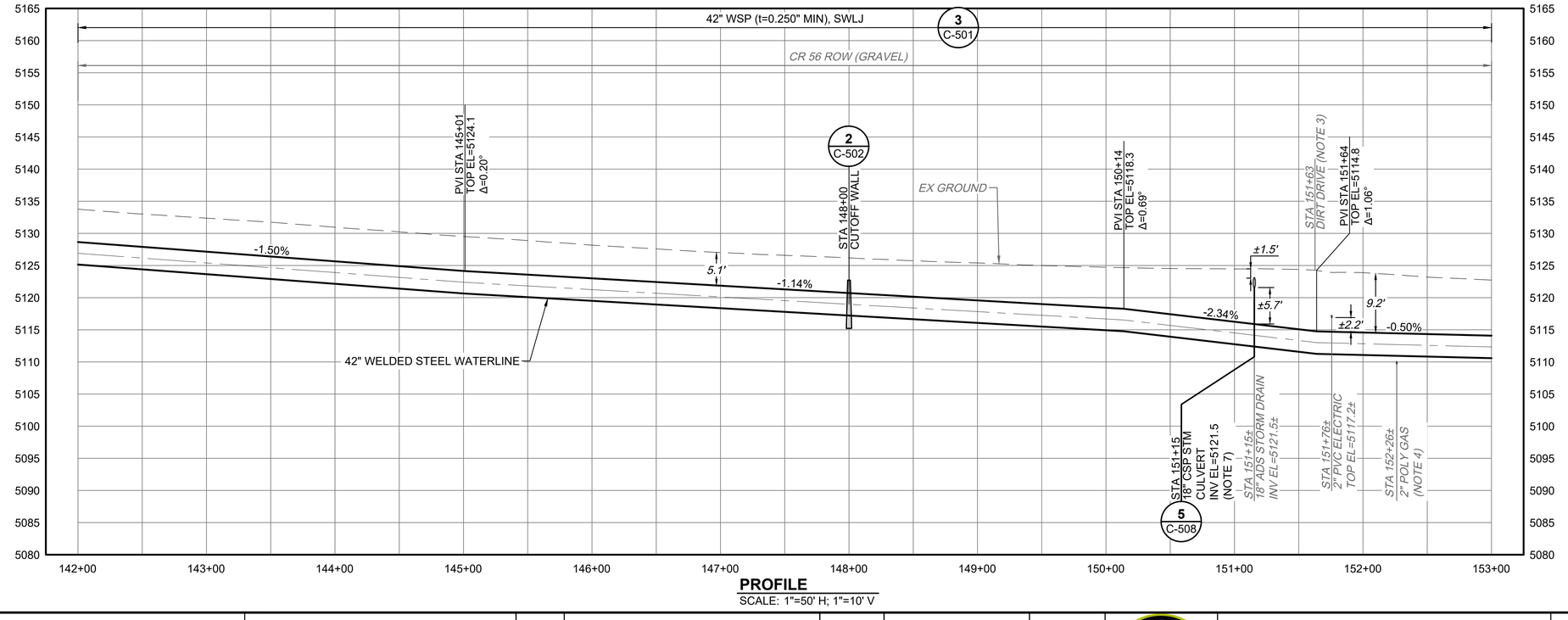

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. THE LOCATION OF 2" ELCO WATERLINE IS UNCERTAIN AND MAY BE IN CONFLICT (LESS THAN 10 FT OF SEPARATION BETWEEN EXISTING ELCO LINE AND THE SEG F.1 PIPELINE) BETWEEN STA 136+50 AND 173+66. CONTRACTOR TO BE PREPARED TO RELOCATE AND COORDINATE ISOLATION AND SERVICE OUTAGE WITH ELCO REPRESENTATIVES.
3. ACCESS TO WRCC PROPERTY MUST BE MAINTAINED AT ALL TIMES.
4. UTILITY POTHOLE WAS EXCAVATED TO 11 FEET DEEP AND GAS LINE WAS NOT FOUND. CONTRACTOR TO CONFIRM GAS LINE IS NOT IN CONFLICT AND PROVIDE SUFFICIENT LEAD TIME FOR ANY REQUIRED DESIGN REVISIONS.
5. PROTECT EXISTING WATER METER AND MAILBOX IN PLACE.
6. FIBER OPTIC HANDHOLE SHALL BE PLACED A MINIMUM 5 FT FROM THE EDGE OF ROADWAY.
7. CONTRACTOR TO REMOVE AND DISPOSE OF OFFSITE, 18" ADS CULVERT AND REPLACE WITH 18" CSP PIPE WITH INLET AND OUTLET FLARED-END SECTIONS PER SECTION 33 41 02. INSTALL THE CSP PIPE TO MATCH THE ADS PIPE FLOWLINE INVERT, HOWEVER, THE CULVERT PLACEMENT SHALL BE SHORTENED ON THE SOUTH SIDE SO THE FLARED-END SECTION CAN BE INSTALLED WITHIN THE CR 56 ROW. CONTRACTOR SHALL NOT DISTURB OR REPLACE ADS PIPE ON PRIVATE PROPERTY OUTSIDE THE LOC/ROW.

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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CONTACT 811 BEFORE YOU DIG 811 SAFE DIGGING PARTNER

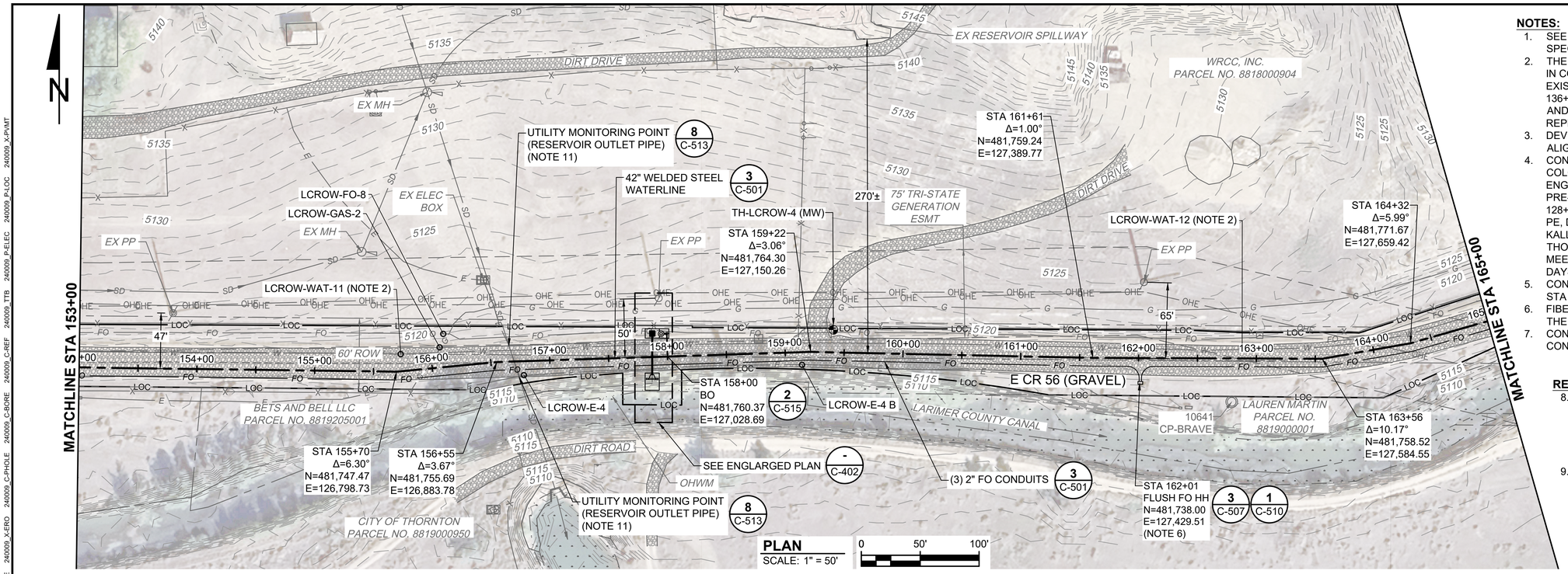
ISSUED FOR BIDDING
NOT FOR CONSTRUCTION
AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA 142+00 TO STA 153+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	23 OF 90
DRAWING:	PP-113

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\900 CAD\02 - Sheets\PP\240009_PP-113-PP-118.dwg USER: matthewb
DATE: Aug 13, 2026 12:25pm XREFS: 240009_X-AERL-P2 240009_X-AERL-P1 240009_X-BASE 240009_X-PRCL 240009_X-TOPO 240009_X-UTIL 240009_C-PROF 240009_P-ESMT 240009_P-BASE 240009_X-ERO 240009_C-PHOLE 240009_C-BORE 240009_C-REF 240009_TTB 240009_P-ELEC 240009_P-LOC 240009_X-PVMT



NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. THE LOCATION OF 2" ELCO WATERLINE IS UNCERTAIN AND MAY BE IN CONFLICT (LESS THAN 10 FT OF SEPARATION BETWEEN EXISTING ELCO LINE AND THE SEG F.1 PIPELINE) BETWEEN STA 136+50 AND 173+66. CONTRACTOR TO BE PREPARED TO RELOCATE AND COORDINATE ISOLATION AND SERVICE OUTAGE WITH ELCO REPRESENTATIVES.
3. DEVIATION #3 TO THORNTON WATER PROJECT 1041 APPROVED ALIGNMENT FROM STA 154+57 TO STA 173+66.
4. CONTRACTOR TO CONTACT THE FOLLOWING INDIVIDUAL AT COLORADO DEPARTMENT OF NATURAL RESOURCES STATE ENGINEER'S OFFICE (DAM SAFETY) TO CONDUCT A PRE-CONSTRUCTION MEETING FOR ALL ACTIVITY FROM STA 128+00 TO STA 138+50 AND STA 156+50 TO 157+00 (KALLIE BAUER, PE, DAM SAFETY ENGINEER, 970-352-8712, KALLIE.BAUER@STATE.CO.US). CONTRACTOR TO INCLUDE WRCC, THORNTON, CONSTRUCTION MANAGER, AND ENGINEER IN MEETING. CONTACT MUST BE MADE A MINIMUM OF 15 BUSINESS DAYS IN ADVANCE OF SCHEDULED PRE-CONSTRUCTION MEETING.
5. CONTRACTOR TO PROTECT ALL TREES WITHIN THE ROW FROM STA 155+75 TO STA 161+25 AND STA 164+00 TO 171+23.
6. FIBER OPTIC HANDHOLE SHALL BE PLACED A MINIMUM 5 FT FROM THE EDGE OF ROADWAY.
7. CONTRACTOR TO VERIFY LOCATION OF ELECTRIC LINE PRIOR TO CONSTRUCTION.

RESERVOIR OUTLET PIPE NOTES:

8. WRCC SHALL HAVE AN INSPECTOR ONSITE DAILY WHEN WORK IS WITHIN 50 FT OF THE RESERVOIR OUTLET PIPE. NOTIFY WRCC GENERAL MANAGER (970-454-3377; ditchinfo@eatonditch.com) A MINIMUM OF 15 BUSINESS DAYS IN ADVANCE OF WORK WITHIN 50 FT OF THE RESERVOIR OUTLET PIPE.
9. A PRE-INSPECTION OF THE RESERVOIR OUTLET PIPE 50 FT UPSTREAM AND DOWNSTREAM OF THE SEGMENT F.1 PIPELINE CROSSING SHALL BE CONDUCTED WITH REPRESENTATIVES FROM WRCC, DAM SAFETY, AND THE CONSTRUCTION MANAGER PRIOR TO INSTALLING UTILITY MONITORING POINTS OR TAKING INTERNAL MEASUREMENTS TO DOCUMENT PIPE CONDITION PRIOR TO INITIATING ANY WORK. CONTACT INDIVIDUALS A MINIMUM OF 15 BUSINESS DAYS IN ADVANCE OF THE SCHEDULED PRE-INSPECTION.
10. CONTRACTOR TO SUBMIT A UTILITY MONITORING PLAN THREE (3) WEEKS PRIOR TO CONSTRUCTION IN THE VICINITY OF THE RESERVOIR OUTLET PIPE SO IT CAN BE FORWARDED ON TO WRCC FOR REVIEW. SEE NOTES BELOW FOR RESERVOIR OUTLET PIPE UTILITY MONITORING REQUIREMENTS.
11. PRIOR TO BEING WITHIN 50 FEET OF THE RESERVOIR OUTLET PIPE WITH THE SEGMENT F.1 PIPELINE CONSTRUCTION, THE CONTRACTOR SHALL:
    - 11.1. INSTALL UTILITY MONITORING POINTS ON THE 60" ARCH RCP RESERVOIR OUTLET ON THE OUTSIDE EDGES OF THE CR 56 GRAVEL ROADWAY AND TAKE BASELINE MEASUREMENT READINGS. UTILITY MONITORING POINTS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 31 09 13.
    - 11.2. MANUALLY TAKE INTERNAL PIPE MEASUREMENTS AND PHOTOS OF THE 54" SLIPLINE PIPE ON THREE (3) SEPARATE DAYS TO ESTABLISH A BASELINE. MEASUREMENTS SHALL BE TAKEN AT THE LOCATION WHERE THE SEGMENT F.1 PIPE CROSSES THE RESERVOIR OUTLET PIPE.
12. AFTER INITIAL BASELINE READINGS ARE ACQUIRED, UTILITY MONITORING AND INTERNAL PIPE MEASUREMENTS SHALL BE TAKEN DAILY WHILE THE SEGMENT F.1 PIPELINE CONSTRUCTION IS WITHIN 50 FEET OF THE RESERVOIR OUTLET PIPE. DAILY MEASUREMENTS SHALL BE PROVIDED TO THE CONSTRUCTION MANAGER WHO WILL PROVIDE THEM TO THE WRCC INSPECTOR ON A WEEKLY BASIS.
13. MEASUREMENT THRESHOLD AND SHUTDOWN VALUES ARE AS FOLLOWS. SHOULD THRESHOLD OR SHUTDOWN VALUES BE EXCEEDED, NOTIFY THE CONSTRUCTION MANAGER IMMEDIATELY WHO WILL THEN IMMEDIATELY NOTIFY THE WRCC INSPECTOR.
    - 13.1. THRESHOLD VALUE - 0.04 FT HORZ AND VERT
    - 13.2. SHUTDOWN VALUE - 0.08 FT HORZ AND VERT
14. A POST-INSPECTION OF THE RESERVOIR OUTLET PIPE 50 FT UPSTREAM AND DOWNSTREAM OF THE SEGMENT F.1 PIPELINE CROSSING SHALL BE CONDUCTED WITH REPRESENTATIVES FROM WRCC, DAM SAFETY, AND THE CONSTRUCTION MANAGER AFTER THE SEGMENT F.1 PIPELINE HAS BEEN INSTALLED. CONTACT INDIVIDUALS A MINIMUM OF 15 BUSINESS DAYS IN ADVANCE OF THE SCHEDULED POST-INSPECTION.

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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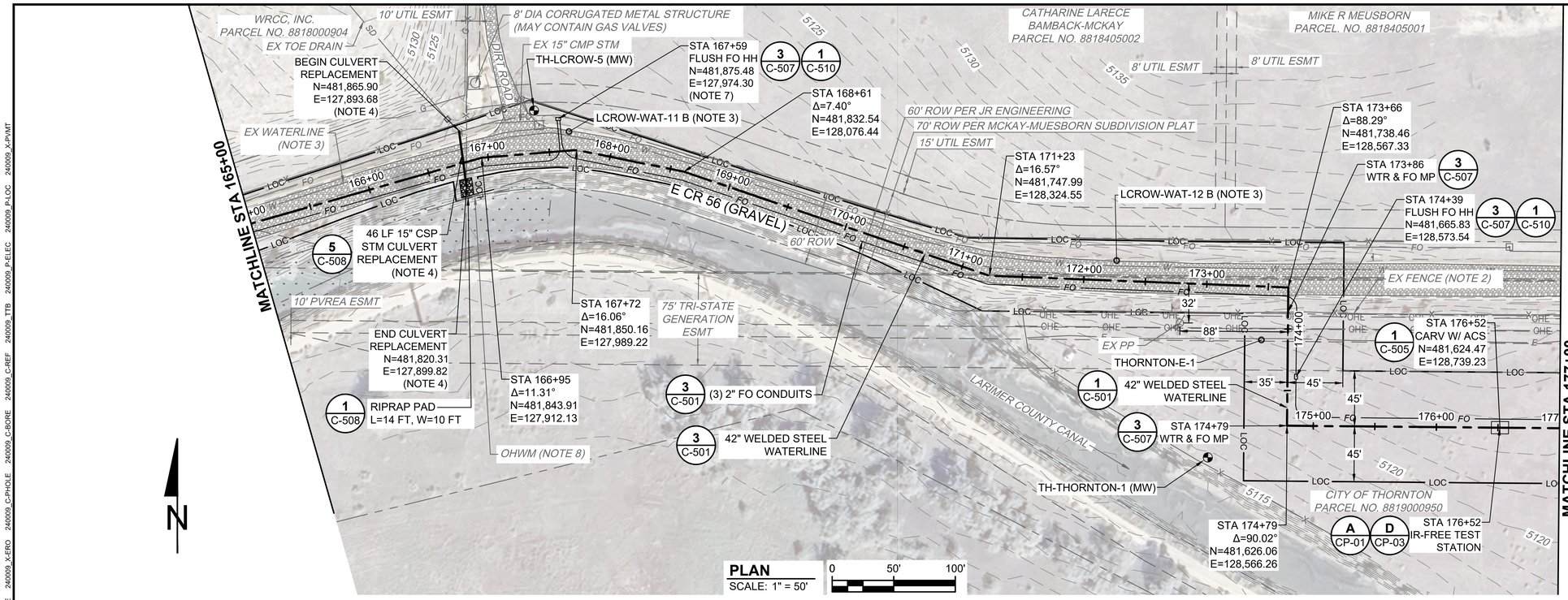
AUGUST 13, 2026

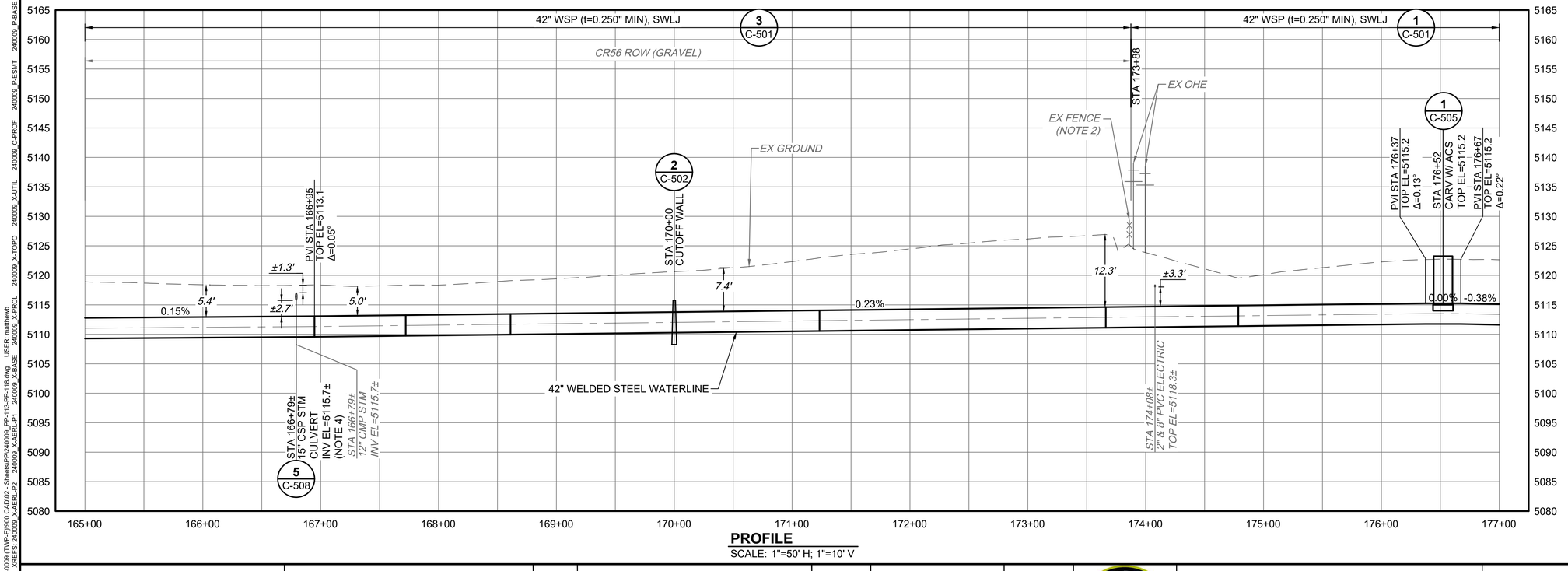
TWP SEGMENT F.1

PLAN AND PROFILE STA 153+00 TO STA 165+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	24 OF 90
DRAWING:	PP-114

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\800 CAD\02 - Sheets\PP\240009_PP-113-PP-118.dwg USER: matthewh
DATE: Aug 13, 2026 12:26pm XREFS: 240009_X-AERL-P2 240009_X-AERL-P1 240009_X-BASE 240009_X-PRCL 240009_X-TOPO 240009_X-UTIL 240009_C-PROF 240009_P-ESMT 240009_P-BASE 240009_X-ERO 240009_C-PHOLE 240009_C-BORE 240009_C-REF 240009_TTB 240009_P-ELEC 240009_P-LOC 240009_X-PVMT





PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. REMOVE AND REPLACE FENCE IN KIND TO MATCH EXISTING WITHIN LOC.
3. THE LOCATION OF 2" ELCO WATERLINE IS UNCERTAIN AND MAY BE IN CONFLICT (LESS THAN 10 FT OF SEPARATION BETWEEN EXISTING ELCO LINE AND THE SEG F.1 PIPELINE) BETWEEN STA 136+50 AND 173+66. CONTRACTOR TO BE PREPARED TO RELOCATE AND COORDINATE ISOLATION AND SERVICE OUTAGE WITH ELCO REPRESENTATIVES.
4. CONTRACTOR TO REMOVE AND DISPOSE OF OFFSITE, 12" CMP CULVERT AND REPLACE WITH 15" CSP PIPE PER SECTION 33 41 02. INSTALL THE CSP PIPE TO MATCH THE 12" CMP CULVERT FLOWLINE INVERT. CONTRACTOR SHALL NOT DISTURB OR REPLACE 12" CMP CULVERT ON PRIVATE PROPERTIES OUTSIDE THE LOC/ROW.
5. DEVIATION #3 TO THORNTON WATER PROJECT 1041 APPROVED ALIGNMENT FROM STA 154+57 TO STA 173+66.
6. CONTRACTOR TO PROTECT ALL TREES WITHIN THE ROW FROM STA 164+00 TO STA 171+23, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
7. FIBER OPTIC HANDHOLE SHALL BE PLACED A MINIMUM 5 FT FROM THE EDGE OF ROADWAY.
8. CONSTRUCTION WITHIN THE LARIMER COUNTY CANAL OHWM TO COMPLY WITH NWP 8 AND 58 (EXPIRES 3/15/2031).

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THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA
165+00 TO STA 177+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	25 OF 90
DRAWING:	PP-115

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\00 CAD\02 - Sheets\PP\240009_PP-113-PP-118.dwg USER: matthewb
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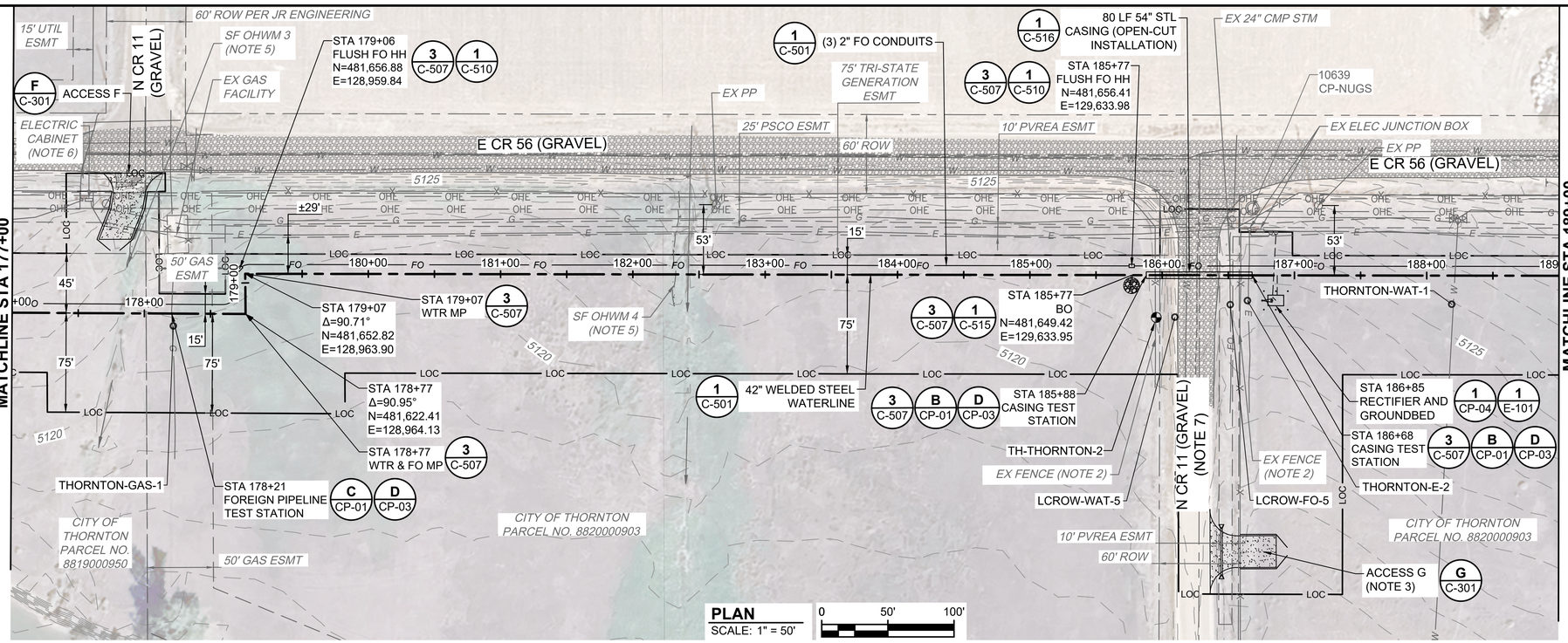

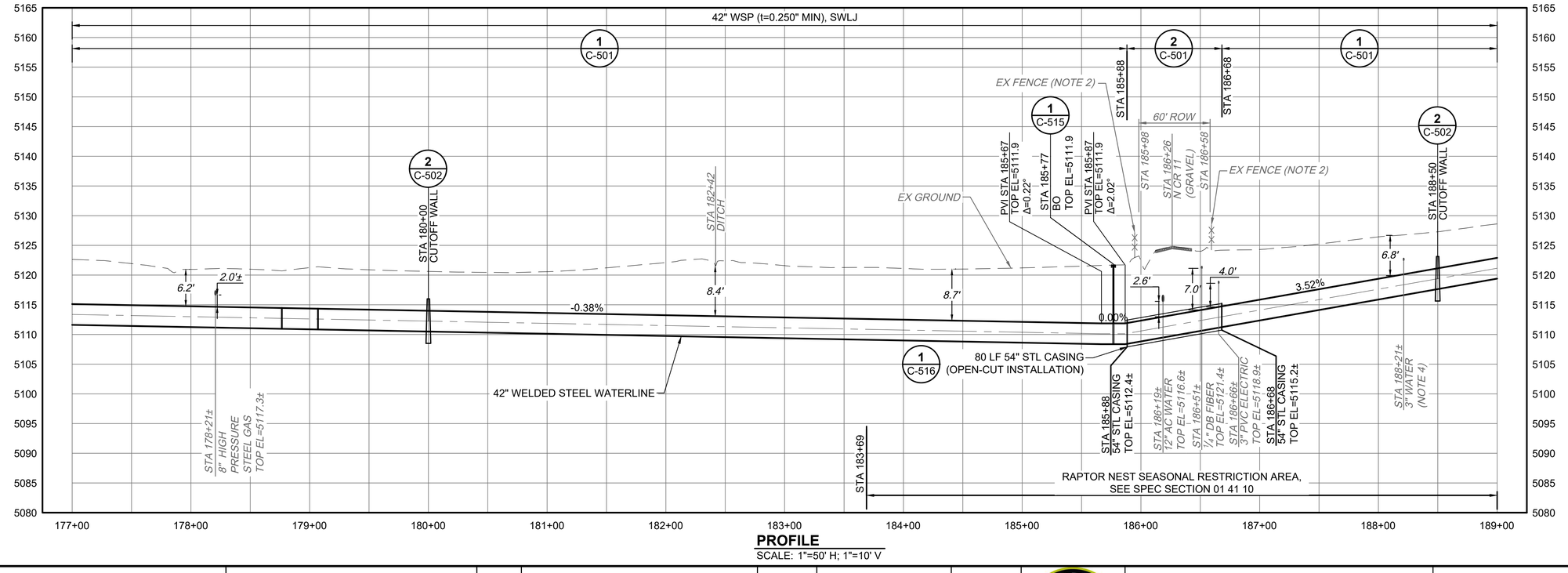

PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. REMOVE AND REPLACE FENCE IN KIND TO MATCH EXISTING WITHIN LOC.
3. ACCESS TO BE GRADED TO ALLOW SAFE VEHICULAR PASSAGE AND TO MAINTAIN EXISTING DRAINAGEWAYS.
4. EXISTING WATERLINE COULD NOT BE LOCATED. CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION.
5. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR WETLAND CROSSING REQUIREMENTS. NWP 58 EXPIRATION 3/15/2031.
6. PROTECT EXISTING ELECTRIC CABINETS IN PLACE.
7. LCR 11 CANNOT BE USED SOUTH OF THE CONSTRUCTION LIMITS.

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA 177+00 TO STA 189+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	26 OF 90
DRAWING:	PP-116

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\900 CAD\02 - Sheets\PP\240009_PP-113-PP-118.dwg USER: matthewb
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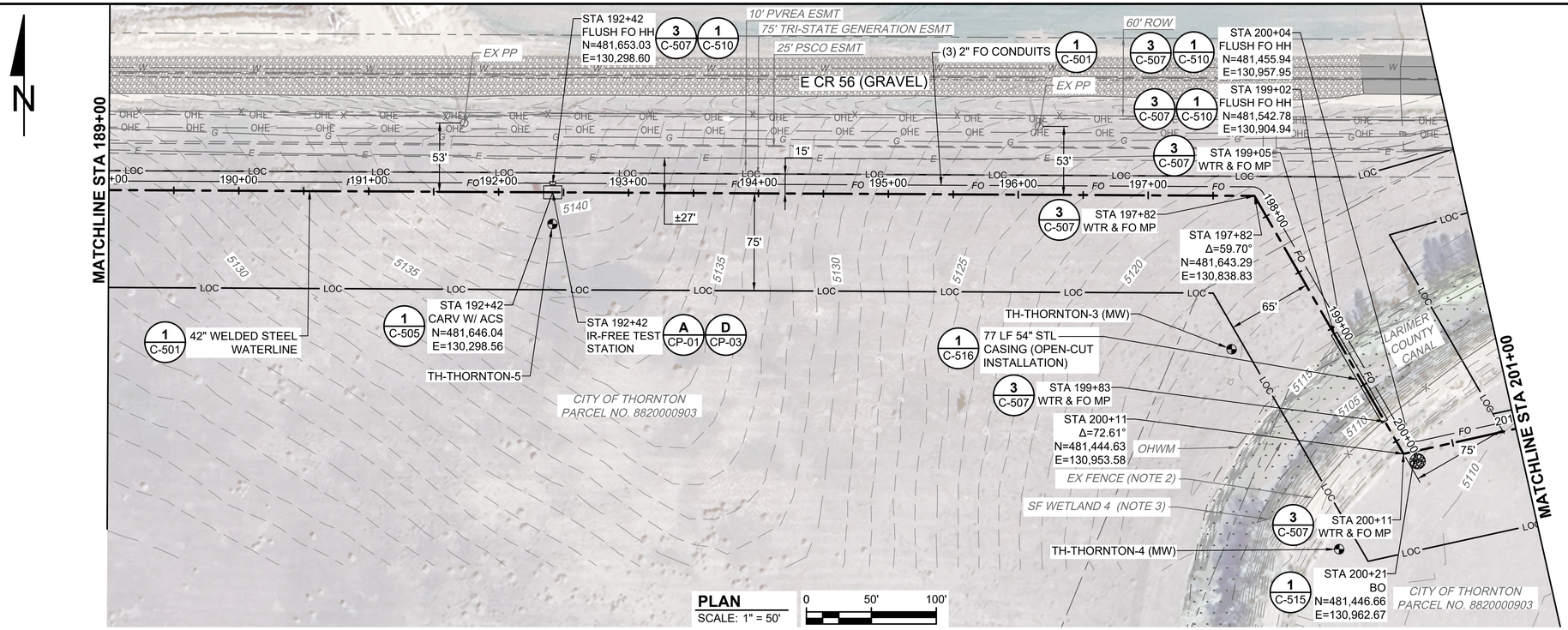

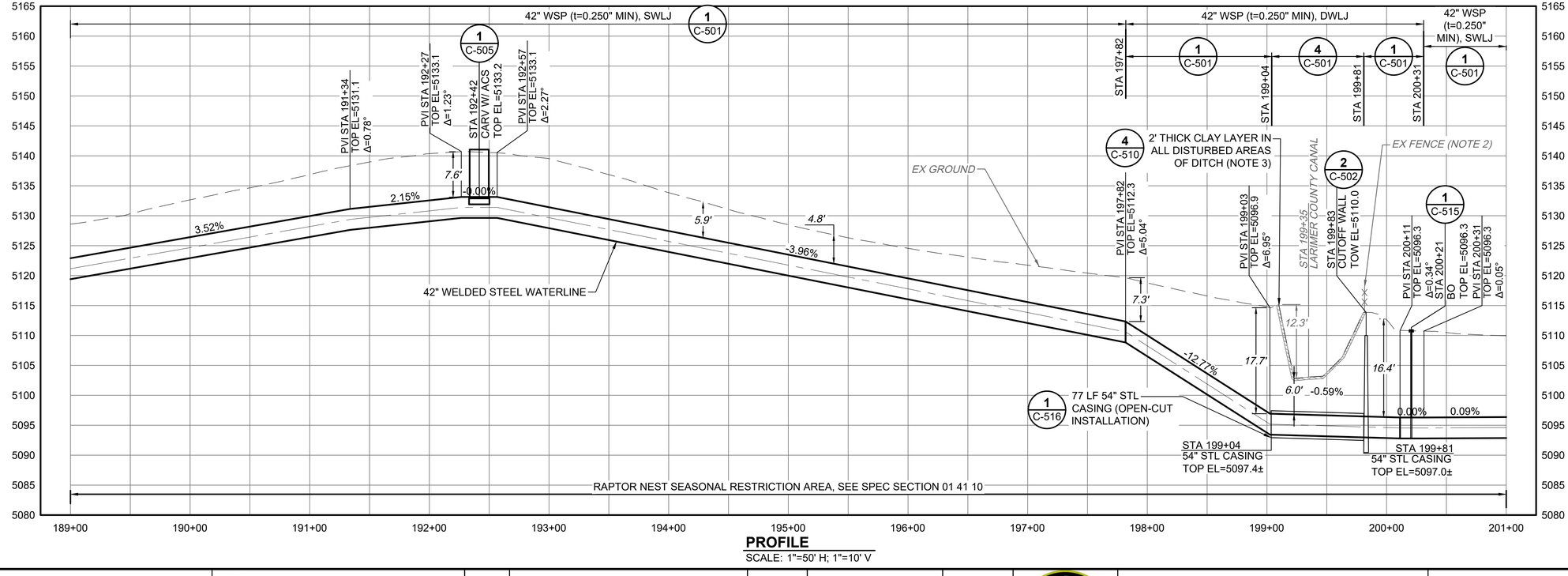

PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. REMOVE AND REPLACE FENCE IN KIND TO MATCH EXISTING WITHIN LOC.
3. NWP 58 CONDITIONS MUST BE FOLLOWED FOR WORK RELATED TO THE LARIMER COUNTY CANAL CROSSING. STOCKPILE AND PRESERVE ANY EXISTING EMBANKMENT PROTECTION AND REPLACE, IN KIND, AFTER CLAY LINER INSTALLATION.

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

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AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA
189+00 TO STA 201+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	27 OF 90
DRAWING:	PP-117

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\900 CAD\02 - Sheets\PP\240009_PP-113-PP-118.dwg USER: matthewb
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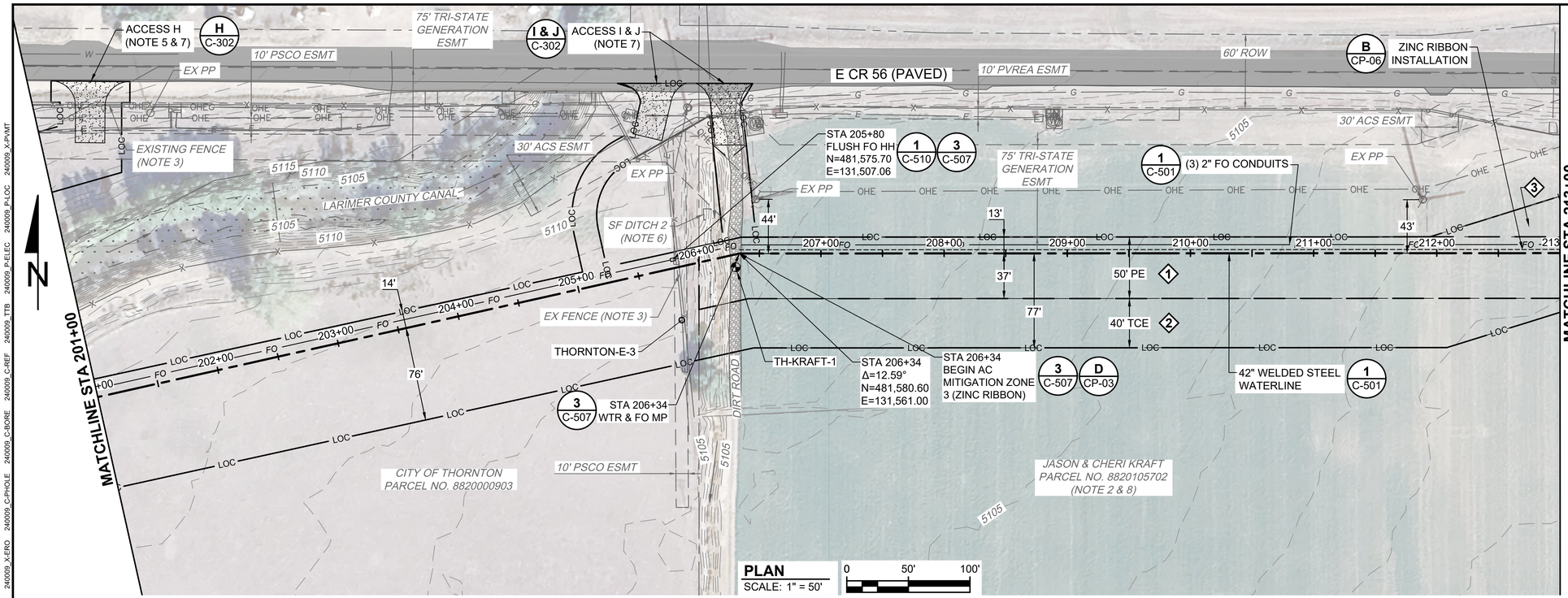

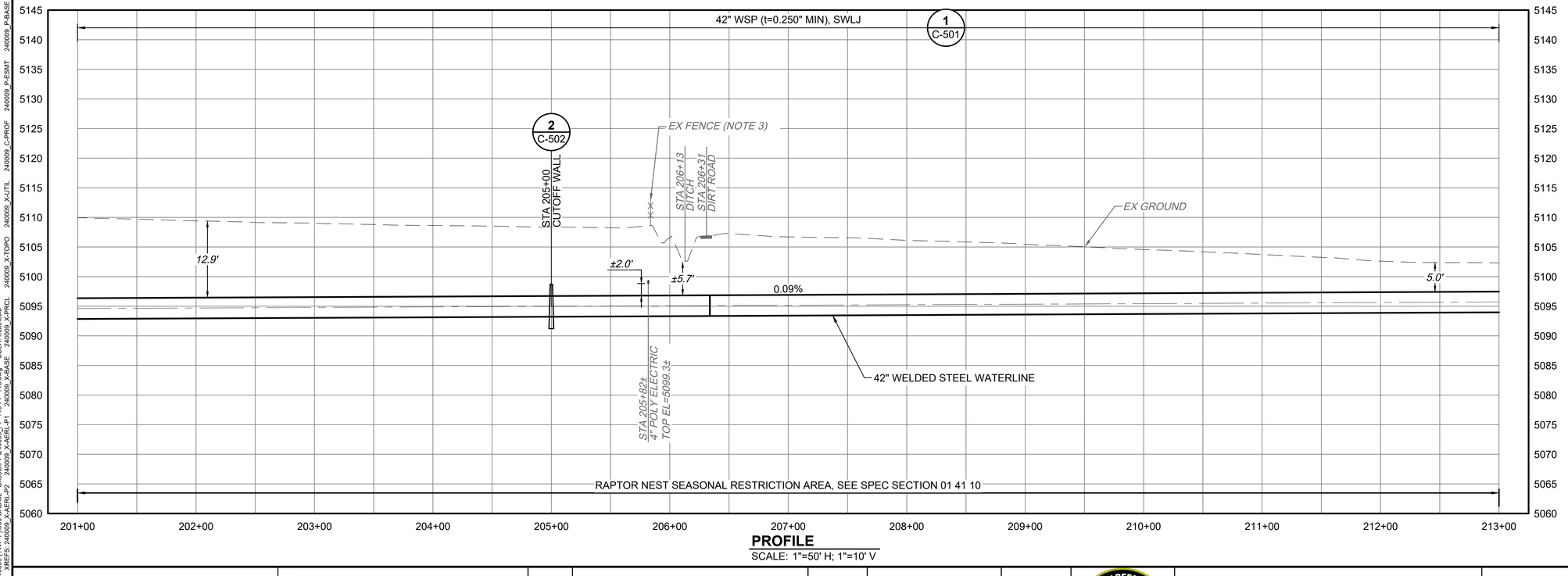

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. CONTRACTOR SHOULD REMOVE AND DISPOSE OF EXISTING SUBSURFACE DRIP TAPES NECESSARY FOR CONSTRUCTION.
3. REMOVE AND REPLACE FENCE IN KIND TO MATCH EXISTING WITHIN LOC.
4. SEE G-004 UTILITY, RAILROAD, AND DITCH CROSSING NOTES FOR PSCO CROSSING REQUIREMENTS.
5. TEMPORARY ACCESS TO BE GRADED TO ALLOW SAFE VEHICULAR PASSAGE AND TO MAINTAIN EXISTING DRAINAGEWAYS. TEMPORARY ACCESS TO BE REMOVED AND RESTORED IN ACCORDANCE WITH SPEC 32 90 10.
6. CONTRACTOR TO MAINTAIN DITCH FLOWS DURING CONSTRUCTION.
7. CONTRACTOR TO COORDINATE WITH XCEL ENERGY PRIOR TO CROSSING HP GAS LINE AT ACCESS POINTS H, I, J.
8. LIMIT WORK ON KRAFT PARCEL TO NON-IRRIGATION SEASON (NOV 1 - APR 1) UNLESS WRITTEN PERMISSION PROVIDED BY LANDOWNER.

CITY OF THORNTON EASEMENT SUMMARY			
ID	TIER #	EASEMENT TYPE	RECEPTION #
1	51-1PE	WATERLINE	20260025554
2	51-1TE2	TEMPORARY ACCESS AND CONSTRUCTION	20260025555
3	51-1TE	TEMPORARY ACCESS AND CONSTRUCTION	20260025555

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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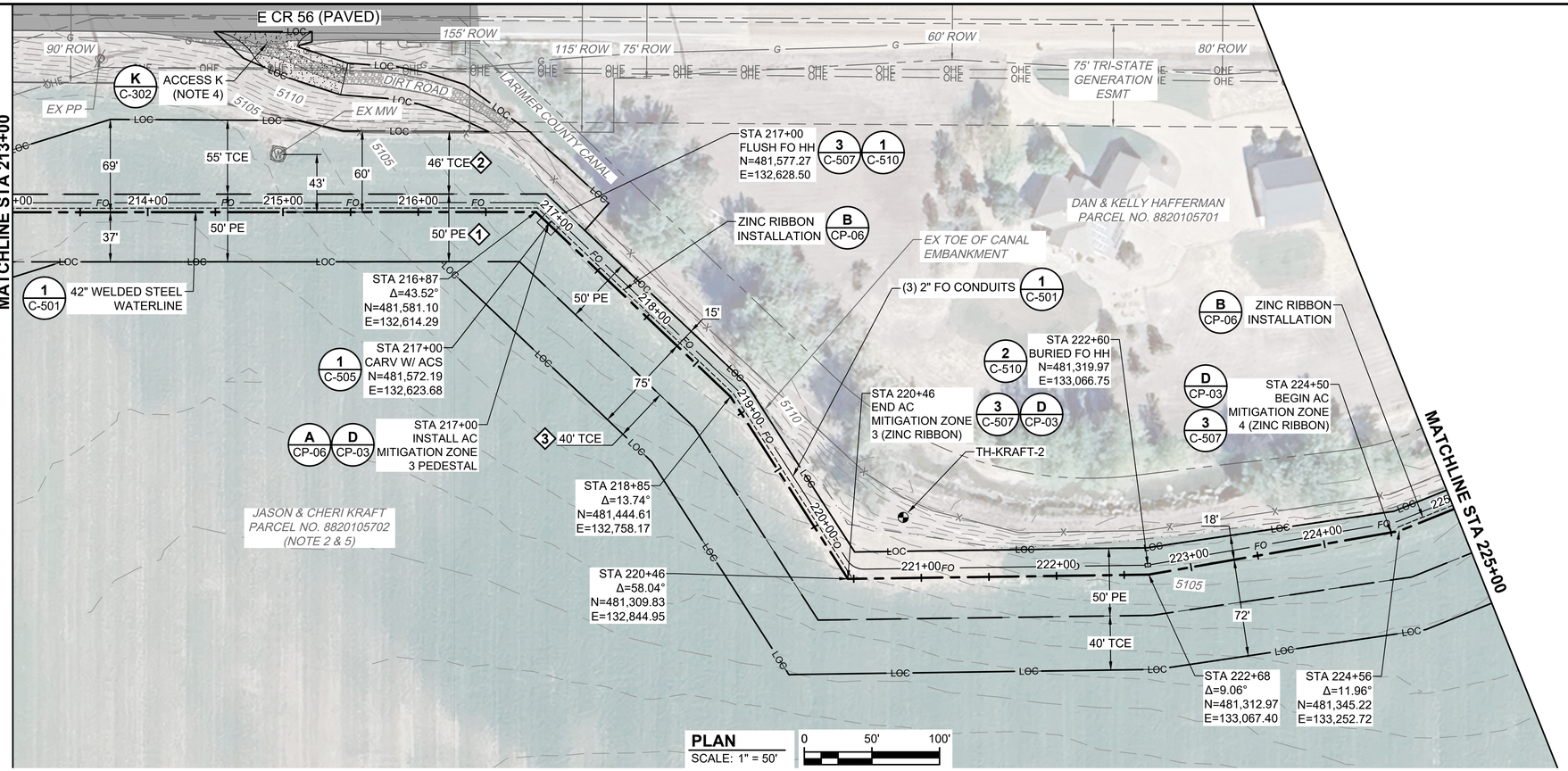
AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA 201+00 TO STA 213+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	28 OF 90
DRAWING:	PP-118

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\90 CAD\02 - Sheets\PP\240009_PP-113-PP-118.dwg USER: matthewb
DATE: Aug 13, 2026 12:26pm XREFS: 240009_X-AERL-P1 240009_X-BASE 240009_X-PRCL 240009_X-TOPO 240009_X-UTIL 240009_C-PROF 240009_P-ESMT 240009_P-BASE 240009_X-ERO 240009_C-PHOLE 240009_C-BORE 240009_C-REF 240009_TTB 240009_P-ELEC 240009_P-LOC 240009_X-PVMT



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SCALE: 1" = 50'

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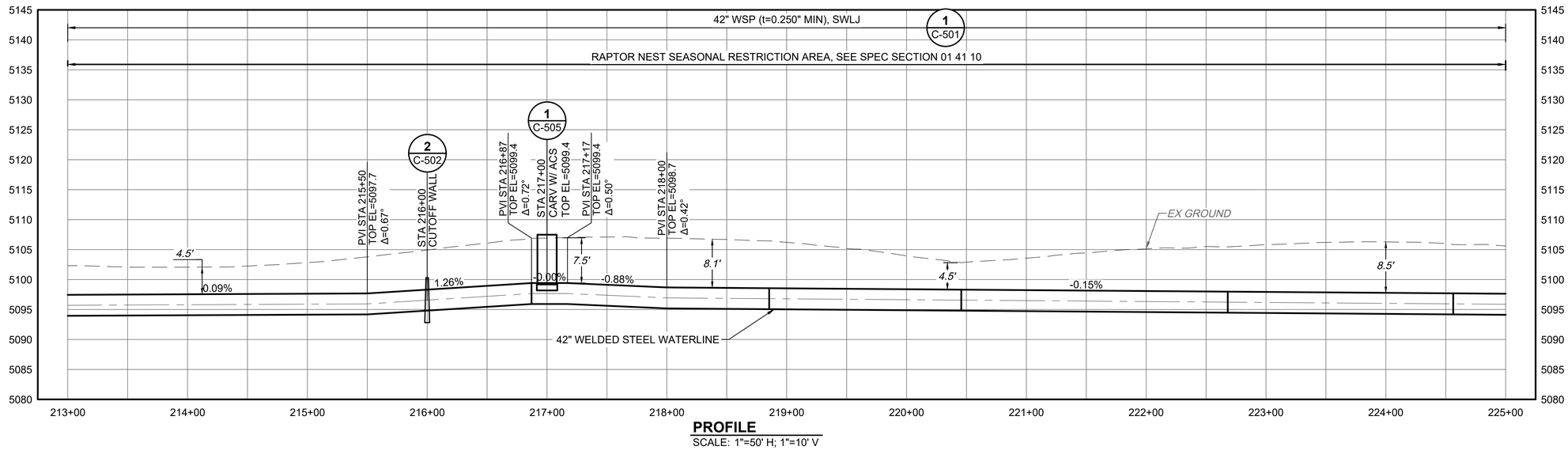

PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. CONTRACTOR SHOULD REMOVE AND DISPOSE OF EXISTING SUBSURFACE DRIP TAPES NECESSARY FOR CONSTRUCTION.
3. CONTRACTOR TO UNHOOK EXISTING ELECTRIC FENCE DURING CONSTRUCTION, PROTECT DURING CONSTRUCTION AND REINSTALL AFTER CONSTRUCTION.
4. CONTRACTOR TO COORDINATE WITH XCEL ENERGY PRIOR TO CROSSING HP GAS LINE AT ACCESS POINT K.
5. LIMIT WORK ON KRAFT PARCEL TO NON-IRRIGATION SEASON (NOV 1 - APR 1) UNLESS WRITTEN PERMISSION PROVIDED BY LANDOWNER.

CITY OF THORNTON EASEMENT SUMMARY			
ID	TIER #	EASEMENT TYPE	RECEPTION #
1	51-1PE	WATERLINE	20260025554
2	51-1TE	TEMPORARY ACCESS AND CONSTRUCTION	20260025555
3	51-1TE2	TEMPORARY ACCESS AND CONSTRUCTION	20260025555

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

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NOT FOR CONSTRUCTION
AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA 213+00 TO STA 225+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	29 OF 90
DRAWING:	PP-119

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DATE: Aug 13, 2026 12:26pm
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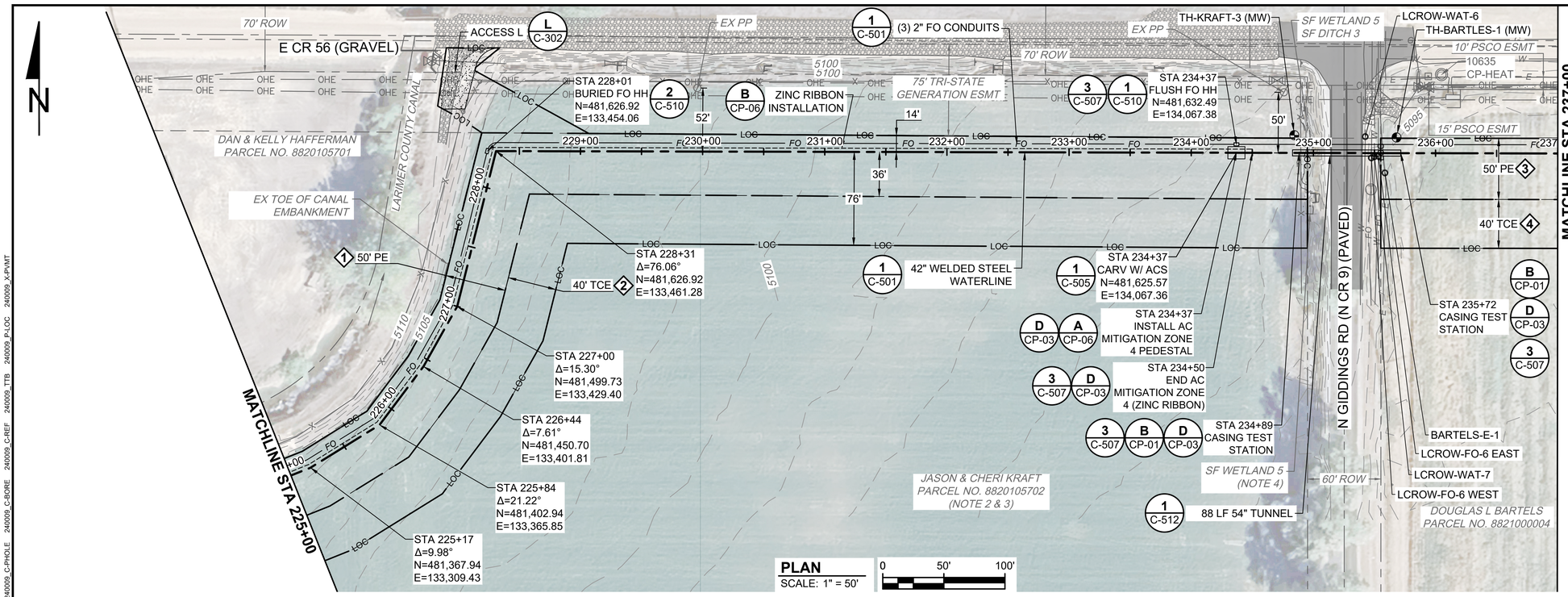
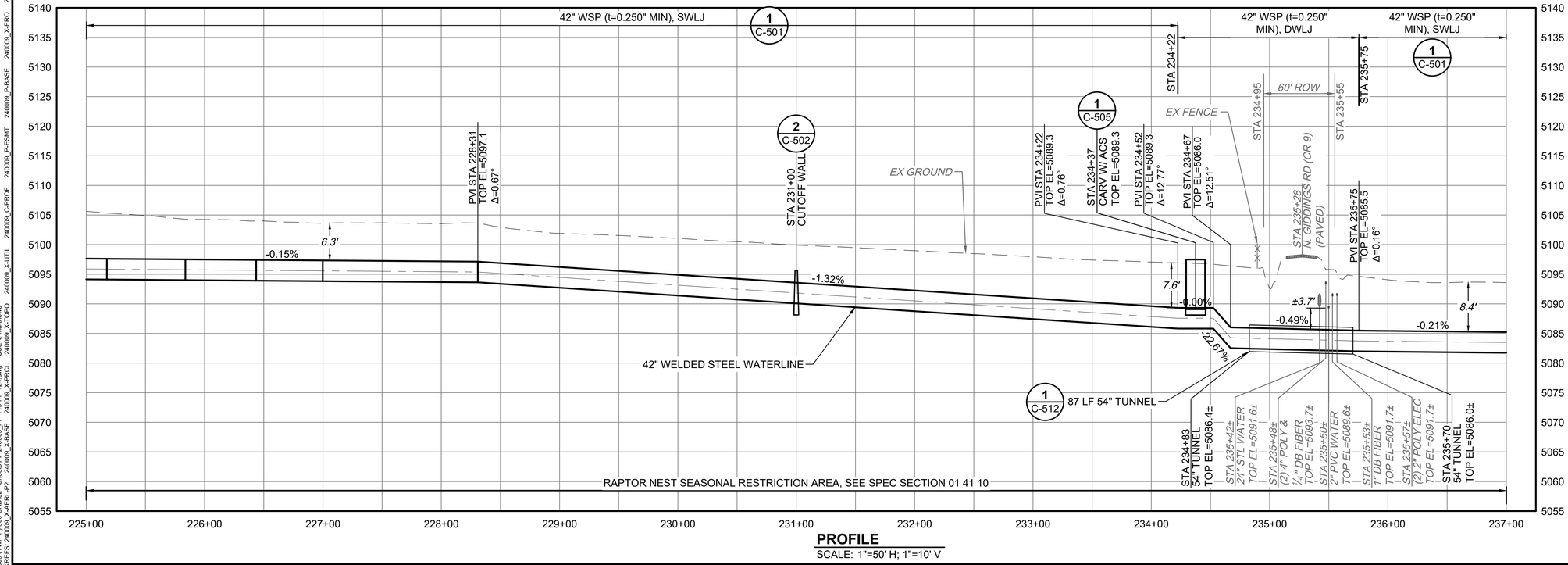
USER: matthewh



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. CONTRACTOR SHOULD REMOVE AND DISPOSE OF EXISTING SUBSURFACE DRIP TAPES NECESSARY FOR CONSTRUCTION.
3. LIMIT WORK ON KRAFT PARCEL TO NON-IRRIGATION SEASON (NOV 1 - APR 1) UNLESS WRITTEN PERMISSION PROVIDED BY LANDOWNER.
4. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR WETLAND CROSSING REQUIREMENTS. NWP 58 EXPIRATION 3/15/2031.

CITY OF THORNTON EASEMENT SUMMARY			
ID	TIER #	EASEMENT TYPE	RECEPTION #
1	51-1PE	WATERLINE	20260025554
2	51-1TE2	TEMPORARY ACCESS AND CONSTRUCTION	20260025555
3	50-3PE	WATERLINE	20250047912
4	50-3TE	TEMPORARY ACCESS AND CONSTRUCTION	20250047913

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

VERIFY SCALE
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CONTACT 811 BEFORE YOU DIG — 811 — SAFE DIGGING PARTNER

ISSUED FOR BIDDING
NOT FOR CONSTRUCTION
AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA 225+00 TO STA 237+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	30 OF 90
DRAWING:	PP-120

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\800 CAD\02 - Sheets\PP\240009_PP-119-PP-124.dwg
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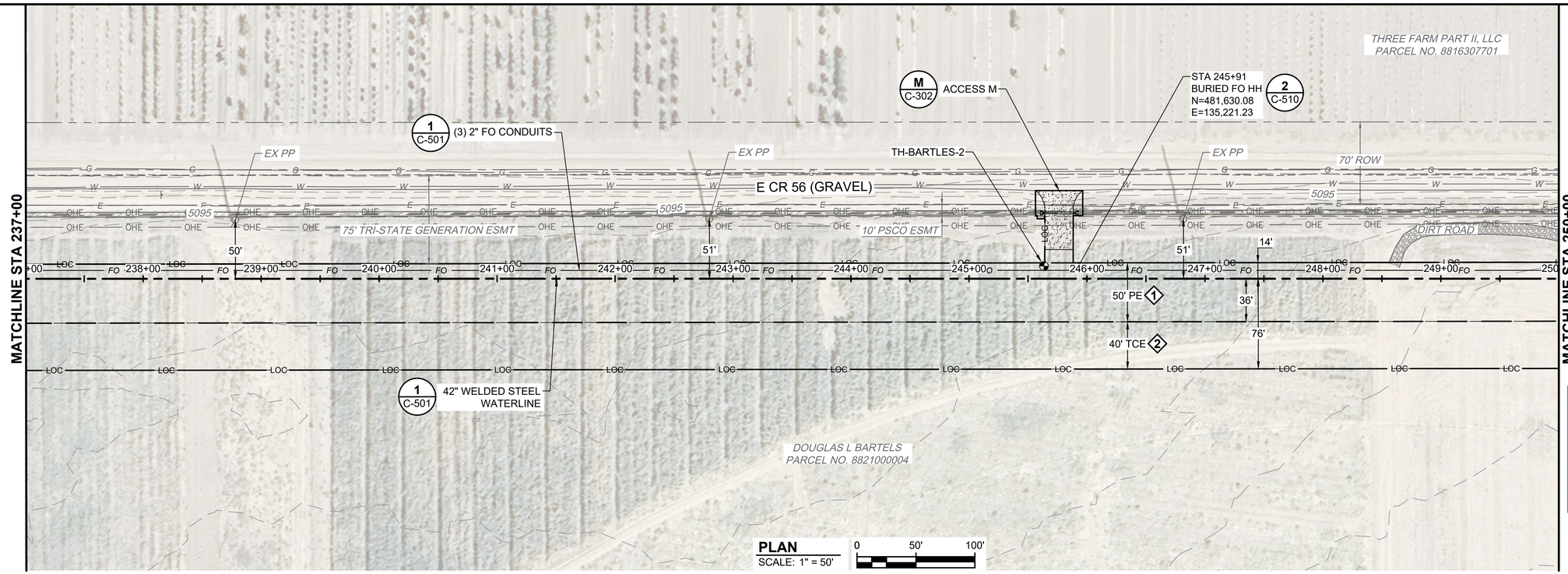
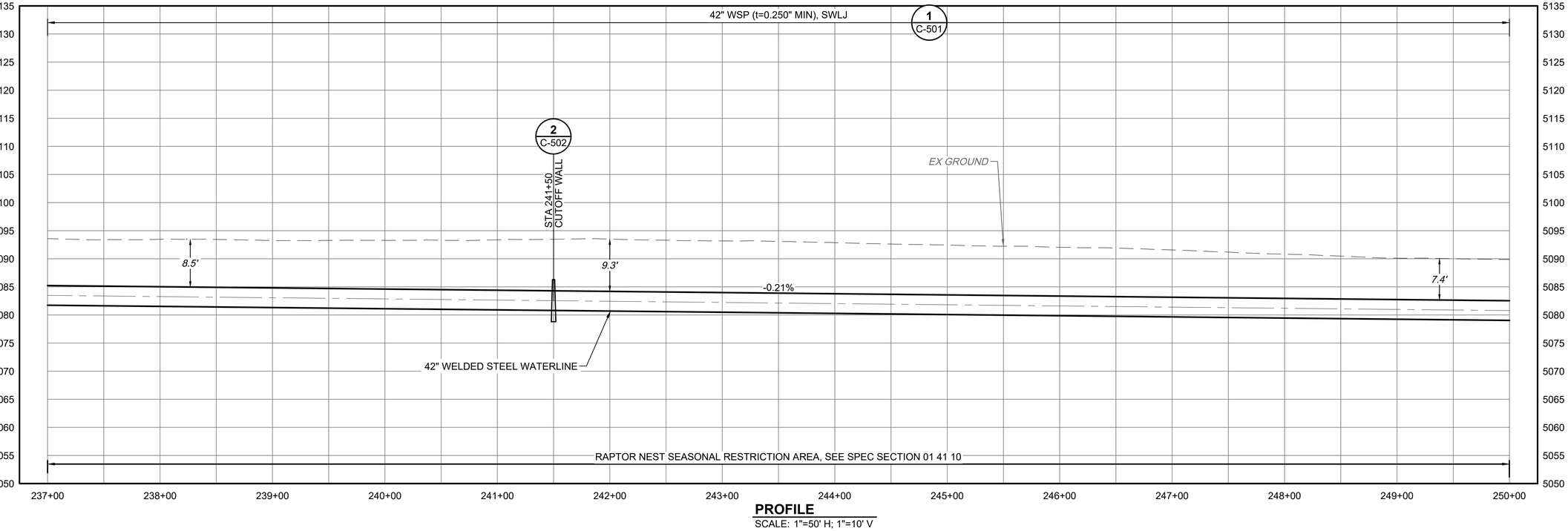
USER: matthewb





PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.

CITY OF THORNTON EASEMENT SUMMARY			
ID	TIER #	EASEMENT TYPE	RECEPTION #
1	50-3PE	WATERLINE	20250047912
2	50-3TE	TEMPORARY ACCESS AND CONSTRUCTION	20250047913

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
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CONTACT 811 BEFORE YOU DIG
811
SAFE DIGGING PARTNER

ISSUED FOR BIDDING
NOT FOR CONSTRUCTION
AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA 237+00 TO STA 250+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	31 OF 90
DRAWING:	PP-121

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\800 CAD\02 - Sheets\PP\240009_PP-119-PP-124.dwg
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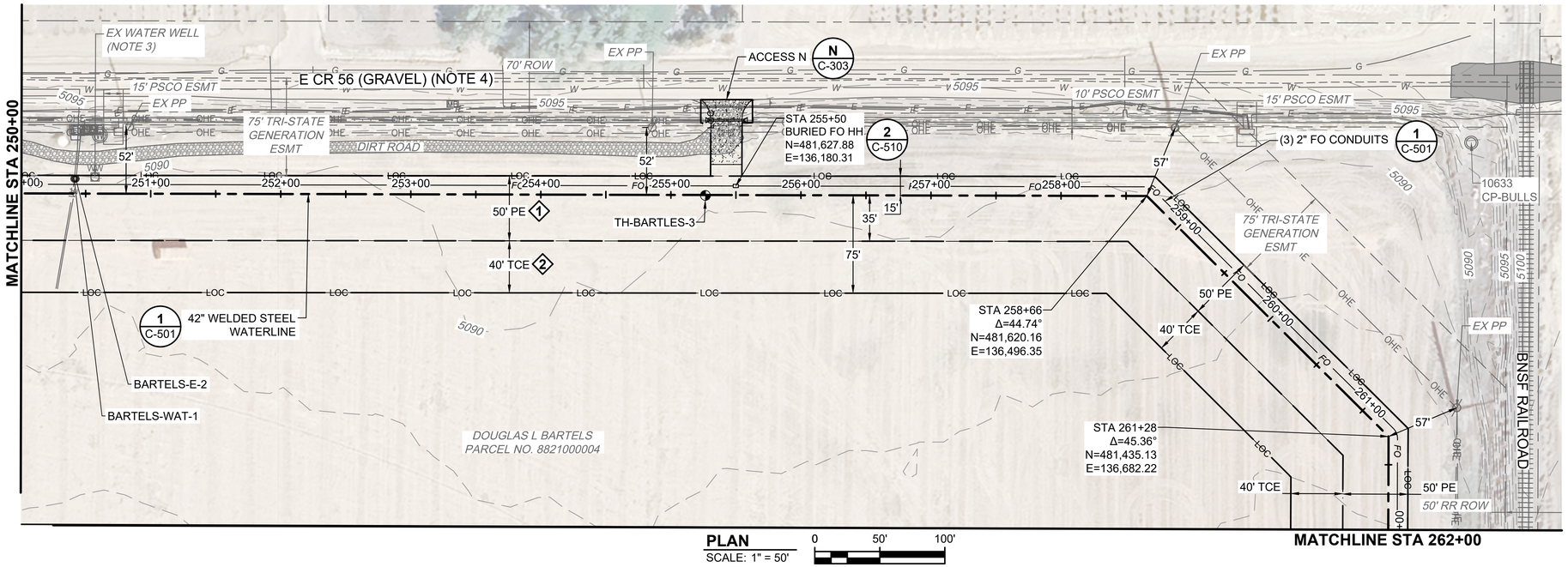
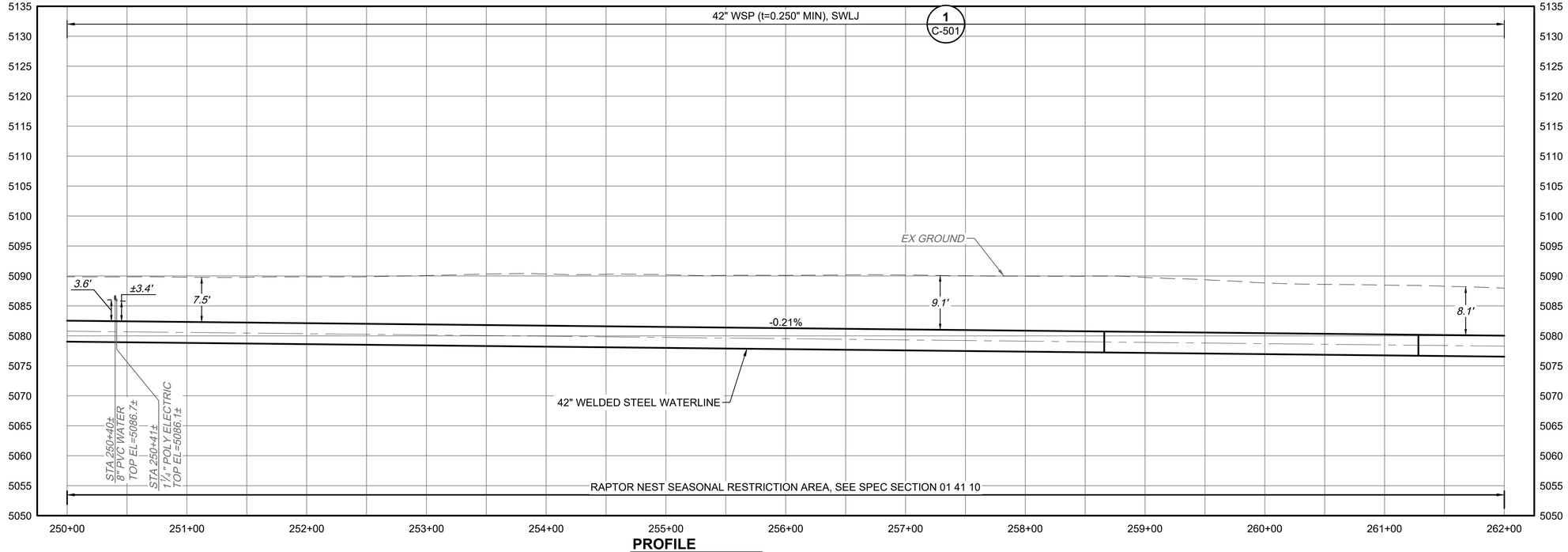
USER: matthewb



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. DEVIATION #2 TO THORNTON WATER PROJECT 1041 APPROVED ALIGNMENT FROM STA 261+28 T0 STA 312+02.
3. PROTECT EXISTING WATER WELL.
4. LCR 56 EAST OF THE BNSF RAILROAD CANNOT BE USED.

CITY OF THORNTON EASEMENT SUMMARY			
ID	TIER #	EASEMENT TYPE	RECEPTION #
1	50-3PE	WATERLINE	20250047912
2	50-3TE	TEMPORARY ACCESS AND CONSTRUCTION	20250047913

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

VERIFY SCALE
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CONTACT 811 BEFORE YOU DIG — 811 — SAFE DIGGING PARTNER

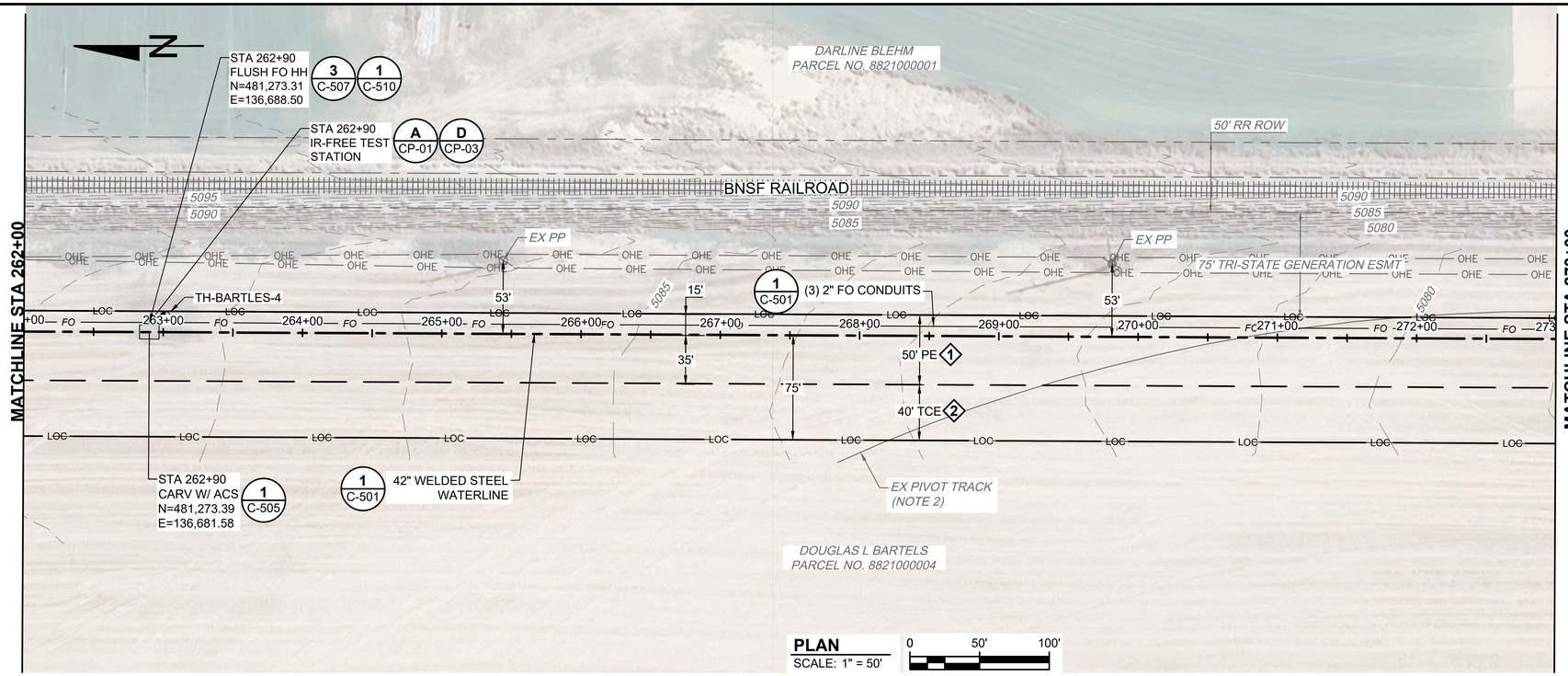
ISSUED FOR BIDDING
NOT FOR CONSTRUCTION
AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA 250+00 TO STA 262+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	32 OF 90
DRAWING:	PP-122

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\800 CAD\02 - Sheets\PP\240009_PP-119-PP-124.dwg USER: matthewb
DATE: Aug 13, 2026 12:27pm XREFS: 240009_X-AERL-P2 240009_X-BASE 240009_X-PRCL 240009_X-TOPO 240009_X-UTIL 240009_C-PROF 240009_P-ESMT 240009_P-BASE 240009_X-ERO 240009_C-BGRE 240009_C-PHOLE 240009_C-REF 240009_TTB 240009_P-LOC 240009_X-PVMT



PLAN
SCALE: 1" = 50'

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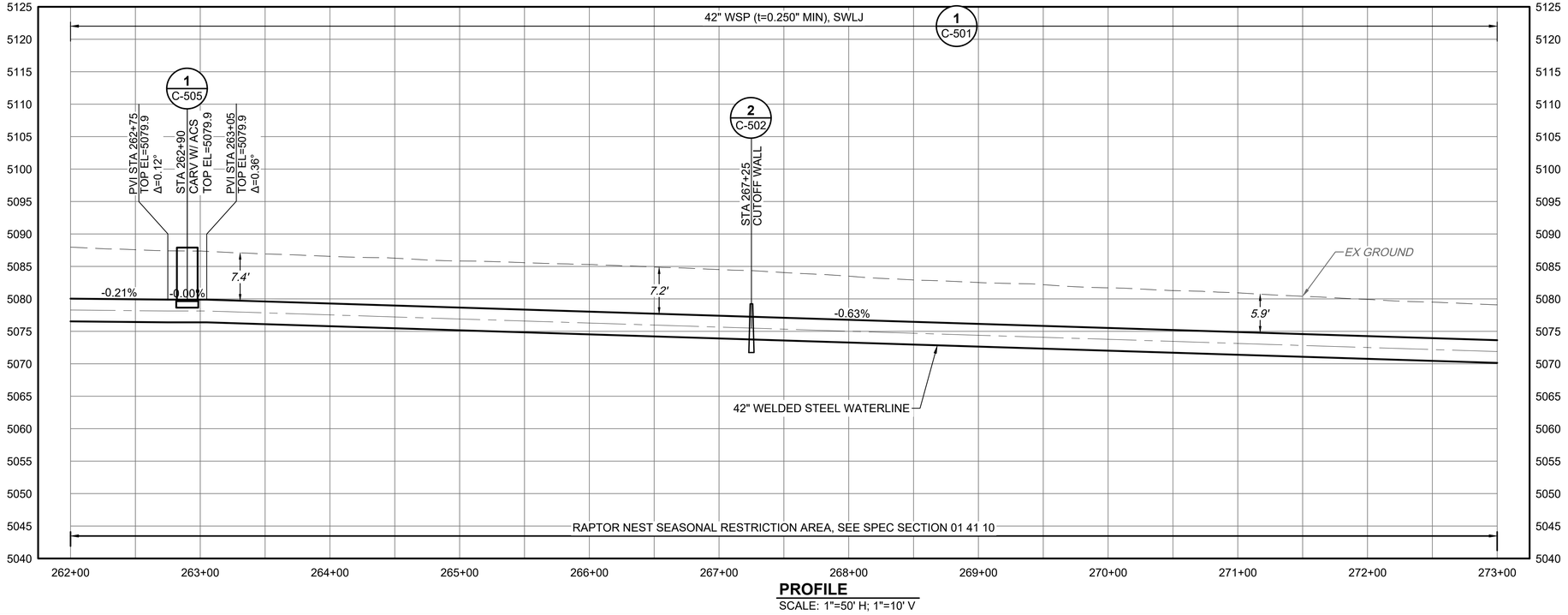

PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. CONSTRUCTION GRADING WILL OCCUR ACROSS IRRIGATION PIVOT TRACK. CONTRACTOR SHALL PLACE A 3-FOOT WIDE, 12" THICK BASE OF CRUSHED ROCK COVERED WITH 24 INCHES OF TOPSOIL AND ROOT ZONE MATERIAL, CENTERED UNDER THE PIVOT WHEEL TRACK.
3. DEVIATION #2 TO THORNTON WATER PROJECT 1041 APPROVED ALIGNMENT FROM STA 261+28 TO STA 312+02.

CITY OF THORNTON EASEMENT SUMMARY			
ID	TIER #	EASEMENT TYPE	RECEPTION #
1	50-3PE	WATERLINE	20250047912
2	50-3TE	TEMPORARY ACCESS AND CONSTRUCTION	20250047913

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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CONTACT 811 BEFORE YOU DIG 811 SAFE DIGGING PARTNER

ISSUED FOR BIDDING
NOT FOR CONSTRUCTION
AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA 262+00 TO STA 273+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	33 OF 90
DRAWING:	PP-123

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\900 CAD\02 - Sheets\PP\240009_PP-119-PP-124.dwg USER: matthewb
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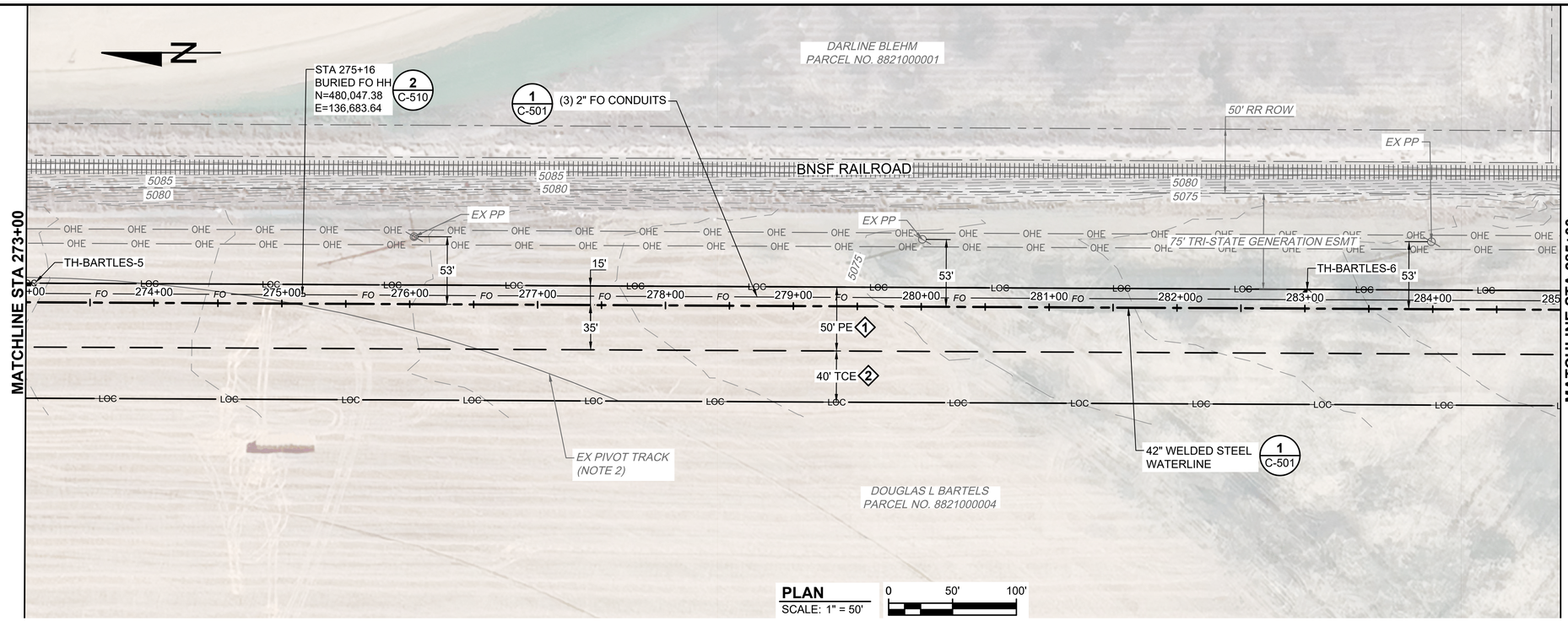

PLAN
SCALE: 1" = 50'

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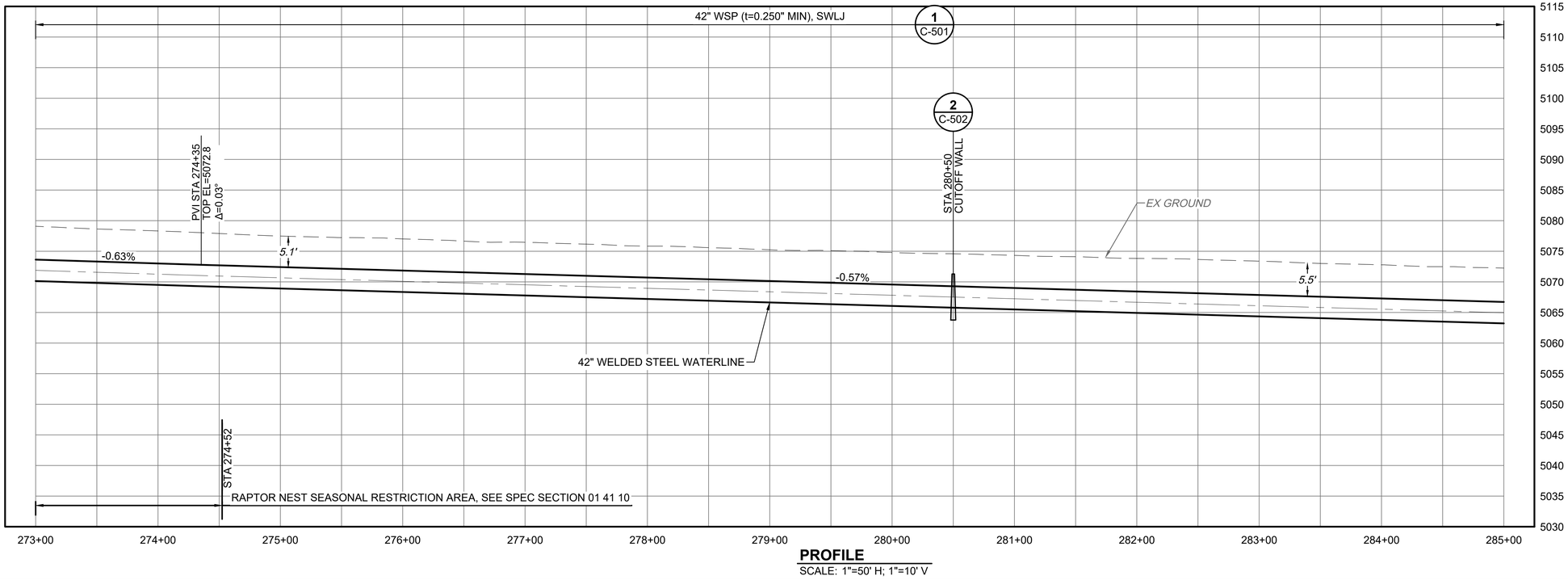

PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. CONSTRUCTION GRADING WILL OCCUR ACROSS IRRIGATION PIVOT TRACK. CONTRACTOR SHALL PLACE A 3-FOOT WIDE, 12" THICK BASE OF CRUSHED ROCK COVERED WITH 24 INCHES OF TOPSOIL, CENTERED UNDER THE PIVOT WHEEL TRACK.
3. DEVIATION #2 TO THORNTON WATER PROJECT 1041 APPROVED ALIGNMENT FROM STA 261+28 TO STA 312+02.

CITY OF THORNTON EASEMENT SUMMARY			
ID	TIER #	EASEMENT TYPE	RECEPTION #
1	50-3PE	WATERLINE	20250047912
2	50-3TE	TEMPORARY ACCESS AND CONSTRUCTION	20250047913

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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CONTACT 811 BEFORE YOU DIG 811 SAFE DIGGING PARTNER

ISSUED FOR BIDDING
NOT FOR CONSTRUCTION
AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA 273+00 TO STA 285+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	34 OF 90
DRAWING:	PP-124

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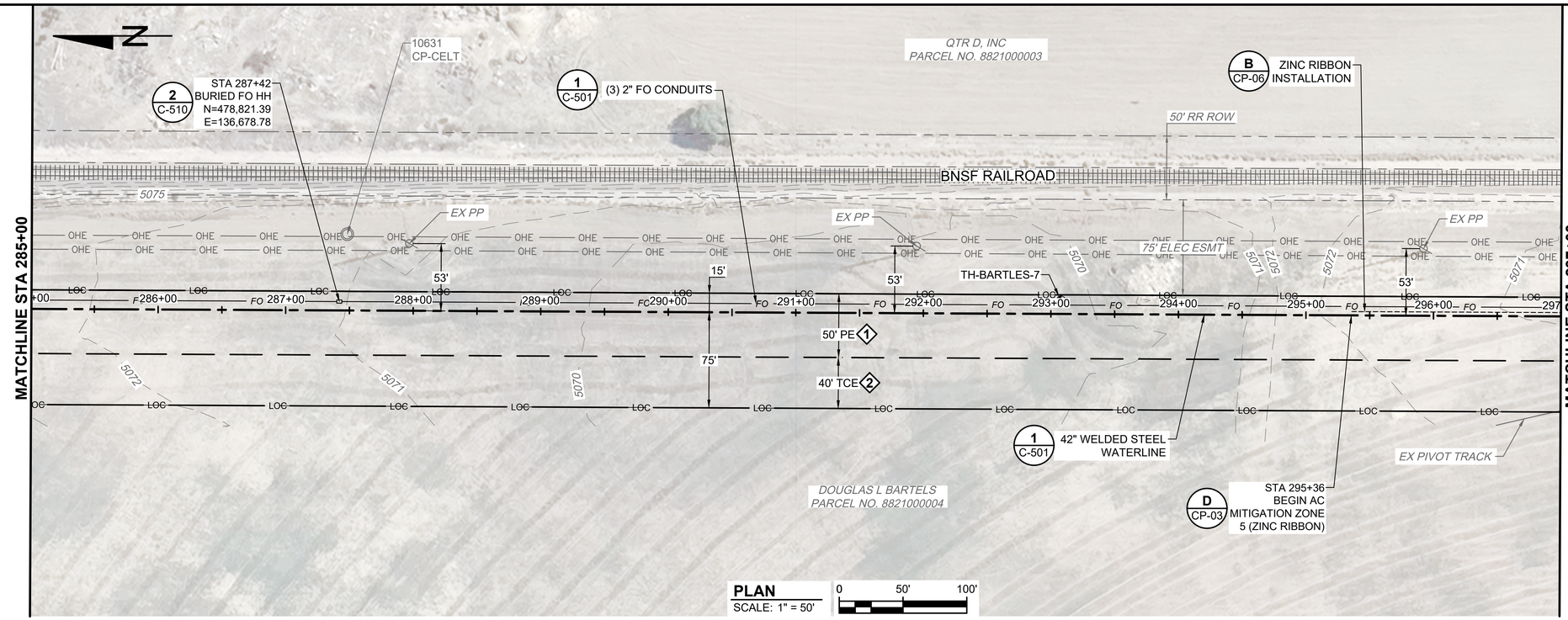
USER: matthewb



PLAN
SCALE: 1" = 50'

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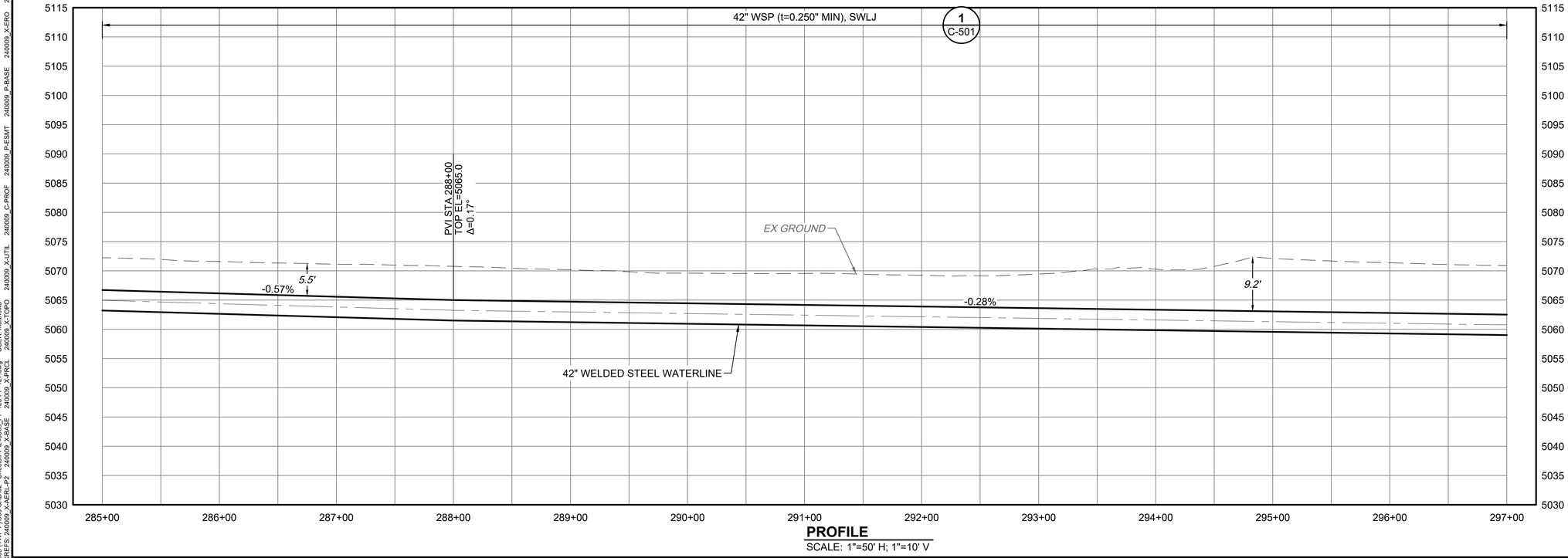

PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. DEVIATION #2 TO THORNTON WATER PROJECT 1041 APPROVED ALIGNMENT FROM STA 261+28 TO STA 312+02.

CITY OF THORNTON EASEMENT SUMMARY			
ID	TIER #	EASEMENT TYPE	RECEPTION #
1	50-3PE	WATERLINE	20250047912
2	50-3TE	TEMPORARY ACCESS AND CONSTRUCTION	20250047913

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THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

VERIFY SCALE
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CONTACT 811 BEFORE YOU DIG — 811 — SAFE DIGGING PARTNER

ISSUED FOR BIDDING
NOT FOR CONSTRUCTION
AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA 285+00 TO STA 297+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	35 OF 90
DRAWING:	PP-125

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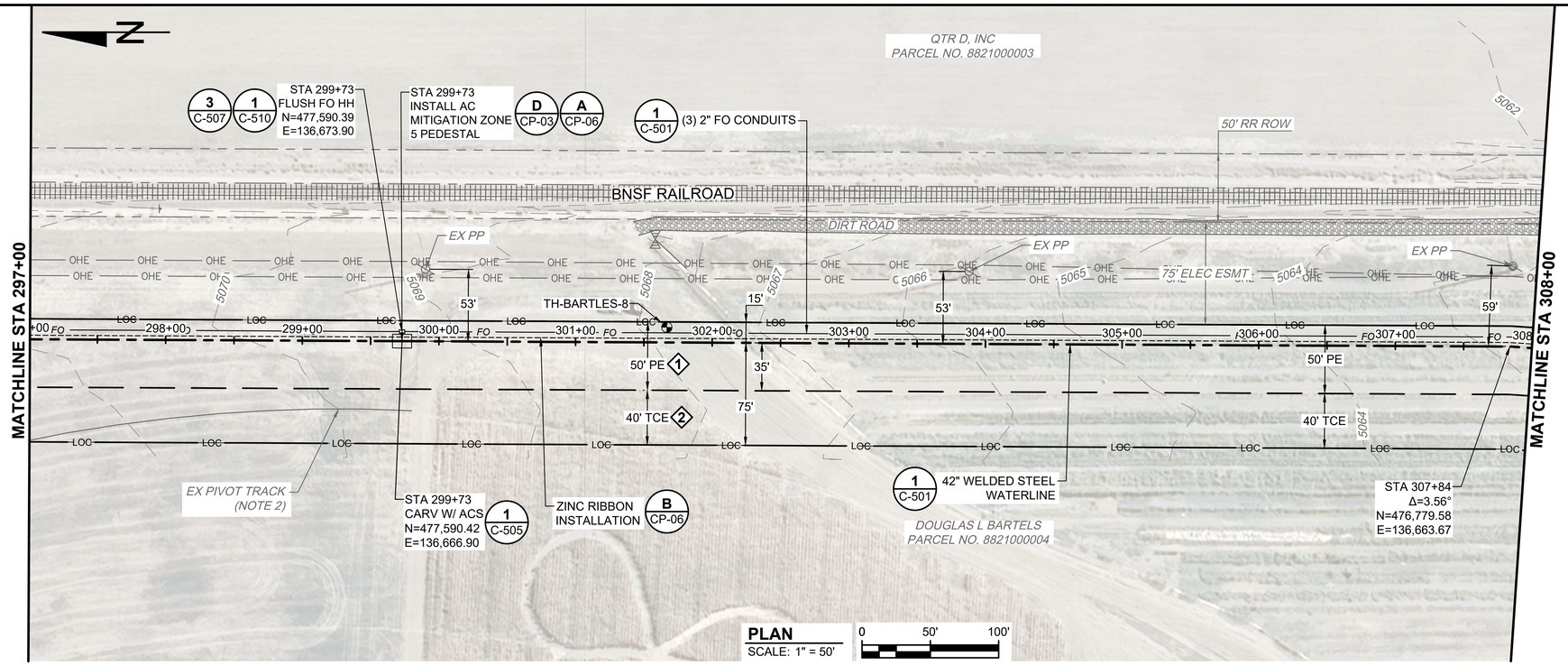
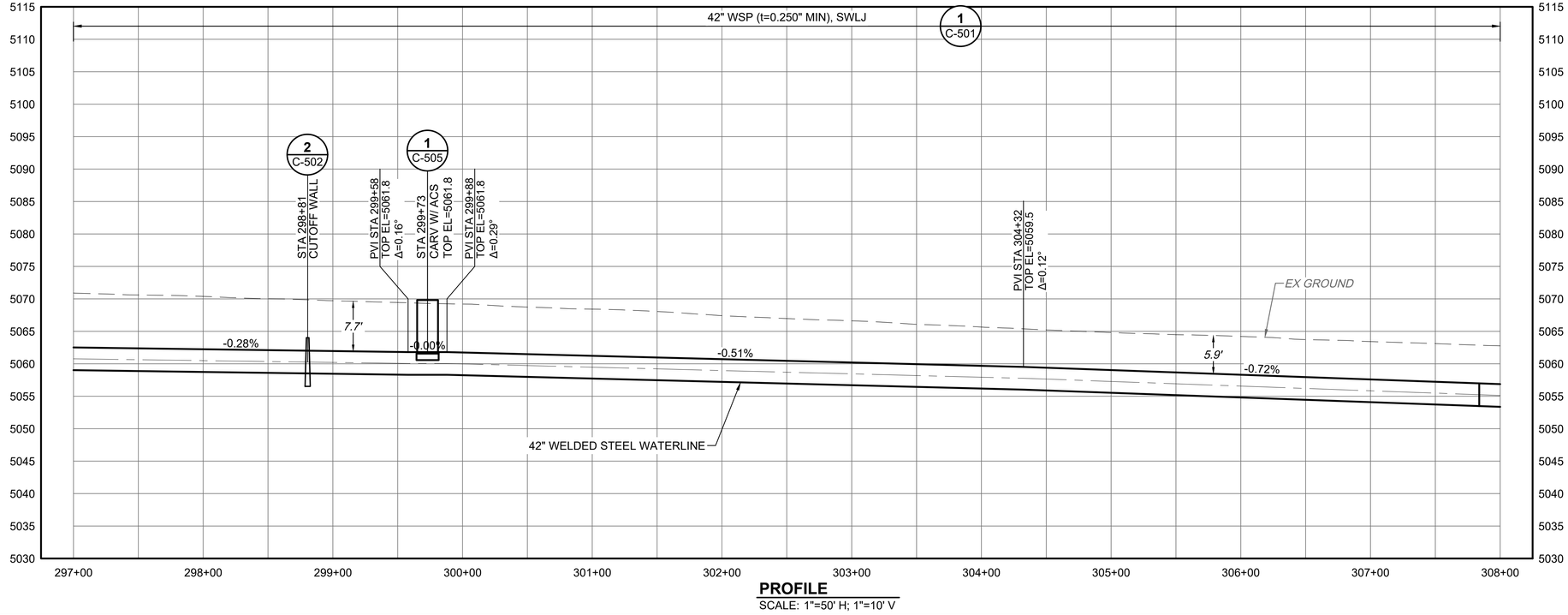
USER: matthewb





NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. CONSTRUCTION GRADING WILL OCCUR ACROSS IRRIGATION PIVOT TRACK. CONTRACTOR SHALL PLACE A 3-FOOT WIDE, 12" THICK BASE OF CRUSHED ROCK COVERED WITH 24 INCHES OF TOPSOIL, CENTERED UNDER THE PIVOT WHEEL TRACK.
3. DEVIATION #2 TO THORNTON WATER PROJECT 1041 APPROVED ALIGNMENT FROM STA 261+28 TO STA 312+02.

CITY OF THORNTON EASEMENT SUMMARY			
ID	TIER #	EASEMENT TYPE	RECEPTION #
1	50-3PE	WATERLINE	20250047912
2	50-3TE	TEMPORARY ACCESS AND CONSTRUCTION	20250047913

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

VERIFY SCALE
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CONTACT 811 BEFORE YOU DIG
811
SAFE DIGGING PARTNER

ISSUED FOR BIDDING
NOT FOR CONSTRUCTION
AUGUST 13, 2026

TWP SEGMENT F.1

PLAN AND PROFILE STA 297+00 TO STA 308+00

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	36 OF 90
DRAWING:	PP-126

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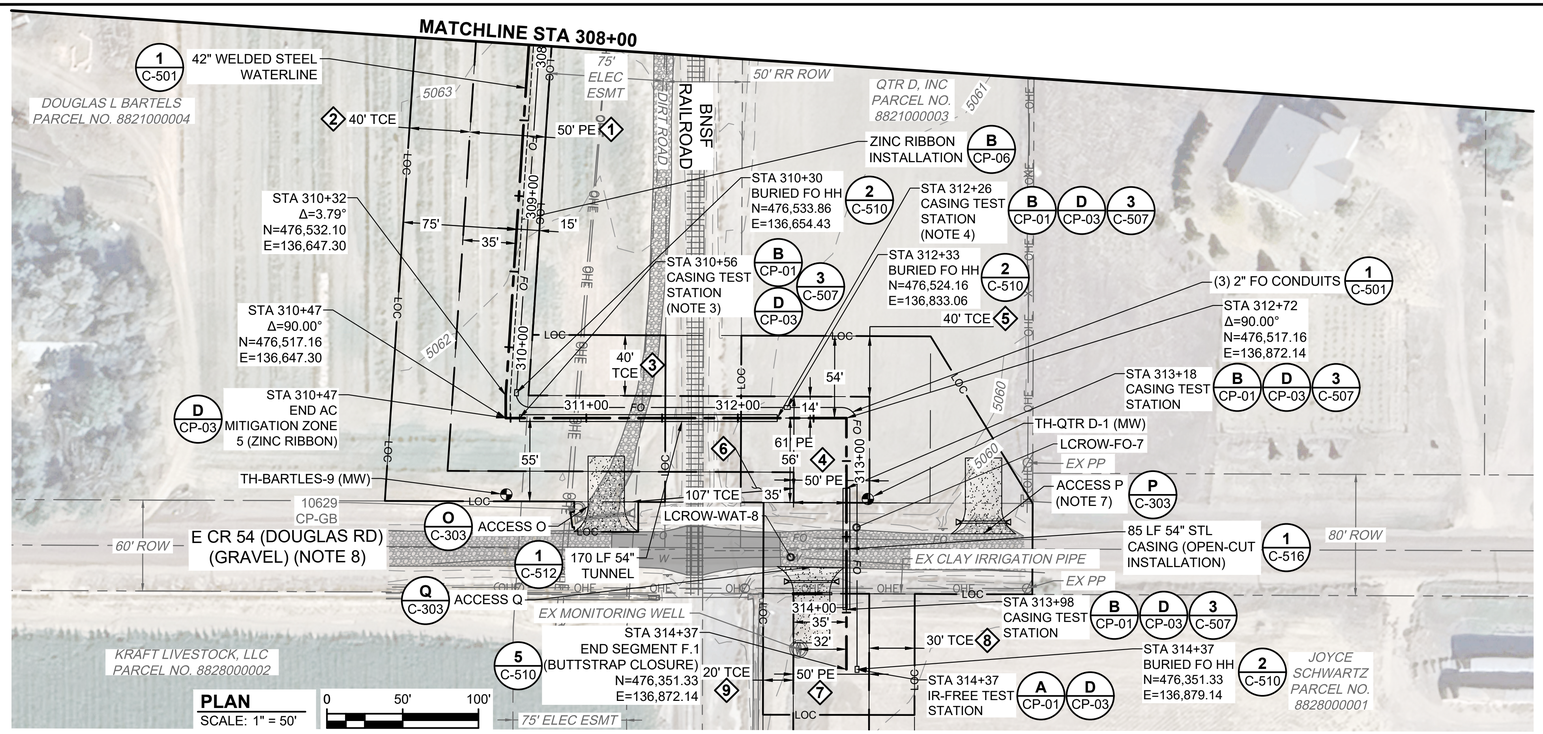

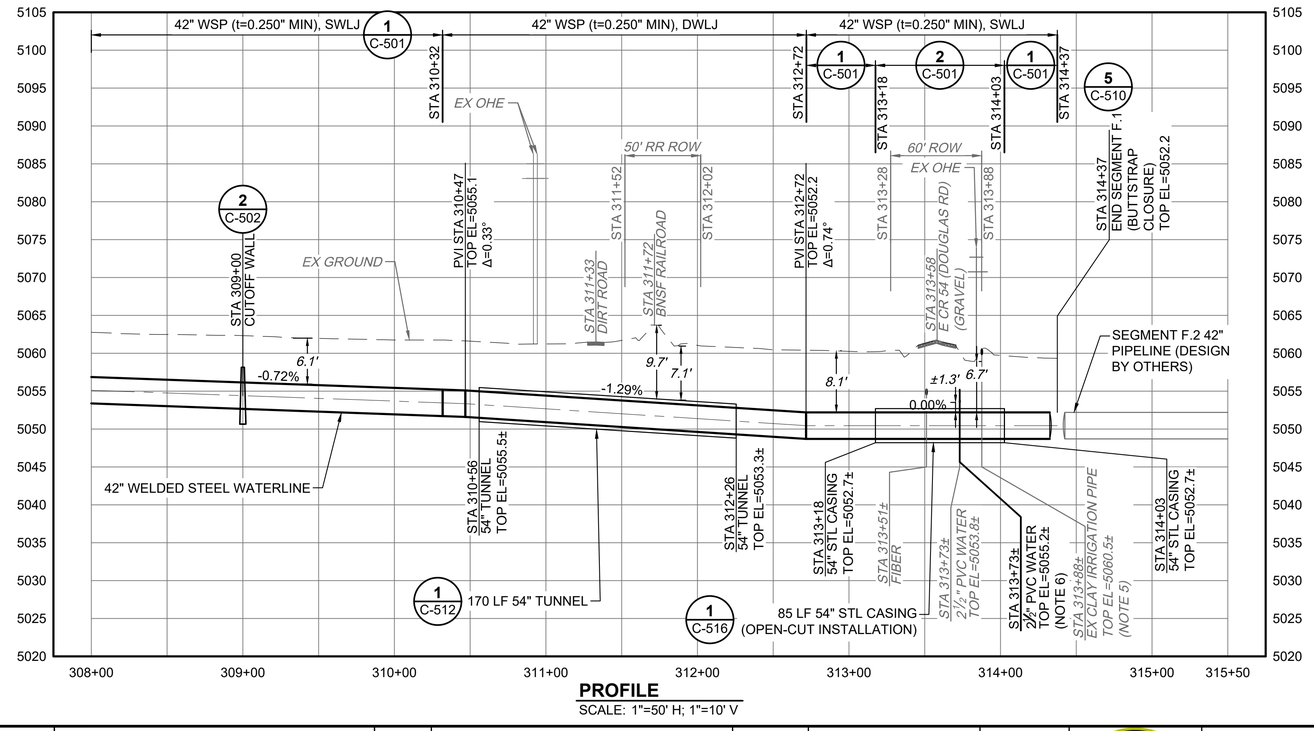

PROFILE
SCALE: 1"=50' H; 1"=10' V

NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. DEVIATION #2 TO THORNTON WATER PROJECT 1041 APPROVED ALIGNMENT FROM STA 261+28 TO STA 312+02.
3. CASING TEST STATION LEADS SHALL CONNECT TO END OF CASING AT STA 310+56. TEST STATION TERMINAL POST SHALL BE LOCATED AT STATION 311+52. ROUTE TEST STATION LEADS IN 1-1/2" PVC CONDUIT A MINIMUM BURY DEPTH OF 2 FEET FROM END OF CASING TO TERMINAL POST.
4. CASING TEST STATION LEADS SHALL CONNECT TO END OF CASING AT STA 312+26. TEST STATION TERMINAL POST SHALL BE LOCATED AT STATION 312+02. ROUTE TEST STATION LEADS IN 1-1/2" PVC CONDUIT A MINIMUM BURY DEPTH OF 2 FEET FROM END OF CASING TO TERMINAL POST.
5. CLAY IRRIGATION PIPE SHALL BE REMOVED AND REPLACED IN KIND.
6. RELOCATE 2.5" ELCO WATERLINE TO A 5' DEPTH OF COVER. CONTRACTOR TO COORDINATE WATERLINE ISOLATION, SERVICE OUTAGE, AND REQUIRED PIPE MATERIALS WITH ELCO REPRESENTATIVES 2 WEEKS IN ADVANCE OF WATERLINE RELOCATION.
7. TEMPORARY ACCESS TO BE GRADED TO ALLOW SAFE VEHICULAR PASSAGE AND MAINTAIN EXISTING DRAINAGE WAYS. TEMPORARY ACCESS TO BE REMOVED AND RESTORED IN ACCORDANCE WITH SPEC 32 90 10.
8. LCR 54 CANNOT BE USED EAST OF THE CONSTRUCTION LIMITS.

CITY OF THORNTON EASEMENT SUMMARY			
ID	TIER #	EASEMENT TYPE	RECEPTION #
1	50-3PE	WATERLINE	20250047912
2	50-3TE	TEMPORARY ACCESS AND CONSTRUCTION	20250047913
3	50-3TE3	TEMPORARY ACCESS AND CONSTRUCTION	20250047913
4	50-2PE	WATERLINE	20250047942
5	50-2TE2	TEMPORARY ACCESS AND CONSTRUCTION	20250047943
6	50-2TE	TEMPORARY ACCESS AND CONSTRUCTION	20250047943
7	50-1PE	WATERLINE	20260000299
8	50-1TE	TEMPORARY ACCESS AND CONSTRUCTION	20260000300
9	50-1TE2	TEMPORARY ACCESS AND CONSTRUCTION	20260000300

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

VERIFY SCALE
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CONTACT 811 BEFORE YOU DIG 811 SAFE DIGGING PARTNER

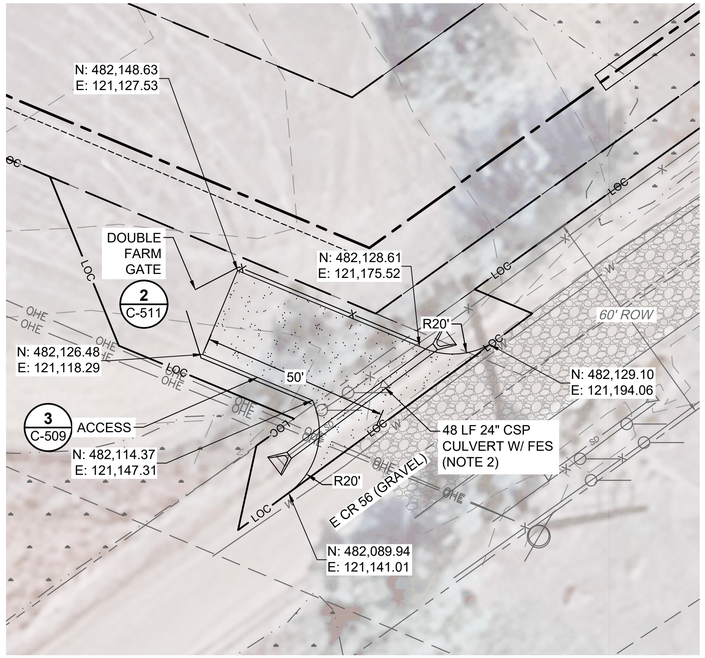
ISSUED FOR BIDDING
NOT FOR CONSTRUCTION
AUGUST 13, 2026

TWP SEGMENT F.1

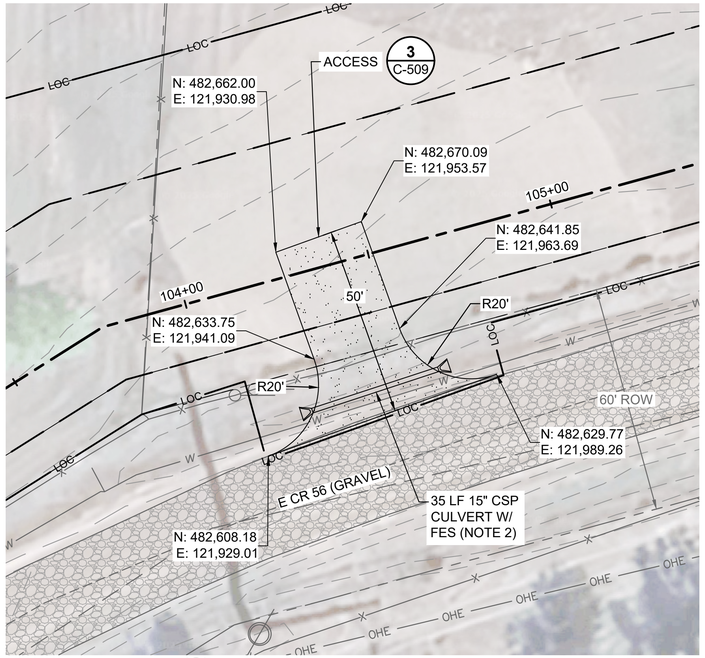
PLAN AND PROFILE STA 308+00 TO STA 314+37

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	37 OF 90
DRAWING:	PP-127

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\800 CAD\02 - Sheets\PP\240009_PP-125-PP-127.dwg
DATE: Aug 13, 2026 12:27pm
XREFS: 240009_X-AERL-P2 240009_X-BASE 240009_X-REAL 240009_X-TOPO 240009_X-UTIL 240009_C-PROF 240009_P-ESMT 240009_P-BASE 240009_X-ERO 240009_C-PHOLE 240009_C-REF 240009_TTB 240009_P-LOC 240009_X-PVMT 240009_C-BORE
USER: matthewb



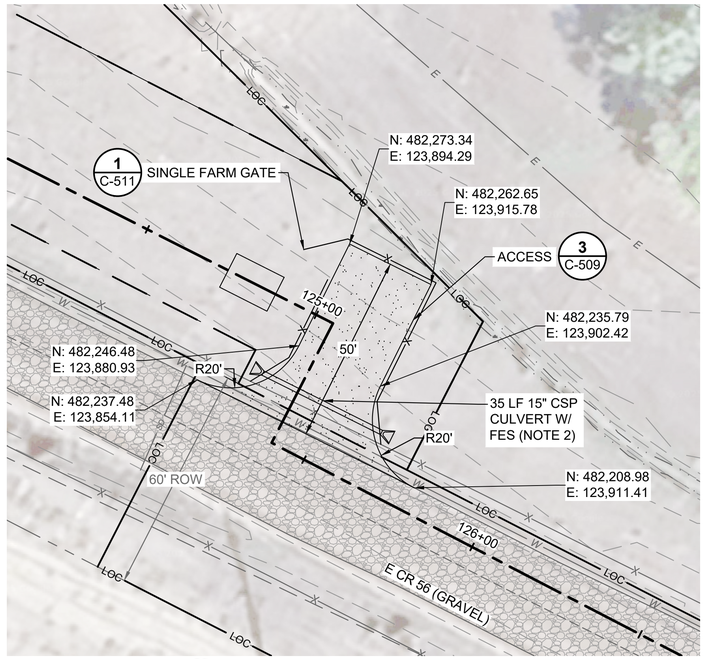
C — **E CR 56 - PERMANENT ACCESS - IMPROVEMENTS**
SCALE: 1"=20'



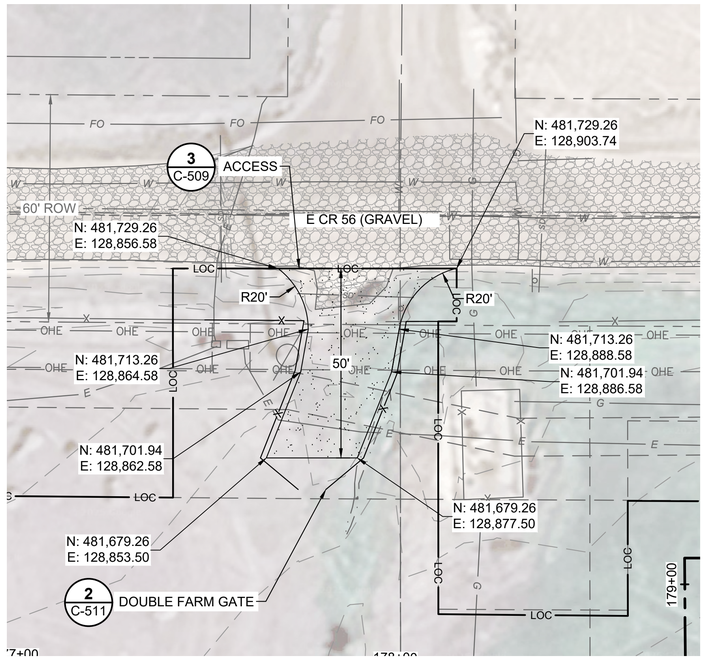
D — **E CR 56 - TEMPORARY ACCESS - NEW**
SCALE: 1"=20'

NOTES:

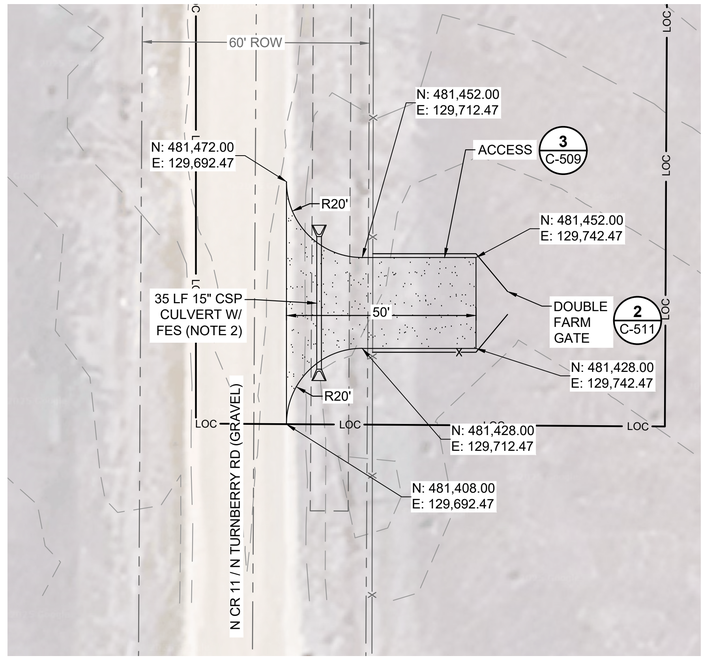
1. INSTALL NEW AGGREGATE BASE COURSE FOR ALL ACCESS LOCATIONS. LIMITS SHOWN ARE APPROXIMATE. COORDINATE WITH CONSTRUCTION MANAGER TO ADJUST AS NEEDED.
2. CULVERT TO BE INSTALLED WITH VEHICLE TRACKING CONTROL (VTC) PAD PRIOR TO PIPELINE CONSTRUCTION WITH UPSTREAM AND DOWNSTREAM INVERTS MATCHING THE INVERTS OF THE EXISTING DITCH. SEE EC SHEETS FOR VTC REQUIREMENTS. ONCE CONSTRUCTION IS COMPLETE, FOR PERMANENT ACCESSES, VTC SHALL BE REMOVED, CSP SHALL REMAIN IN PLACE, AND THE PERMANENT ACCESS SHALL BE CONSTRUCTED WITH A MINIMUM 1-FOOT OF COVER OVER THE TOP OF THE CULVERT. IF CULVERT IS DAMAGED DURING CONSTRUCTION, IT SHALL BE REMOVED AND REPLACED PRIOR TO CONSTRUCTING THE PERMANENT ACCESS. FOR TEMPORARY ACCESSES, VTC, CULVERT, AND ALL GRAVEL SURFACING SHALL BE REMOVED AND SURFACE RESTORED TO EXISTING CONDITIONS, OR BETTER, IN ACCORDANCE WITH SECTION 32 90 10.
3. ALL ACCESS LOCATIONS LISTED AS PERMANENT (P) WILL BE USED FOR TEMPORARY CONSTRUCTION ACCESS AND WILL BE LEFT IN PLACE BY THE CONTRACTOR AT THE COMPLETION OF THE PROJECT FOR FUTURE PERMANENT ACCESS. ALL PERMANENT ACCESS POINTS USED FOR TEMPORARY CONSTRUCTION ACCESS WILL REQUIRE A TEMPORARY ACCESS PERMIT OBTAINED BY THE CONTRACTOR. ALL PERMANENT ACCESS PERMITS SHALL BE OBTAINED BY THORNTON.
4. ALL ACCESS LOCATIONS LISTED TEMPORARY (T) WILL BE USED BY THE CONTRACTOR FOR TEMPORARY CONSTRUCTION ACCESS ONLY AND WILL BE REMOVED AT THE COMPLETION OF THE PROJECT AND RESTORED TO PRECONSTRUCTION CONDITIONS OR BETTER. ALL TEMPORARY CONSTRUCTION ACCESSES WILL REQUIRE A TEMPORARY ACCESS PERMIT OBTAINED BY THE CONTRACTOR.
5. ALL ACCESS POINTS MUST MEET LARIMER COUNTY ACCESS STANDARDS.



E — **E CR 56 - PERMANENT ACCESS - NEW**
SCALE: 1"=20'



F — **E CR 56 - PERMANENT ACCESS - IMPROVEMENTS**
SCALE: 1"=20'



G — **N CR 11 - PERMANENT ACCESS - NEW**
SCALE: 1"=20'

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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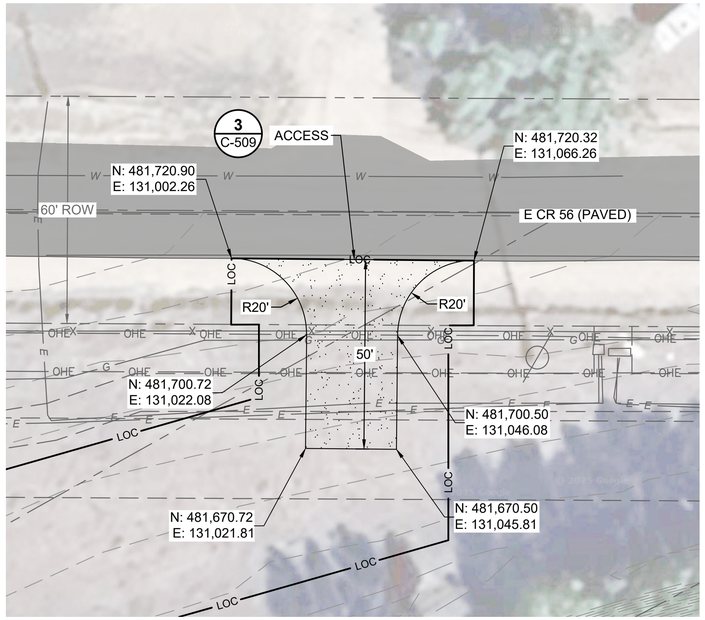
ISSUED FOR BIDDING
NOT FOR CONSTRUCTION
AUGUST 13, 2026

TWP SEGMENT F.1

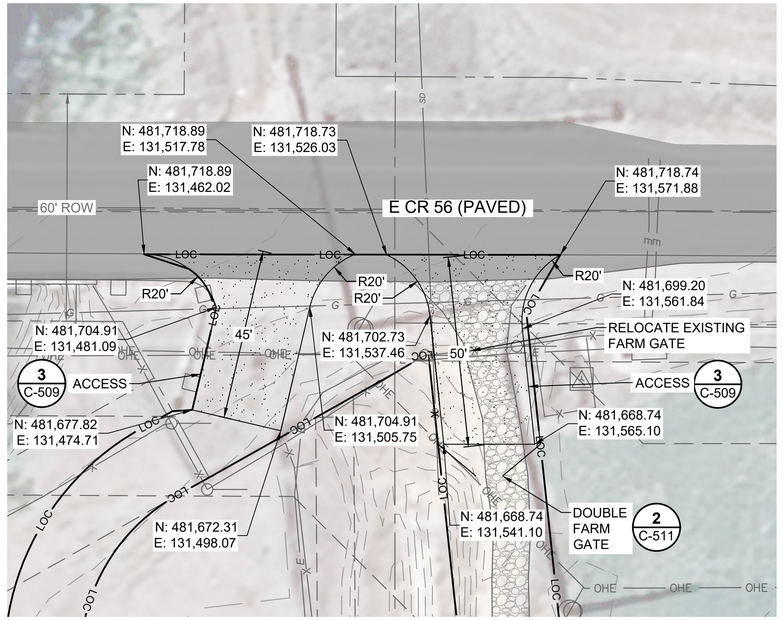
LARIMER COUNTY
ACCESS LOCATIONS

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	38 OF 90
DRAWING:	C-301

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\900 CAD\02 - Sheets\C\240009_C-301-303.dwg USER: matthewh
DATE: Aug 13, 2026 12:28pm XREFS: 240009_X-BASE 240009_X-PROL 240009_X-TOPO 240009_X-UTIL 240009_P-BASE 240009_P-ESMT 240009_C-REF 240009_TTB 240009_X-ERO 240009_X-VMT 240009_X-AERL-P2 240009_X-AERL-P1 240009_P-LOC



H — **E CR 56 - TEMPORARY ACCESS - NEW**
SCALE: 1"=40'



I & J — **E CR 56 - PERMANENT ACCESS - IMPROVEMENTS**
SCALE: 1"=20'

NOTES:

1. INSTALL NEW AGGREGATE BASE COURSE FOR ALL ACCESS LOCATIONS. LIMITS SHOWN ARE APPROXIMATE. COORDINATE WITH CONSTRUCTION MANAGER TO ADJUST AS NEEDED.
2. CULVERT TO BE INSTALLED WITH VEHICLE TRACKING CONTROL (VTC) PAD PRIOR TO PIPELINE CONSTRUCTION WITH UPSTREAM AND DOWNSTREAM INVERTS MATCHING THE INVERTS OF THE EXISTING DITCH. SEE EC SHEETS FOR VTC REQUIREMENTS. ONCE CONSTRUCTION IS COMPLETE, FOR PERMANENT ACCESSES, VTC SHALL BE REMOVED, CSP SHALL REMAIN IN PLACE, AND THE PERMANENT ACCESS SHALL BE CONSTRUCTED WITH A MINIMUM 1-FOOT OF COVER OVER THE TOP OF THE CULVERT. IF CULVERT IS DAMAGED DURING CONSTRUCTION, IT SHALL BE REMOVED AND REPLACED PRIOR TO CONSTRUCTING THE PERMANENT ACCESS. FOR TEMPORARY ACCESSES, VTC, CULVERT, AND ALL GRAVEL SURFACING SHALL BE REMOVED AND SURFACE RESTORED TO EXISTING CONDITIONS, OR BETTER, IN ACCORDANCE WITH SECTION 32 90 10.
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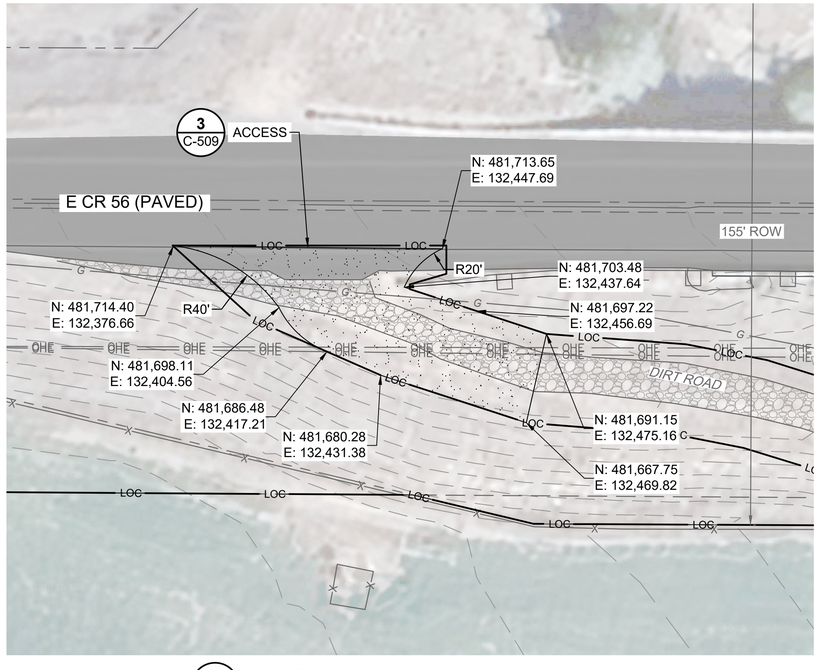
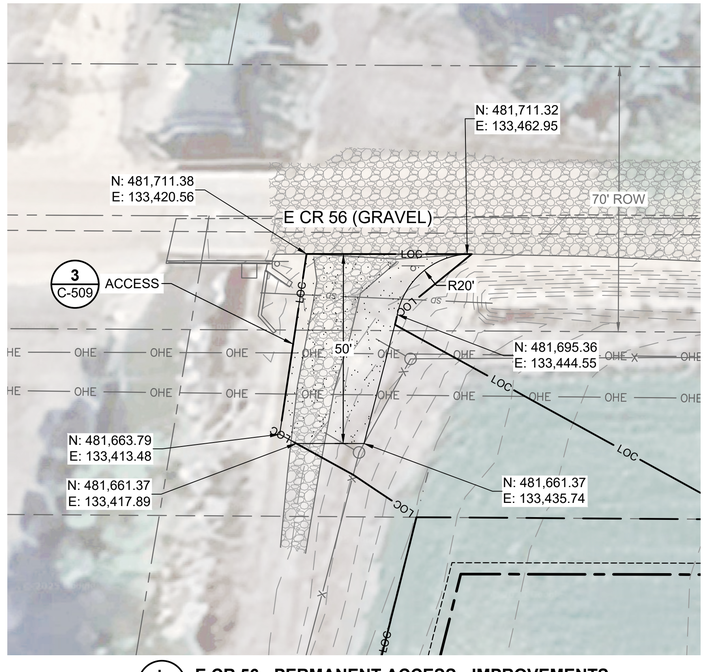
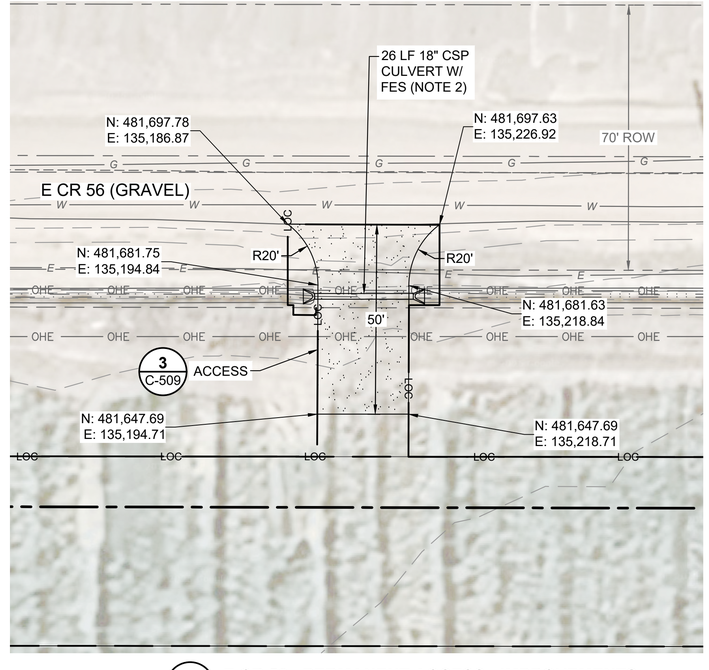
5. ALL ACCESS POINTS MUST MEET LARIMER COUNTY ACCESS STANDARDS.



K — **E CR 56 - PERMANENT ACCESS - IMPROVEMENTS**
SCALE: 1"=20'



L — **E CR 56 - PERMANENT ACCESS - IMPROVEMENTS**
SCALE: 1"=20'



M — **E CR 56 - PERMANENT ACCESS - IMPROVEMENTS**
SCALE: 1"=20'

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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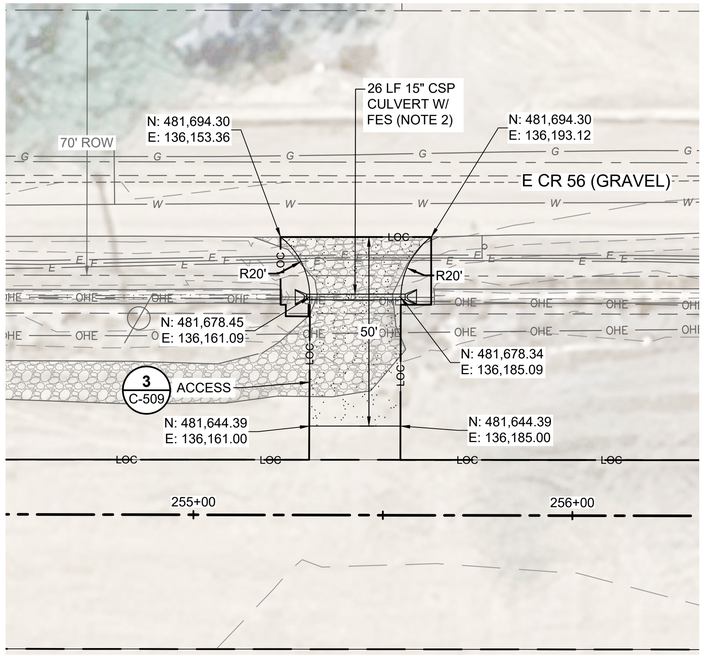
AUGUST 13, 2026

TWP SEGMENT F.1

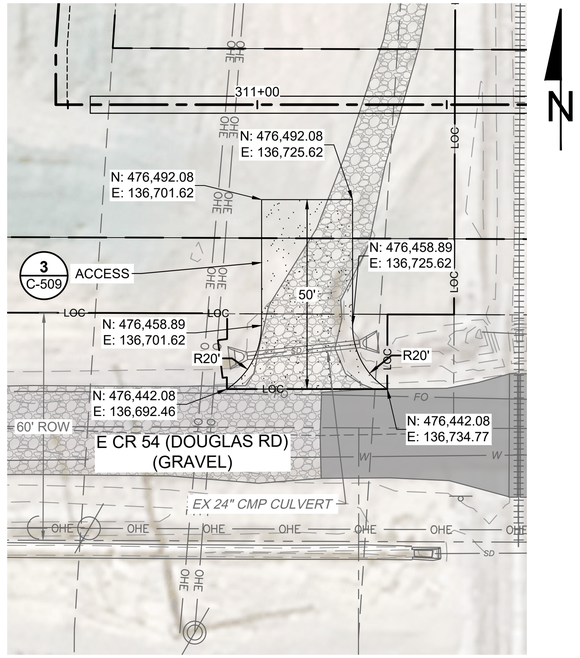
LARIMER COUNTY
ACCESS LOCATIONS

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	39 OF 90
DRAWING:	C-302

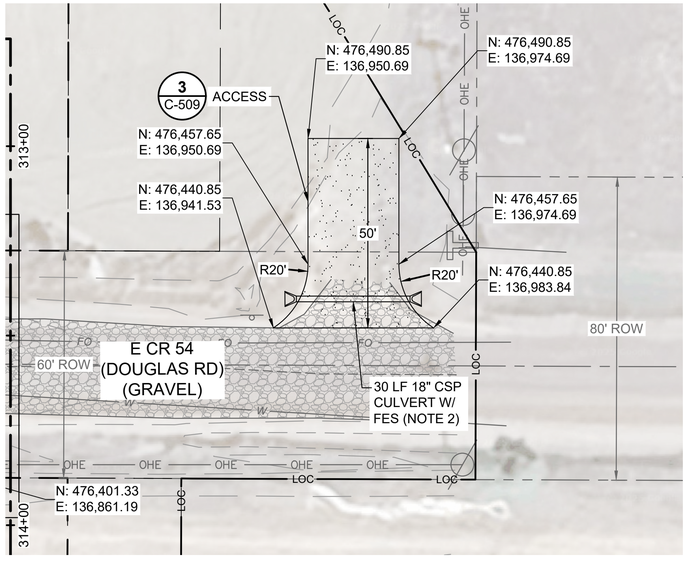
DWG: Z:\Shared\200 Projects\240009 (TWP-F)\90 CAD\02 - Sheets\C\240009_C-301-303.dwg USER: matthewb
DATE: Aug 13, 2026 12:28pm XREFS: 240009_X-BASE 240009_X-PROL 240009_X-TOPO 240009_X-UTIL 240009_P-BASE 240009_P-ESMT 240009_C-REF 240009_TTB 240009_X-ERO 240009_P-LOC 240009_P-LOC 240009_X-PVMT 240009_X-AERL-P2 240009_X-AERL-P1



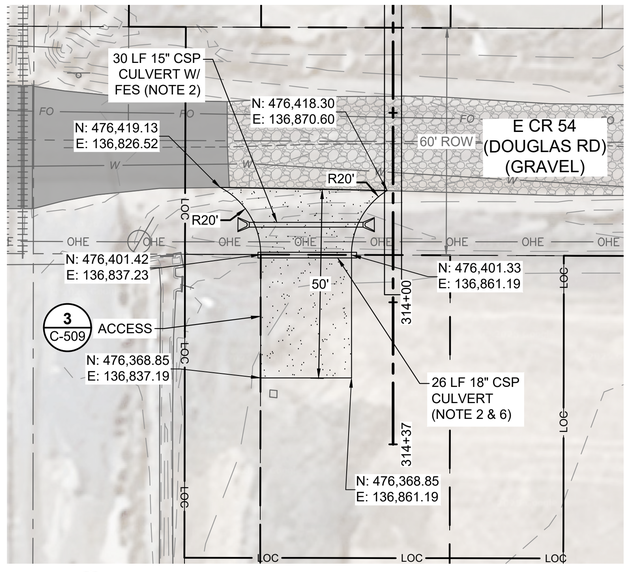
N — **E CR 56 - PERMANENT ACCESS - IMPROVEMENTS**
SCALE: 1"=20'



O — **E CR 54 / DOUGLAS RD - PERMANENT ACCESS - IMPROVEMENTS**
SCALE: 1"=20'



P — **E CR 54 / DOUGLAS RD - PERMANENT ACCESS - IMPROVEMENTS**
SCALE: 1"=20'



Q — **E CR 54 / DOUGLAS RD - TEMPORARY ACCESS - NEW**
SCALE: 1"=20'

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5. ALL ACCESS POINTS MUST MEET LARIMER COUNTY ACCESS STANDARDS.
6. FOR CONSTRUCTING THE TEMPORARY ACCESS, EXISTING 18" CLAY IRRIGATION PIPE TO BE REPLACED WITH 18" CSP AND HAVE A MINIMUM OF 2 FT OF COVER. ONCE CONSTRUCTION IS COMPLETE AND THE TEMPORARY ACCESS AND 18" CSP IS REMOVED, REPLACE THE 18" CLAY IRRIGATION PIPE IN KIND.

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

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TWP SEGMENT F.1

LARIMER COUNTY
ACCESS LOCATIONS

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	40 OF 90
DRAWING:	C-303

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\900 CAD\02 - Sheets\C\240009_C-301-303.dwg USER: matthewb
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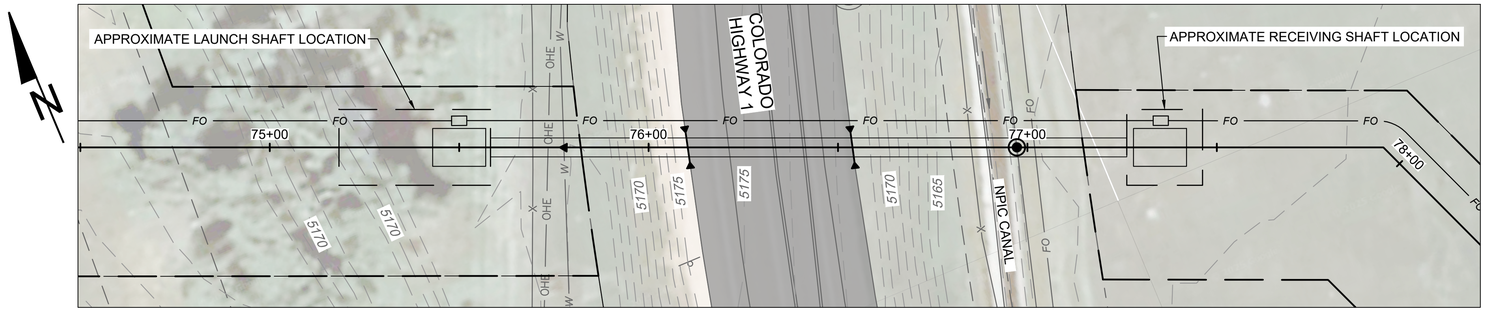
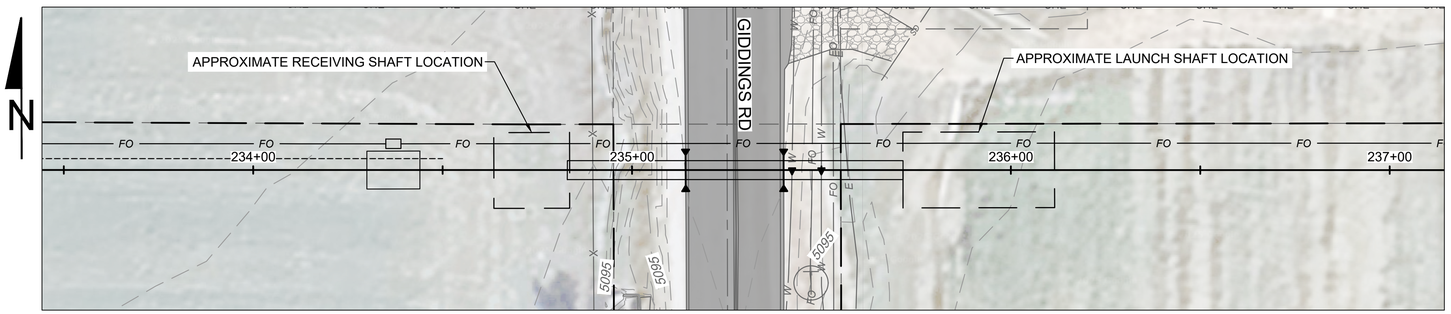


1 - SH 1 - INSTRUMENTATION AND MONITORING PLAN
SCALE: 1" = 20'

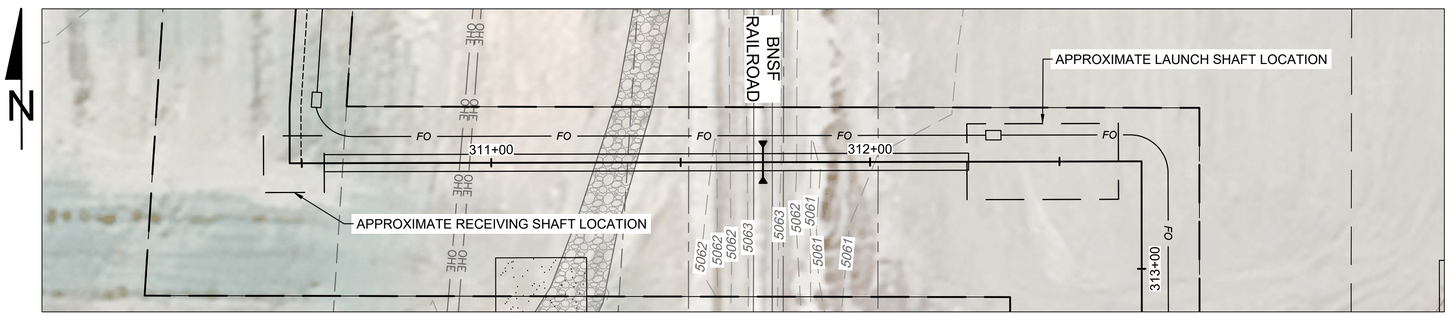
0 20' 40'

COLORADO HIGHWAY 1			
LOCATION	STATION	TYPE	NOTES
COLORADO HIGHWAY 1	75+78	UTLITY MONITORING POINT	PLACE ON WATERLINE
COLORADO HIGHWAY 1	76+10	MONITORING POINT ARRAY	PLACE ON WEST SHOULDER OF PAVEMENT
COLORADO HIGHWAY 1	76+54	MONITORING POINT ARRAY	PLACE ON EAST SHOULDER OF PAVEMENT
COLORADO HIGHWAY 1	76+98	SURFACE MONITORING POINT	PLACE ON EAST EDGE OF NPIC CANAL
GIDDINGS RD	235+03	MONITORING POINT ARRAY	PLACE ON WEST SHOULDER OF PAVEMENT
GIDDINGS RD	235+29	MONITORING POINT ARRAY	PLACE ON EAST SHOULDER OF PAVEMENT
GIDDINGS RD	235+31	UTLITY MONITORING POINT	PLACE ON WATERLINE
GIDDINGS RD	235+38	UTLITY MONITORING POINT	PLACE ON WATERLINE
BNSF	311+60	MONITORING POINT ARRAY	PLACE ON RAILROAD CENTERLINE



2 - GIDDINGS RD - INSTRUMENTATION AND MONITORING PLAN
SCALE: 1" = 20'

0 20' 40'



3 - BNSF - INSTRUMENTATION AND MONITORING PLAN
SCALE: 1" = 20'

0 20' 40'

LEGEND

- SURFACE MONITORING POINT
- UTILITY MONITORING POINT
- MONITORING POINT ARRAY

NOTES:

1. INSTRUMENTATION AND MONITORING DETAILS ARE PROVIDED ON SHEET C-513.
2. ALL MONITORING POINTS AND ARRAYS SHALL BE CENTERED AROUND THE CENTERLINE OF THE PROPOSED WATERLINE AND PERPENDICULAR TO THE TUNNEL ALIGNMENT OR STRUCTURE TO BE MONITORED UNLESS OTHERWISE SHOWN ON THE DRAWINGS. MONITORING ARRAYS AND POINTS SHALL BE POSITIONED SUCH THAT TRAFFIC IS NOT INTERRUPTED.
3. UTILITY MONITORING POINTS SHALL BE PROTECTED BY A FLUSH COVER MOUNT AS DETAILED ON SHEET C-513.
4. UTILITY AND STRUCTURE INFORMATION IS APPROXIMATE. REFERENCE PLAN AND PROFILE DRAWINGS FOR SPECIFIC INFORMATION.

BRIERLEY ASSOCIATES
Creating Space Underground

PROVIDENCE INFRASTRUCTURE CONSULTANTS

THORNTON WATER PROJECT

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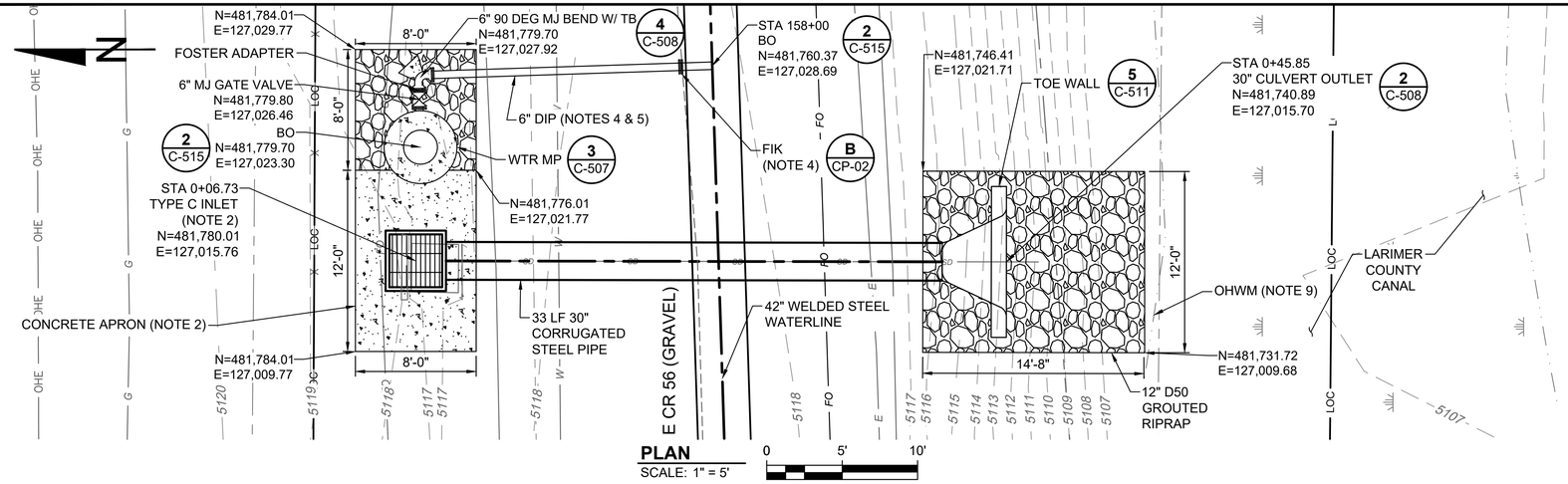
AUGUST 13, 2026

TWP SEGMENT F.1

INSTRUMENTATION AND MONITORING PLAN

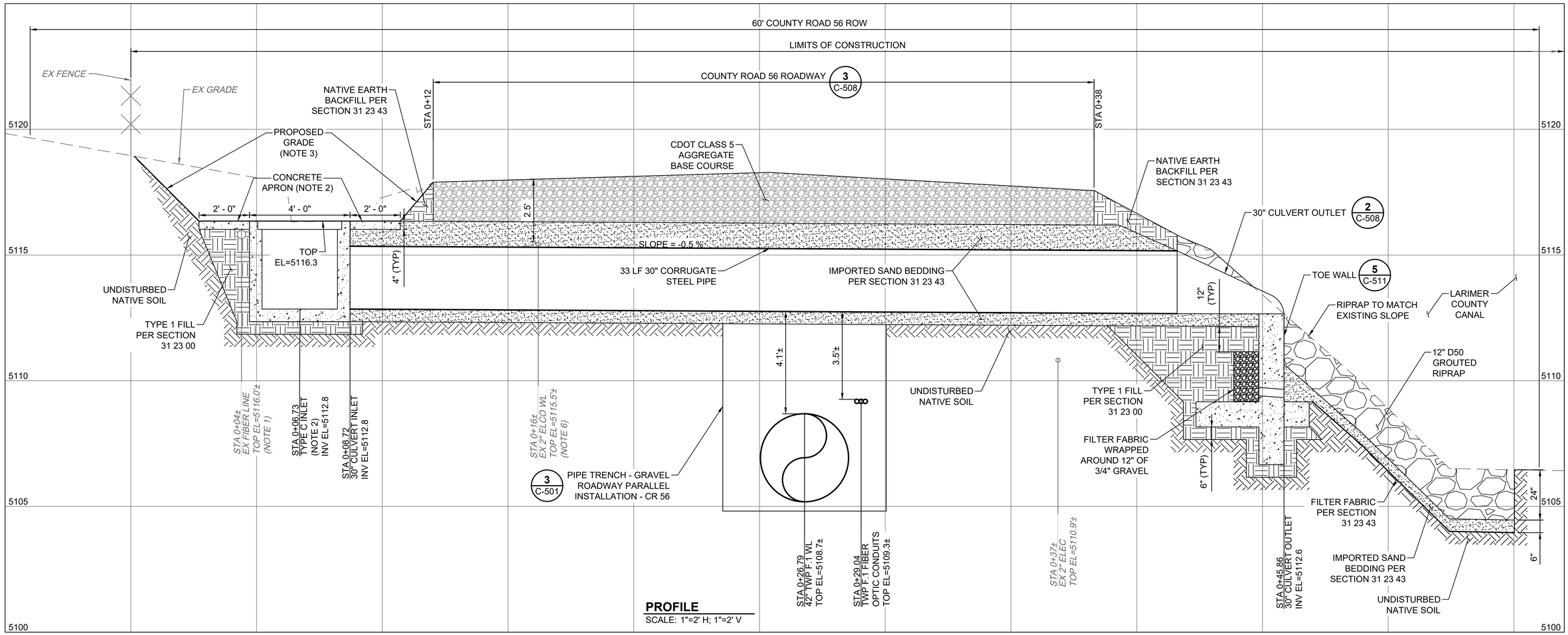
PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	K. FRIEDMAN
APPROVED BY:	K. FRIEDMAN
SHEET:	41 OF 90
DRAWING:	C-401

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\900 CAD\02 - Sheets\C\240009_C-401.dwg USER: matthewb
DATE: Aug 13, 2026 12:29pm XREFS: 240009_X-BASE 240009_X-PRCL 240009_X-TOPO 240009_X-UTIL 240009_X-AERL-P2 240009_X-AERL-P1 240009_P-BASE 240009_P-ESMT 240009_TTB 240009_X-PVMT



NOTES:

1. CONTRACTOR TO POTHOLE FIBER LINE AND REPORT LOCATION TO THE CONSTRUCTION MANAGER AT LEAST 30 DAYS PRIOR TO CONSTRUCTION.
2. FOR TYPE C INLET AND CONCRETE APRON DETAILS, REFER TO CDOT MISCELLANEOUS (M) STANDARD PLAN NO. M-604-10. TYPE C INLET GRATE SHALL BE CLOSE MESH. CONCRETE APRON DIMENSIONS ON THIS ENLARGED PLAN SUPERCEDE THE DIMENSIONS ON CDOT M STANDARD M-604-10.
3. CONTRACTOR TO REGRADE AROUND THE INLET AS NECESSARY TO TIE BACK INTO THE EXISTING GRADE WITHIN THE LIMITS OF CONSTRUCTION AND EDGE OF ROADWAY.
4. RESTRAIN ALL JOINTS. INSTALL CONTINUITY BONDS ON ALL BURIED DUCTILE IRON PIPE AND FITTINGS PER DETAIL A/CP-02 EXCEPT DO NOT BOND ACROSS FLANGE ISOLATION KIT (FIK) AT THE 6" TANGENTIAL OUTLET CONNECTION.
5. DIRECT BOND ONE (1) 32LB MAGNESIUM ANODE FOR EVERY 10 FT OF DUCTILE IRON PIPE AND FITTINGS. SEE DETAIL A/CP-03 FOR REFERENCE ON HOW TO DIRECT BOND ANODES TO PIPING.
6. THE LOCATION OF 2" ELCO WATERLINE IS UNCERTAIN AND MAY BE IN CONFLICT WITH THE CULVERT REPLACEMENT AND MAY REQUIRE RELOCATION. CONTRACTOR TO BE PREPARED TO RELOCATE AND COORDINATE ISOLATION AND SERVICE OUTAGE WITH ELCO REPRESENTATIVES.
7. CONTRACTOR TO REMOVE AND DISPOSE OF OFFSITE, 24" CMP CULVERT AND REPLACE WITH 30" CSP PIPE PER SECTION 33 41 02.
8. TREES WILL REQUIRE REMOVAL TO INSTALL CULVERT OUTLET, TOE WALL, AND RIPRAP PAD. REMOVED TREES WILL REQUIRE REPLACEMENT. CONTRACTOR TO COORDINATE WITH THE CONSTRUCTION MANAGER 2 WEEKS PRIOR TO CONSTRUCTION SO THAT TREES CAN BE INVENTORIED TO DETERMINE SPECIES, SIZE, QUANTITY, AND LOCATIONS FOR REPLACEMENTS.
9. CONSTRUCTION WITHIN LARIMER COUNTY CANAL OHWM TO COMPLY WITH NWP 3 AND 58 (EXPIRES 3/15/2031).



PROFILE
SCALE: 1"=2' H; 1"=2' V

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THORNTON WATER PROJECT

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AUGUST 13, 2026

TWP SEGMENT F.1

ENLARGED PLAN - 30" CULVERT (LOOKING EAST)

PROJECT:	240009
DRAWN BY:	N. LONG
DESIGNED BY:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	42 OF 90
DRAWING:	C-402

DWG: Z:\Shared\200 Projects\240009 (TWP-F)\900 CAD\02 - Sheets\C\240009_C-402.dwg USER: matthewh
DATE: Aug 13, 2026 12:29pm XREFS: 240009_P-ESMT 240009_X-PRCL 240009_X-TOPO 240009_X-UTIL 240009_TTB 240009_X-ERO 240009_P-BASE 240009_X-BASE 240009_P-LOC 240009_TB_LC REV