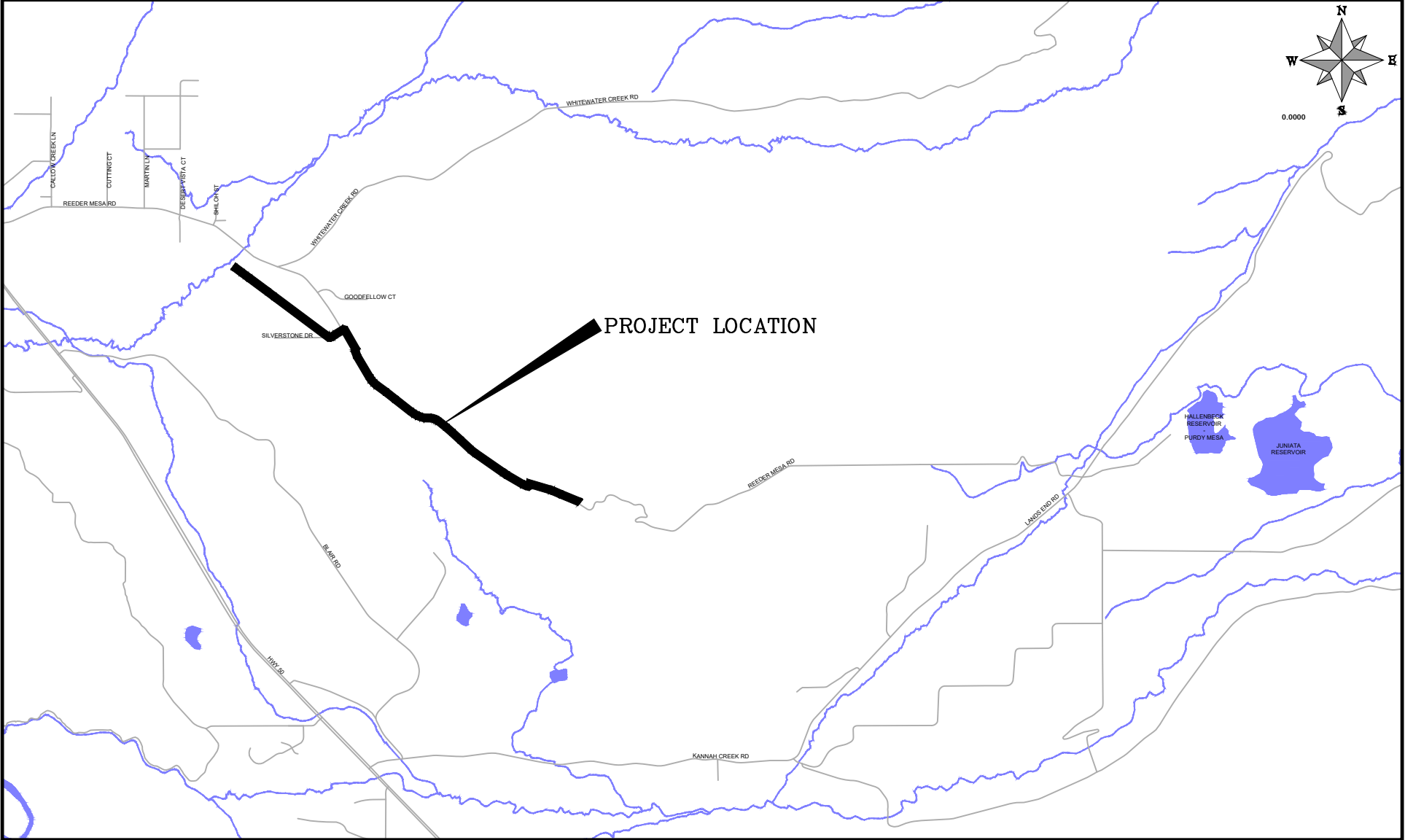


# CITY OF GRAND JUNCTION 2022 PURDY MESA FLOWLINE REPLACEMENT DOWNSTREAM PHASE June 11, 2024

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VICINITY MAP  
0 1250 2500

NOTE: NOTIFY AFFECTED UTILITY VENDOR 48 HOURS PRIOR TO EXCAVATIONS THAT WILL EXPOSE UTILITY LINES. THE COVER SHEET WILL HAVE A LISTING OF UTILITY VENDORS AND TELEPHONE NUMBERS.

REVISION	DESCRIPTION	DATE
REVISION $\Delta$ REV 1		DATE
REVISION $\Delta$ REV 2		DATE
REVISION $\Delta$ REV 3		DATE
REVISION $\Delta$ REV 4		DATE



Know what's below.  
Call before you dig.



*Public Works  
Engineering Division*

**ABBREVIATIONS**

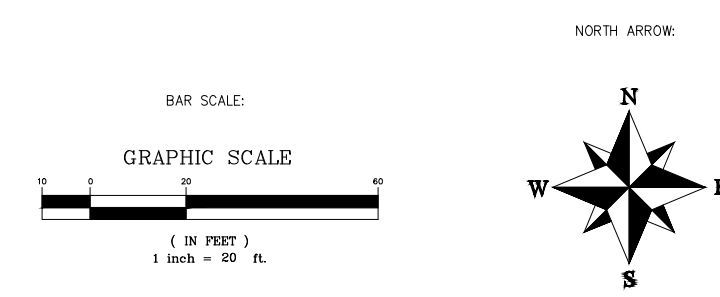
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
ABC	AGGREGATE BASE COURSE
AC	ASBESTOS CEMENT
AP	ANGLE POINT
ASB	ANCHORED STRAW BALES
ASP	ALUMINIZED STEEL PIPE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BACK OF CURB
BF	BUTTERFLY VALVE
BOW	BACK OF WALK
BCR	BEGIN CURB RETURN
BOT	BOTTOM
BSWMP	BETTER STORM WATER MANAGEMENT PRACTICES
CH	CHORD
CAP	CORRUGATED ALUMINUM PIPE
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CI	CAST IRON
C, G, & SW	CURB, GUTTER & SIDEWALK
C	CENTER LINE
CL	CLEAR
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COMB	COMBINATION (AS IN STORM SEWER AND SANITARY SEWER)
CONC	CONCRETE
CSM	CITY SURVEY MONUMENT
CSP	CORRUGATED STEEL PIPE
CU	COPPER
DI	DUCTILE IRON
DWY	DRIVEWAY
E	ELECTRIC
ECR	END CURB RETURN
EG	EDGE OF GUTTER
EL	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
FB	FULL BODY
FC	FACE OF CURB
FG	FINISHED GRADE
F	FLOW LINE
FL	FLANGE
FM	FORCE MAIN
FO	FIBER OPTICS
FS	FAR SIDE
FTG	FOOTING
G	GAS
GB	GRADE BREAK
GM	GAS METER
GV	GATE VALVE
HBP	HOT BITUMINOUS PAVEMENT
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
IRR	IRRIGATION
L	LENGTH OF ARC
LC	LONG CHORD
LF	LINEAR FEET
LL	LONG ARC
LS	SHORT ARC
LT	LEFT
MB	MAILBOX
MCSM	MESA COUNTY SURVEY MONUMENT
MH	MANHOLE
MJ	MECHANICAL JOINT
MW	MILL WRAP
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOP	NO ONE PERSON
NRCP	NON-REINFORCED CONCRETE PIPE
NS	NEAR SIDE
NTS	NOT TO SCALE
OHP	OVERHEAD POWER
OHT	OVERHEAD TELEPHONE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PE	POLYETHYLENE
PERF	PERFORATED
PI	POINT OF INTERSECTION
PIP	PLASTIC IRRIGATION PIPE
POC	POINT ON CURVE
POT	POINT ON TANGENT
PR	PROPOSED
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
RG	RESTRAINED GLANDS
RL	LONG RADIUS
ROW	RIGHT OF WAY
RP	RADIUS POINT
RR	RAIL ROAD
RS	SHORT RADIUS
RT	RIGHT
S	SLOPE
SAN	SANITARY
SC	SHORT CHORD
SCD	STANDARD CONTRACT DOCUMENTS
SCH	SCHEDULE
SF	SILT FENCE
SL	SECTION LINE
SSRB	STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION
SSUJ	STANDARD SPECIFICATIONS FOR CONSTRUCTION OF UNDERGROUND UTILITIES
STA	STATION
STL	STEEL
STM	STORM
T	TELEPHONE
TAN	LENGTH OF TANGENT
TC	TOP OF CURB
TH	TEST HOLE
TV	TELEVISION
(TYP)	TYPICAL
UU	UNDERGROUND UTILITIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VPC	VERTICAL POINT OF CURVATURE
VPCC	VERTICAL POINT OF COMPOUND CURVATURE
VPRC	VERTICAL POINT OF REVERSE CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WATER
Δ	DELTA ANGLE

**LEGEND**

BSWMP DRAINAGE BASIN BOUNDARY		PROPOSED CONCRETE CURB AND GUTTER	
BSWMP ANCHORED STRAW BALES		PROPOSED CONCRETE CURB, GUTTER, & SIDEWALK	
BSWMP SILT FENCE		PROPOSED CONCRETE SIDEWALK	
BUILDING		PROPOSED "WET" UTILITIES (CONSTRUCTION NOTE WILL INDICATE TYPE, SIZE, AND MATERIAL OF NEW MAIN)	
CONCRETE CURB AND GUTTER		ALL PROPOSED FEATURES NOT SHOWN IN LEGEND WILL BE SHOWN THE SAME AS THEIR EXISTING COUNTERPART, BUT INDICATED BY BOLDER LINETYPE	
CONCRETE CURB, GUTTER, & SIDEWALK		RAIL ROAD	
CONCRETE DITCH		RETAINING WALL	
CONCRETE SIDEWALK		STRIPING (CONTINUOUS WHITE)	
CULVERT		STRIPING (DASHED WHITE)	
EARTH DITCH		STRIPING (CONTINUOUS YELLOW)	
EDGE OF GRAVEL		STRIPING (DASHED YELLOW)	
EDGE OF PAVEMENT		TOP OF SLOPE	
FENCE (HT & MATL NOTED)		CONTOUR LINES (SHOWN BETWEEN TOP & TOE)	
GUARD RAIL		TOE OF SLOPE	
HATCHING: INDICATES ASPHALT REMOVAL		TRAFFIC DETECTOR LOOP	
HATCHING: INDICATES CONCRETE REMOVAL		UTILITY LINE (ABANDON) (THIS CASE A WATER LINE)	
HATCHING: INDICATES STAGING AREA		UTILITY LINE (CABLE TV)	
LINE (CENTER OF IMPROVEMENTS)		UTILITY LINE (ELECTRIC)	
LINE (CITY LIMITS)		UTILITY LINE (FIBER OPTIC)	
LINE (CONTROL)		UTILITY LINE (GAS)	
LINE (EASEMENT)		UTILITY LINE (HIGH VOLTAGE OVERHEAD POWER)	
LINE (MONUMENT/SECTION)		UTILITY LINE (OVERHEAD POWER)	
LINE (PROPERTY)		UTILITY LINE (OVERHEAD TELEPHONE)	
LINE (RIGHT OF WAY)		UTILITY LINE (SANITARY SEWER)	
MATCH LINE		UTILITY LINE (SANITARY SEWER FORCE MAIN)	
PIPE (IRRIGATION)		UTILITY LINE (SANITARY SEWER SERVICE)	
PIPE (SIPHON)		UTILITY LINE (STORM SEWER)	
		UTILITY LINE (STORM SEWER, PERFORATED)	
		UTILITY LINE (STORM/SANITARY SEWER SEWER COMBINATION)	
		UTILITY LINE (TELEPHONE)	
		UTILITY LINE (WATER)	

**SYMBOLS**

BENCH MARK	
CATCH BASIN	
CLEAN OUT	
CURB STOP	
FIRE HYDRANT	
GUY WIRE ANCHOR	
HEADGATE	
IRRIGATION PUMP	
MAILBOX	
MANHOLE (ELECTRIC)	
MANHOLE (GAS)	
MANHOLE (SANITARY/STORM)	
MANHOLE (TELEPHONE)	
MANHOLE (WATER)	
METER (GAS)	
METER (WATER)	
PEDESTAL (TELEPHONE)	
PEDESTAL (TV)	
PROPERTY PIN	
PULL BOX	
REDUCER FITTING	
SIGN OR POST (SIGN TYPE NOTED)	
SPRINKLER HEAD	
STREET LIGHT	
SURVEY MONUMENT (CITY)	
SURVEY MONUMENT (TYPE NOTED)	
TEST HOLE	
TRAFFIC PAINT MARKING	
TRAFFIC SIGNAL POLE AND MAST ARM	
UTILITY POLE	
VALVE (GAS)	
VALVE (IRRIGATION)	
VALVE (WATER)	
VEGETATION (HEDGE OR BUSH)	
VEGETATION (TREE STUMP)	
VEGETATION (TREE) (CALIPER SIZE NOTED)	
WATER HYDRANT	
WEIR	
YARD LIGHT	



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REVISION Δ			DESIGNED BY WC	DATE 2024
REVISION Δ			CHECKED BY WC	DATE 2024
REVISION Δ			APPROVED BY WC	DATE 2024

SEE PLAN FOR SCALE INFO



PUBLIC WORKS ENGINEERING DIVISION  
PROJECT NO. F0006-F000615

2022 PURDY MESA FLOWLINE REPLACEMENT  
STANDARD ABBREVIATIONS LEGENDS AND SYMBOLS  
June 11, 2024

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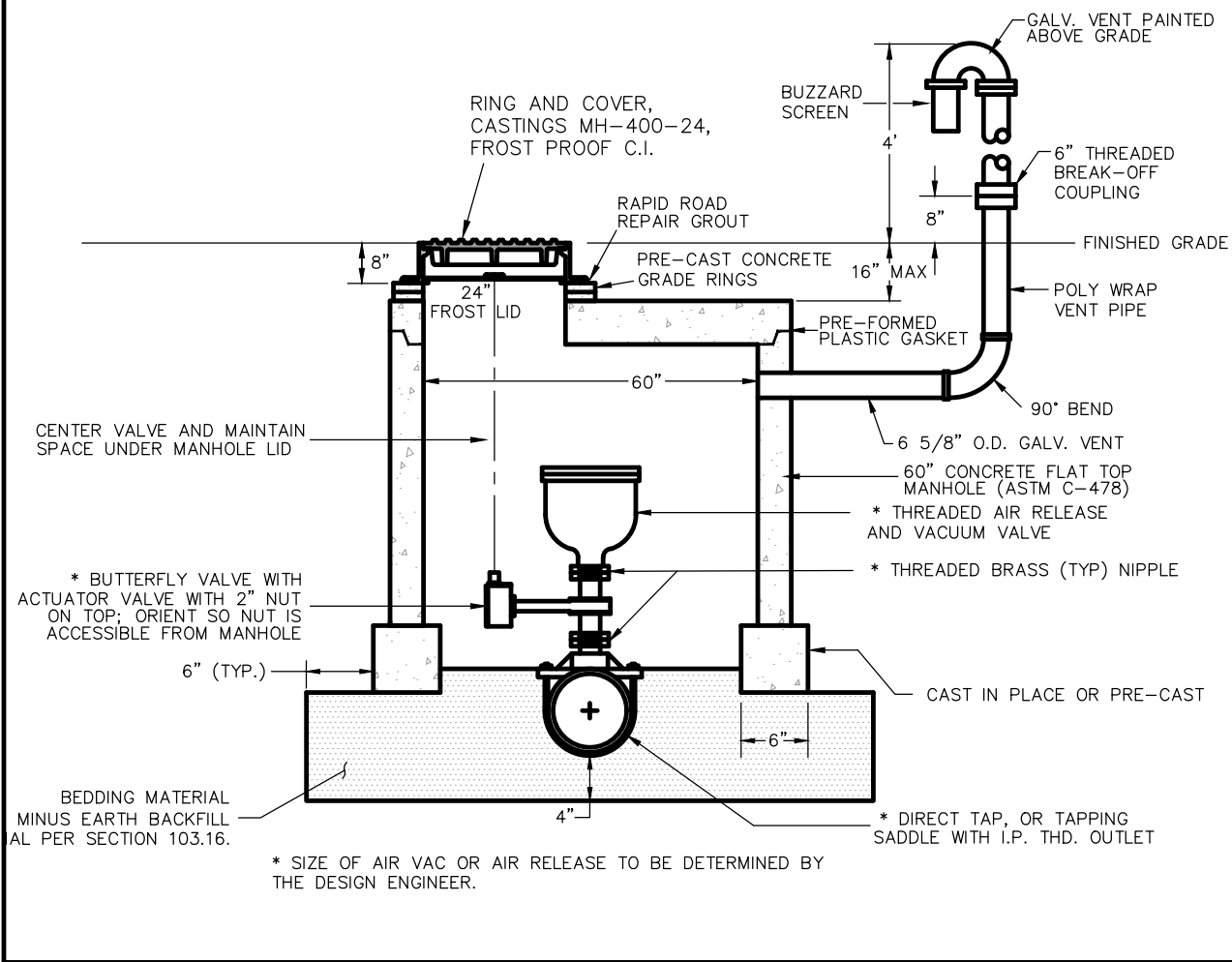
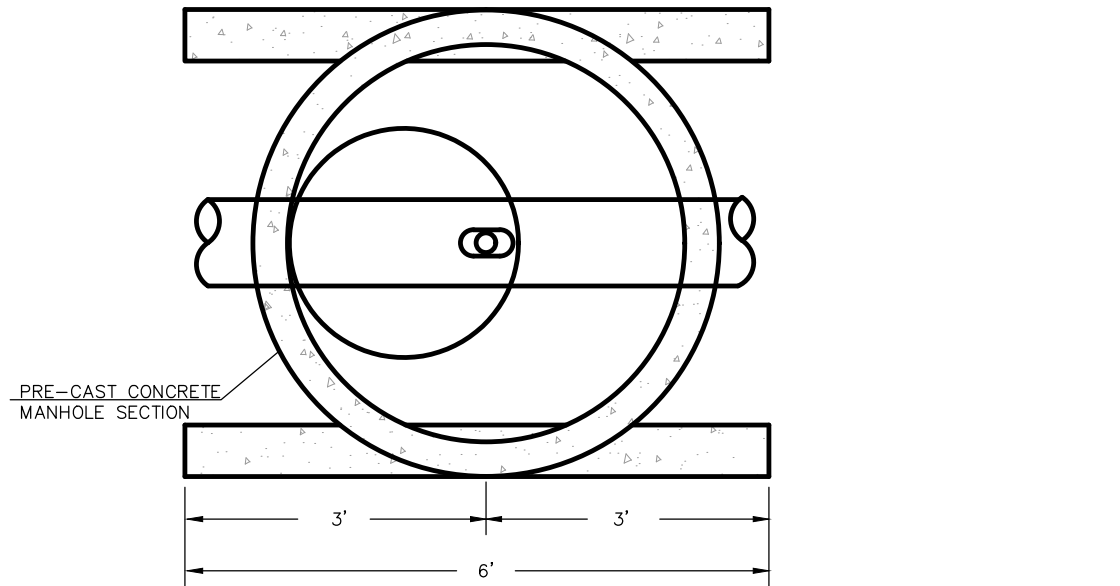
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REVISION	△		DESIGNED BY	WC	DATE	2024
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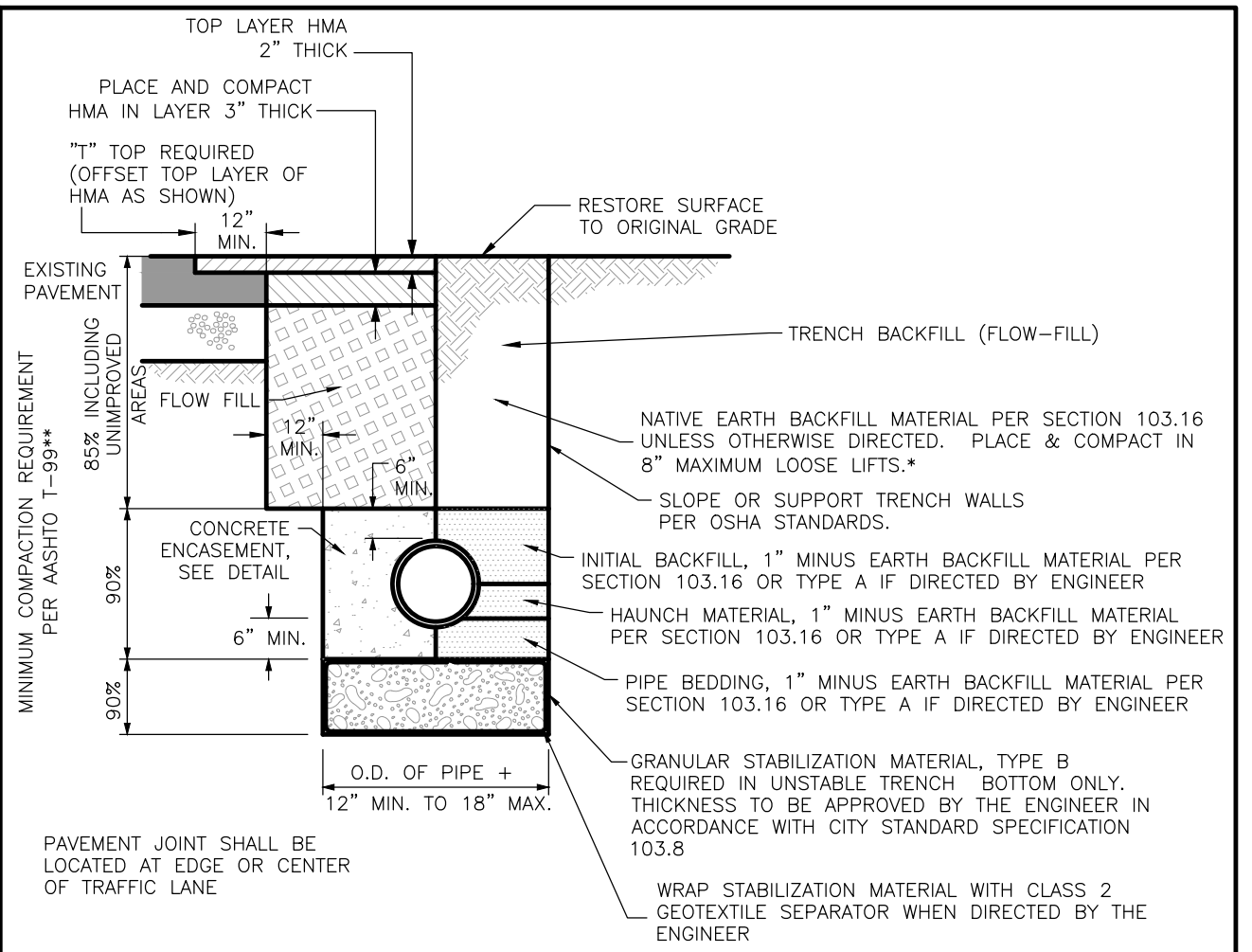
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ENGINEERING DIVISION  
PROJECT NO. F0006-F000615

2022 PURDY MESA FLOWLINE REPLACEMENT  
SUMMARY OF APPROXIMATE QUANTITIES - 1  
June 11, 2024



AIR RELEASE VALVE (SPECIAL)

	DEPARTMENT OF ENGINEERING AND TRANSPORTATION	STANDARD CONCRETE DETAIL	APPROVED: <u>REW</u>	PAGE W-11
			REVISED: <u>FEB. 2024</u>	
			DRAWN: <u>TCP/DPW</u>	



SIEVE SIZE	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES		
	PIPE BEDDING, HAUNCH & INITIAL BACKFILL MATERIAL (CRUSHED ROCK, TYPE A)	GRANULAR STABILIZATION MATERIAL (SCREENED OR CRUSHED ROCK, TYPE B)	(USE ONLY WHERE SPECIFIED OR DIRECTED BY THE ENGINEER IMPORTED BACKFILL MATERIAL)
12 INCH	---	---	100
2 INCH	---	100	---
1 INCH	100	---	---
NO 4	20 MAX ****	15 MAX	---
NO 200	---	---	20 MAX ***

\* 24" COMPACTED BACKFILL REQUIRED OVER ALL PLASTIC PIPE PRIOR TO VEHICLE OR HEAVY EQUIPMENT LOADING.

\*\* COMPACT PER AASHTO T-180 WHEN SPECIFIED, DIRECTED OR APPROVED BY THE ENGINEER.

\*\*\* PLASTIC INDEX (PI) SHALL NOT BE MORE THAN 7.

\*\*\*\* WHERE GROUNDWATER IS PRESENT, THE PERCENT PASSING MAY BE INCREASED AS DIRECTED BY THE ENGINEER.

ALL BACKFILL MATERIAL SHALL BE UNIFORMLY ADJUSTED TO WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT PRIOR TO PLACEMENT AND COMPACTION.

TYPICAL TRENCH DETAIL (SPECIAL)

	DEPARTMENT OF ENGINEERING AND TRANSPORTATION	GENERAL UTILITY DETAIL	APPROVED: <u>REW</u>	PAGE GU-03
			REVISED: <u>FEB. 2024</u>	
			DRAWN: <u>JAH</u>	

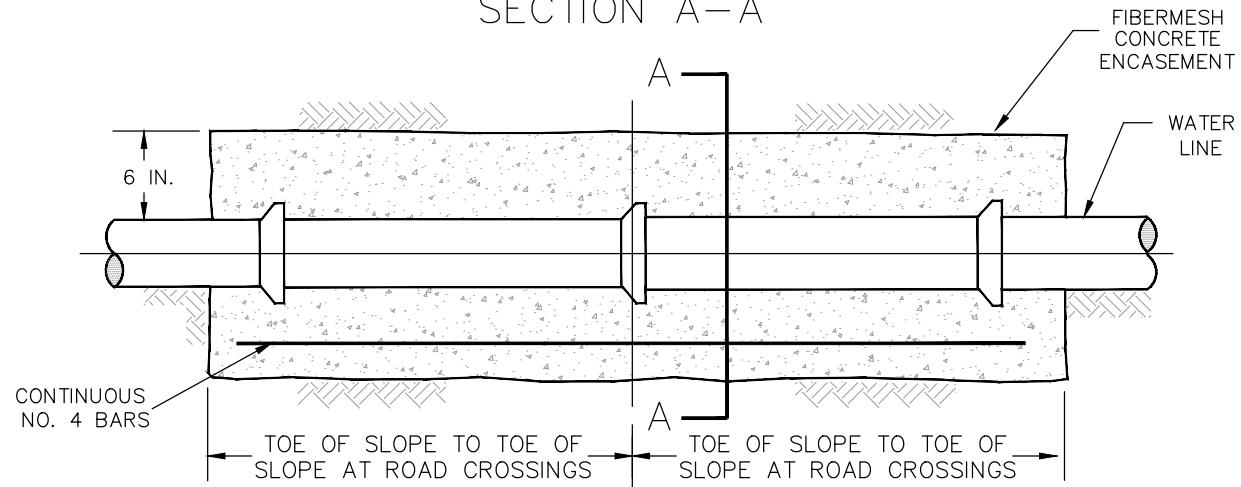
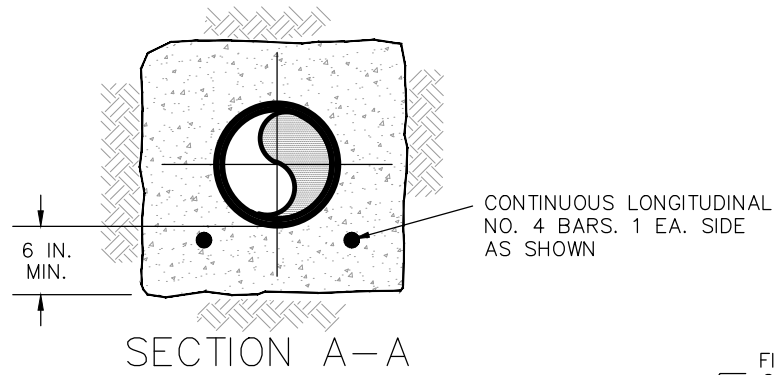
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REVISION Δ			DESIGNED BY WC	DATE 2024	
REVISION Δ			CHECKED BY WC	DATE 2024	
REVISION Δ			APPROVED BY WC	DATE 2024	
REVISION Δ					

CITY OF **Grand Junction** COLORADO

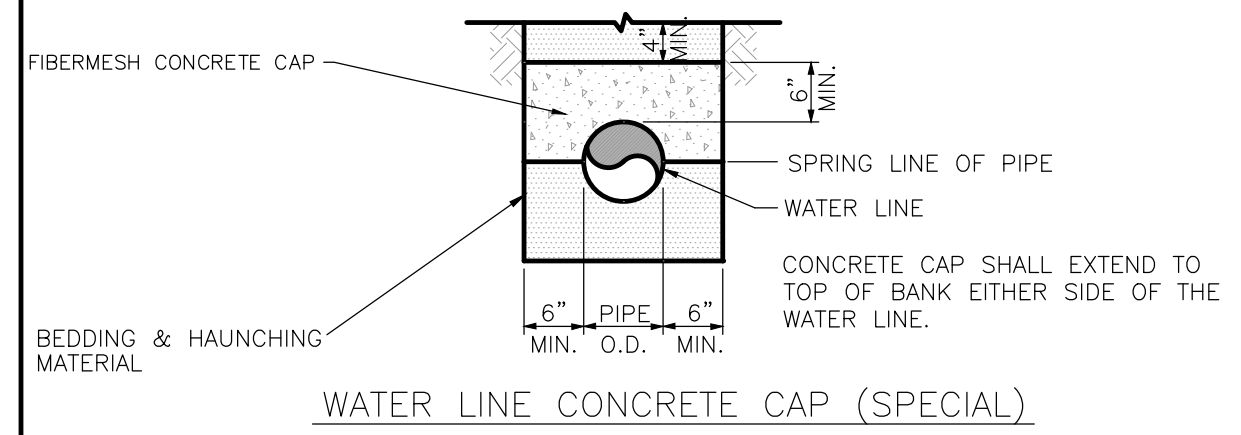
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ENGINEERING DIVISION  
PROJECT NO. F0006-F000615

2022 PURDY MESA FLOWLINE REPLACEMENT  
DETAILS - 1  
June 11, 2024

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WATER LINE CONCRETE ENCASEMENT (SPECIAL)



	DEPARTMENT OF ENGINEERING AND TRANSPORTATION	GENERAL UTILITY DETAIL	APPROVED: <u>REW</u>	PAGE GU-04
			REVISED: <u>FEB. 2024</u>	
			DRAWN: <u>TCP/DPW</u>	

PURDY MESA FLOWLINE								
FITTING	RESTRAINT LENGTH FOR DEPTH OF COVER IN FEET (FACTOR OF SAFETY = 1.5)							
	1 FT	2 FT	3 FT	4 FT	5 FT	6 FT	7 FT	8 FT
DEAD END	213	190	171	156	143	132	123	115
11.25° HORIZONTAL BEND	13	11	9	8	7	7	6	6
22.5° HORIZONTAL BEND	25	21	18	16	14	13	12	11
45° HORIZONTAL BEND	51	43	37	33	29	26	24	22
11.25° VERTICAL OFFSET	36	30	26	22	20	18	16	15
22.5° VERTICAL OFFSET	72	60	51	45	40	36	32	30
45° VERTICAL OFFSET	150	124	106	92	82	74	67	61

REVISION Δ	DESCRIPTION	DATE	DRAWN BY HMC	DATE 2024	SCALES: NOT TO SCALE
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REVISION Δ			CHECKED BY WC	DATE 2024	
REVISION Δ			APPROVED BY WC	DATE 2024	
REVISION Δ					

PUBLIC WORKS  
ENGINEERING DIVISION  
PROJECT NO. F0006-F000615

2022 PURDY MESA FLOWLINE REPLACEMENT  
DETAILS - 2  
June 11, 2024

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1. PROJECT DESCRIPTION: THE PROJECT WILL CONSIST OF THE REPLACEMENT OF THE PURDY MESA FLOWLINE. THE PROJECT WILL CROSS A NUMBER OF EXISTING UTILITIES, INCLUDING ELECTRIC, TELEPHONE, GAS, AND WATER.
2. SUBSURFACE UTILITY ENGINEERING (SUE) SCOPE: OBTAIN GENERAL INFORMATION AS TO THE DESCRIPTION, NATURE, AND LOCATION OF SUBSURFACE UTILITIES IN THE AREA OF PROPOSED EXCAVATION AND DEPICT SUBSURFACE UTILITIES WITH RISK-BASED QUALITY LEVELS AS DEFINED IN ASCE 38-22 ON THE SUE PLANS TO INFORM THE CONTRACTOR OF THEIR EXISTENCE.
3. RISK-BASED QUALITY LEVEL DEFINITIONS FOR DEPICTED SUBSURFACE UTILITIES AS DEFINED BY ASCE 38-22:
  1. QUALITY LEVEL D (QL-D): A VALUE ASSIGNED TO A SUBSURFACE UTILITY SEGMENT OR UTILITY FEATURE NOT VISIBLE AT THE GROUND SURFACE WHOSE ESTIMATED POSITION IS JUDGED THROUGH UTILITY RECORDS, INFORMATION FROM OTHERS, OR FROM VISUAL CLUES SUCH AS PAVEMENT CUTS, OBVIOUS TRENCHES, OR EXISTENCE OF SERVICE. QL-D UTILITIES ARE NOT REFERENCED TO THE PROJECT SURVEY DATUM.
  2. QUALITY LEVEL C (QL-C): A VALUE ASSIGNED TO A SUBSURFACE UTILITY SEGMENT OR UTILITY FEATURE NOT VISIBLE AT THE GROUND SURFACE WHOSE ESTIMATED POSITION IS JUDGED THROUGH CORRELATING UTILITY RECORDS OR SIMILAR EVIDENCE TO UTILITY FEATURES, VISIBLE ABOVEGROUND AND/OR UNDERGROUND. QL-C UTILITIES ARE NOT REFERENCED TO THE SURVEY PROJECT DATUM.
  3. QUALITY LEVEL B (QL-B): A VALUE ASSIGNED TO SUBSURFACE UTILITY SEGMENT OR SUBSURFACE UTILITY FEATURE WHOSE EXISTENCE AND HORIZONTAL POSITION IS BASED ON GEOPHYSICAL METHODS COMBINED WITH PROFESSIONAL JUDGEMENT AND WHOSE LOCATION IS TIED TO THE PROJECT SURVEY DATUM. THE HORIZONTAL LOCATION OF SUBSURFACE UTILITY FACILITIES MUST BE RESOLVED WITH A TOLERANCE OF 0.2 FEET TO BE QL-B.
  4. QUALITY LEVEL A (QL-A): A VALUE ASSIGNED TO THAT PORTION (X-, Y-, AND Z-GEOMETRY) OF A SUBSURFACE UTILITY SEGMENT OR SUBSURFACE UTILITY FEATURE THAT IS DIRECTLY EXPOSED AND MEASURED AND WHOSE LOCATION AND DIMENSIONS ARE TIED TO THE PROJECT SURVEY DATUM. THE HORIZONTAL LOCATION OF UTILITY FACILITIES MUST BE RESOLVED WITH A TOLERANCE OF 0.2 FEET AND THE VERTICAL LOCATION OF UTILITY FACILITIES MUST BE RESOLVED WITH A TOLERANCE OF 0.1 FEET TO BE QL-A.
4. SUE PLAN LIMITATIONS:
  1. THE PURPOSE OF THE SUE PLANS IS TO AID IN THE IDENTIFICATION AND RESOLUTION OF UTILITY CONFLICTS. THE SUE PLANS ARE NOT INTENDED TO CONVEY ALL OF THE INFORMATION REQUIRED TO RELOCATE OR CONSTRUCT THE EXISTING OR PROPOSED UTILITIES. REFER TO THE RELEVANT CONSTRUCTION DRAWINGS AND SPECIFICATIONS FOR UTILITY CONSTRUCTION.
  2. PER ASCE 38-22 THE SUE PLANS ARE ITERATIVE DOCUMENTS, CHANGING OVER TIME AS NEW DATA IS COLLECTED AND PROJECT DELIVERY PROGRESSES. RISK-BASED UTILITY QUALITY LEVELS MAY BE DEVELOPED AND DELIVERED IN ANY ORDER, OR CONTEMPORANEOUSLY, AS THE PROJECT PROGRESSES THROUGH PROJECT DELIVERY.
  3. ALL DEPICTED SUBSURFACE UTILITIES ARE QL-D UNLESS NOTED. SUBSURFACE UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. MORE THAN ONE OF THE SAME TYPE OF UTILITY FACILITY MAY BE PRESENT AT LOCATIONS INDICATED.
  4. SUBSURFACE UTILITIES MAY EXIST THAT ARE NOT SHOWN ON THE SUE PLANS. SEE UTILITY LOCATING EQUIPMENT LIMITATIONS.
  5. UTILITY LOCATION AND NOTIFICATION OF THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) MEMBER UTILITIES AND NON-MEMBER UTILITIES PRIOR TO CONSTRUCTION IS THE CONTRACTOR'S RESPONSIBILITY.
  6. RELIANCE UPON SUE PLANS DURING BIDDING DOES NOT RELIEVE THE CONTRACTOR FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND PROCEDURES DURING EXCAVATION.
  7. UTILITY FIELD INVESTIGATIONS WERE COMPLETED ON 04/15/2021 AND 4/16/2024. UTILITY FACILITIES MAY HAVE BEEN CHANGED OR ADDED AFTER THESE DATES.
  8. UTILITY FACILITIES HAVE NOT BEEN POTHOLED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, POTHOLE, AND PROTECT ALL UTILITY FEATURES.
5. UTILITY LOCATING EQUIPMENT LIMITATIONS RESULTING IN LESS-THAN QUALITY LEVEL B UTILITY DEPICTIONS:
  1. ELECTROMAGNETIC LINE LOCATING TECHNIQUES (CONDUCTION): THE SUCCESSFUL DETECTION OF UNDERGROUND UTILITIES IS DEPENDENT PRIMARILY UPON THE COMPOSITION AND CONSTRUCTION OF THE LINE OF INTEREST, AND DEPTH OF BURIAL. THE UTILITIES MUST BE EXPOSED AT THE SURFACE OR IN ACCESSIBLE UTILITY VAULTS CLOSE TO THE SURVEY AREA. UTILITIES THAT MAY NOT BE DETECTABLE USING THESE TECHNIQUES INCLUDE CERTAIN ABANDONED UTILITIES, UTILITIES NOT EXPOSED AT THE GROUND SURFACE, OR THOSE MADE OF NON-ELECTRICALLY CONDUCTIVE MATERIALS SUCH AS PVC, FIBERGLASS, VITRIFIED CLAY, AND METAL PIPES WITH INSULATING JOINTS. PIPES GENERALLY DEEPER THAN ABOUT FIVE FEET MAY NOT BE DETECTED.

THE DETECTION OF UNDERGROUND UTILITIES USING THE CONDUCTION MODE IS ALSO DEPENDENT UPON THE PROXIMITY OF THOSE UTILITIES TO BENDS, TEES, CHANGES IN DEPTH, OTHER SUBSURFACE UTILITIES, AND/OR ABOVE GROUND CULTURAL OBJECTS. NEARBY BURIED UTILITIES CAN MASK OR DISTORT SIGNALS ASSOCIATED WITH THE UTILITY IN QUESTION. SHALLOW UTILITIES WILL GENERALLY PRODUCE A STRONGER RESPONSE THAN ADJACENT DEEPER UTILITIES AND WILL GENERALLY MASK EFFECTS FROM THE

- DEEPER UTILITIES. SUBSURFACE UTILITIES LOCATED BENEATH OR IN CLOSE PROXIMITY TO SURFACE METAL OBJECTS SUCH AS REBAR IN CONCRETE, RAILROAD TRACKS, AND SURFACE PIPELINES ARE DIFFICULT TO ACCURATELY DETECT OR DELINEATE.
2. ELECTROMAGNETIC LINE LOCATING TECHNIQUES (PASSIVE): THE ABILITY TO DETECT PASSIVE SIGNALS ASSOCIATED WITH 60 HZ ELECTRIC LINES IS DEPENDENT UPON CURRENT FLOWING THROUGH THE LINE. ENERGIZED ELECTRIC LINES MAY NOT BE DETECTED IF THE LOAD IS SWITCHED OFF AND ARE STILL DANGEROUS IF CONTACTED DURING EXCAVATION.
3. METAL DETECTION TECHNIQUES (INDUCTION): THE DETECTION OF BURIED METAL UTILITIES, USING THE HANDHELD INDUCTION TECHNIQUE, IS DEPENDENT UPON THE SIZE OF THE UTILITY, ITS DEPTH OF BURIAL, AND ITS PROXIMITY TO ABOVE GROUND METAL OBJECTS. AS THE SIZE OR DIAMETER OF THE BURIED METAL UTILITY DECREASES, THE DEPTH AT WHICH IT CAN BE DETECTED ALSO DECREASES. A RELATIVELY LARGE UTILITY SUCH AS A CORRUGATED STEEL DRAIN LINE CAN BE DETECTED AT DEPTHS OF 3 TO 4 FEET. A SMALLER UTILITY, SUCH AS AN ELECTRIC LINE ASSOCIATED WITH STREET LIGHTS, MAY BE DETECTED ONLY AT DEPTHS OF 1 TO 2 FEET. THE ABILITY TO DETECT A BURIED METAL UTILITY IS ALSO BASED ON ITS PROXIMITY TO ABOVE GROUND METAL OBJECTS OR STRUCTURES. CULTURAL FEATURES SUCH AS CHAIN LINK FENCES, BUILDINGS, DEBRIS, RAILROAD TRACKS, GUARD RAILS, AND OTHER UTILITIES MAY PRODUCE A RESPONSE THAT CAN MASK EFFECTS FROM THE NEARBY BURIED METAL UTILITY.
4. GROUND PENETRATING RADAR (GPR): UTILITIES DETECTABLE WITH GPR TECHNIQUES INCLUDE BOTH METALLIC AND NONMETALLIC PIPES. THE ABILITY TO DETECT PIPES IS DEPENDENT ON SITE SPECIFIC CONDITIONS SUCH AS DEPTH OF BURIAL, DIAMETER OF THE PIPE, CONDITION OF THE PIPE, TYPE OF BACKFILL MATERIAL, AND SURFACE CONDITIONS OVER THE PIPE.
6. EQUIPMENT AND SOFTWARE USED TO COLLECT AND DEPICT SUBSURFACE UTILITY INFORMATION: PIPE AND CABLE LOCATOR, TOTAL STATION, AND AUTODESK CIVIL 3D 2022.
7. SURFACE CONDITIONS: GROUND COVER CONSISTS OF BARE EARTH WITH SOME VEGETATION, AND ASPHALT PAVING.
8. SOIL GEOPHYSICAL QUALITIES: THE NATIVE SOILS ARE TYPICALLY SILTY CLAY LOAM. BEDROCK MAY BE SHALLOW. UNSUITED FOR GROUND PENETRATING RADAR DUE TO ATTENUATION DUE TO SALTS, SULFATES, AND CARBONATES.
9. SEE THE STANDARD ABBREVIATIONS, LEGEND, AND SYMBOLS FOR UTILITY LINE TYPE DEPICTIONS, UTILITY APPURTENANCES SYMBOLS, AND ABBREVIATIONS USED FOR THE SUE PLANS.
10. THE FOLLOWING TIER 1 UNDERGROUND FACILITY OWNERS PRESENT WITHIN THE PROJECT AREA WERE IDENTIFIED:
  - BLACK HILLS ENERGY-DELTA DIST = GAS
  - CENTURYLINK = FIBER, TELCO
  - CITY OF GR JCT--KANNAH = WATER
  - CLIFTON WATER DISTRICT = WATER
  - GRAND VALLEY RURAL POWER LINES = ELECTRIC
  - MESA CTY ROAD & BRIDGE/TRAFF = TRAFFIC, STORMWATER, IRRIGATION, FIBER, ELECTRIC
  - TRANS COLO GAS TRANSM. = GAS PIPELINE
  - XCEL ENERGY = ELECTRIC & GAS
  - XCEL ENERGY HI PRESSURE GAS = GAS PIPELINE

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**2022 PURDY MESA FLOWLINE REPLACEMENT  
SUE NOTES**  
June 11, 2024

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UTILITY CONFLICT RESOLUTION MATRIX										
FACILITY OWNER	ID	SHEET	TYPE	SIZE & MATERIAL	DESCRIPTION	QL	TEST HOLE	RECOMMENDED ACTION OR RESOLUTION	ESTIMATED RESOLUTION DATE	RESOLUTION STATUS
CLIFTON WATER	C1	30	W	8" PVC CL 200	EX WATER	D		PROTECT IN PLACE		
MESA COUNTY ROAD & BRIDGE	C2	30	STM		EX STORM	C		PROTECT IN PLACE		
CENTURY LINK	C3	31	TEL		EX TEL	D		PROTECT IN PLACE		
MESA COUNTY ROAD & BRIDGE	C4	31	STM		EX STORM	C		PROTECT IN PLACE		
CENTURY LINK	C5	31	TEL		EX TEL	D		PROTECT IN PLACE		
BLACK HILLS ENERGY	C6	31	GAS		EX GAS	D		PROTECT IN PLACE		
CLIFTON WATER	C7	31	W	8" PVC CL 200	EX WATER	D		PROTECT IN PLACE		
CENTURY LINK	C8	32	TEL		EX TEL	D		PROTECT IN PLACE		
CLIFTON WATER	C9	33	W	8" PVC CL 200	EX WATER	D		PROTECT IN PLACE		
BLACK HILLS ENERGY	C10	33	GAS		EX GAS	D		PROTECT IN PLACE		
CENTURY LINK	C11	33	TEL		EX TEL	D		PROTECT IN PLACE		
CITY OF GRAND JUNCTION	C12	34	W	20" STEEL	EX WATER	D		PROTECT IN PLACE		
KINDER MORGAN	C13	43	HP GAS	22" STEEL	EX GAS	D		PROTECT IN PLACE		
MESA COUNTY ROAD & BRIDGE	C14	44	STM		EX STORM	C		PROTECT IN PLACE		
PRIVATE	C15	44	ELEC	SERVICE	EX ELEC	D		PROTECT IN PLACE		
PRIVATE	C16	44	W	3/4" SERVICE	EX WATER	D		PROTECT IN PLACE		
CITY OF GRAND JUNCTION	C17	49	W	20" STEEL	EX WATER	D		PROTECT IN PLACE		

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UTILITY CONFLICT RESOLUTION MATRIX  
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**1. SITE DESCRIPTION**

The Contractor shall comply with all City of Grand Junction contractual requirements, and all requirements associated with the SWMP on this project. The SWMP Administrator for Construction shall update the SWMP to reflect current project site conditions.

**A. PROJECT SITE LOCATION:**

The project parallels portions of Silverstone Drive Reeder Mesa Road for approximately 3 miles from Cottonwood Creek to Reeder Mesa Road milepost 5.

**B. PROJECT SITE DESCRIPTION:**

The project will replace approximately 3 miles of water flowline. The site is primarily undeveloped and relatively flat, and parallels portions Silverstone Drive and Reeder Mesa Road. Disturbance of the existing soil will be limited to stripping topsoil, excavation and backfilling of trench activities, and equipment traffic at existing unimproved access roads. Final stabilization will be achieved by replacing the topsoil, seeding, and placing mulch in the disturbed areas.

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

Initial control measures will be installed, including vehicle tracking pads. The pipeline material will be brought to the work area by trucks using the existing unimproved access roads. The topsoil will be bladed to the side, separate from the trench spoils. The trench will be excavated, and interim control measures will be installed, primarily earth berms or windrows. The pipe will be installed. The native material will be used as backfill. The topsoil will be replaced over the trench. All areas that will not be paved will achieve final stabilization by the establishment of vegetation cover, at which time any remaining initial and interim control measures will be removed.

**D. ACRES OF DISTURBANCE:**

1. Total area of construction site (LOC (PERMITTED AREA)): 8.32 acres
2. Total area of proposed disturbance (LDA): 7.56 acres (Assumes 20' typical width of disturbance along trench)
3. Total area of seeding: 1.16 acres (BLM seed mix), 6.40 acres (Mesa County seed mix)
4. Pre- and post-project impervious areas (pavement of Silverstone Dr and Reeder Mesa Rd) will remain equal.

**E. EXISTING SOIL DATA:**

The site soils consist of silty clay loam, derived from weathered clay shale. Bedrock may be shallow in areas. These soils are rated as moderate for susceptibility to sheet and rill erosion.  
Data Source: Natural Resources Conservation Service Web Soil Survey

**F. EXISTING VEGETATION, INCLUDING PERCENT OF VEGETATIVE COVER:**

**Pre-Construction** Date of survey: \_\_\_\_\_ Percent Existing Vegetative Cover: \_\_\_\_\_  
Description of existing vegetation:  
Method for determining percent vegetative cover: Vegetation Transect

**Post-Construction** Date of survey: \_\_\_\_\_ Percent Vegetative Cover: \_\_\_\_\_  
Description of vegetation:  
The method used to determine pre-construction percent cover shall be used to determine post construction percent cover.

**G. POTENTIAL POLLUTANTS SOURCES:**

Refer to Potential Pollutant Sources in SWMP Section 4A. The SWMP Administrator for Construction shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.

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

1. Description of drainage patterns from the Site:  
The predominate drainage pattern is sheet flow to the southeast. The sheet flow concentrates into a number of ephemeral streams which intersect the site.
2. Names of immediate and ultimate receiving water(s) on site:  
The immediate receiving waters consist of ephemeral streams which intersect the site. These ephemeral streams discharge to Whitewater Creek, approximately 1.18 miles downstream to the west. The ultimate receiving water is the Gunnison River, which is approximately 3.43 miles downstream to the west.  
Whitewater Creek 303d designation(s): Mn-D, SO4  
Gunnison River 303d designation(s): As-T, E. coli, SO4

3. Description of all stream crossings located within the Construction Site Boundary:

Location	Stream Name	Description Of Any Disturbed Upland Areas
Ephemeral and perennial streams as noted on plans	N/A	Excavation and backfill of waterline trench

**I. ALLOWABLE NON-STORMWATER DISCHARGES:**

Discharge Description	Site Map #	Method Statement (Location)

**J. DIVERSION CRITERIA:**

1. Is a diversion planned for the Site? Yes \_\_\_\_\_ No   X
2. N/A

**K. ALTERNATIVE TEMPORARY STABILIZATION SCHEDULE:**

N/A

**2. SITE MAP COMPONENTS:**

- A. **PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES:** See SWMP Site Maps.
- B. **FLOW ARROWS THAT DEPICT STORMWATER FLOW DIRECTIONS ON-SITE, RUN-ON AND RUNOFF DIRECTION:** See SWMP Site Maps.
- C. **ALL AREAS OF GROUND SURFACE DISTURBANCE:** See SWMP Site Maps.
- D. **AREAS OF CUT AND FILL:** N/A
- E. **AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (field trailer, fueling, etc.) and LOCATIONS OF ALL WASTE ACCUMULATION and BATCH PLANTS INCLUDING MASONRY MIXING STATIONS:** See SWMP Site Maps.
- F. **LOCATION OF ALL STRUCTURAL CONTROL MEASURES IDENTIFIED IN THE SWMP:** See SWMP Site Maps.
- G. **LOCATION OF NON-STRUCTURAL CONTROL MEASURES AS APPLICABLE IN THE SWMP:** See SWMP Site Maps.
- H. **SPRINGS, STREAMS, WETLANDS, DIVERSIONS, AND OTHER STATE WATERS, INCLUDING AREAS THAT REQUIRE PRE-EXISTING VEGETATION BE MAINTAINED WITHIN 50 FEET OF A RECEIVING WATER:** See SWMP Site Maps.
- I. **LOCATIONS OF ALL STREAM CROSSING LOCATED WITHIN THE CONSTRUCTION SITE BOUNDARY:** See SWMP Site Maps.
- J. **PROTECTION OF TREES, SHRUBS, SENSITIVE HABITAT, AND CULTURAL RESOURCES:** See SWMP Site Maps.
- K. **LOCATIONS WHERE ALTERNATIVE TEMPORARY STABILIZATION SCHEDULES APPLY:** N/A

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**3. QUALIFIED STORMWATER MANAGERS:**

**A. SWMP ADMINISTRATOR FOR DESIGN:**

Individual responsible for developing SWMP Plan Sheets and SWMP Site Maps during the design phase.

Name/Title	Contact Information
William Comerer, P.E., CFM Project Engineer	(970) 244-1417 williamc@gjcity.org

**B. SWMP ADMINISTRATOR FOR CONSTRUCTION:** (As defined in Section 208) The Contractor shall designate a SWMP Administrator for Construction upon accepting co-permittee of the permit. The SWMP Administrator for Construction shall become the operator for the SWMP and assume responsibility for all design changes to the SWMP implementation and maintenance in accordance to 208.03, the SWMP shall remain the property of City of Grand Junction. The SWMP Administrator for Construction shall be responsible for implementing, maintaining and revising SWMP, including the title and contact information. The activities and responsibilities of the SWMP Administrator for Construction shall address all aspects of the project's SWMP. (Update the information below for each new SWMP Administrator for Construction)

Name/Title	Contact Information (phone & email)	Start Date

**C. EROSION CONTROL INSPECTOR:** (As defined in Section 208) The Contractor may designate an Erosion Control Inspector. The Erosion Control Inspector shall complete duties in accordance with subsection 208.03 (c).

Name/Title	Contact Information (phone & email)	Start Date

**4. STORMWATER MANAGEMENT CONTROLS FOR FIRST CONSTRUCTION ACTIVITIES**

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

**A. POTENTIAL POLLUTANT SOURCES:**

Evaluate, identify, locate and describe all potential sources of pollutants at the site in accordance with subsection 107.25, CDPS-SCP and place in the SWMP. All control measures related to potential pollutants shall be shown on the SWMP Site Map by the Contractor's SWMP Administrator for Construction.

**B. OFFSITE DRAINAGE (RUN ON WATER):**

Describe and record control measures on the SWMP Site Map that have been implemented to address off site run-on water in accordance with subsection 208.03.

**C. VEHICLE TRACKING CONTROL:**

Control measures shall be implemented in accordance with subsection 208.04.

**D. PERIMETER CONTROL:**

- Perimeter control shall be established as the first item on the SWMP to prevent the potential for pollutants leaving the construction site boundaries, entering the stormwater drainage system, or discharging to state waters. Perimeter control shall be in accordance with subsection 208.04
- Perimeter control may consist of berms, silt fence, erosion logs, existing landforms, or other control measures as approved.

**5. DURING CONSTRUCTION**

**RESPONSIBILITIES OF THE SWMP ADMINISTRATOR FOR CONSTRUCTION:** Considered a "living document", the SWMP is continuously reviewed and modified throughout the construction phases. During construction, SWMP Administrator for Construction shall add, update, or amend the items A-G below as needed in accordance with subsection 208.03.

During construction, indicate how items that were not addressed during design are being handled in construction. If items are covered in other sections of the SWMP, indicate below what section the discussion takes place.

**A. MATERIALS HANDLING AND SPILL PREVENTION AND RESPONSE PLAN:** Prior to construction commencing the Contractor shall submit a Spill Response Plan. Materials handling and Spill Response Plan shall be in accordance with subsection 208.06.

**B. OTHER CDPS PERMITS:** List applicable CDPS permits associated with the permitted site and activities.

**C. STOCKPILE MANAGEMENT:** Shall be done in accordance with subsections 107.25 and 208.07.

**D. CONCRETE WASHOUT:** Concrete washout water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.

**E. SAW CUTTING:** Shall be done in accordance with subsections 107.25, 208.04, 208.05

**F. STREET SWEEPING:** Shall be done in accordance with subsection 208.04.

**6. INSPECTIONS**

**A.** Water Quality Inspections shall be in accordance with subsection 208.03(c).

**B.** Permanent Stabilization Inspections shall be in accordance with subsections 208.04(e)4 and 208.10.

**7. CONTROL MEASURE MAINTENANCE**

Maintenance shall be in accordance with subsection 208.04(f).

**8. RECORD KEEPING**

Records shall be kept in accordance with subsection 208.03(d).

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**9. INTERIM, PERMANENT STABILIZATION and LONG-TERM STORMWATER MANAGEMENT**

The Contractor shall comply with all interim stabilization and permanent stabilization requirements in accordance with subsection 208.04(e).

**A. SEEDING PLAN:**

The following seed mix(es) and rates are for drill seeding method on parcels NOT managed by BLM:  
**Mesa County Semi-Desert Scrub & Grasland seed mix**

The following seed mix(es) and rates are for drill seeding method on parcels managed by BLM:  
**BLM Low Elevation Semi/Salt-Desert Grass/Shrubland seed mix**

**B. SEEDING APPLICATION METHOD:**

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

Pay Item	Seeding Method (subsection 212.05)	Acre
212	Seeding (Broadcast)	7.56
	Total	7.56

**C. SOIL STABILIZATION METHODS:**

Minimum soil stabilization methods (attached mulch) for all disturbances to receive seeding. Prior to winter shutdown or the summer seeding window closure: Uncompleted slopes shall be mulched with 2 tons of mulching (weed free) per acre, mechanically crimped into the topsoil in combination with an organic mulch tackifier in accordance with Sections 208 and 213.

1. Apply Spray-on Mulch Blanket hydraulically in accordance with Section 213.
2. Install Soil Retention Blankets in accordance with Standard Plan M-216-1 and Section 216.

**D. SPECIAL REQUIREMENTS:**

1. Soil amendments, seedbed preparation, and permanent stabilization mulching shall be accomplished within four working days of placing the topsoil on the de-compacted civil subgrades. If placed topsoil is not mulched with permanent stabilization mulch within four working days, the Contractor shall complete interim stabilization methods in accordance with subsection 208.04(e) at no additional cost to the Department.
2. Complete permanent stabilization mulching within 24 hours of hydraulic application of native seed.
3. The Contractor shall submit a proposed Permanent Stabilization Phasing Plan to the Engineer for approval showing how implementation of SWMP Permanent Stabilization Plans will minimize damage to seeded areas.

**E. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION:**

Prior to stormwater construction work partial acceptance.

1. All seeded areas shall be reviewed by the SWMP Administrator for Construction and or Erosion Control Inspector for bare soils caused by surface or wind erosion. Bare areas caused by surface or gully erosion, blown away mulch, etc. shall be re-graded, seeded, and have the designated mulching applied as necessary, at no additional cost to the project.
2. The Contractor shall maintain seeding/mulch/tackifier/blanket/TRM, and control weeds at no additional cost to the project.

**F. LOCATION AND DESCRIPTION OF PLANNED PERMANENT CONTROL MEASURES:** Is Permanent Water Quality Required. Yes \_\_\_\_\_ No **X** \_\_\_\_\_.

**10. PRIOR TO PROJECT FINAL ACCEPTANCE**

- A. Removal and disposal of temporary control measures shall be included in the cost of work.
- B. All culverts shall be cleaned prior to the Final Acceptance of the project.
- C. Refer to subsection 208.10 for Items to be completed prior to requesting partial acceptance of water quality work.

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**11. NARRATIVES**

**Control Measure Matrixes During Construction:**

- Control measure narratives have been included for the CDOT Standard Specifications and Standard Plan M-208 and M-216 along with any non-standard control measures approved during the design process. If a Non-Standard Control Measure not included in the SWMP is proposed and approved by the Engineer the SWMP Administrator for Construction shall do the following: Place an "X" in the column for non-standard and complete a Non-Standard Control Measure Specification and Narrative covering the what, when, where and why the control measure is being used shall be add to the SWMP. The appropriate "X" shall also be added to the implementation phase(s).
- The SWMP Administrator for Construction shall place an "X" in the column In Use On Site when the control measure has been installed.
- A "B" in the Initial Activities Column indicates that the control measure shall be installed **before** construction activity starts. Locations and quantities will be discussed during the Environmental Pre-Construction Conference with the Regional Water Pollution Control Manager.

**STRUCTURAL Control Measures** that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to the following:

APPLICATION, CONTROL MEASURE	NARRATIVE	M- 208 STANDARD or "X" for NON- STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITIES	INTERIM ACTIVITIES	PERMANENT STABILIZATION
STOCKPILE PROTECTION Temporary berm	Placed within specified distance, in accordance with subsection 208.06, from toe to contain sediment around stockpile. *Aggregate bags are easily moved and replaced for access during the work day. Place prior to start of stockpiling, increase control as the stockpile increases size.	M-208			X	
TOE OF FILL PROTECTION Temporary berm, topsoil windrow*	Place prior to slope/embankment work to capture sediment and protect and delineate undisturbed areas. *Can be used to stockpile topsoil for salvage.	M-208		X	X	
PERIMETER CONTROL Temporary berm, topsoil windrow*	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area. *Can be used to stockpile topsoil for salvage.	M-208		B or X	X	
CONCRETE WASHOUT In-ground or fabricated	Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to the start of concrete activities.	M-208		X	X	
VEHICLE TRACKING PAD	Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to the start of construction disturbances.	M-208		B or X	X	
DEWATERING (Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.)	Shall be done in such a manner to prevent potential pollutants from entering state waters.			X	X	
OTHER						

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**NON-STRUCTURAL Control Measures** that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:

Erosion control devices are used to limit the amount of soil loss on site. Sediment control devices are designed to capture sediment on the project site. Construction controls are control measures related to construction access and staging. Control Measure locations are indicated on the SWMP Site Map.

\* **Use of vegetative buffer strip requirements.** The CDPHE Water Quality Control Division Technical Memorandum dated August 27, 2015 clarifies the requirements for utilization of existing vegetation as a buffer type of sediment control measure, while maintaining compliance with the CDPS permit for Stormwater Discharges Associated with Construction Activity – CDPS Permit No. COR4000000. In general, the division does not recommend that vegetated buffers be implemented as a sediment removal control measure for runoff from disturbed areas at construction sites, unless implemented as a “finishing” component of a treatment train comprised of additional, adequate up-gradient Control Measures. The entire memorandum can be found at: <https://www.colorado.gov/pacific/sites/default/files/Vegetative%20Buffer%20Memo.pdf>

APPLICATION, CONTROL MEASURE	NARRATIVE	M-STANDARD or "For NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITY	INTERIM ACTIVITIES	PERMANENT STABILIZATION
GRADING APPLICATIONS (LANDFORM)	Existing or created landforms may be used as a control measure if they prevent sediment from entering or leaving the disturbance area. If a landform directs flow of water to a concentrated outfall point, the outfall point shall be protected to prevent erosion. Area to be identified on SWMP prior to construction starting.	M-208		X	X	
TOPSOIL MANAGEMENT STOCKPILE/SALVAGE Stockpile	Prior to any site disturbance work commencing, existing topsoil shall be scraped to a depth six inches or as specified, and placed in stockpiles or windrows. Upon completion of final grading, topsoil shall be evenly distributed over embankment to a depth of six inches or as specified.	M-208		X	X	X
SURFACE ROUGHENING / GRADING TECHNIQUES	Temporary stabilization of disturbance and to minimize wind and erosion.				X	
BONDED FIBER MATRIX or MULCHING (HYDRAULIC)	Not to be used in areas of concentrated flows, i.e. ditch lines. To be for either Interim or Permanent Stabilization placed as a surface cover for erosion control. May be used as surface cover when work is temporarily halted and as approved by the Engineer for stockpiles.					X
SEEDING PERMANENT (Mesa County or BLM-specified seed mixes noted in SWMP Section 9A)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.					X
SOIL RETENTION BLANKET (SRB) (Straw-Coconut) (Biodegradable Class 1)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.	M-216			X	X
Sweeping	Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.			X	X	X
OTHER						

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**12. BIOLOGICAL IMPACTS and DEWATERING**

**A. ENVIRONMENTAL IMPACTS:**

1. Wetland Impacts: YES
2. Stream Impacts: YES
3. Threatened and Endangered Species: No species are anticipated to be impacted by the project.

**B. DEWATERING:**

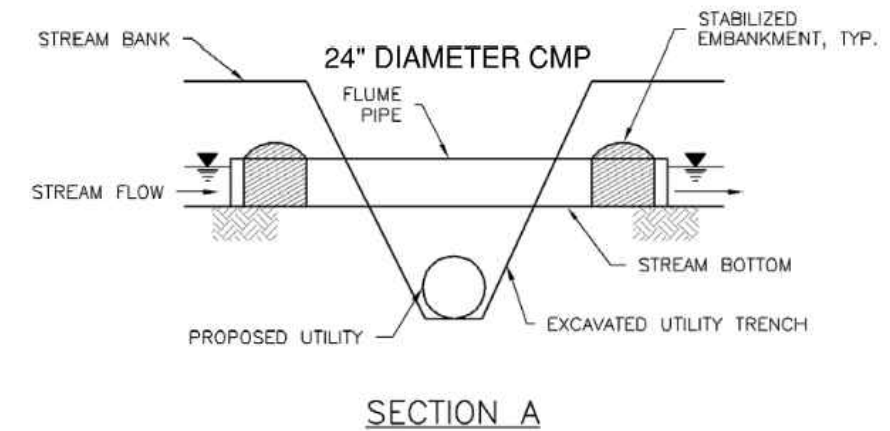
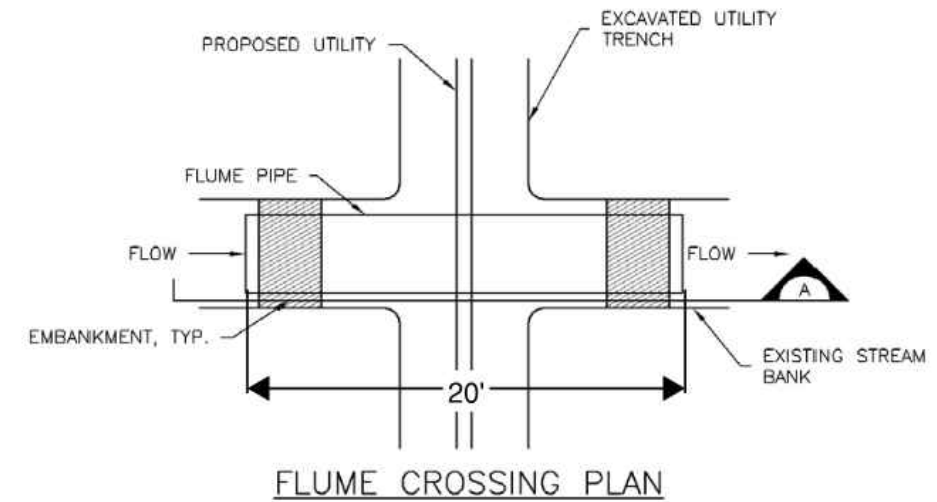
(Not covered under the CDPHE guidance document Low Risk Discharge Guidance Discharges of Uncontaminated Groundwater to Land):

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

1. Dewatering: Refer to other environmental permits in accordance with subsection 107.02.
2. If groundwater does not meet water quality standards for receiving water a separate CDPS Dewatering Permit shall be obtained by the Contractor from CDPHE in accordance with subsections 107.02 and 107.25.

**Temporary Stream Crossing (TSC)**

**SM-10**



**TSC-3. FLUME CROSSING**

June 2012

Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3

TSC-5

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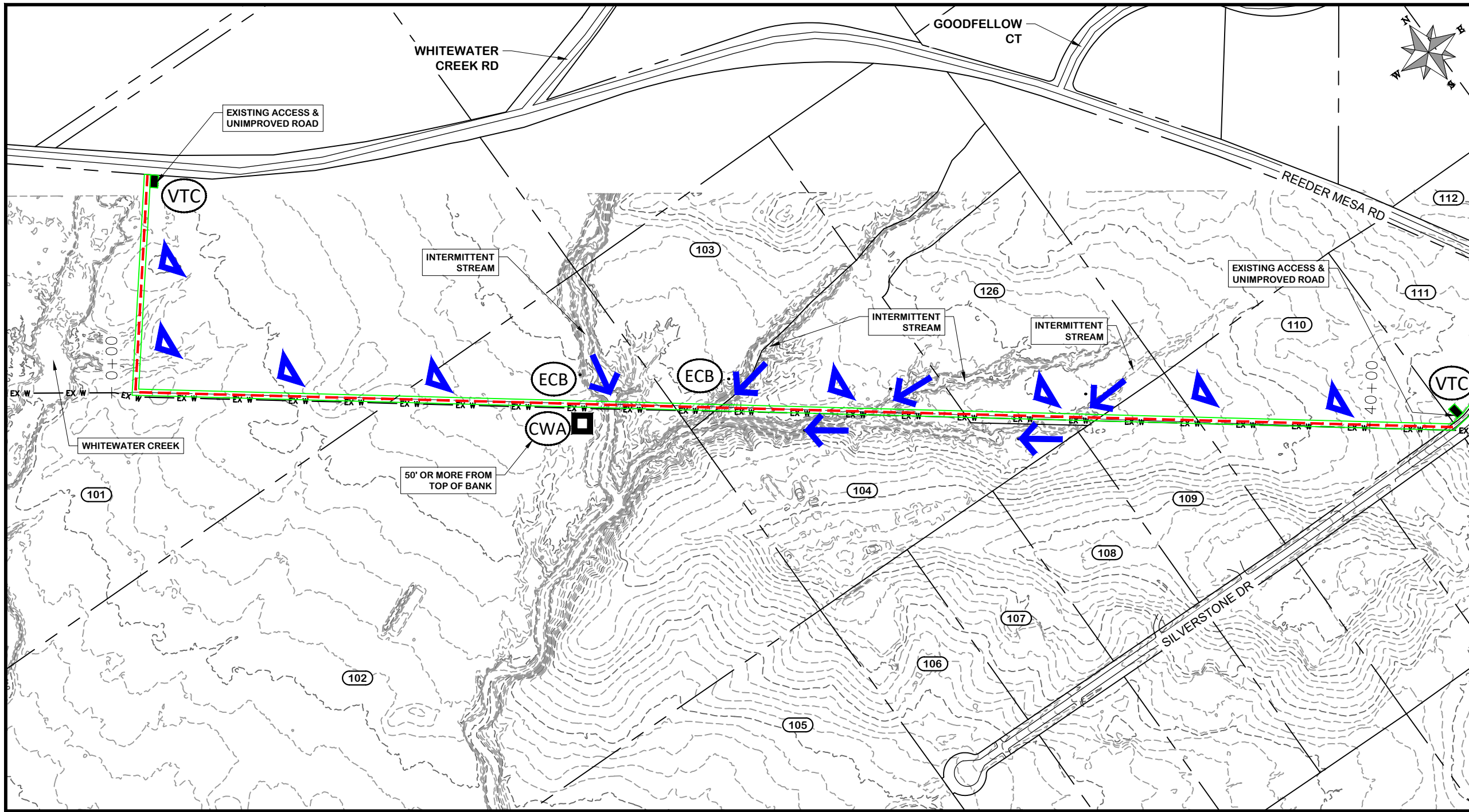


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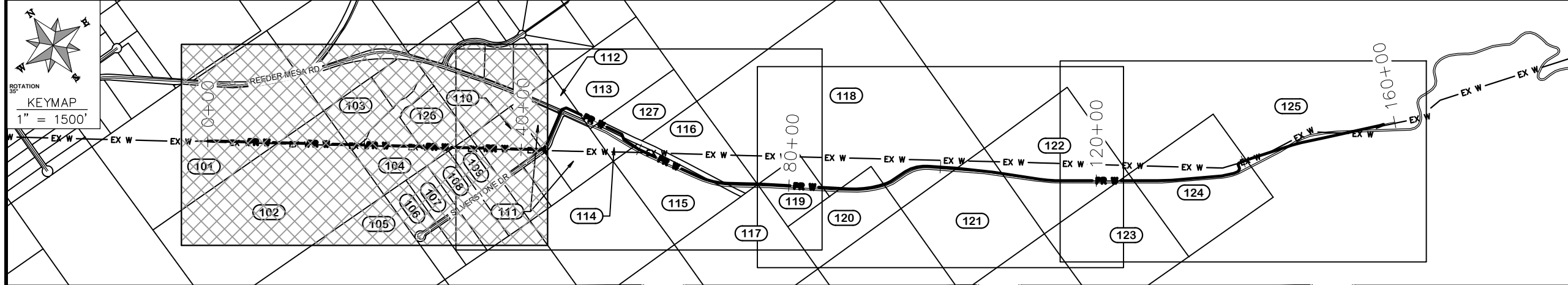
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- COORDINATES SHOWN IN MCLCS: MESA COUNTY LOCAL COORDINATES SYSTEM
- TEMPORARY EROSION CONTROL MEASURES
- LIMITS OF CONSTRUCTION SITE
  - LIMITS OF DISTURBED AREA
  - (VTC)** VEHICLE TRACKING CONTROL
  - (CWA)** CONCRETE WASHOUT: 50ft MIN FROM TOP OF BANK.
  - (ECB)** EROSION CONTROL BLANKETS
  - (TSC)** TEMPORARY STREAM CROSSING (FLUME)
  - ← CONCENTRATED FLOW
  - ▽ SHEET FLOW



**NOTE**  
CONTOURS SHOWN AT 2 FT INTERVALS

REVISION	DESCRIPTION	DATE
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DRAWN BY	HMC	DATE	2024
DESIGNED BY	WC	DATE	2024
CHECKED BY	WC	DATE	2024
APPROVED BY	WC	DATE	2024

SCALES:

PLAN & PROFILE	
HORIZONTAL	1" = 40'
VERTICAL	1" = 20'



**PUBLIC WORKS ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

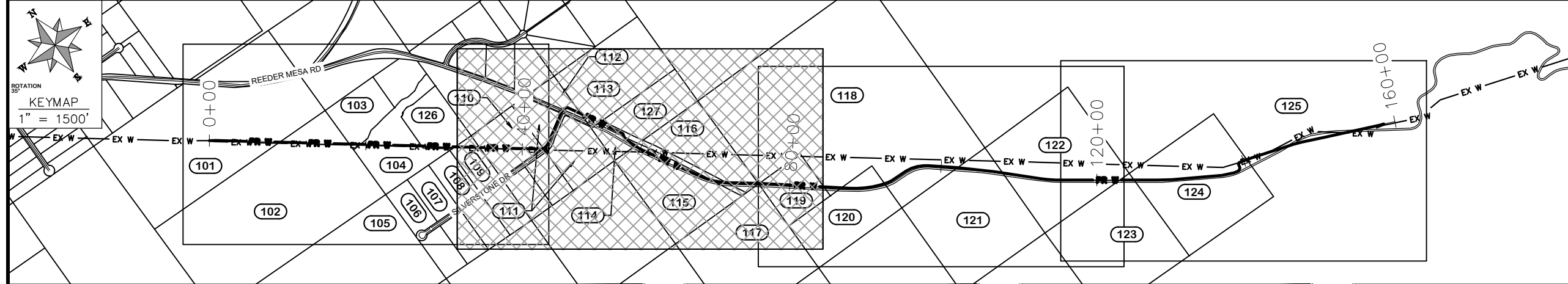
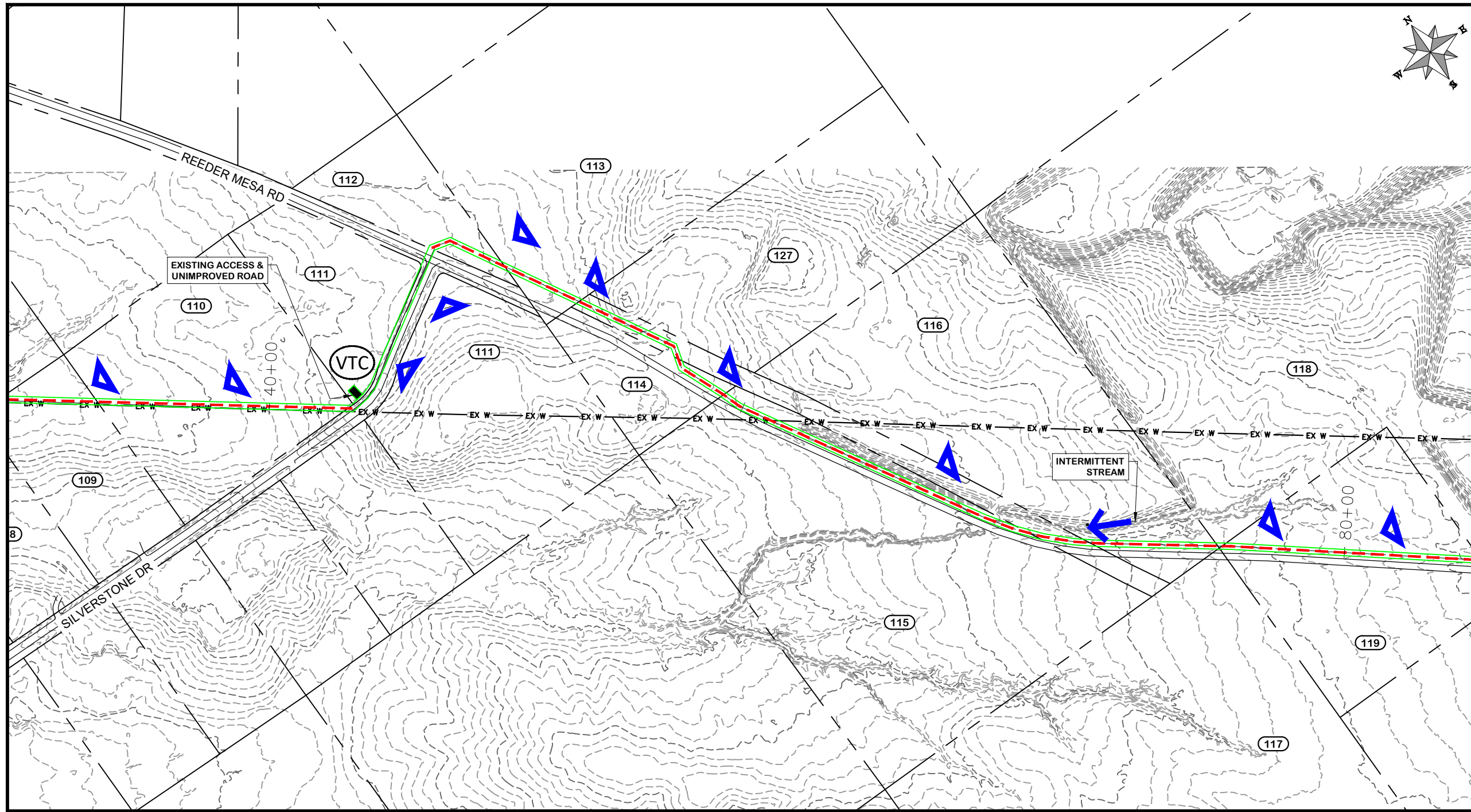
**2022 PURDY MESA FLOWLINE REPLACEMENT**  
SWMP OVERVIEW - 1  
June 11, 2024

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TEMPORARY EROSION CONTROL MEASURES

- LIMITS OF CONSTRUCTION SITE
- LIMITS OF DISTURBED AREA
- (VTC)** VEHICLE TRACKING CONTROL
- (CWA)** CONCRETE WASHOUT: 50ft MIN FROM TOP OF BANK.
- (ECB)** EROSION CONTROL BLANKETS
- (TSC)** TEMPORARY STREAM CROSSING (FLUME)
- ← CONCENTRATED FLOW
- ▽ SHEET FLOW



**NOTE**  
CONTOURS SHOWN AT 2 FT INTERVALS

REVISION	DESCRIPTION	DATE
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DRAWN BY	HMC	DATE	2024
DESIGNED BY	WC	DATE	2024
CHECKED BY	WC	DATE	2024
APPROVED BY	WC	DATE	2024

SCALES:

PLAN & PROFILE	
HORIZONTAL	1" = 40'
VERTICAL	1" = 20'











**PUBLIC WORKS  
ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

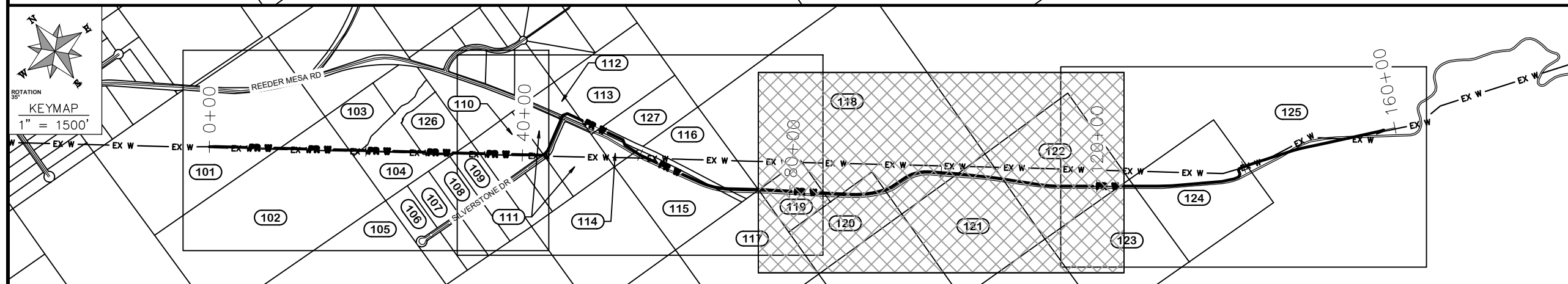
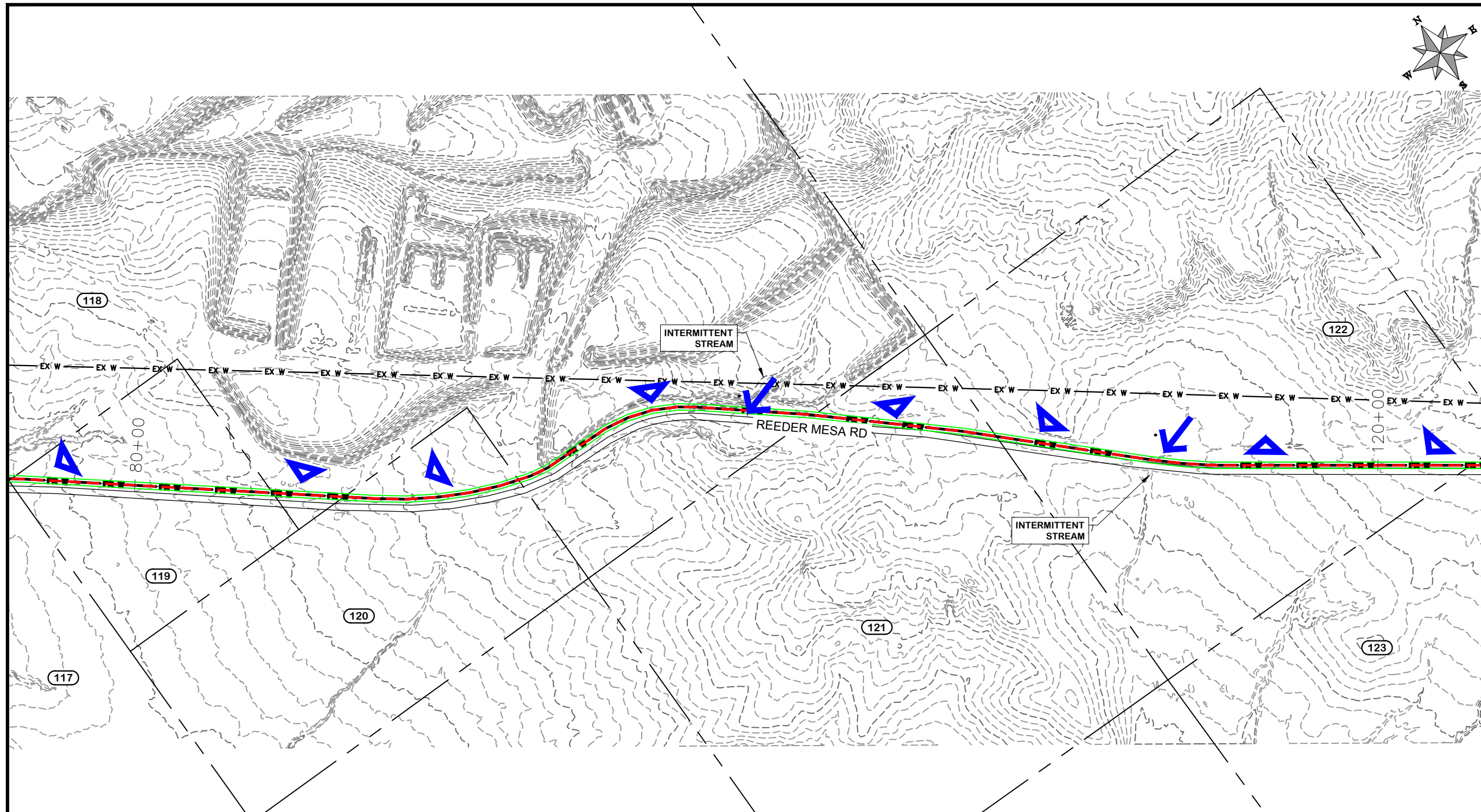
**2022 PURDY MESA FLOWLINE REPLACEMENT  
SWMP OVERVIEW - 2**  
June 11, 2024

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TEMPORARY EROSION CONTROL MEASURES

-  LIMITS OF CONSTRUCTION SITE
-  LIMITS OF DISTURBED AREA
-  VEHICLE TRACKING CONTROL
-  CONCRETE WASHOUT: 50ft MIN FROM TOP OF BANK.
-  EROSION CONTROL BLANKETS
-  TEMPORARY STREAM CROSSING (FLUME)
-  CONCENTRATED FLOW
-  SHEET FLOW



**NOTE**  
CONTOURS SHOWN AT 2 FT INTERVALS

REVISION	DESCRIPTION	DATE
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DRAWN BY	HMC	DATE	2024
DESIGNED BY	WC	DATE	2024
CHECKED BY	WC	DATE	2024
APPROVED BY	WC	DATE	2024

SCALES:

PLAN & PROFILE	
HORIZONTAL	1" = 40'
VERTICAL	1" = 20'











**PUBLIC WORKS ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

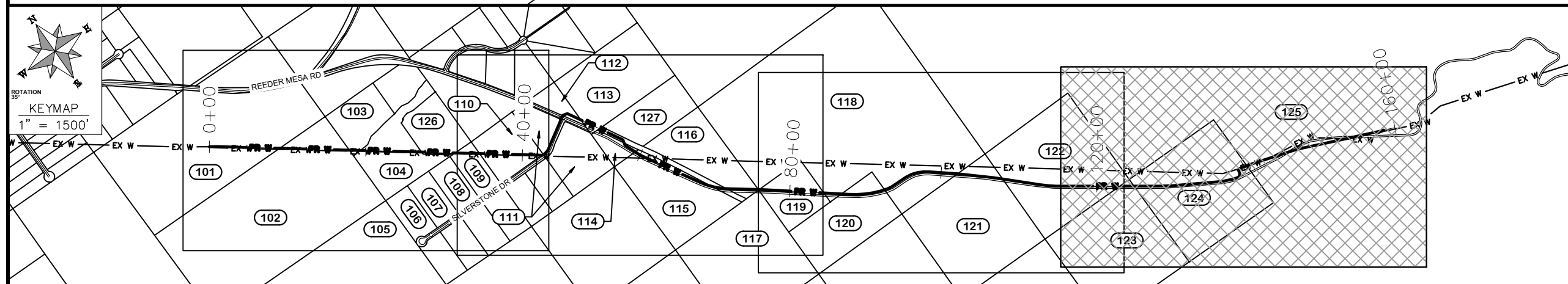
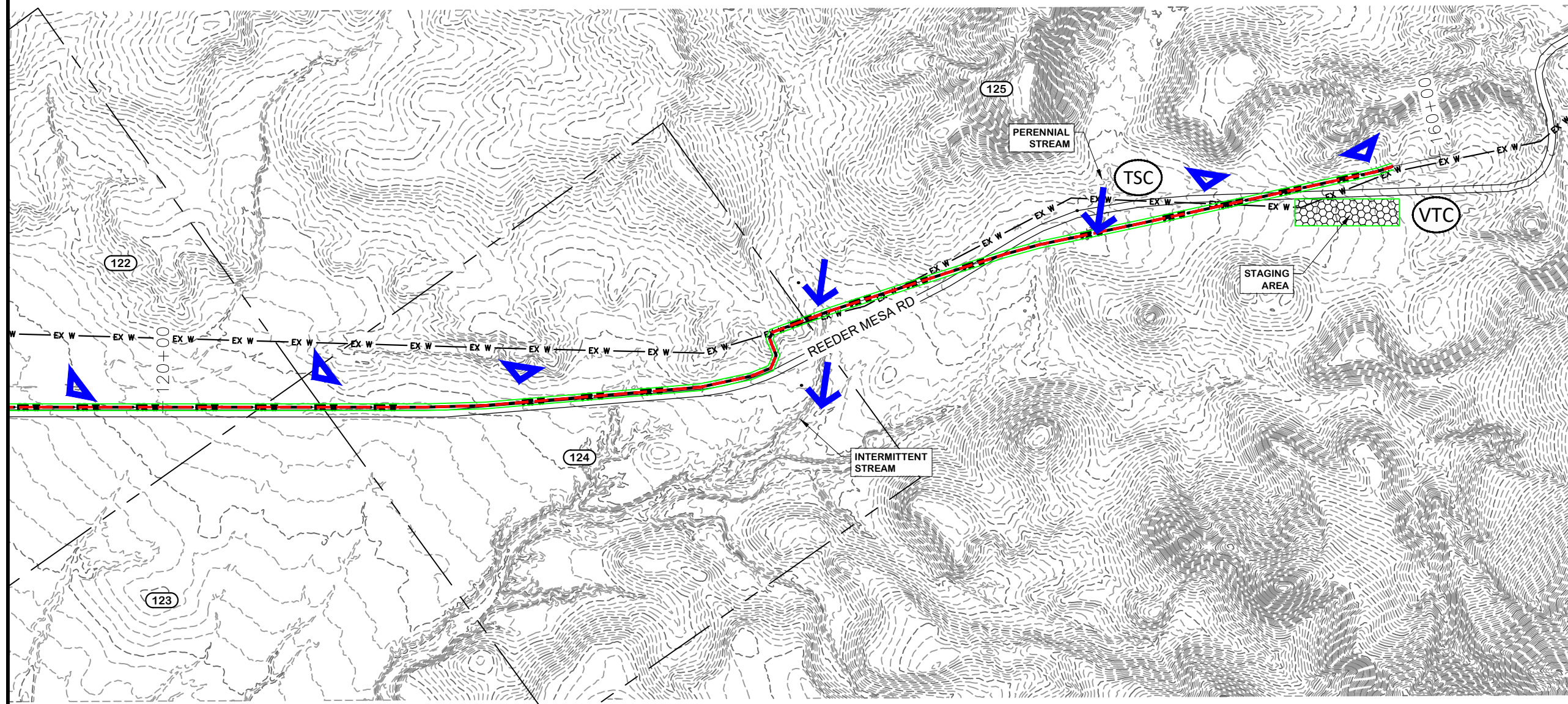
**2022 PURDY MESA FLOWLINE REPLACEMENT**  
SWMP OVERVIEW - 3  
June 11, 2024

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TEMPORARY EROSION CONTROL MEASURES

-  LIMITS OF CONSTRUCTION SITE
-  LIMITS OF DISTURBED AREA
-  VTC VEHICLE TRACKING CONTROL
-  CWA CONCRETE WASHOUT: 50ft MIN FROM TOP OF BANK.
-  ECB EROSION CONTROL BLANKETS
-  TSC TEMPORARY STREAM CROSSING (FLUME)
-  CONCENTRATED FLOW
-  SHEET FLOW



NOTE  
CONTOURS SHOWN AT 2 FT INTERVALS

REVISION	DESCRIPTION	DATE
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DRAWN BY	HMC	DATE	2024
DESIGNED BY	WC	DATE	2024
CHECKED BY	WC	DATE	2024
APPROVED BY	WC	DATE	2024

SCALES:	
PLAN & PROFILE	
HORIZONTAL	1" = 40'
VERTICAL	1" = 20'

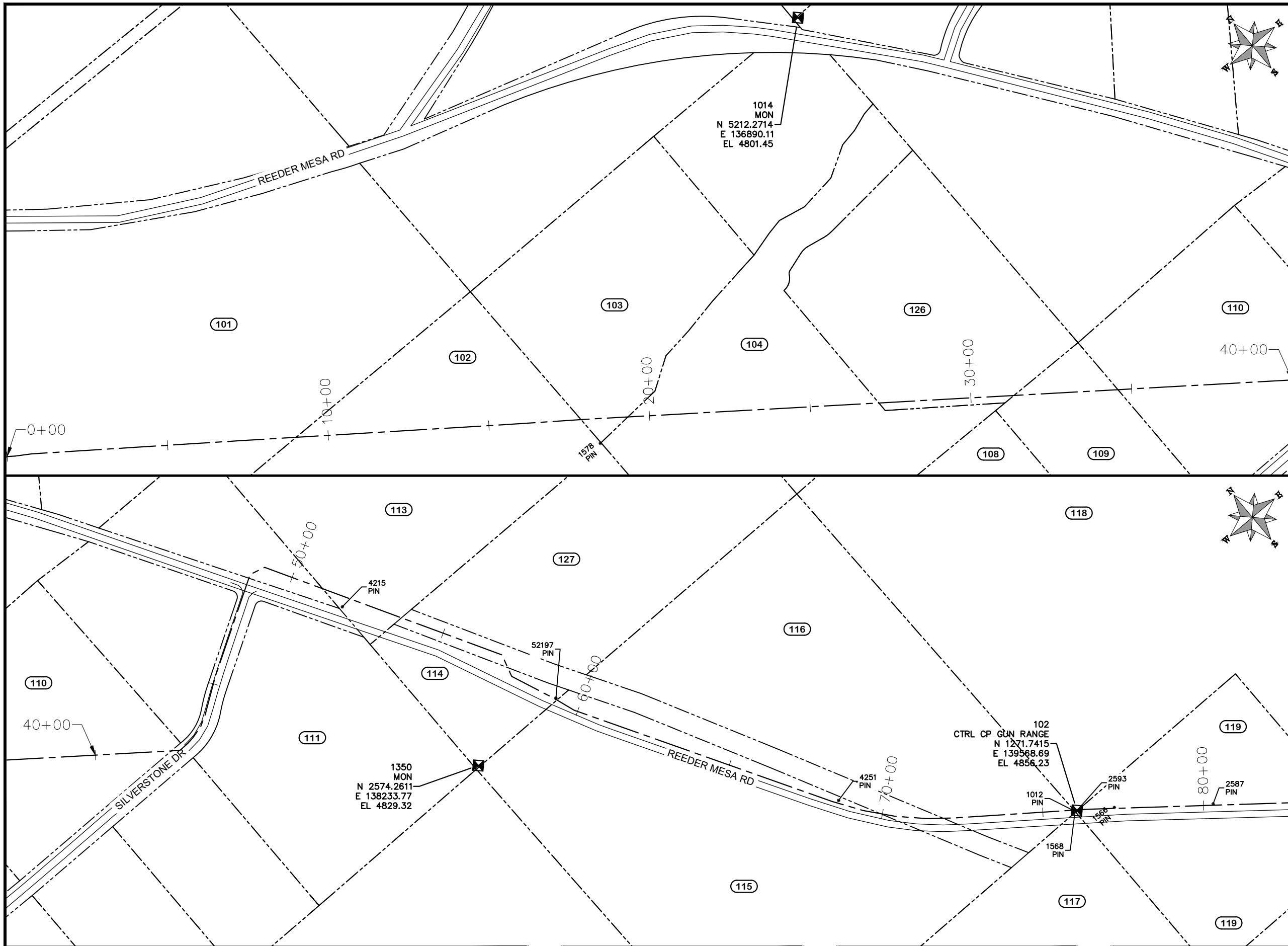


**PUBLIC WORKS ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT**  
SWMP OVERVIEW - 4  
June 11, 2024

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COORDINATES SHOWN IN MCLCS: MESA COUNTY LOCAL COORDINATES SYSTEM

Point Number	Easting	Northing	Point Elevation	Description
1	146528.49	-2714.62	4993.68	CP /60D/
102	139568.69	1271.74	4856.23	CTRL CP GUN RANGE
1005	142193.70	-10.18	4918.7	MON
1012	139561.40	1276.80	4855.82	PCOR
1014	136890.11	5212.27	4801.45	MON
1090	140221.44	763.14	4871.73	PCOR
1350	138233.77	2574.26	4829.32	MON
1566	139663.86	1204.29	4858.37	PCOR
1568	139561.54	1272.52	4855.12	PCOR
1578	135570.34	4594.64	4758.64	PCOR
2587	139906.29	1015.44	4863.88	PCOR
2593	139568.69	1271.74	4856.23	PCOR
4215	138226.99	3223.16	4822.9	PCOR
4251	139021.58	1771.64	4840.96	PCOR
52197	138552.97	2579.32	4835.2	PIN /YPC/

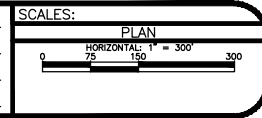
PARCEL TABLE

Parcel Number	Owner Name
101	2969-181-00-061 LOWDER ROBERT N c/o R N LOWDER
102	2969-184-00-266 2291 REEDER MESA RD QUEEN JAMES PATRICK
103	2969-184-05-002 2605 REEDER MESA RD CHEAIRS PHILIP E & CHEAIRS LINDA D
104	2969-184-05-005 2609 REEDER MESA RD MCKAGUE JAMIE
108	2969-184-06-009 3492 SILVERSTONE DR HATTER SHELBY C JR & HATTER ERIN M
109	2969-184-06-010 3498 SILVERSTONE DR STEVENS LARRY L & HAMILTON SHARON A
110	2969-173-00-047 3506 SILVERSTONE DR NOETZEL EVANGELINE & LUNDQUIST EDWIN GARY
111	2969-173-00-390 3513 SILVERSTONE DR STATEN MICKEY L
112	2969-173-00-389 2858 REEDER MESA RD DENT DANIEL S & DENT ARLENE
113	2969-173-00-107 2960 REEDER MESA RD COOPER JOHNNIE E & COOPER SUZANNE M
114	2969-173-00-109 2991 REEDER MESA RD MAXWELL JAMES E
115	2969-202-00-374 3000 REEDER MESA RD GRAND VALLEY RURAL POWER LINES INC
116	2969-202-00-373 3110 REEDER MESA RD HICKS LARRY
117	2969-202-00-136 3335 REEDER MESA RD NEWBERRY JESSICA MAY & NEWBERRY PAUL AUSTIN
118	2969-201-00-388 3520 REEDER MESA RD WESTERN COLORADO PRECISION MARKSMANSHIP SOC
119	2969-201-00-046 WESTERN COLORADO PRECISION MARKSMANSHIP SOCIETY
126	2611 REEDER MESA RD AVILA VALENTE
127	2998 REEDER MESA RD HICKS LARRY DEAN

NOTE  
BOUNDARIES ARE SHOWN ON PLANS FOR INFORMATION ONLY. THIS IS NOT A BOUNDARY SURVEY.

REVISION	DESCRIPTION	DATE
REVISION		
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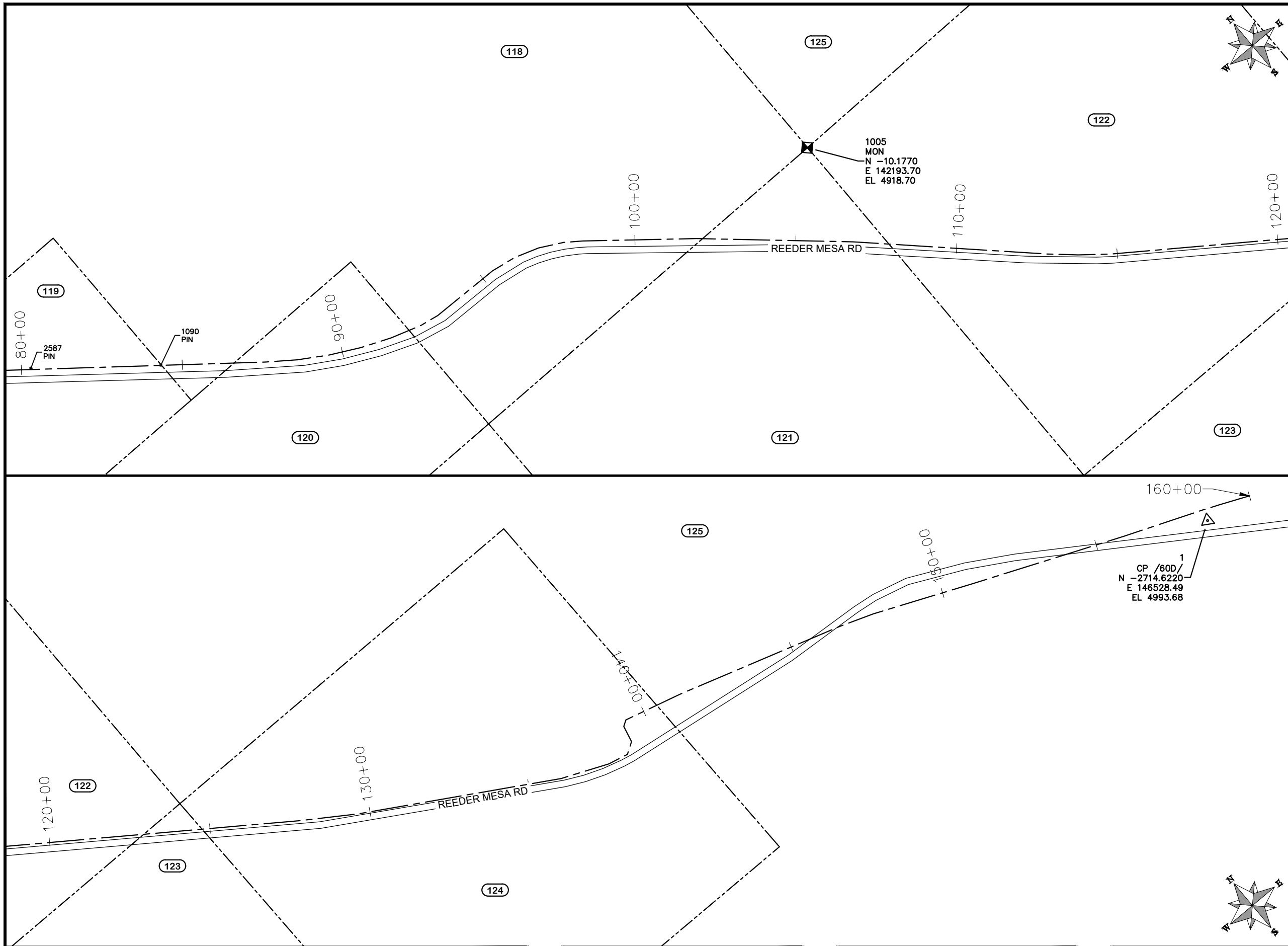
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DESIGNED BY	WC	DATE	2024
CHECKED BY	WC	DATE	2024
APPROVED BY	WC	DATE	2024



**PUBLIC WORKS  
ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT  
CONTROL SHEET - 1**  
June 11, 2024

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COORDINATES SHOWN IN MCLCS: MESA COUNTY LOCAL COORDINATES SYSTEM

Point Number	Easting	Northing	Point Elevation	Description
1	146528.49	-2714.62	4993.68	CP /60D/
102	139568.69	1271.74	4856.23	CTRL CP GUN RANGE
1005	142193.70	-10.18	4918.7	MON
1012	139561.40	1276.80	4855.82	PCOR
1014	136890.11	5212.27	4801.45	MON
1090	140221.44	763.14	4871.73	PCOR
1350	138233.77	2574.26	4829.32	MON
1566	139663.86	1204.29	4858.37	PCOR
1568	139561.54	1272.52	4855.12	PCOR
1578	135570.34	4594.64	4758.64	PCOR
2587	139906.29	1015.44	4863.88	PCOR
2593	139568.69	1271.74	4856.23	PCOR
4215	138226.99	3223.16	4822.9	PCOR
4251	139021.58	1771.64	4840.96	PCOR
52197	138552.97	2579.32	4835.2	PIN /YPC/

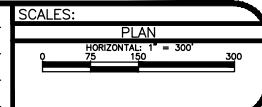
PARCEL TABLE

Parcel Number	Parcel Description
118	2969-201-00-388 3520 REEDER MESA RD WESTERN COLORADO PRECISION MARKSMANSHIP SOC
119	2969-201-00-046 WESTERN COLORADO PRECISION MARKSMANSHIP SOCIETY
120	2969-201-00-097 3521 REEDER MESA RD POLOGAR JOSEPH F
121	2969-204-00-270 4035 REEDER MESA RD WALSH MICHELLE A
122	2969-213-00-131 4040 REEDER MESA RD ALLEN JEFFREY P & ALLEN LAURIE A
123	2969-213-00-272 4051 REEDER MESA RD MOCTEZUMA JAIME CAMACHO
124	2969-213-00-171 4059 REEDER MESA RD MOCTEZUMA JAIME CAMACHO & CAMACHO SUSANA
125	2969-163-00-001 1480 WHITEWATER CREEK RD BLM

NOTE  
BOUNDARIES ARE SHOWN ON PLANS FOR INFORMATION ONLY. THIS IS NOT A BOUNDARY SURVEY.

REVISION	DESCRIPTION	DATE

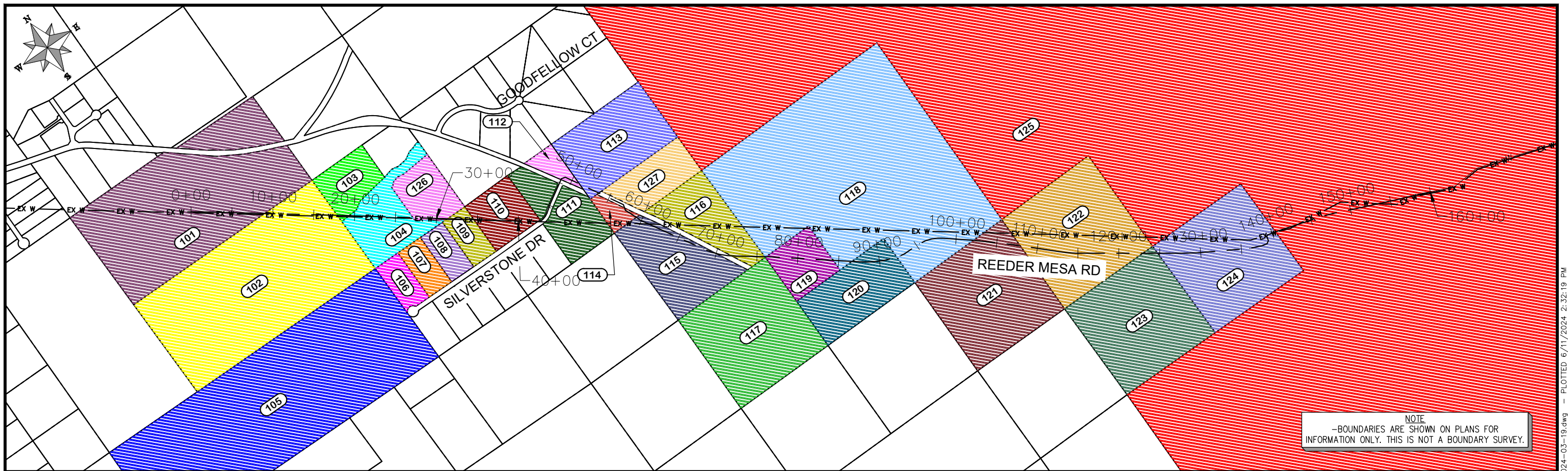
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DESIGNED BY	WC	DATE	2024
CHECKED BY	WC	DATE	2024
APPROVED BY	WC	DATE	2024



PUBLIC WORKS  
ENGINEERING DIVISION  
PROJECT NO. F0006-F000615

2022 PURDY MESA FLOWLINE REPLACEMENT  
CONTROL SHEET - 2  
June 11, 2024

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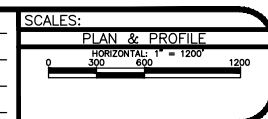
NOTE  
-BOUNDARIES ARE SHOWN ON PLANS FOR INFORMATION ONLY. THIS IS NOT A BOUNDARY SURVEY.

Parcel Table

Parcel Number	Location Address	Owner	Mailing Address
101	2969-181-00-061	LOWDER ROBERT N c/o R N LOWDER	3830 E SHAW CLOVIS, CA 93619
102	2969-184-00-266	QUEEN JAMES PATRICK	2972 G RD GRAND JUNCTION, CO 81504
103	2969-184-05-002	CHEAIRS PHILIP E CHEAIRS LINDA D	
104	2969-184-05-005	MCKAGUE JAMIE	
105	2969-183-00-063	BLM	2815 H RD GRAND JUNCTION, CO 81506
106	2969-184-06-007	EADS RICK G THOMPSON MARY GAYLE	
107	2969-184-06-008	COURTNEY STEPHEN A COURTNEY JENNIFER	
108	2969-184-06-009	HATTER SHELBY C JR HATTER ERIN M	
109	2969-184-06-010	STEVENS LARRY L HAMILTON SHARON A	
110	2969-173-00-047	NOETZEL EVANGELINE LUNDQUIST EDWIN GARY	39756 MUIRFIELD LN NORTHVILLE, MI 48168-3407
111	2969-173-00-390	STATEN MICKEY L	
112	2969-173-00-389	DENT DANIEL S DENT ARLENE	
113	2969-173-00-107	COOPER JOHNNIE E COOPER SUZANNE M	

Parcel Number	Location Address	Owner	Mailing Address
114	2969-173-00-109	MAXWELL JAMES E	
115	2969-202-00-374	GRAND VALLEY RURAL POWER LINES INC	PO BOX 190 GRAND JUNCTION, CO 815020190
116	2969-202-00-373	HICKS LARRY	2998 REEDER MESA RD WHITEWATER, CO 81527-9505
117	2969-202-00-136	NEWBERRY JESSICA MAY NEWBERRY PAUL AUSTIN	76 SAUGHTREE LN
118	2969-201-00-388	WESTERN COLORADO PRECISION MARKSMANSHIP SOC	PO BOX 1 GRAND JUNCTION, CO 81502-0001
119	2969-201-00-046	WESTERN COLORADO PRECISION MARKSMANSHIP SOCIETY	PO BOX 1 GRAND JUNCTION, CO 81502
120	2969-201-00-097	POLOGAR JOSEPH F	704 JASMINE LN GRAND JUNCTION, CO 81506-8343
121	2969-204-00-270	WALSH MICHELLE A	2716 N MCVICKER AVE CHICAGO, IL 60639
122	2969-213-00-131	ALLEN JEFFREY P ALLEN LAURIE A	2825 B RD GRAND JUNCTION, CO 81503
123	2969-213-00-272	MOCTEZUMA JAIME CAMACHO	320 1/2 4TH ST CLIFTON, CO 81520
124	2969-213-00-171	MOCTEZUMA JAIME CAMACHO CAMACHO SUSANA	320 1/2 4TH ST CLIFTON, CO 81520
125	2969-163-00-001	BLM	2815 H RD GRAND JUNCTION, CO 81506
126	2969-184-05-004	AVILA VALENTE	445 LARK DR GRAND JUNCTION, CO 81504-2421
127	2969-173-00-108	HICKS LARRY DEAN	

REVISION	DESCRIPTION	DATE	DRAWN BY	HMC	DATE	2024
REVISION			DESIGNED BY	WC	DATE	2024
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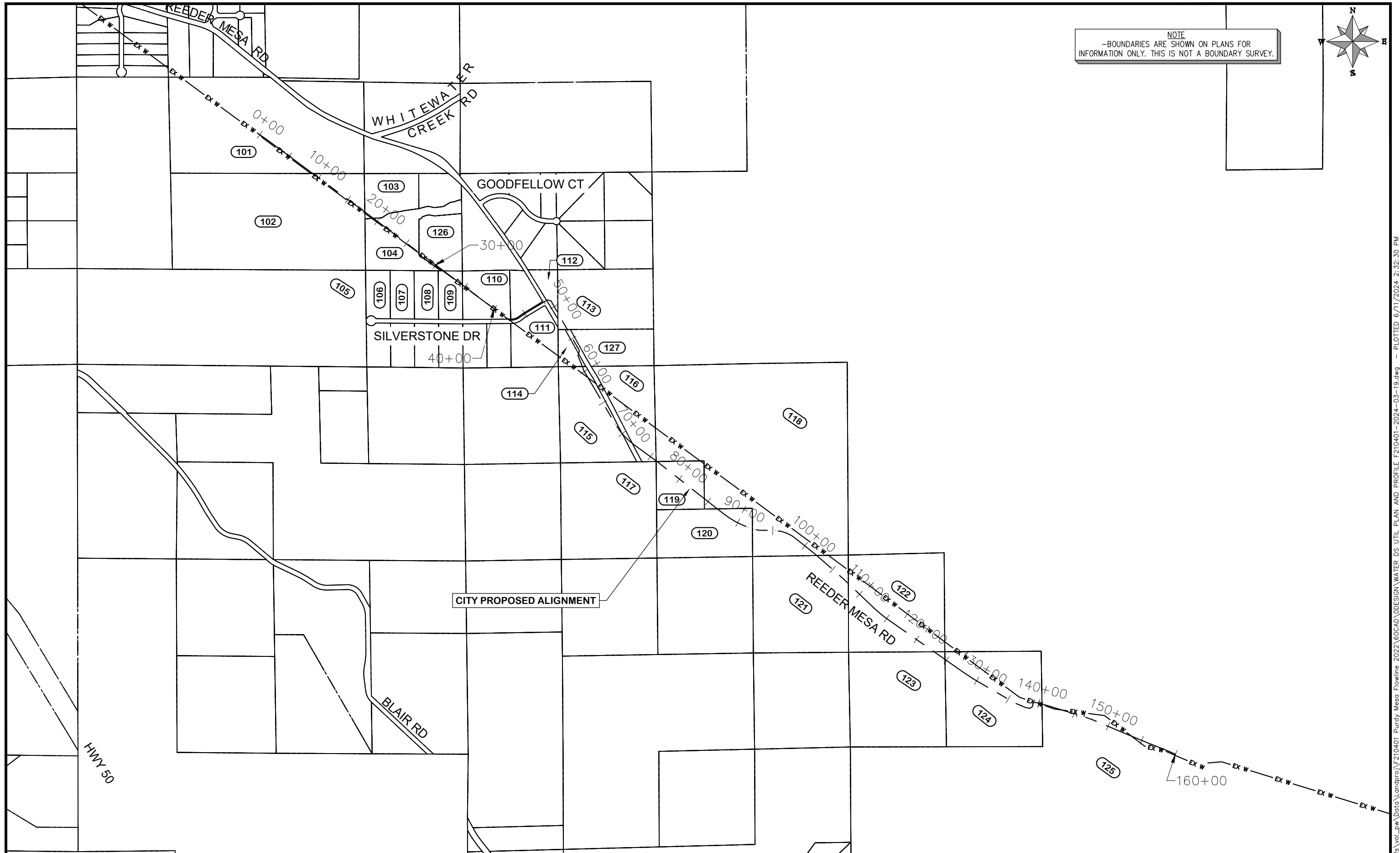
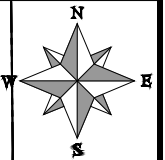
**PUBLIC WORKS  
ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT  
DOWNSTREAM PARCELS**  
June 11, 2024

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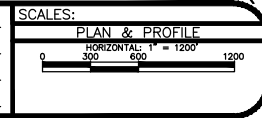


NOTE  
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REVISION	DESCRIPTION	DATE	DRAWN BY	HMC	DATE	2024
REVISION	△		DESIGNED BY	WC	DATE	2024
REVISION	△		CHECKED BY	WC	DATE	2024
REVISION	△		APPROVED BY	WC	DATE	2024

SCALES:	PLAN & PROFILE
HORIZONTAL	1" = 1200'
VERTICAL	1" = 1200'




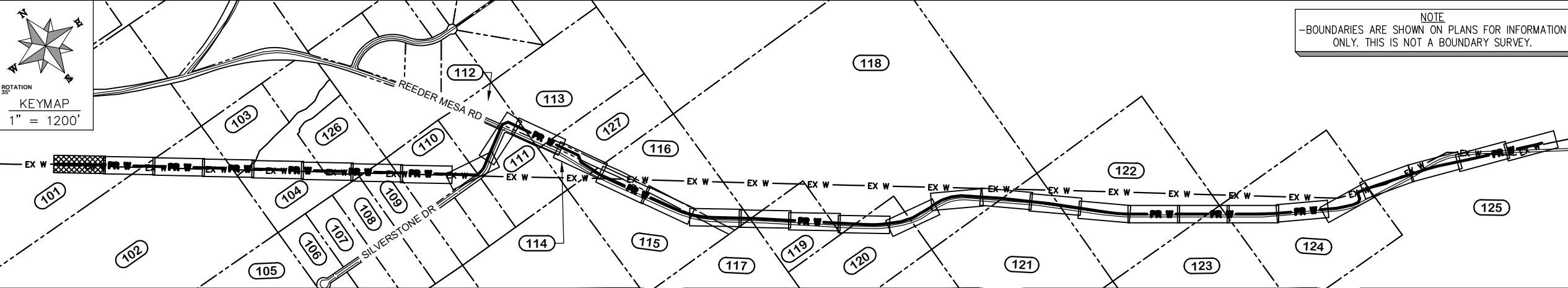
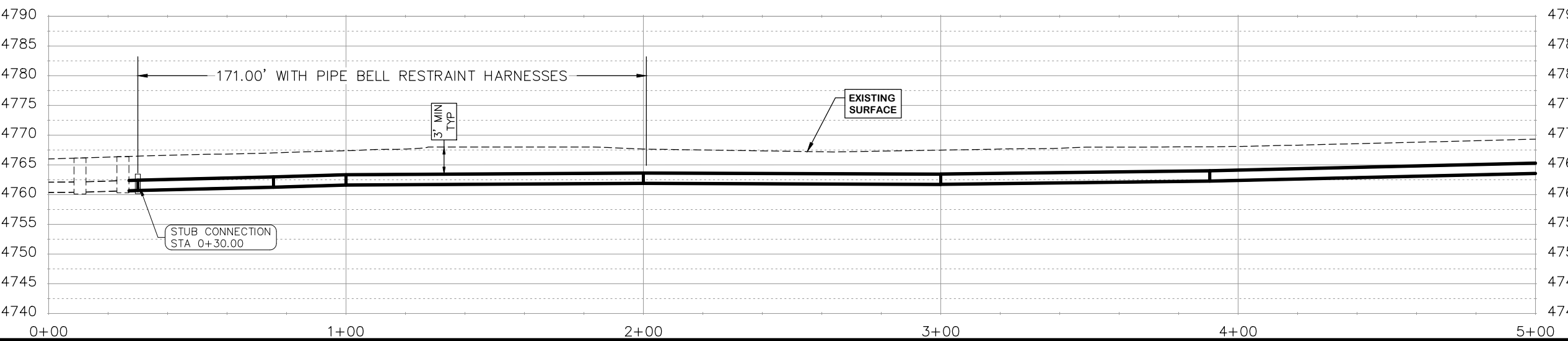
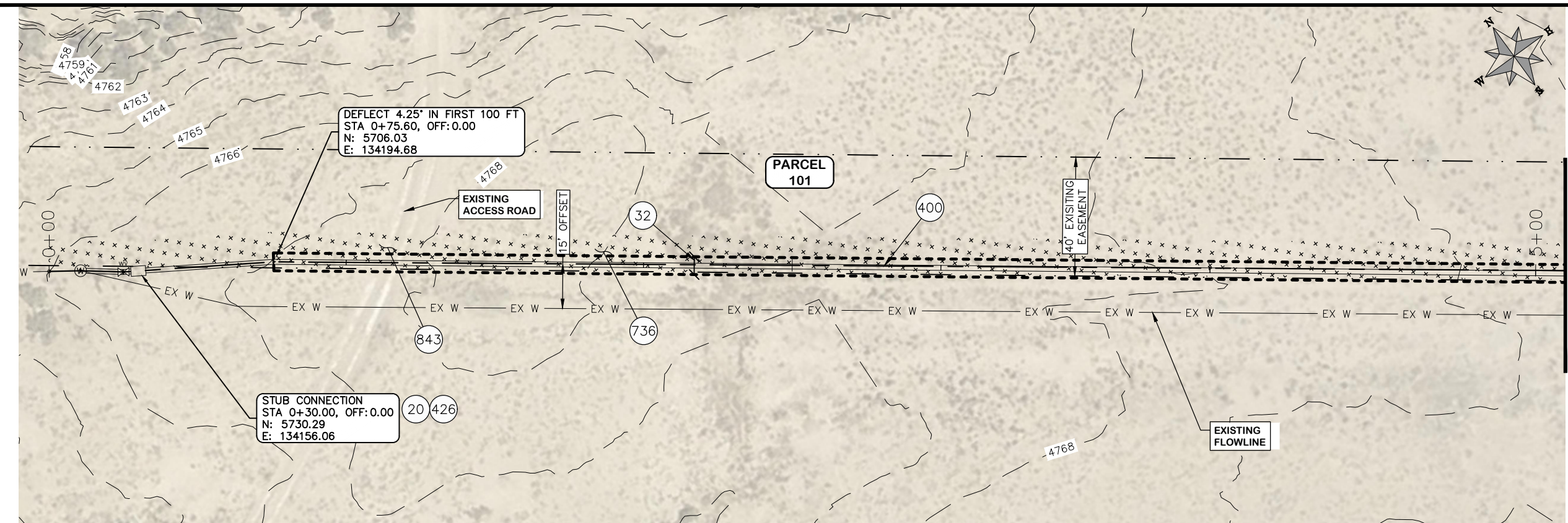
**PUBLIC WORKS  
 ENGINEERING DIVISION**  
 PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT  
 DOWNSTREAM VICINITY MAP**  
 June 11, 2024

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PARCEL TABLE	
101	2969-181-00-061 LOWDER ROBERT N c/o R N LOWDER 3830 E SHAW CLOVIS, CA 93619

- CONSTRUCTION NOTES**
- (20) 202 - ABANDON PIPE. ABANDON PIPE BY CAPPING REMAINING ENDS.
  - (32) 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES).
  - (400) 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - (426) CONNECT TO EXISTING WATER PIPE.
  - (736)  212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEED AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.
  - (843) REPLACE SURFACE IN KIND.



REVISION	DESCRIPTION	DATE
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REVISION Δ		

DRAWN BY	HMC	DATE	2024
DESIGNED BY	WC	DATE	2024
CHECKED BY	WC	DATE	2024
APPROVED BY	WC	DATE	2024

**SCALES:**

PLAN & PROFILE  
HORIZONTAL 1" = 40'

VERTICAL 1" = 20'



**PUBLIC WORKS ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT**  
DOWNSTREAM PLAN AND PROFILE - 1  
June 11, 2024

\\Publicworks-wfs\vol\_pw\landproj\F210401\_Purdy Mesa Flowline 2022\60CAD\DESIGN\WATER DS UTIL PLAN AND PROFILE F210401-2024-03-19.dwg - PLOTTED 6/11/2024 2:33:02 PM

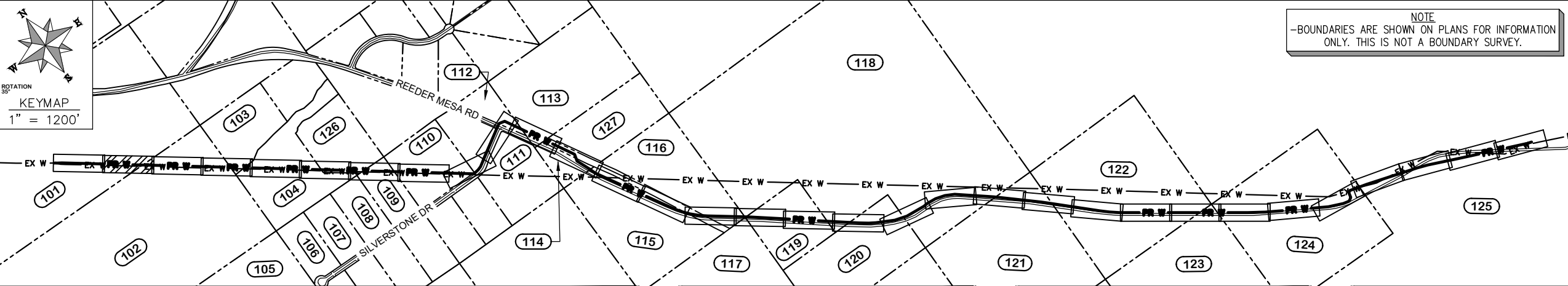
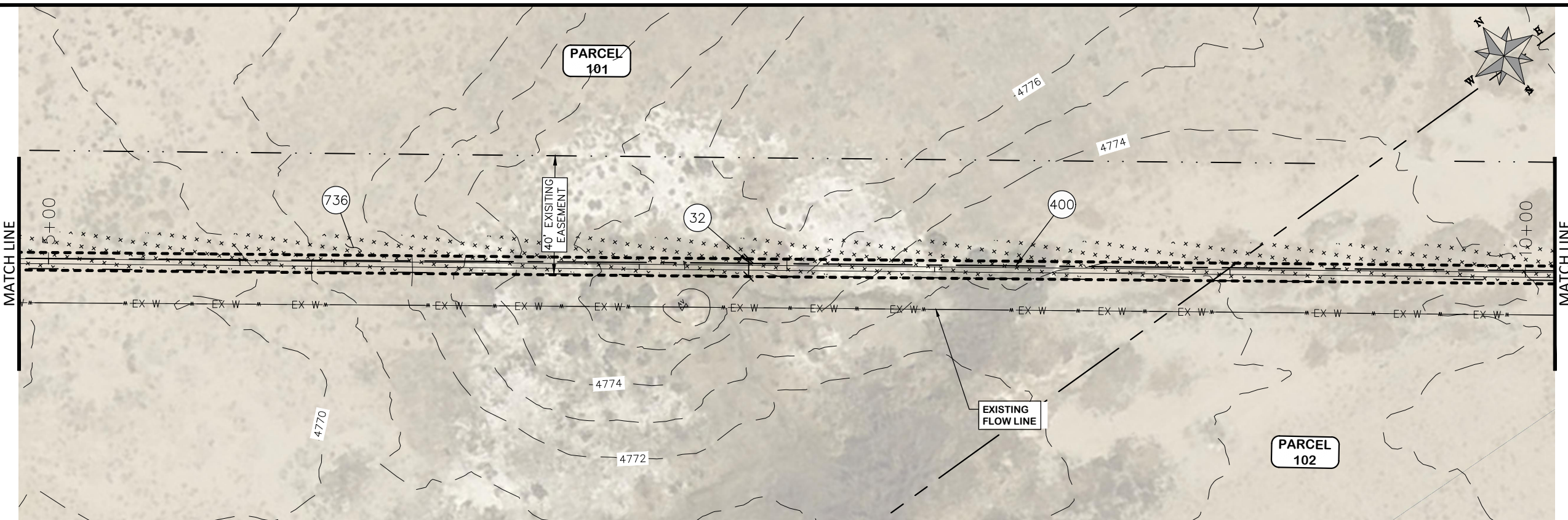


COORDINATES SHOWN IN MCLCS: MESA COUNTY LOCAL COORDINATES SYSTEM

PARCEL TABLE	
101	2969-181-00-061 LOWDER ROBERT N c/o R N LOWDER 3830 E SHAW CLOVIS, CA 93619
102	2969-184-00-266 2291 REEDER MESA RD WHITEWATER, CO 81527 QUEEN JAMES PATRICK 2972 G RD GRAND JUNCTION, CO 81504

CONSTRUCTION NOTES

32	201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
400	102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
736	212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEEDED AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.



REVISION	DESCRIPTION	DATE	DRAWN BY	HMC	DATE	2024
REVISION			DESIGNED BY	WC	DATE	2024
REVISION			CHECKED BY	WC	DATE	2024
REVISION			APPROVED BY	WC	DATE	2024

SCALES:

PLAN & PROFILE  
 HORIZONTAL 1" = 40'  
 VERTICAL 1" = 20'



**PUBLIC WORKS ENGINEERING DIVISION**  
 PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT**  
 DOWNSTREAM PLAN AND PROFILE - 2  
 June 11, 2024

\\Publicworks-wfs\vol\_pw\Data\Landpro\F210401\_Purdy Mesa Flowline 2022\60CAD\DESIGN\WATER DS UTIL PLAN AND PROFILE F210401-2024-03-19.dwg - PLOTTED 6/11/2024 2:33:35 PM

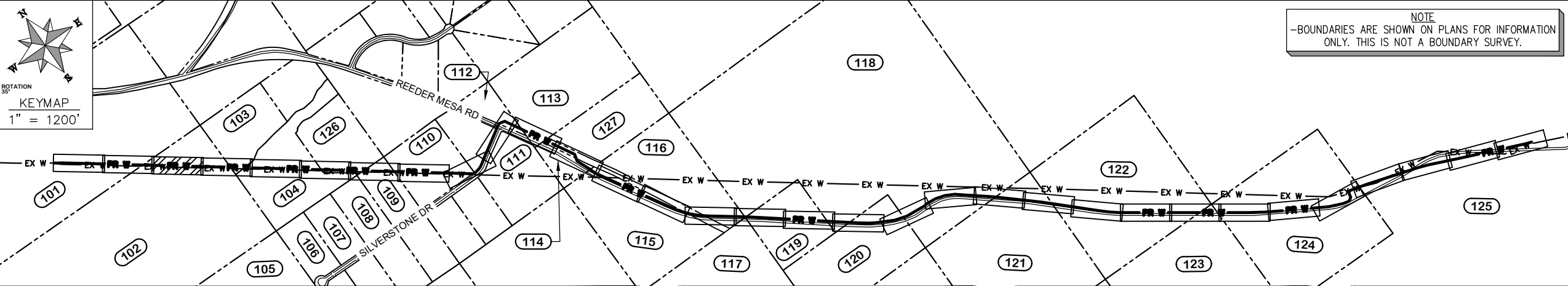
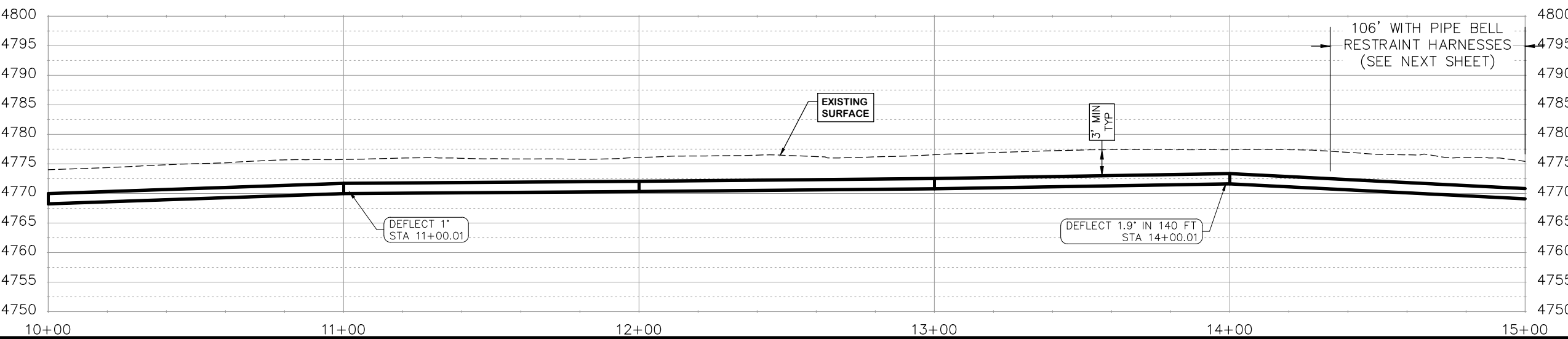
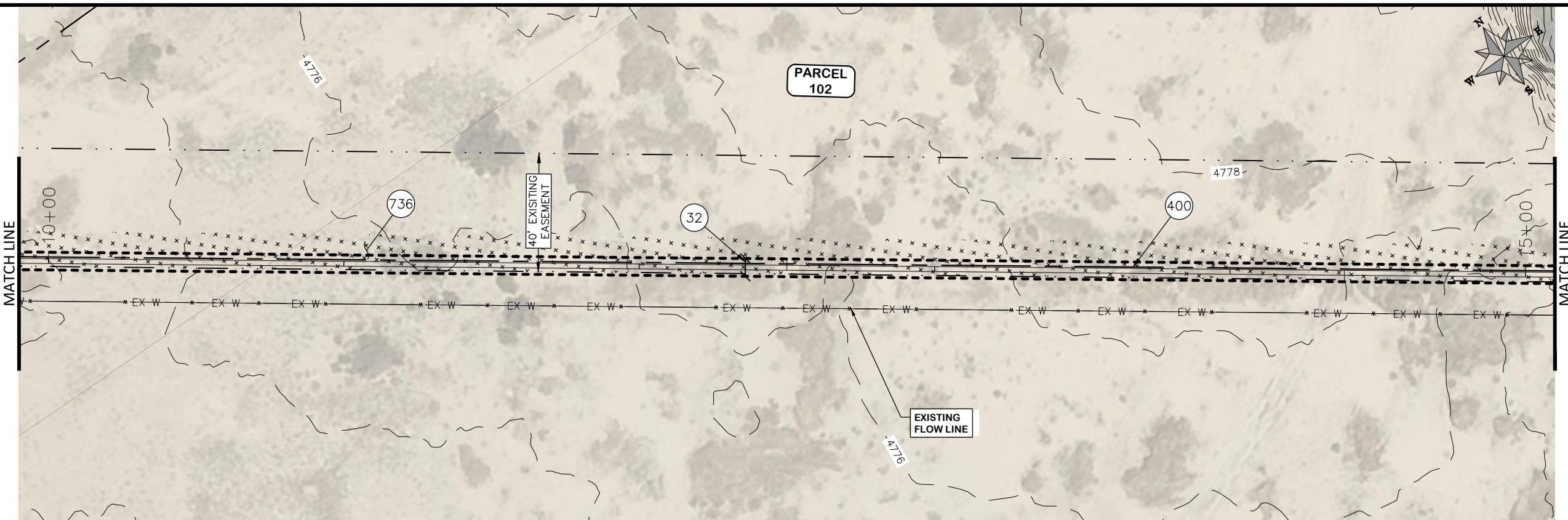


COORDINATES SHOWN IN MCLCS: MESA COUNTY LOCAL COORDINATES SYSTEM

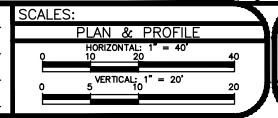
PARCEL TABLE	
102	2969-184-00-266 2291 REEDER MESA RD WHITEWATER, CO 81527 QUEEN JAMES PATRICK 2972 G RD GRAND JUNCTION, CO 81504

CONSTRUCTION NOTES

- 32 201 - CLEARING AND GRUBBING (INCLUDES OF BRUSH AND TREES)
- 400 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 736 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEEDING AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.



REVISION	DESCRIPTION	DATE	DRAWN BY	HMC	DATE	2024
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REVISION			CHECKED BY	WC	DATE	2024
REVISION			APPROVED BY	WC	DATE	2024

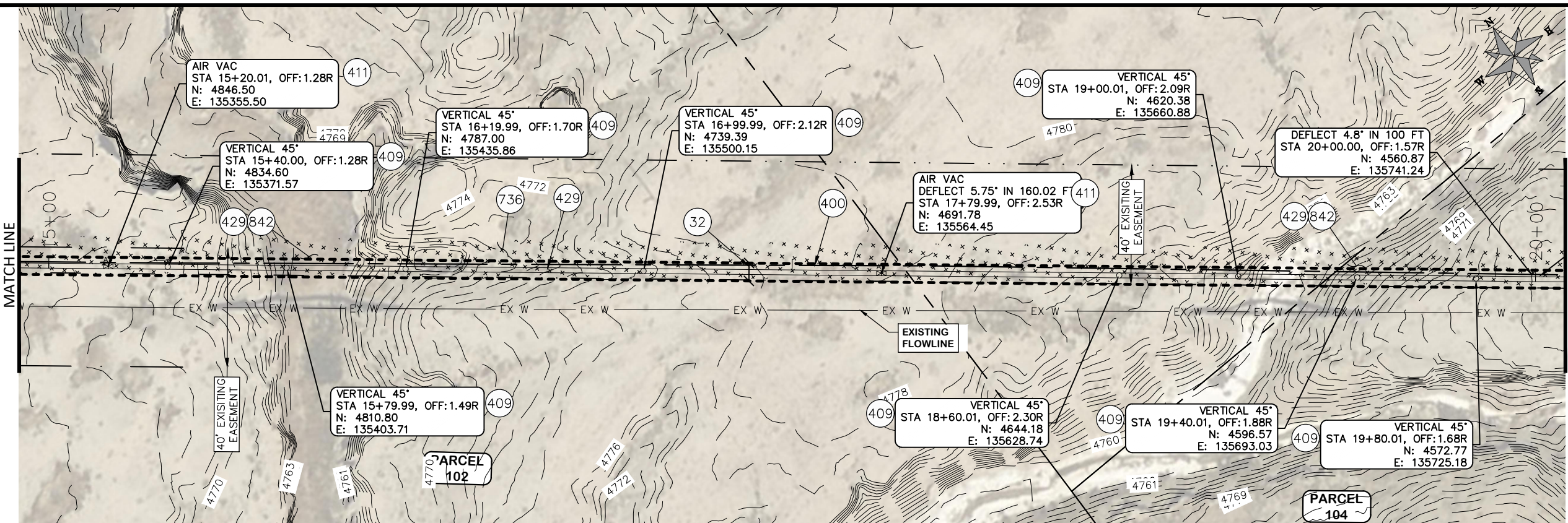


PUBLIC WORKS  
ENGINEERING DIVISION  
PROJECT NO. F0006-F000615

2022 PURDY MESA FLOWLINE REPLACEMENT  
DOWNSTREAM PLAN AND PROFILE - 3  
June 11, 2024

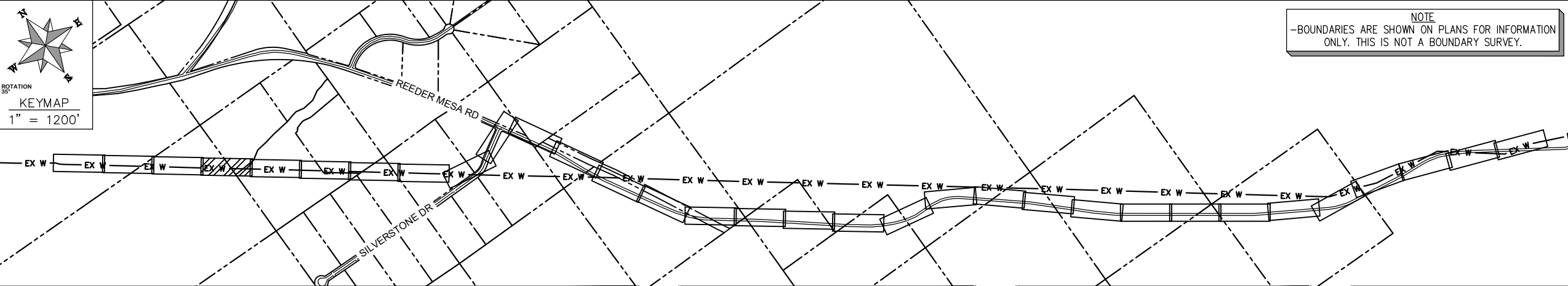
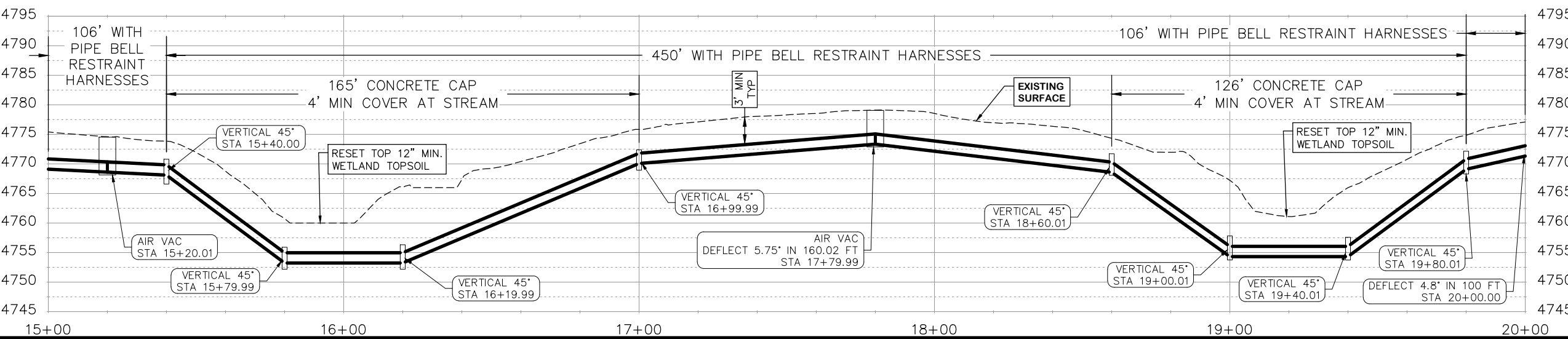
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PARCEL TABLE	
102	2969-184-00-266 2291 REEDER MESA RD WHITEWATER, CO 81527 QUEEN JAMES PATRICK 2972 G RD GRAND JUNCTION, CO 81504
103	2969-184-05-002 2605 REEDER MESA RD WHITEWATER, CO 81527 CHEAIRS PHILIP E CHEAIRS LINDA D
104	2969-184-05-005 2609 REEDER MESA RD WHITEWATER, CO 81527 MCKAGUE JAMIE

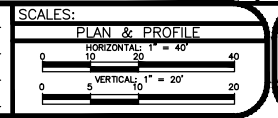
- CONSTRUCTION NOTES**
- 32 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
  - 400 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
  - 411 102.8g/102.8h/108.3 - 6" AIR VALVE & VAULT
  - 429 ENCASE TOP HALF OF WATER LINE IN CONCRETE PER WATER LINE CONCRETE CAP DETAIL AT WATERWAY CROSSINGS.
  - 736 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEEDED AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.
  - 842 IN WETLAND AREAS AND STREAM CROSSINGS REMOVE THE TOP 2 FEET OF TOPSOIL AND STOCKPILE SEPARATELY. CAP THE TRENCH BACKFILL USING THIS TOPSOIL (12 INCHES MINIMUM THICKNESS).



**NOTE**  
-BOUNDARIES ARE SHOWN ON PLANS FOR INFORMATION ONLY. THIS IS NOT A BOUNDARY SURVEY.

**NOTE**  
-ASSUMPTION OF 1" DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE	DRAWN BY	HMC	DATE	2024
REVISION			DESIGNED BY	WC	DATE	2024
REVISION			CHECKED BY	WC	DATE	2024
REVISION			APPROVED BY	WC	DATE	2024

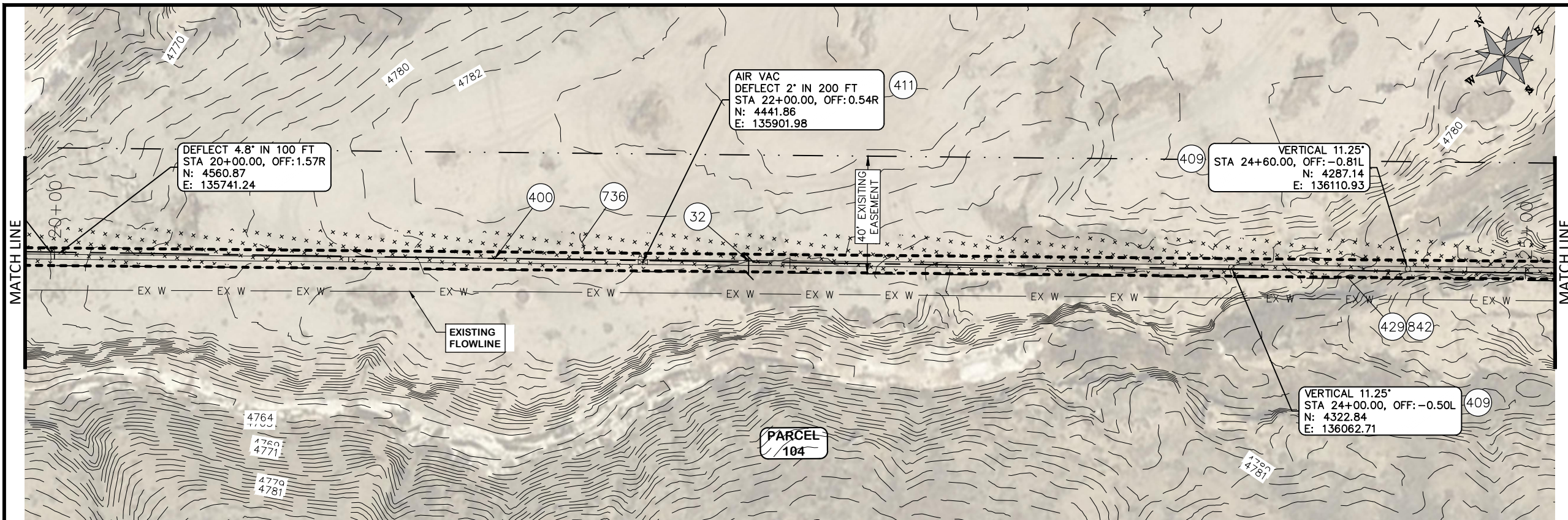


**PUBLIC WORKS ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT**  
DOWNSTREAM PLAN AND PROFILE - 4  
June 11, 2024

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COORDINATES SHOWN IN MCLCS: MESA COUNTY LOCAL COORDINATES SYSTEM

PARCEL TABLE	
104	2969-184-05-005 2609 REEDER MESA RD WHITEWATER, CO 81527 MCKAGUE JAMIE

**CONSTRUCTION NOTES**

(32) 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)

(400) 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.

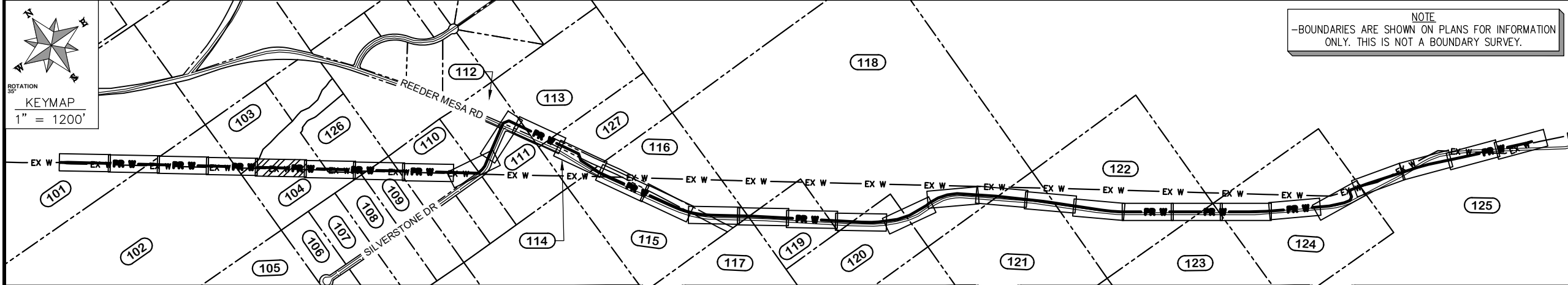
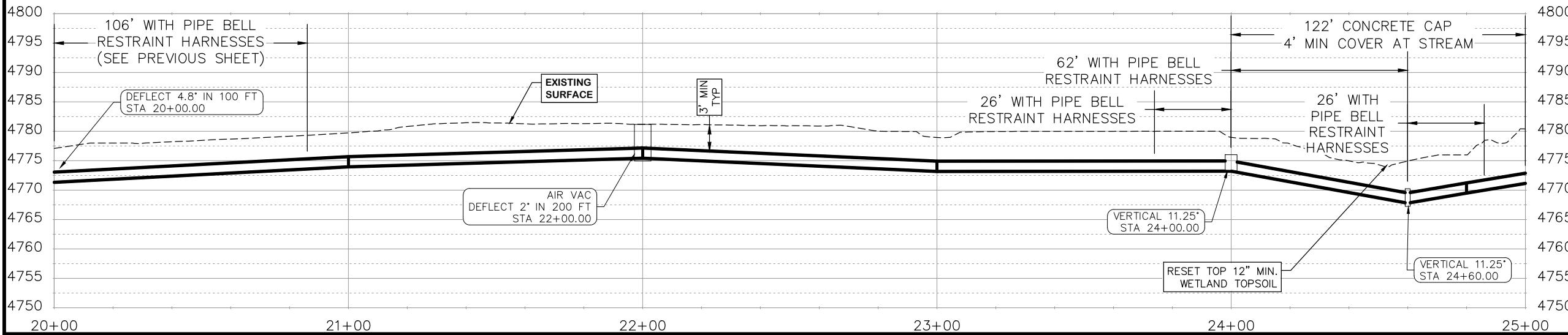
(409) 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)

(411) 102.8g/102.8h/108.3 - 6" AIR VALVE & VAULT

(429) ENCASE TOP HALF OF WATER LINE IN CONCRETE PER WATER LINE CONCRETE CAP DETAIL AT WATERWAY CROSSINGS.

(736) 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEEDED AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.

(842) IN WETLAND AREAS AND STREAM CROSSINGS REMOVE THE TOP 2 FEET OF TOPSOIL AND STOCKPILE SEPARATELY. CAP THE TRENCH BACKFILL USING THIS TOPSOIL (12 INCHES MINIMUM THICKNESS).



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
△			HMC	2024
△			WC	2024
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△			WC	2024

SCALES:

PLAN & PROFILE  
HORIZONTAL 1" = 40'  
VERTICAL 1" = 20'

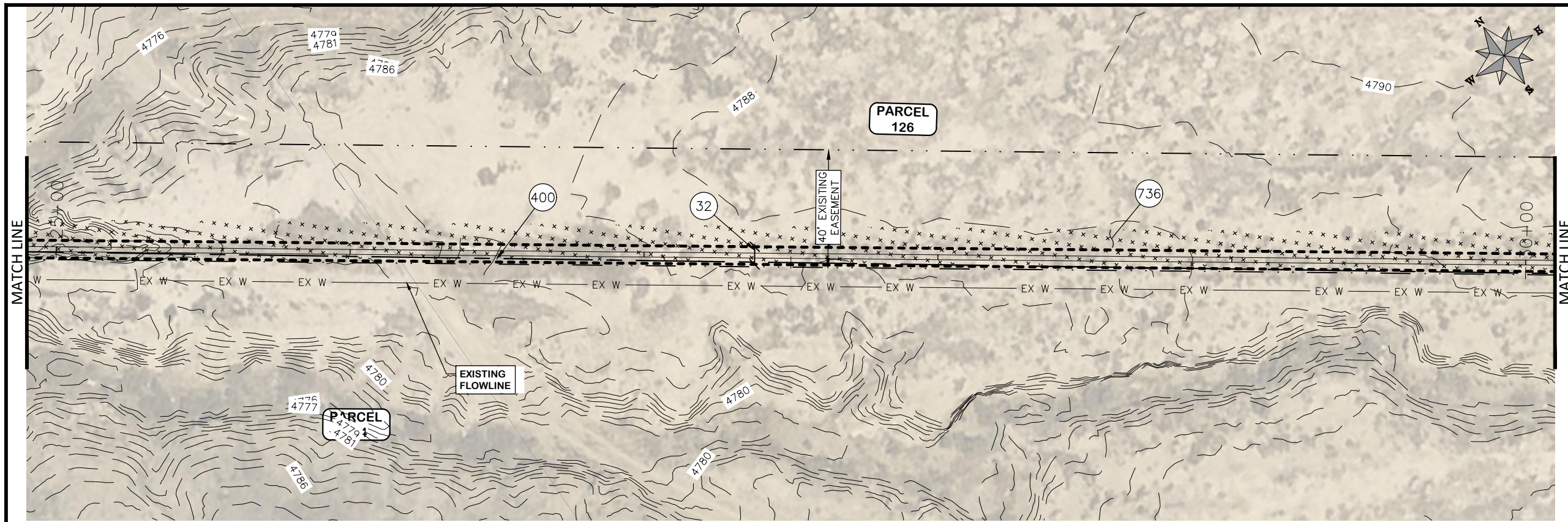


**PUBLIC WORKS ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT**  
DOWNSTREAM PLAN AND PROFILE - 5  
June 11, 2024

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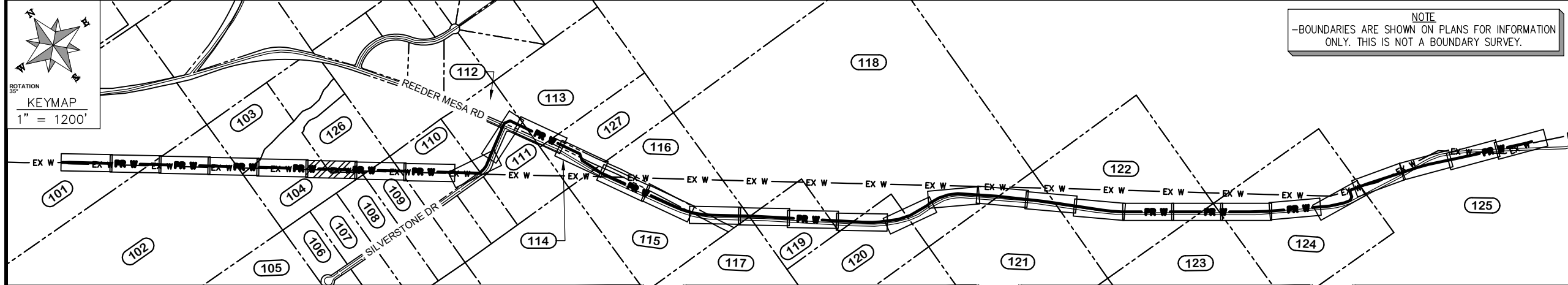
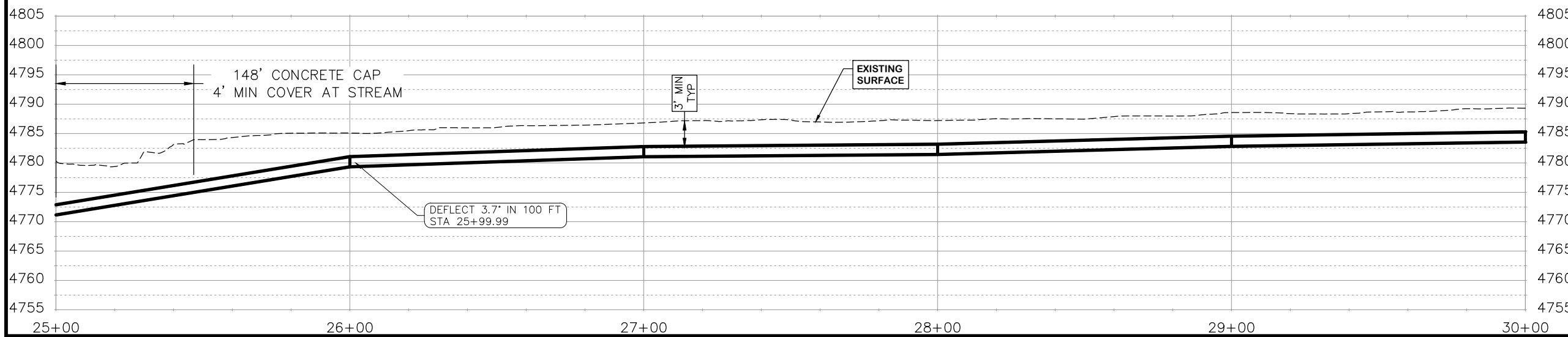


COORDINATES SHOWN IN MCLCS: MESA COUNTY LOCAL COORDINATES SYSTEM

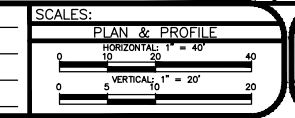
PARCEL TABLE	
104	2969-184-05-005 2609 REEDER MESA RD WHITEWATER, CO 81527 MCKAGUE JAMIE
126	2611 REEDER MESA RD WHITEWATER, CO 81527 AVILA VALENTE 445 LARK DR GRAND JUNCTION, CO 81504-2421

CONSTRUCTION NOTES

- 32 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
- 400 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 429 ENCASE TOP HALF OF WATER LINE IN CONCRETE PER WATER LINE CONCRETE CAP DETAIL AT WATERWAY CROSSINGS.
- 736 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEED AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.



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REVISION			CHECKED BY	WC	DATE	2024
REVISION			APPROVED BY	WC	DATE	2024



**PUBLIC WORKS  
ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT  
DOWNSTREAM PLAN AND PROFILE - 6**  
June 11, 2024

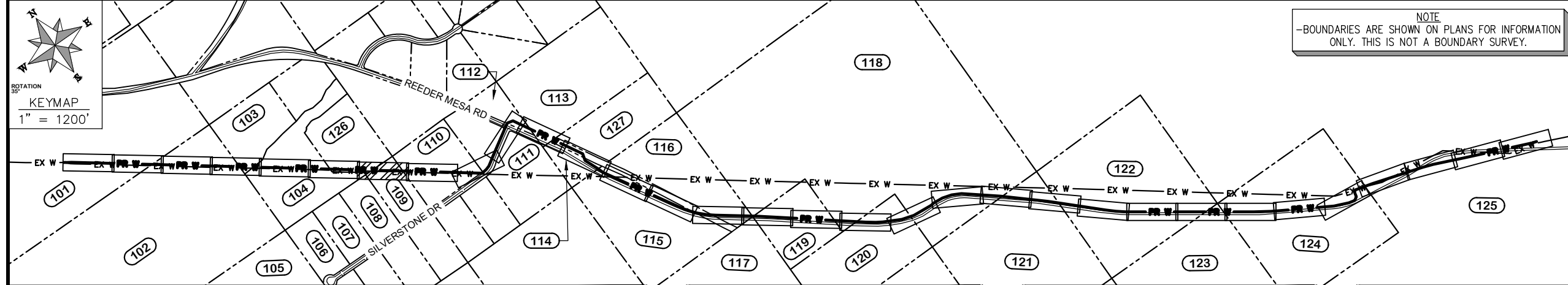
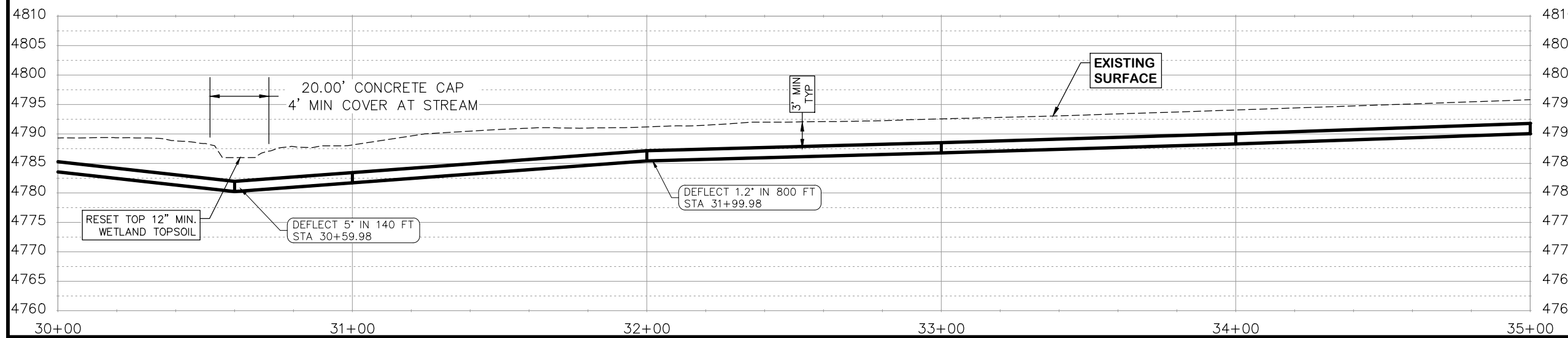
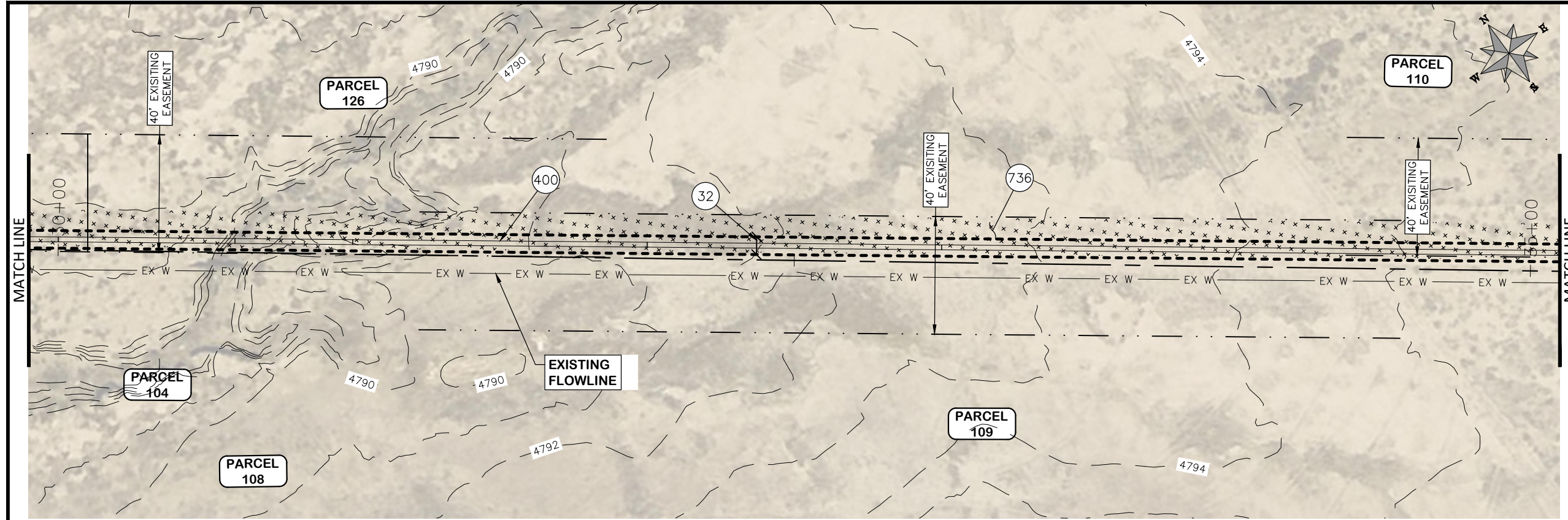
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PARCEL TABLE		7
104	2969-184-05-005 2609 REEDER MESA RD WHITEWATER, CO 81527 MCKAGUE JAMIE	
108	2969-184-06-009 3492 SILVERSTONE DR WHITEWATER, CO 81527 HATTER SHELBY C JR HATTER ERIN M	
109	2969-184-06-010 3498 SILVERSTONE DR WHITEWATER, CO 81527-8901 STEVENS LARRY L HAMILTON SHARON A	
110	2969-173-00-047 3506 SILVERSTONE DR WHITEWATER, CO 81527 NOETZEL EVANGELINE LUNDQUIST EDWIN GARY 39756 MUIRFIELD LN NORTHVILLE, MI 48168-3407	
126	2611 REEDER MESA RD WHITEWATER, CO 81527 AVILA VALENTE 445 LARK DR GRAND JUNCTION, CO 81504-2421	

CONSTRUCTION NOTES	
32	201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
400	102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
429	ENCASE TOP HALF OF WATER LINE IN CONCRETE PER WATER LINE CONCRETE CAP DETAIL AT WATERWAY CROSSINGS.
736	212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEED AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.



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△			WC	2024

REVISION	DESCRIPTION	DATE	APPROVED BY	DATE
△			WC	2024
△			WC	2024
△			WC	2024
△			WC	2024

SCALES:	
PLAN & PROFILE	
HORIZONTAL	1" = 40'
VERTICAL	1" = 20'



**PUBLIC WORKS ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

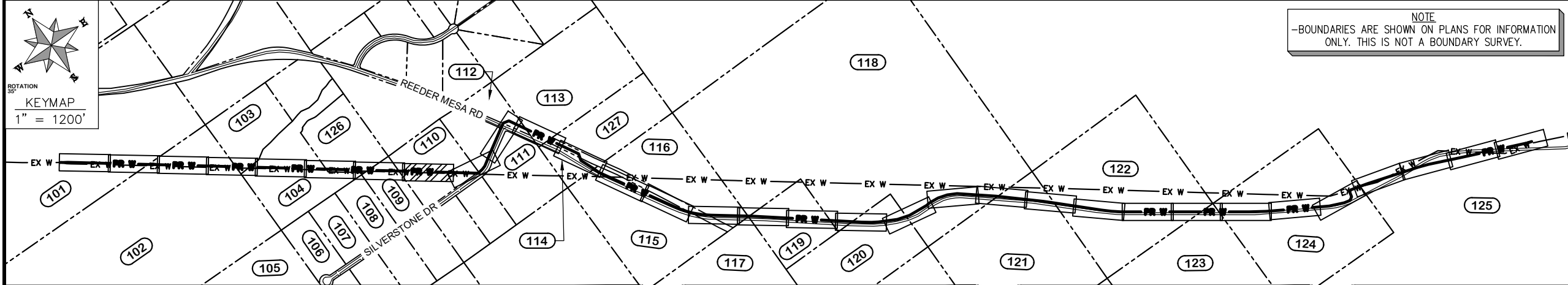
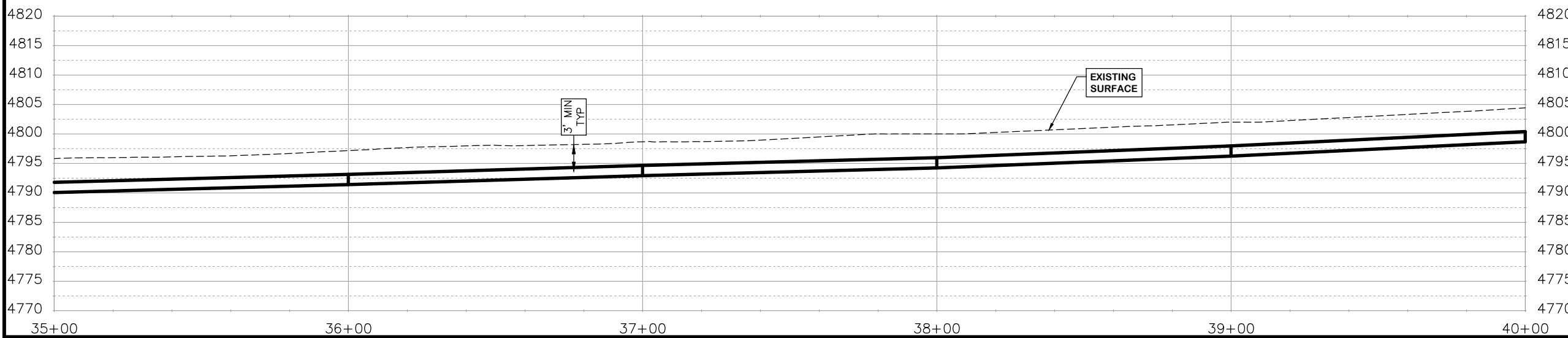
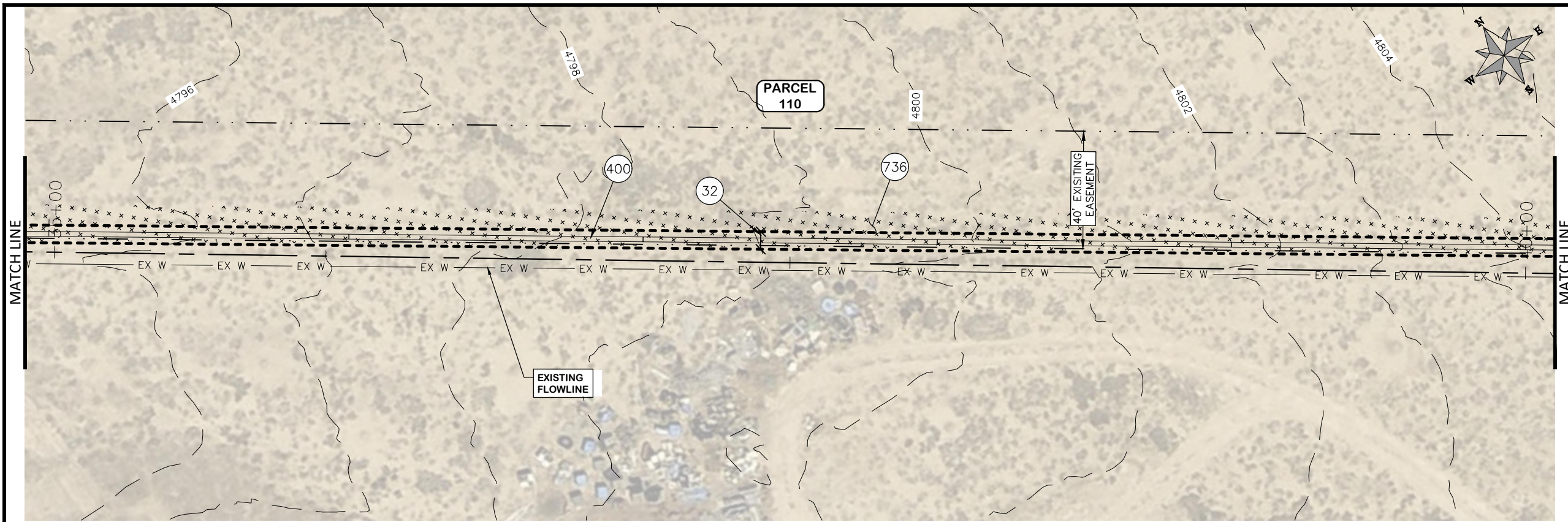
**2022 PURDY MESA FLOWLINE REPLACEMENT**  
**DOWNSTREAM PLAN AND PROFILE - 7**  
June 11, 2024

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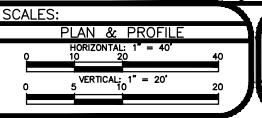
PARCEL TABLE	
110	2969-173-00-047 3506 SILVERSTONE DR WHITEWATER, CO 81527 NOETZEL EVANGELINE LUNDQUIST EDWIN GARY 39756 MUIRFIELD LN NORTHVILLE, MI 48168-3407

- CONSTRUCTION NOTES**
- 32 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
  - 400 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 736 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEEDED AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.



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REVISION			DESIGNED BY	WC	DATE	2024
REVISION			CHECKED BY	WC	DATE	2024
REVISION			APPROVED BY	WC	DATE	2024

SCALES:	
PLAN & PROFILE	HORIZONTAL 1" = 40'
	VERTICAL 1" = 20'



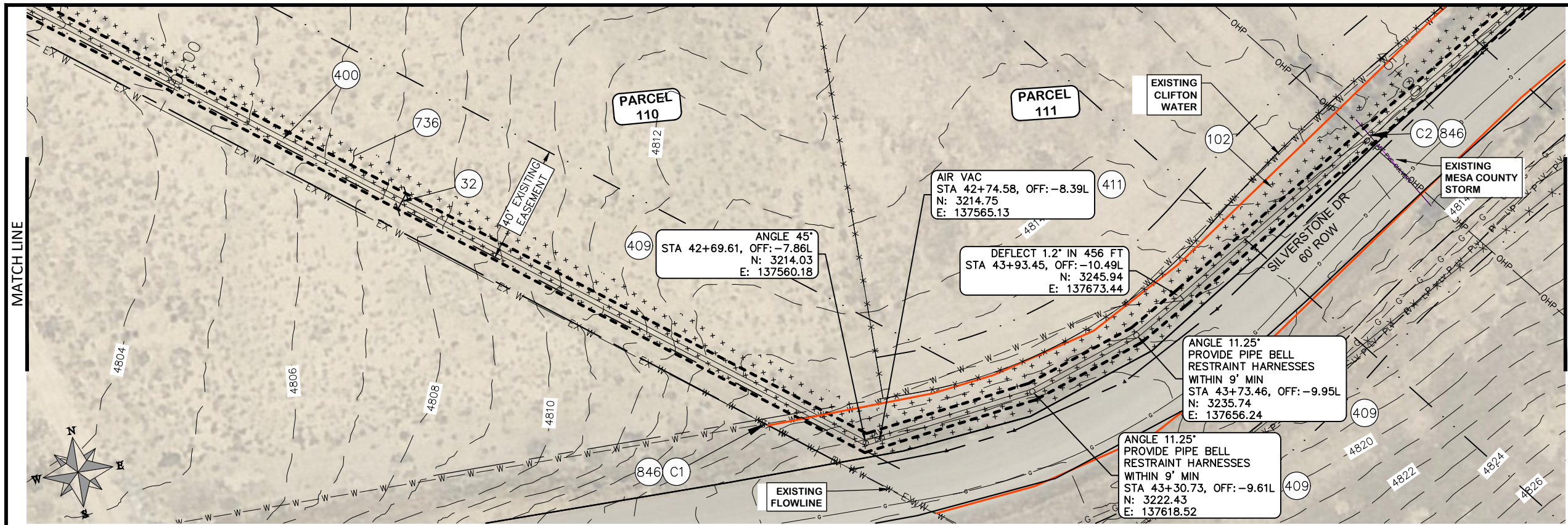
**CITY OF Grand Junction**  
COLORADO

**PUBLIC WORKS ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT**  
**DOWNSTREAM PLAN AND PROFILE - 8**  
June 11, 2024

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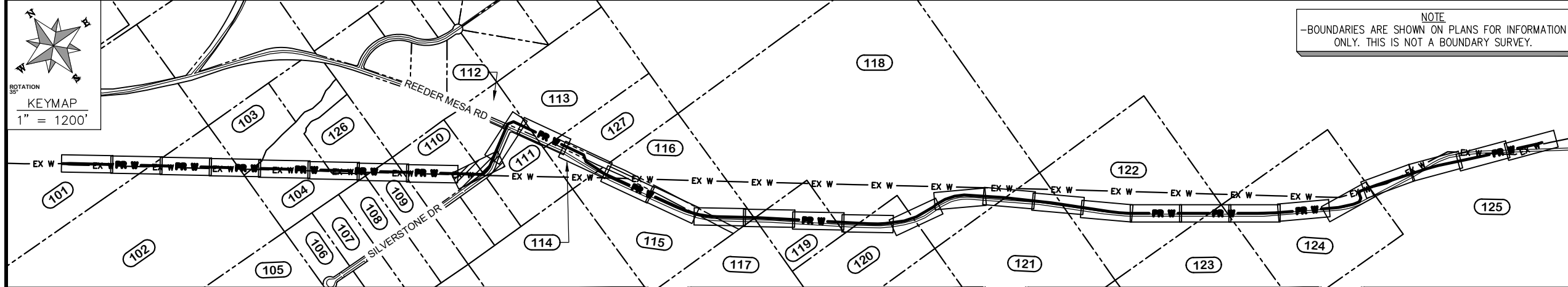
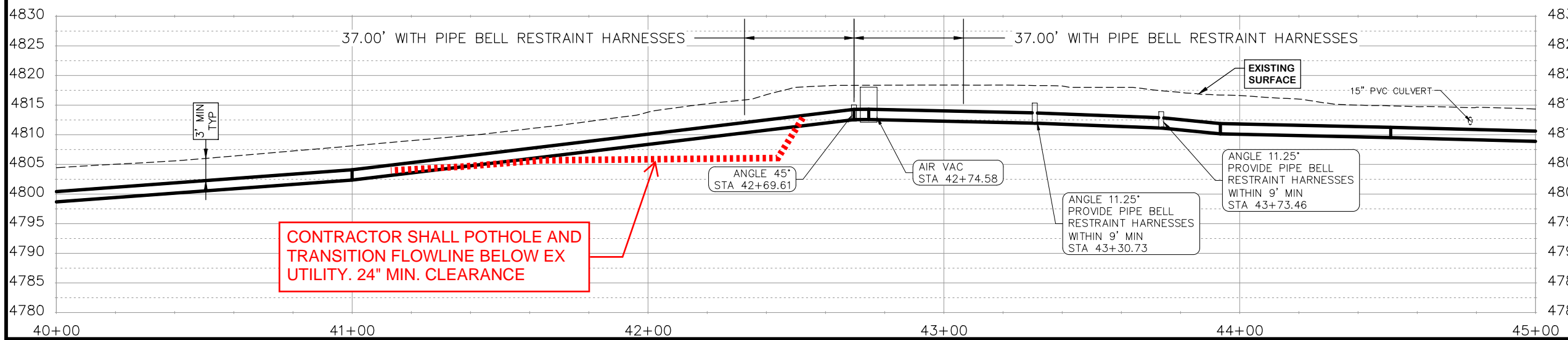


COORDINATES SHOWN IN MCLCS: MESA COUNTY LOCAL COORDINATES SYSTEM

PARCEL TABLE	
110	2969-173-00-047 3506 SILVERSTONE DR WHITEWATER, CO 81527 NOETZEL EVANGELINE LUNDQUIST EDWIN GARY 39756 MUIRFIELD LN NORTHVILLE, MI 48168-3407
111	2969-173-00-390 3513 SILVERSTONE DR WHITEWATER, CO 81527-8901 STATEN MICKEY L

CONSTRUCTION NOTES

- 32 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
- 102 210 - RESET FENCE. (HEIGHT & MATERIAL IN KIND)
- 400 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- 411 102.8g/102.8h/108.3 - 6" AIR VALVE & VAULT
- 429 ENCASE TOP HALF OF WATER LINE IN CONCRETE PER WATER LINE CONCRETE CAP DETAIL AT WATERWAY CROSSINGS.
- 736 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEED AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.
- 846 AT THE BEGINNING OF THE PROJECT AND PRIOR TO WATERLINE CONSTRUCTION, CONTRACTOR SHALL POTHOLE EXISTING UTILITIES TO VERIFY DEPTH AND BEARING. CONTRACTOR SHALL TRANSITION WATER PIPE AS NEEDED TO MAINTAIN 24" CLEARANCE MINIMUM ABOVE OR BELOW OTHER UTILITIES.



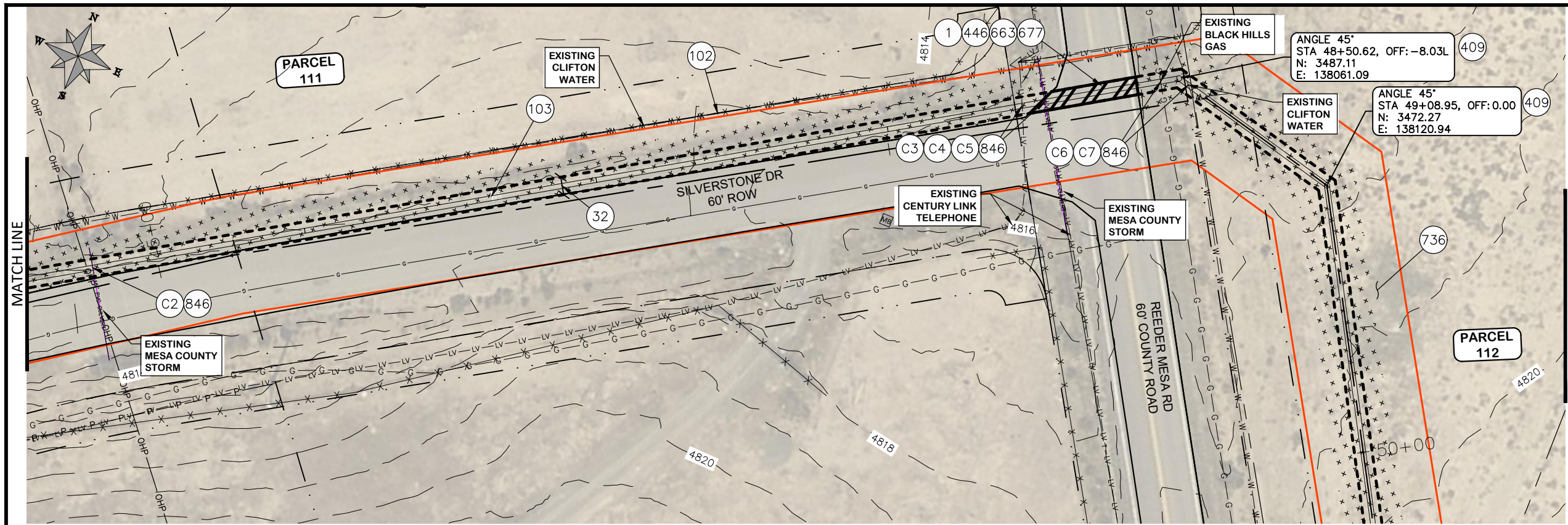
REVISION	DESCRIPTION	DATE	DRAWN BY	HMC	DATE	2024
REVISION			DESIGNED BY	WC	DATE	2024
REVISION			CHECKED BY	WC	DATE	2024
REVISION			APPROVED BY	WC	DATE	2024



**PUBLIC WORKS  
ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT  
DOWNSTREAM PLAN AND PROFILE - 9**  
June 11, 2024

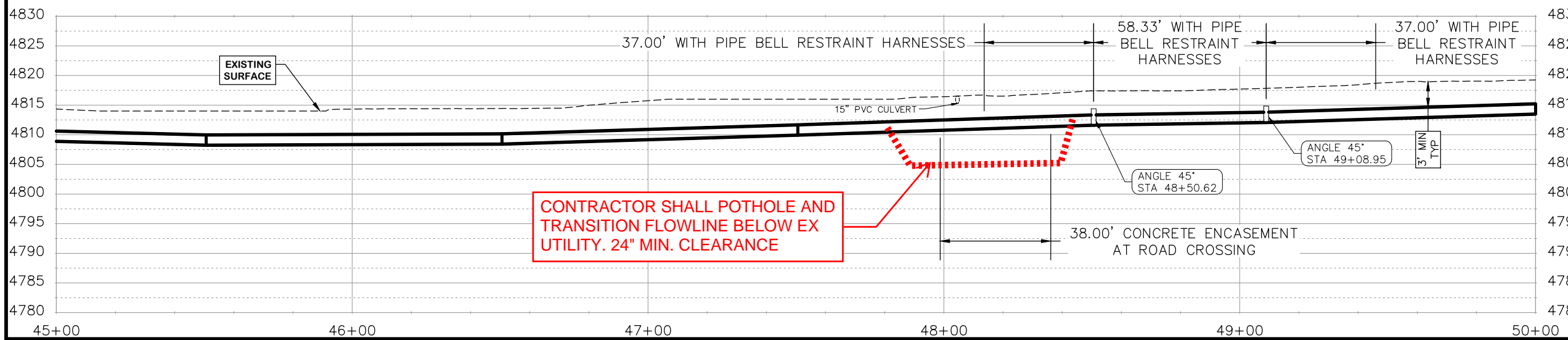




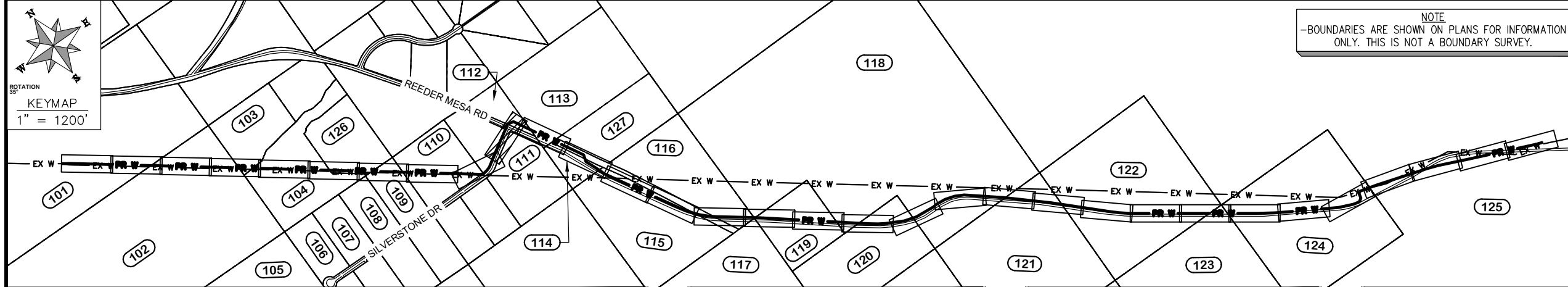
COORDINATES SHOWN IN MCLCS: MESA COUNTY LOCAL COORDINATES SYSTEM

PARCEL TABLE	
111	2969-173-00-390 3513 SILVERSTONE DR WHITEWATER, CO 81527-8901 STATEN MICKEY L
112	2969-173-00-389 2858 REEDER MESA RD WHITEWATER, CO 81527 DENT DANIEL S DENT ARLENE

- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT & REMOVE ASPHALT AS SHOWN. (INDICATED BY CROSS HATCH PATTERN)
  - 32 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
  - 102 210 - RESET FENCE. (HEIGHT & MATERIAL IN KIND)
  - 109 210 - RESET GATE (HEIGHT, WIDTH, & MATERIAL IN KIND)
  - 400 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
  - 446 ROAD CROSSING - SEE T-TOP DETAIL SHEET 5.
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (2" LIFT OVER 3" LIFT)
  - 736 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEED AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.
  - 846 AT THE BEGINNING OF THE PROJECT AND PRIOR TO WATERLINE CONSTRUCTION, CONTRACTOR SHALL POTHOLE EXISTING UTILITIES TO VERIFY DEPTH AND BEARING. CONTRACTOR SHALL TRANSITION WATER PIPE AS NEEDED TO MAINTAIN 24" CLEARANCE MINIMUM ABOVE OR BELOW OTHER UTILITIES.



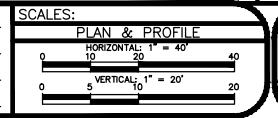
**CONTRACTOR SHALL POTHOLE AND TRANSITION FLOWLINE BELOW EX UTILITY. 24" MIN. CLEARANCE**



**NOTE**  
-BOUNDARIES ARE SHOWN ON PLANS FOR INFORMATION ONLY. THIS IS NOT A BOUNDARY SURVEY.

**NOTE**  
-ASSUMPTION OF 1" DEFLECTION IN PIPE JOINT

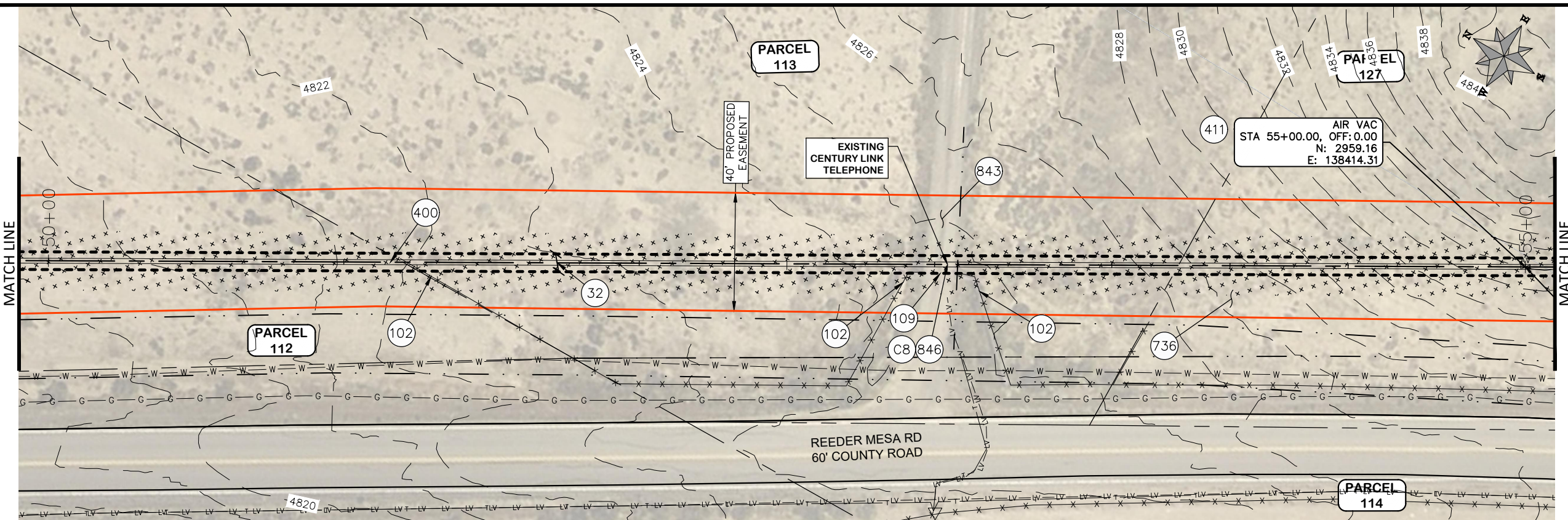
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REVISION			DESIGNED BY	WC	DATE	2024
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REVISION			APPROVED BY	WC	DATE	2024



**PUBLIC WORKS ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

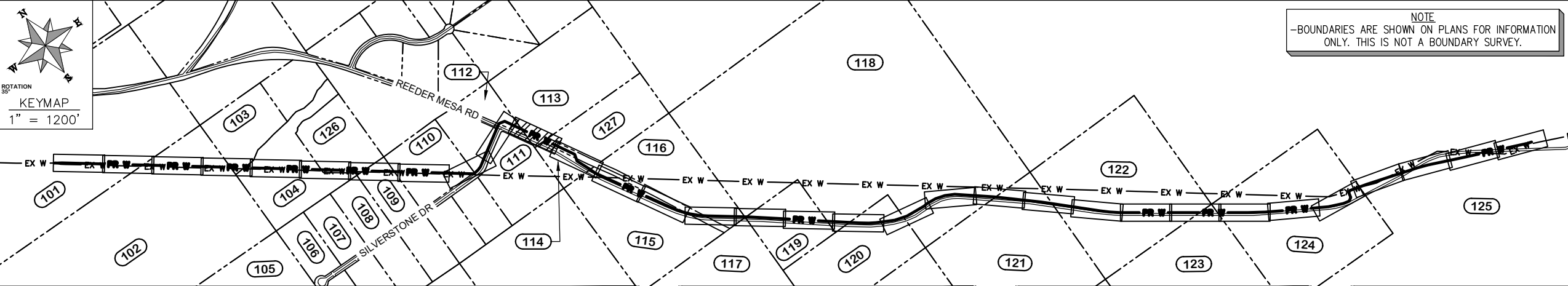
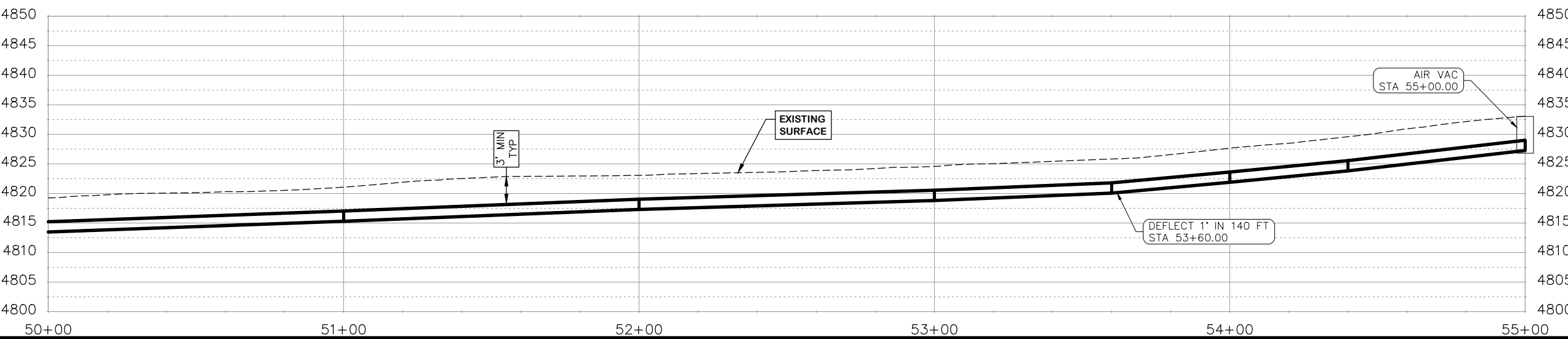
**2022 PURDY MESA FLOWLINE REPLACEMENT**  
**DOWNSTREAM PLAN AND PROFILE - 10**  
June 11, 2024





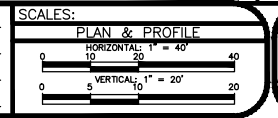
PARCEL TABLE	
(112)	2969-173-00-389 2858 REEDER MESA RD WHITEWATER, CO 81527 DENT DANIEL S DENT ARLENE
(113)	2969-173-00-107 2960 REEDER MESA RD WHITEWATER, CO 81527-9505 COOPER JOHNNIE E COOPER SUZANNE M
(114)	2969-173-00-109 2991 REEDER MESA RD WHITEWATER, CO 81527-9506 MAXWELL JAMES E
(127)	2998 REEDER MESA RD WHITEWATER, CO 81527-9505 HICKS LARRY DEAN

- CONSTRUCTION NOTES**
- (32) 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
  - (102) 210 - RESET FENCE. (HEIGHT & MATERIAL IN KIND)
  - (109) 210 - RESET GATE (HEIGHT, WIDTH, & MATERIAL IN KIND)
  - (400) 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - (736) 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEEDING AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.
  - (843) REPLACE SURFACE IN KIND.
  - (846) AT THE BEGINNING OF THE PROJECT AND PRIOR TO WATERLINE CONSTRUCTION, CONTRACTOR SHALL POTHOLE EXISTING UTILITIES TO VERIFY DEPTH AND BEARING. CONTRACTOR SHALL TRANSITION WATER PIPE AS NEEDED TO MAINTAIN 24" CLEARANCE MINIMUM ABOVE OR BELOW OTHER UTILITIES.



REVISION	DESCRIPTION	DATE
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DRAWN BY	HMC	DATE	2024
DESIGNED BY	WC	DATE	2024
CHECKED BY	WC	DATE	2024
APPROVED BY	WC	DATE	2024

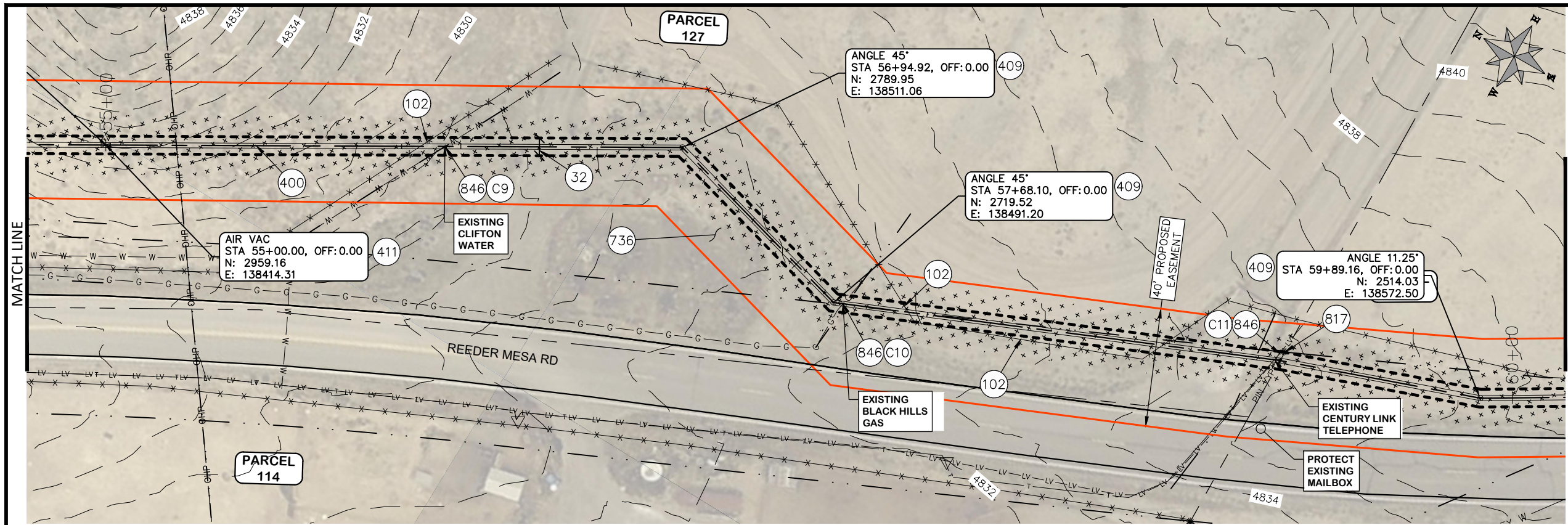


**PUBLIC WORKS ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT**  
**DOWNSTREAM PLAN AND PROFILE - 11**  
June 11, 2024

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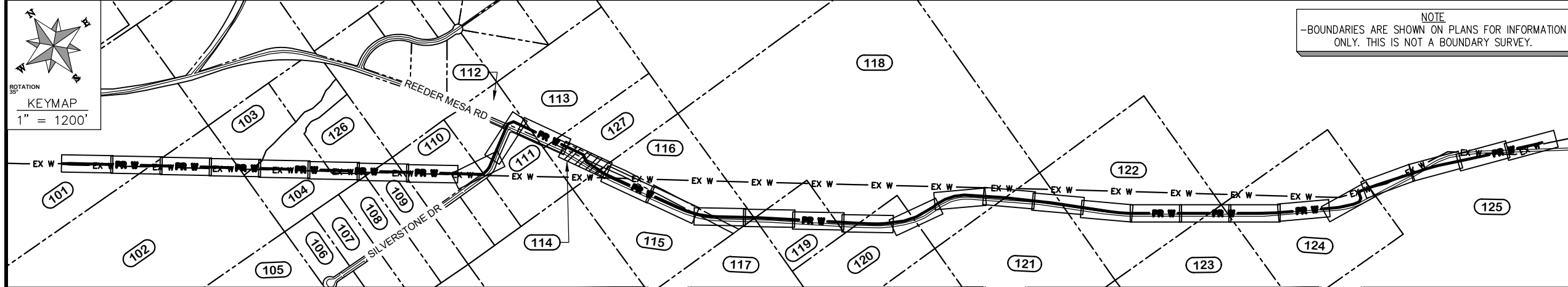
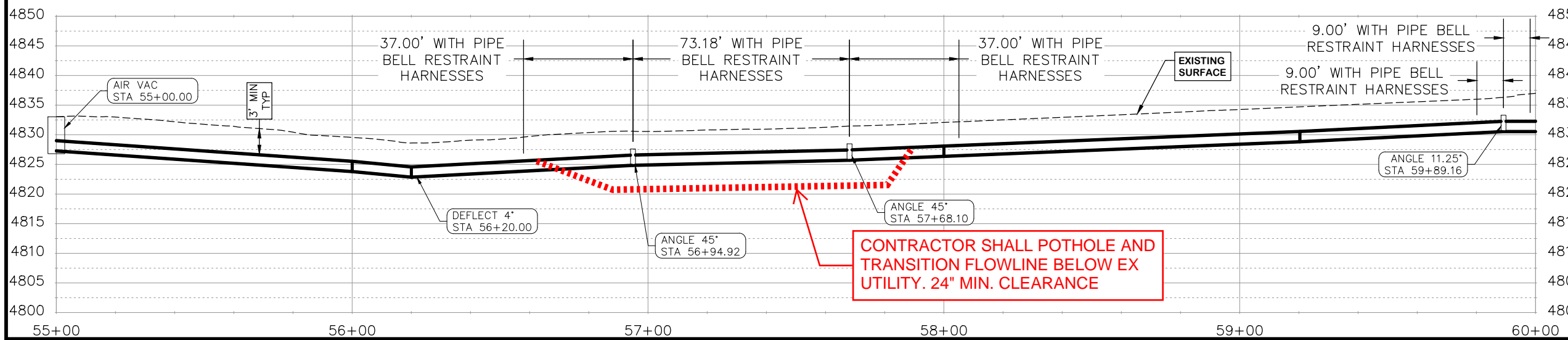




COORDINATES SHOWN IN MCLCS: MESA COUNTY LOCAL COORDINATES SYSTEM

PARCEL TABLE	12
114	2969-173-00-109 2991 REEDER MESA RD WHITEWATER, CO 81527-9506 MAXWELL JAMES E
115	2969-202-00-374 3000 REEDER MESA RD WHITEWATER, CO 81527 GRAND VALLEY RURAL POWER LINES INC PO BOX 190 GRAND JUNCTION, CO 815020190
127	2998 REEDER MESA RD WHITEWATER, CO 81527-9505 HICKS LARRY DEAN

- CONSTRUCTION NOTES
- (32) 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
  - (102) 210 - RESET FENCE. (HEIGHT & MATERIAL IN KIND)
  - (400) 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - (409) 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
  - (411) 102.8g/102.8h/108.3 - 6" AIR VALVE & VAULT
  - (736) 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEEDED AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.
  - (817) PROTECT OR REFERENCE AND RESET PROPERTY PIN/MONUMENT. COST IS INCIDENTAL TO COST OF CONSTRUCTION.
  - (843) REPLACE SURFACE IN KIND.
  - (846) AT THE BEGINNING OF THE PROJECT AND PRIOR TO WATERLINE CONSTRUCTION, CONTRACTOR SHALL POTHOLE EXISTING UTILITIES TO VERIFY DEPTH AND BEARING. CONTRACTOR SHALL TRANSITION WATER PIPE AS NEEDED TO MAINTAIN 24" CLEARANCE MINIMUM ABOVE OR BELOW OTHER UTILITIES.



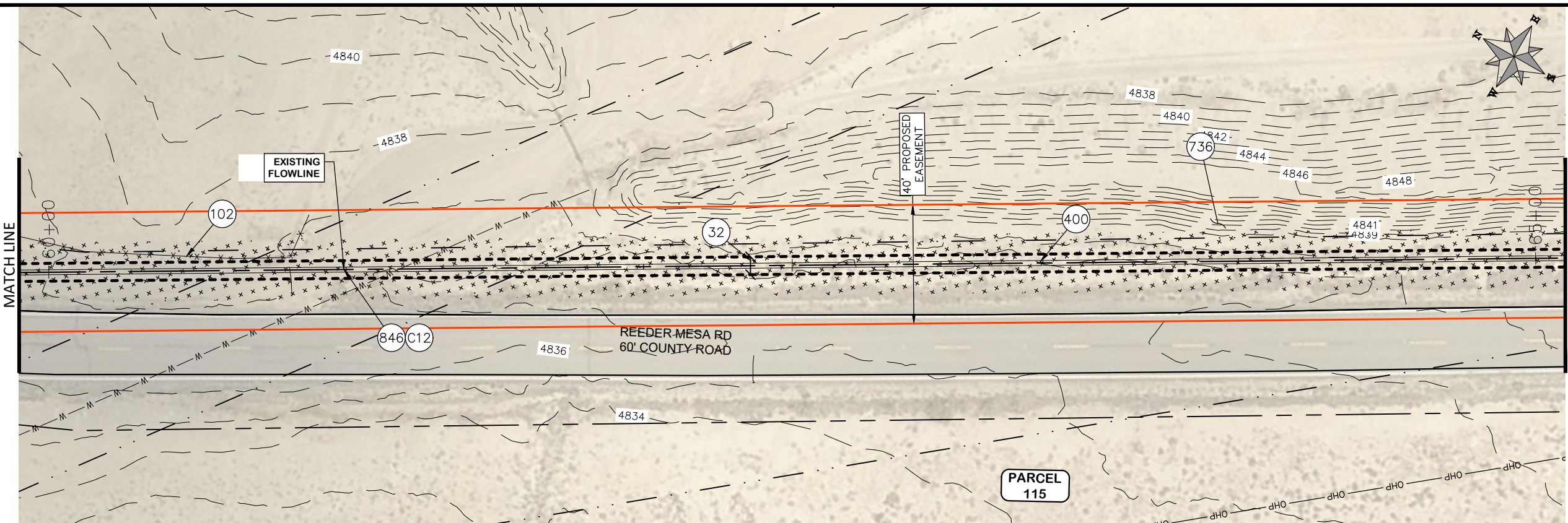
REVISION	DESCRIPTION	DATE	DRAWN BY	HMC	DATE	2024
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SCALES:  
 PLAN & PROFILE  
 HORIZONTAL 1" = 40'  
 VERTICAL 1" = 20'

PUBLIC WORKS  
 ENGINEERING DIVISION  
 PROJECT NO. F0006-F000615

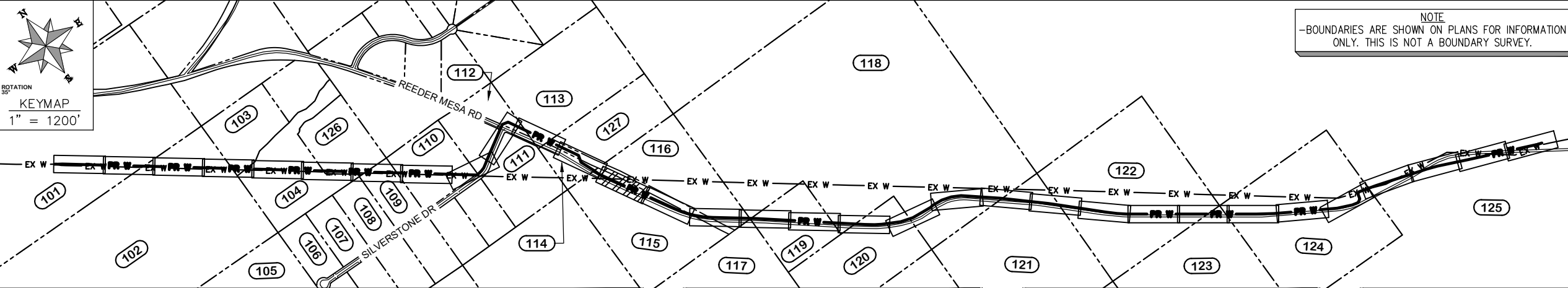
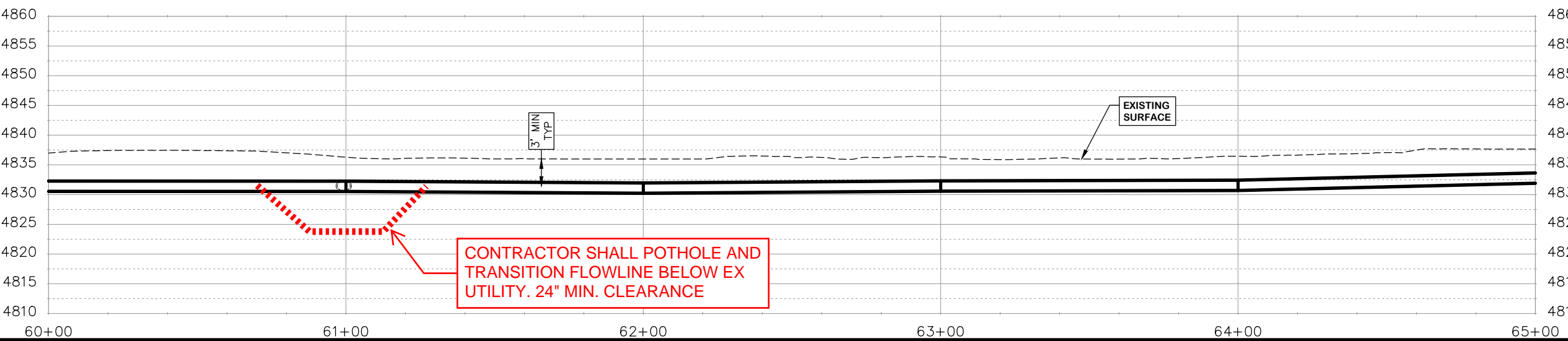
2022 PURDY MESA FLOWLINE REPLACEMENT  
 DOWNSTREAM PLAN AND PROFILE - 12  
 June 11, 2024





PARCEL TABLE	
115	2969-202-00-374 3000 REEDER MESA RD WHITEWATER, CO 81527 GRAND VALLEY RURAL POWER LINES INC PO BOX 190 GRAND JUNCTION, CO 815020190

- CONSTRUCTION NOTES**
- 32 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
  - 102 210 - RESET FENCE. (HEIGHT & MATERIAL IN KIND)
  - 400 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 401 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-25). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 736 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEED AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.
  - 846 AT THE BEGINNING OF THE PROJECT AND PRIOR TO WATERLINE CONSTRUCTION, CONTRACTOR SHALL POTHOLE EXISTING UTILITIES TO VERIFY DEPTH AND BEARING. CONTRACTOR SHALL TRANSITION WATER PIPE AS NEEDED TO MAINTAIN 24" CLEARANCE MINIMUM ABOVE OR BELOW OTHER UTILITIES.



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REVISION			CHECKED BY	WC	DATE	2024
REVISION			APPROVED BY	WC	DATE	2024

SCALES:

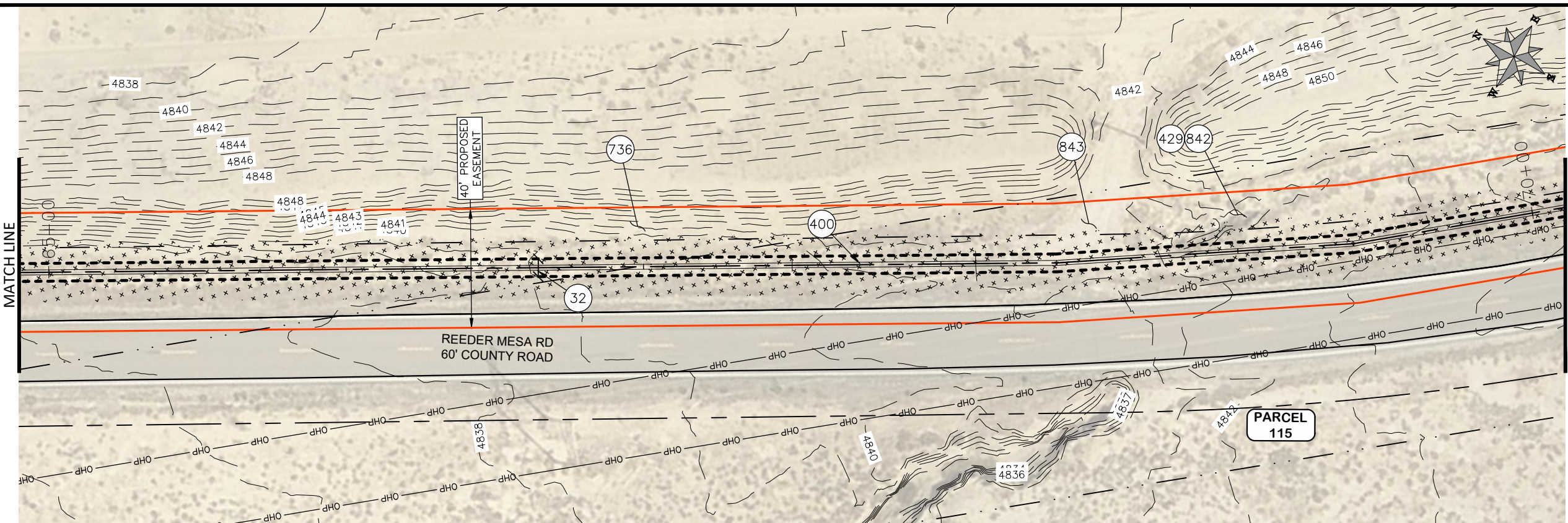
PLAN & PROFILE  
HORIZONTAL 1" = 40'  
VERTICAL 1" = 20'

**CITY OF Grand Junction**  
COLORADO

**PUBLIC WORKS ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

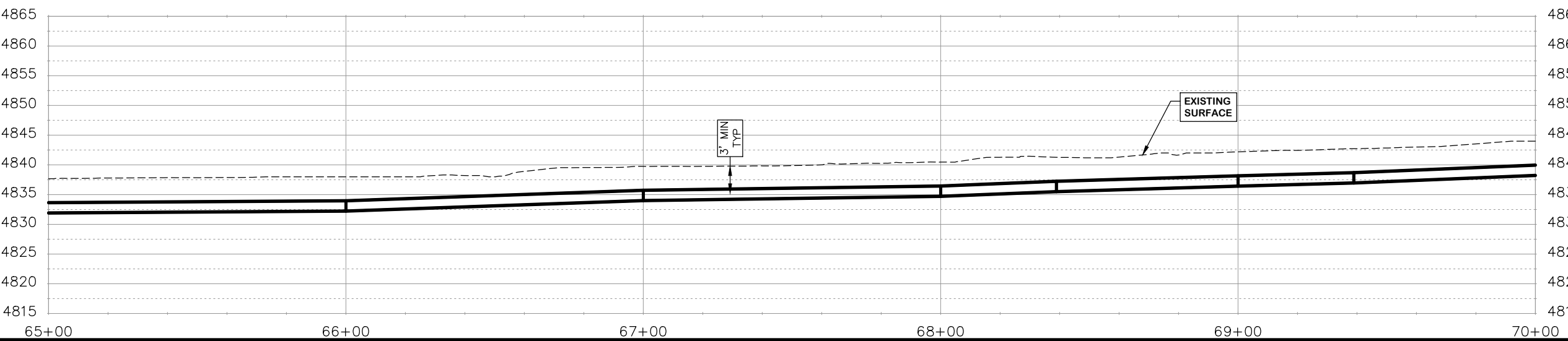
**2022 PURDY MESA FLOWLINE REPLACEMENT**  
DOWNSTREAM PLAN AND PROFILE - 13  
June 11, 2024



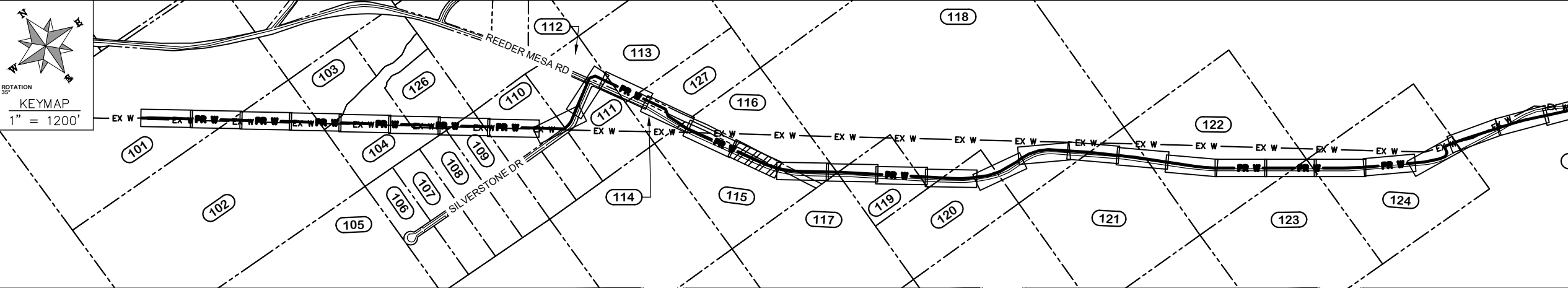


PARCEL TABLE	
115	2969-202-00-374 3000 REEDER MESA RD WHITEWATER, CO 81527 GRAND VALLEY RURAL POWER LINES INC PO BOX 190 GRAND JUNCTION, CO 815020190

- CONSTRUCTION NOTES**
- 32 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
  - 400 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 429 ENCASE TOP HALF OF WATER LINE IN CONCRETE PER WATER LINE CONCRETE CAP DETAIL AT WATERWAY CROSSINGS.
  - 736 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEED AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.
  - 842 IN WETLAND AREAS AND STREAM CROSSINGS REMOVE THE TOP 2 FEET OF TOPSOIL AND STOCKPILE SEPARATELY. CAP THE TRENCH BACKFILL USING THIS TOPSOIL (12 INCHES MINIMUM THICKNESS).
  - 843 REPLACE SURFACE IN KIND.



NOTE  
-ASSUMPTION OF 1" DEFLECTION IN PIPE JOINT

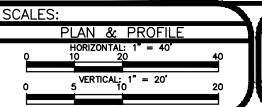


NOTE  
-BOUNDARIES ARE SHOWN ON PLANS FOR INFORMATION ONLY. THIS IS NOT A BOUNDARY SURVEY.

NOTE  
-ASSUMPTION OF 1" DEFLECTION IN PIPE JOINT

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SCALES:	
HORIZONTAL	1" = 40'
VERTICAL	1" = 20'



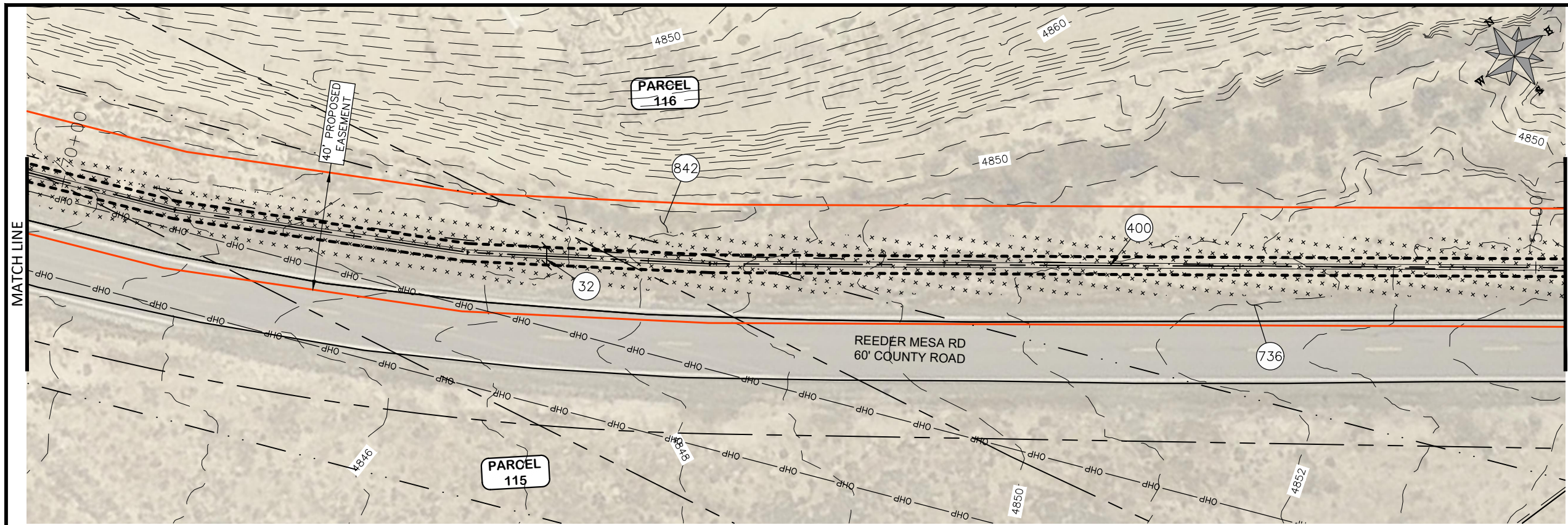
**CITY OF Grand Junction**  
COLORADO

**PUBLIC WORKS ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT**  
DOWNSTREAM PLAN AND PROFILE - 14  
June 11, 2024

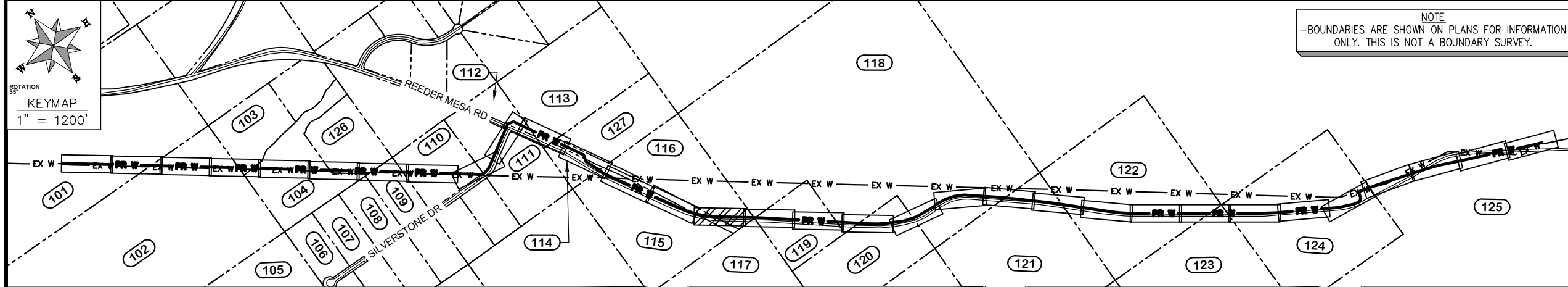
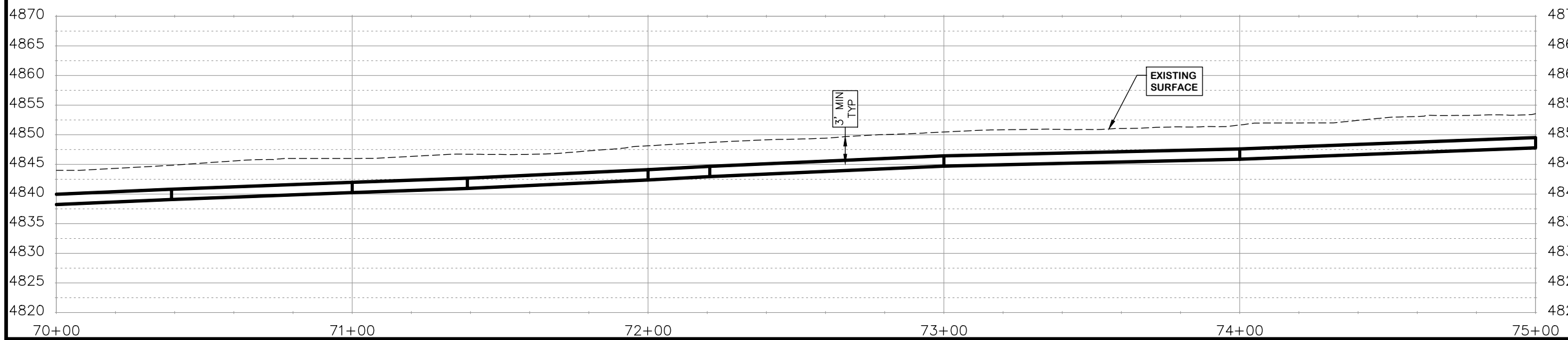
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COORDINATES SHOWN IN MCLCS: MESA COUNTY LOCAL COORDINATES SYSTEM

PARCEL TABLE	
115	2969-202-00-374 3000 REEDER MESA RD WHITEWATER, CO 81527 GRAND VALLEY RURAL POWER LINES INC PO BOX 190 GRAND JUNCTION, CO 815020190
116	2969-202-00-373 3110 REEDER MESA RD WHITEWATER, CO 81527 HICKS LARRY 2998 REEDER MESA RD WHITEWATER, CO 81527-9505
CONSTRUCTION NOTES	
32	201 - CLEARING AND GRUBBING INCLUDES BRUSH AND TREES)
400	102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
736	212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEEDING AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.
842	IN WETLAND AREAS AND STREAM CROSSINGS REMOVE THE TOP 2 FEET OF TOPSOIL AND STOCKPILE SEPARATELY. CAP THE TRENCH BACKFILL USING THIS TOPSOIL (12 INCHES MINIMUM THICKNESS).



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SCALES:  
 PLAN & PROFILE  
 HORIZONTAL 1" = 40'  
 VERTICAL 1" = 20'

**PUBLIC WORKS ENGINEERING DIVISION**  
 PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT**  
 DOWNSTREAM PLAN AND PROFILE - 15  
 June 11, 2024

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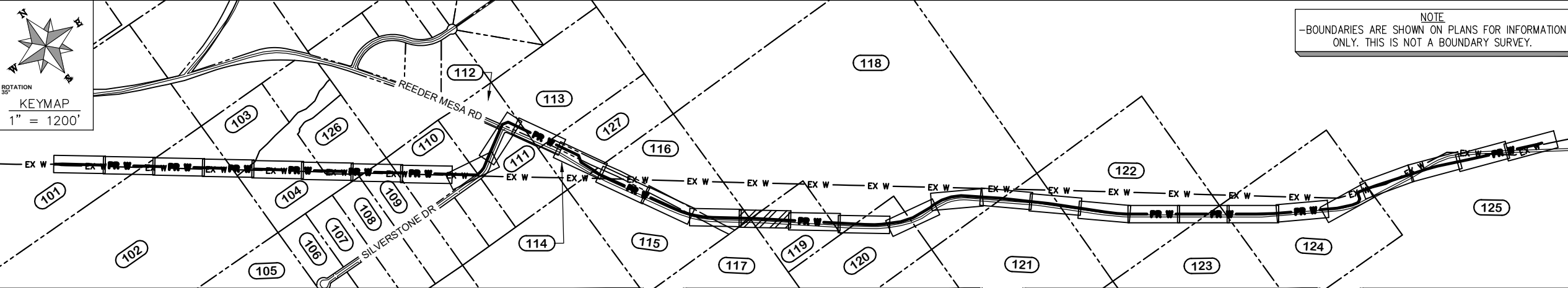
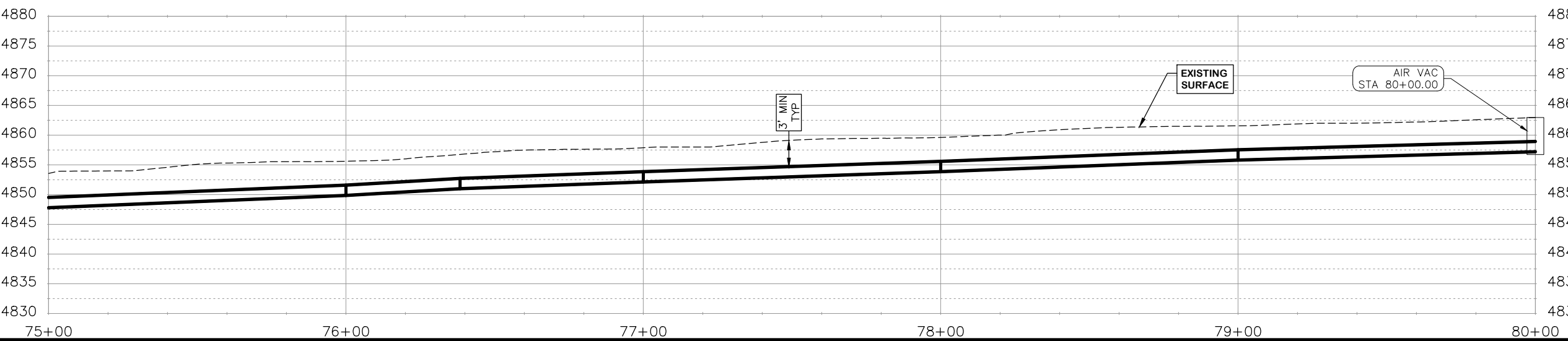
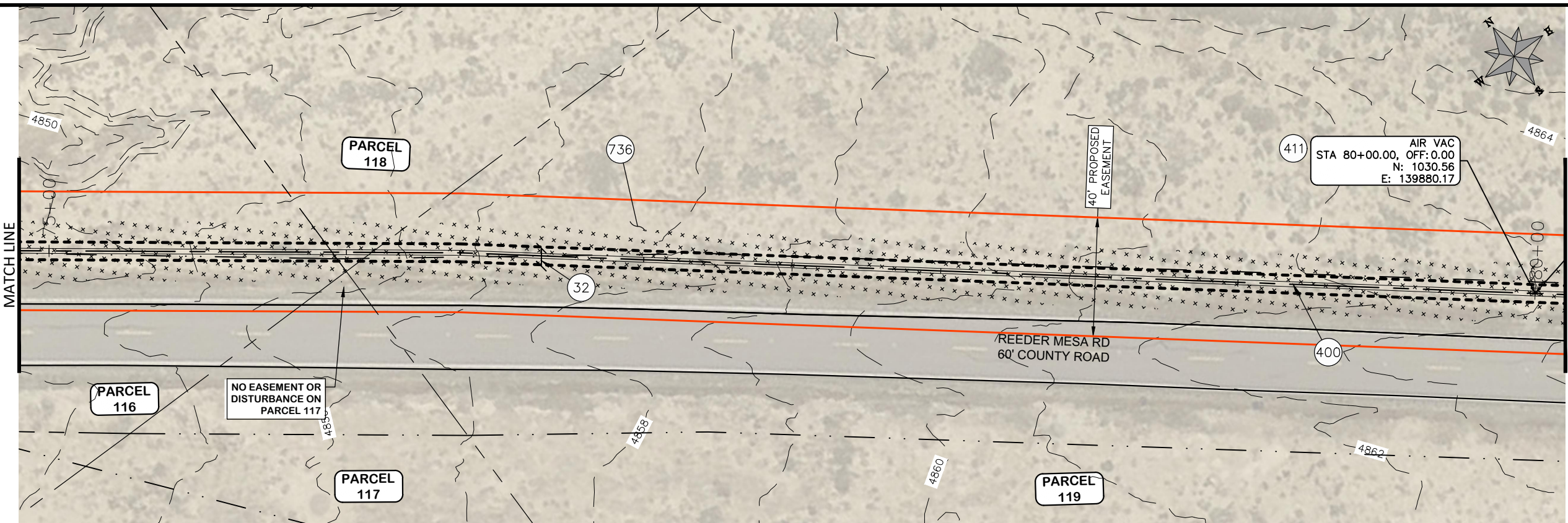
COORDINATES SHOWN IN MCLCS: MESA COUNTY LOCAL COORDINATES SYSTEM

PARCEL TABLE 16

116	2969-202-00-373 3110 REEDER MESA RD WHITEWATER, CO 81527 HICKS LARRY 2998 REEDER MESA RD WHITEWATER, CO 81527-9505
117	2969-202-00-136 3335 REEDER MESA RD NEWBERRY JESSICA MAY NEWBERRY PAUL AUSTIN
118	2969-201-00-388 3520 REEDER MESA RD WHITEWATER, CO 81527 WESTERN COLORADO PRECISION MARKSMANSHIP SOC PO BOX 1 GRAND JUNCTION, CO 81502-0001
119	2969-201-00-046 WESTERN COLORADO PRECISION MARKSMANSHIP SOCIETY PO BOX 1 GRAND JUNCTION, CO 81502

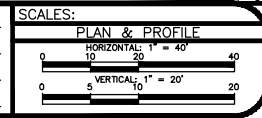
CONSTRUCTION NOTES

- 32 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
- 400 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 411 102.8g/102.8h/108.3 - 6" AIR VALVE & VAULT
- 736 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEED AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.



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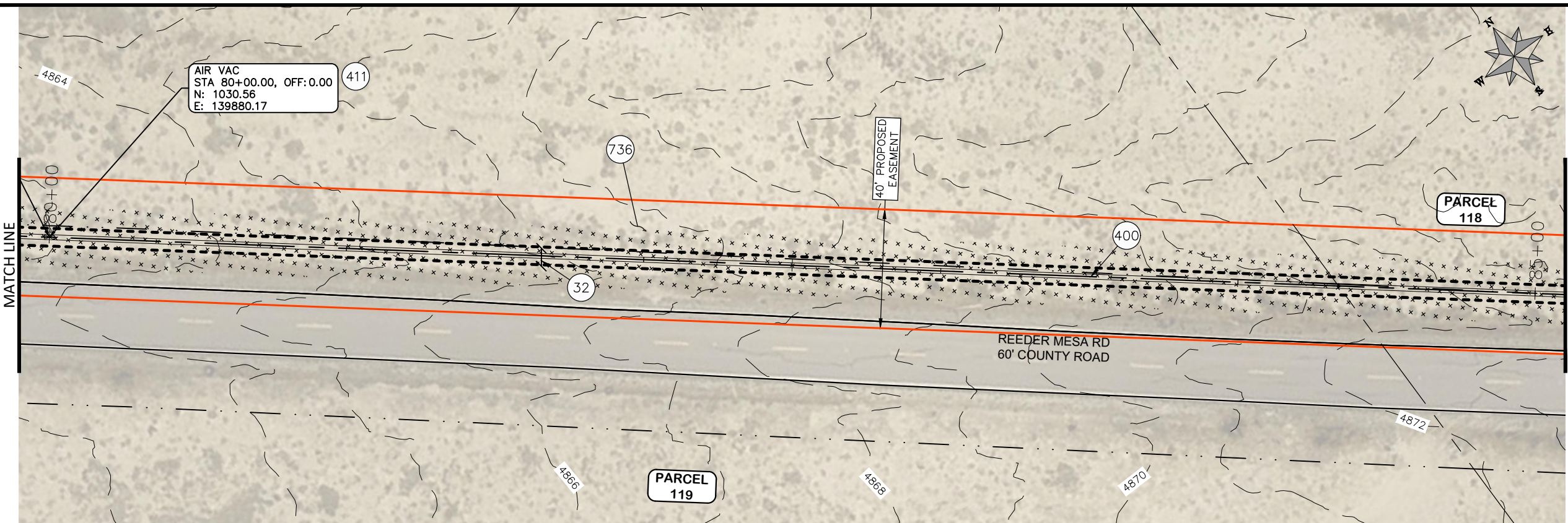
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PUBLIC WORKS  
 ENGINEERING DIVISION  
 PROJECT NO. F0006-F000615

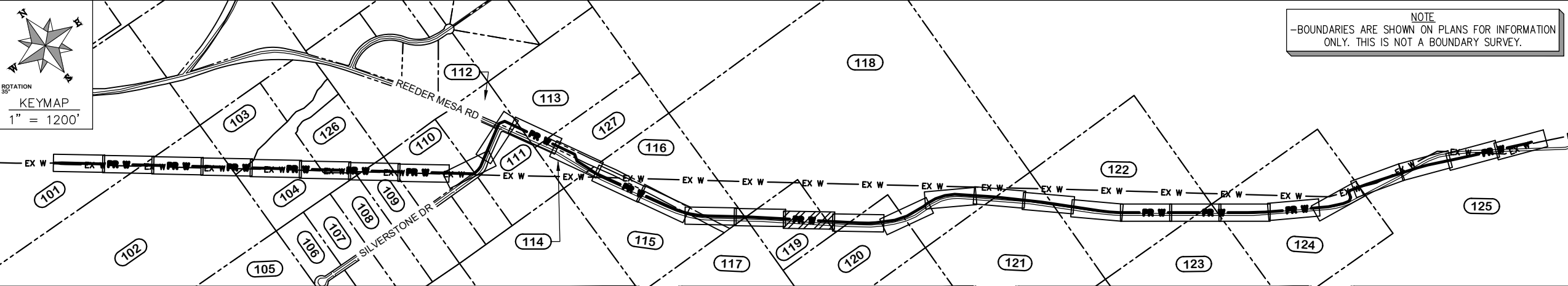
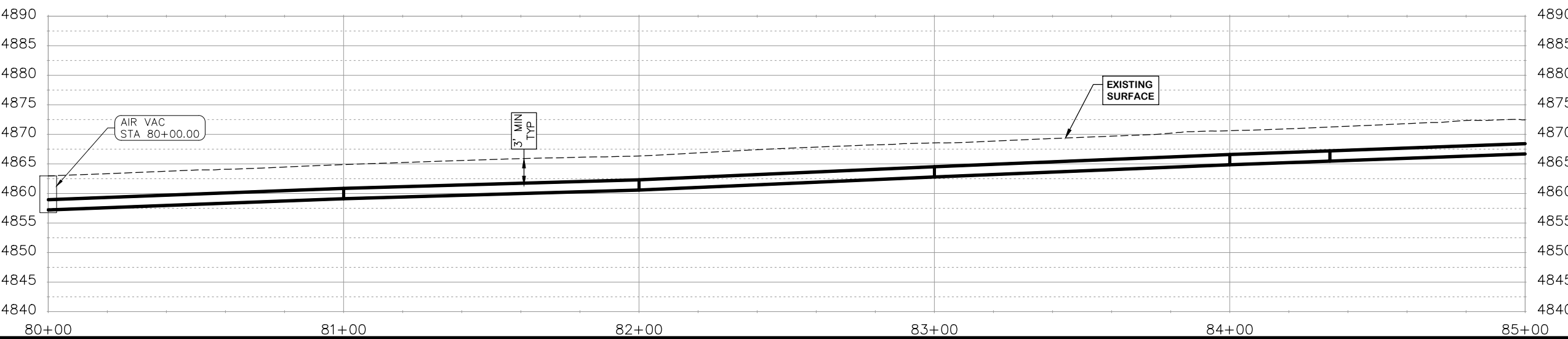
2022 PURDY MESA FLOWLINE REPLACEMENT  
 DOWNSTREAM PLAN AND PROFILE - 16  
 June 11, 2024





PARCEL TABLE	
118	2969-201-00-388 3520 REEDER MESA RD WHITEWATER, CO 81527 WESTERN COLORADO PRECISION MARKSMANSHIP SOC PO BOX 1 GRAND JUNCTION, CO 81502-0001
119	2969-201-00-046 WESTERN COLORADO PRECISION MARKSMANSHIP SOCIETY PO BOX 1 GRAND JUNCTION, CO 81502

CONSTRUCTION NOTES	
32	201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
400	102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
411	102.8g/102.8h/108.3 - 6" AIR VALVE & VAULT
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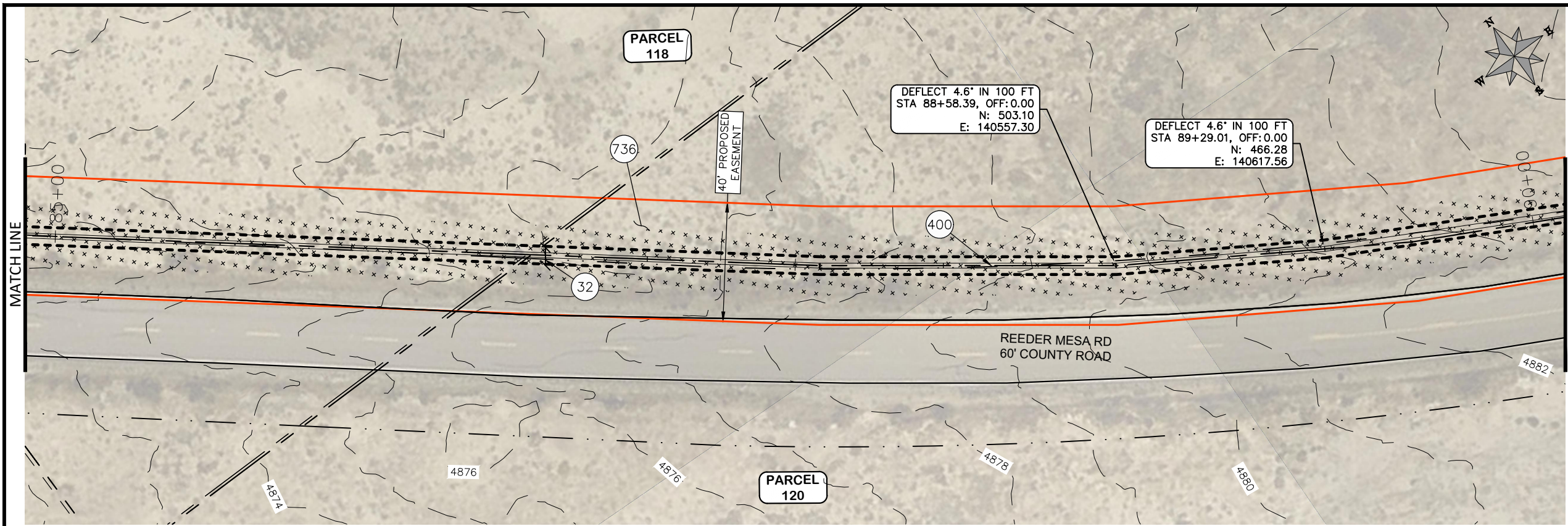
SCALES:	
PLAN & PROFILE	HORIZONTAL 1" = 40'
	VERTICAL 1" = 20'



**PUBLIC WORKS ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT**  
**DOWNSTREAM PLAN AND PROFILE - 17**  
June 11, 2024





COORDINATES SHOWN IN MCLCS: MESA COUNTY LOCAL COORDINATES SYSTEM

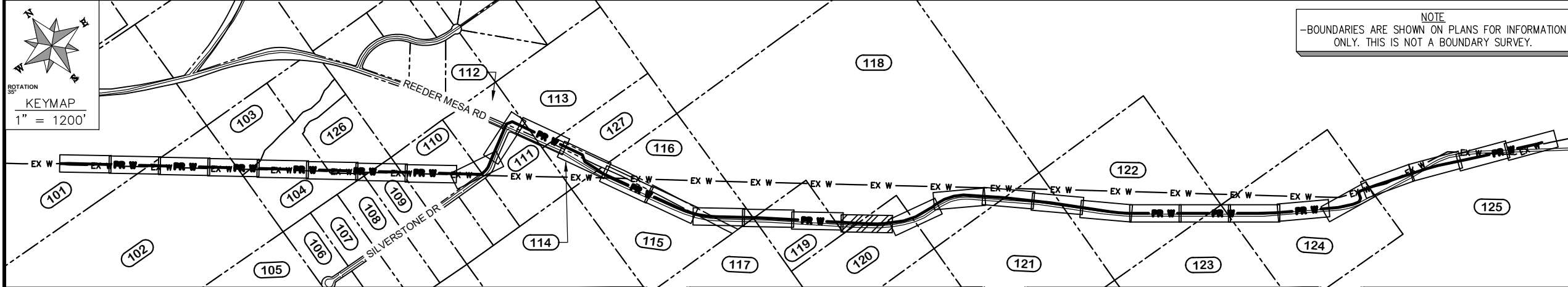
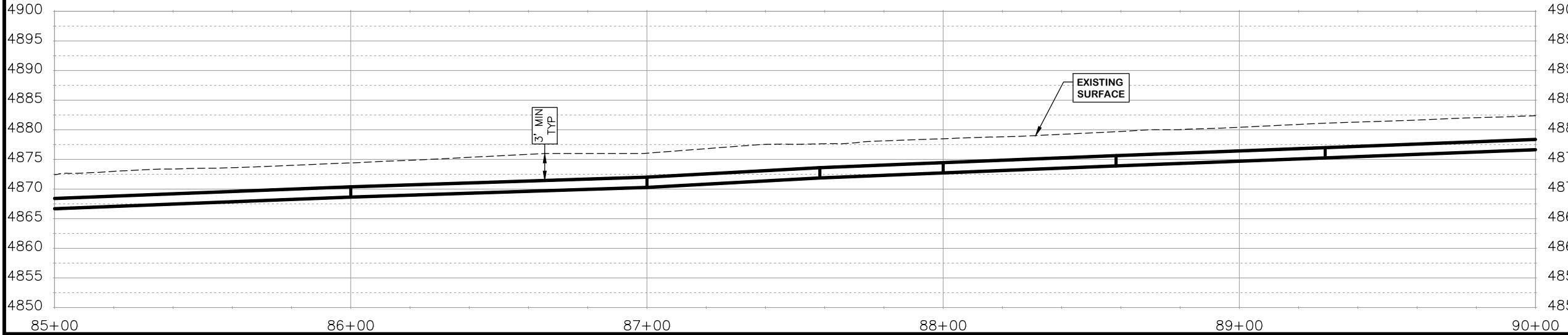
PARCEL TABLE	
118	2969-201-00-388 3520 REEDER MESA RD WHITEWATER, CO 81527 WESTERN COLORADO PRECISION MARKSMANSHIP SOC PO BOX 1 GRAND JUNCTION, CO 81502-0001
120	2969-201-00-097 3521 REEDER MESA RD WHITEWATER, CO 81527 POLOGAR JOSEPH F 704 JASMINE LN GRAND JUNCTION, CO 81506-8343

**CONSTRUCTION NOTES**

32 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)

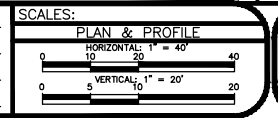
400 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.

736 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEEDED AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.



REVISION	DESCRIPTION	DATE
REVISION		
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DESIGNED BY	WC	DATE	2024
CHECKED BY	WC	DATE	2024
APPROVED BY	WC	DATE	2024

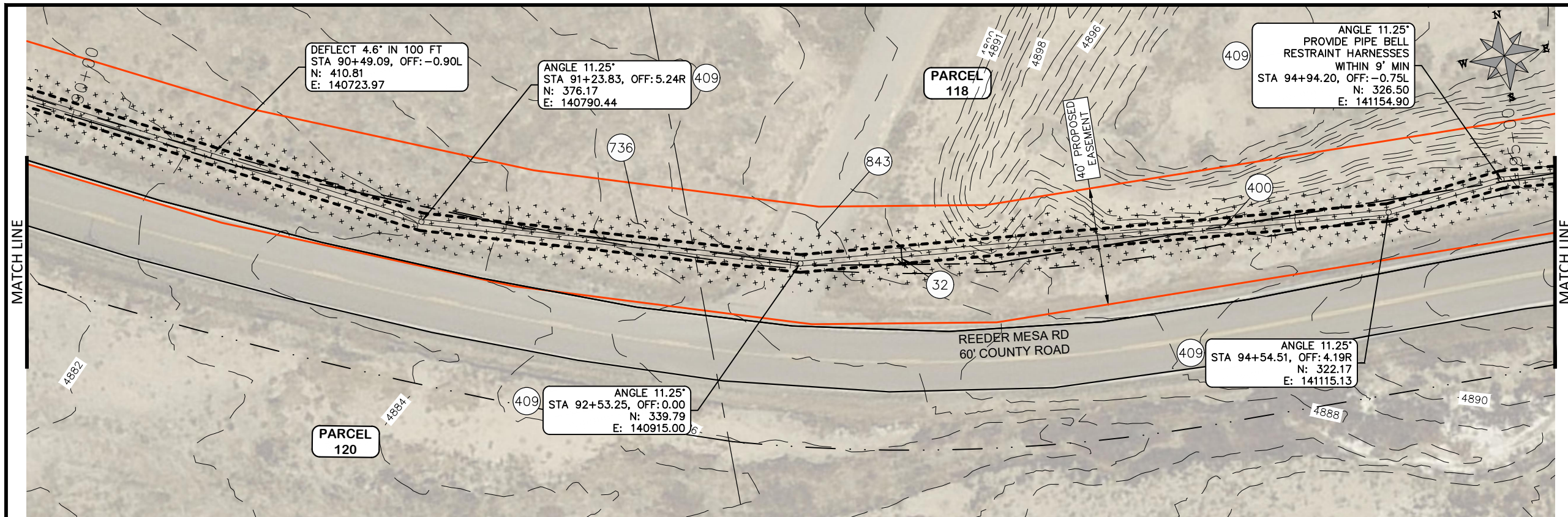


**PUBLIC WORKS  
ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT  
DOWNSTREAM PLAN AND PROFILE - 18**  
June 11, 2024

\\Publicworks-wfs\vol\_pw\Data\Landproj\F210401\_Purdy Mesa Flowline\2022\60CAD\DESIGN\WATER\_DS\_UTIL\_PLAN\_AND\_PROFILE\_F210401-2024-03-19.dwg - PLOTTED 6/11/2024 2:40:45 PM



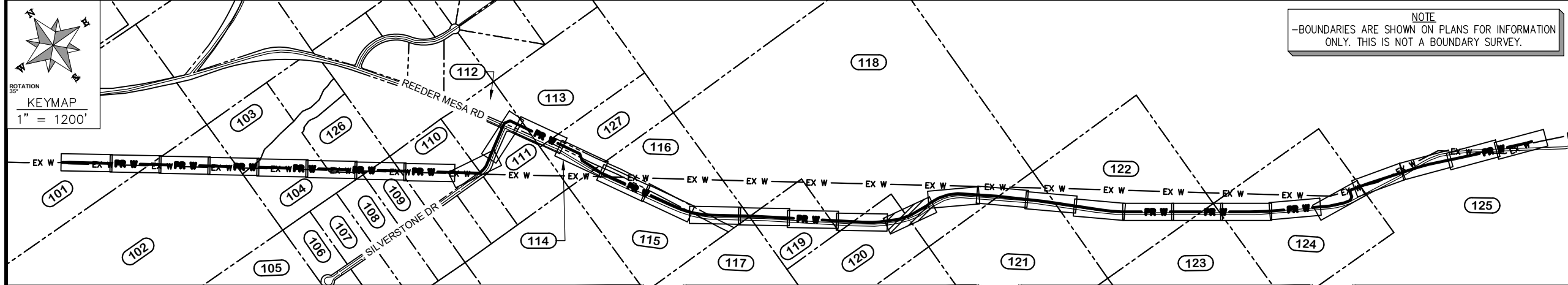
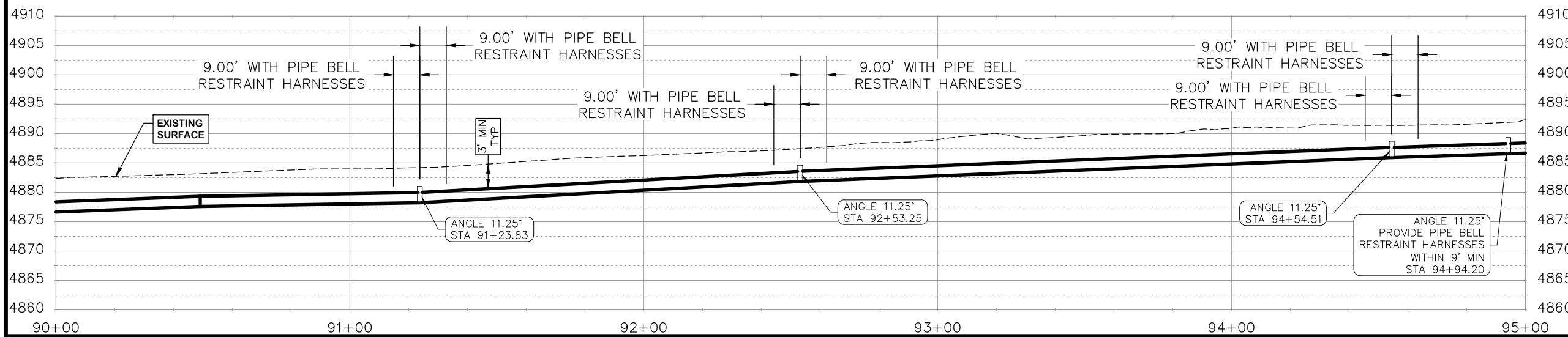


COORDINATES SHOWN IN MCLCS: MESA COUNTY LOCAL COORDINATES SYSTEM

PARCEL TABLE	
118	2969-201-00-388 3520 REEDER MESA RD WHITEWATER, CO 81527 WESTERN COLORADO PRECISION MARKSMANSHIP SOC PO BOX 1 GRAND JUNCTION, CO 81502-0001
120	2969-201-00-097 3521 REEDER MESA RD WHITEWATER, CO 81527 POLOGAR JOSEPH F 704 JASMINE LN GRAND JUNCTION, CO 81506-8343

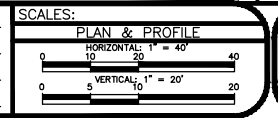
**CONSTRUCTION NOTES**

- 32 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
- 400 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- 736 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEEDED AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.
- 843 REPLACE SURFACE IN KIND.



REVISION	DESCRIPTION	DATE
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DRAWN BY	HMC	DATE	2024
DESIGNED BY	WC	DATE	2024
CHECKED BY	WC	DATE	2024
APPROVED BY	WC	DATE	2024

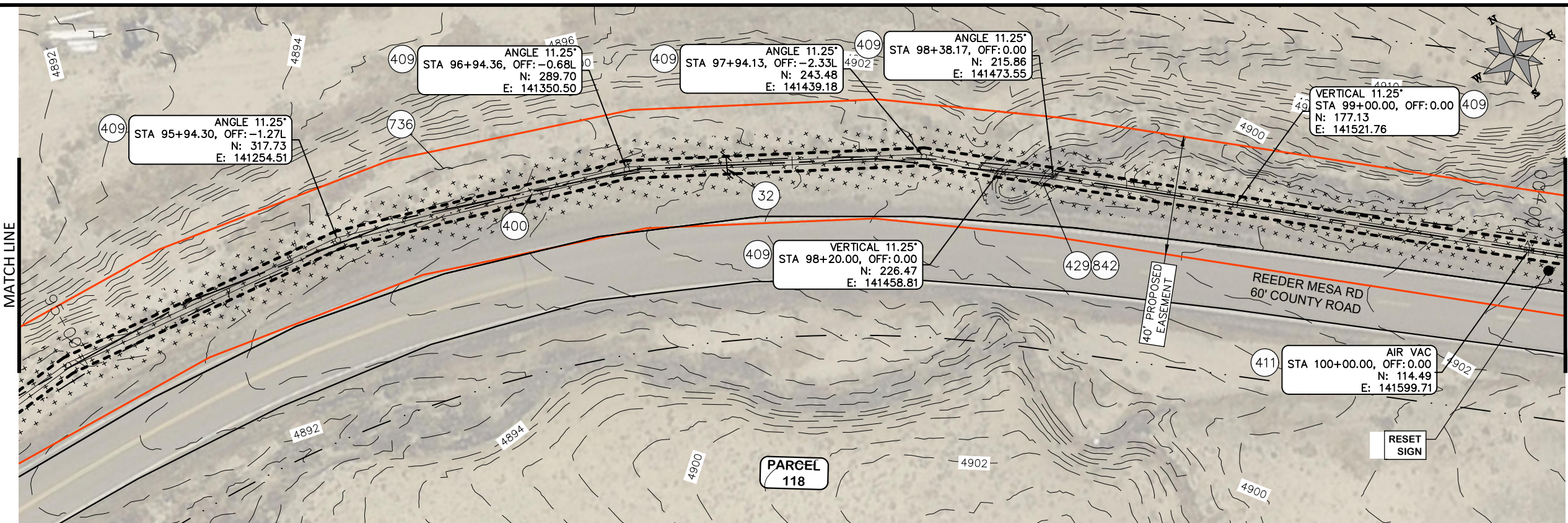


**PUBLIC WORKS ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT**  
DOWNSTREAM PLAN AND PROFILE - 19  
June 11, 2024

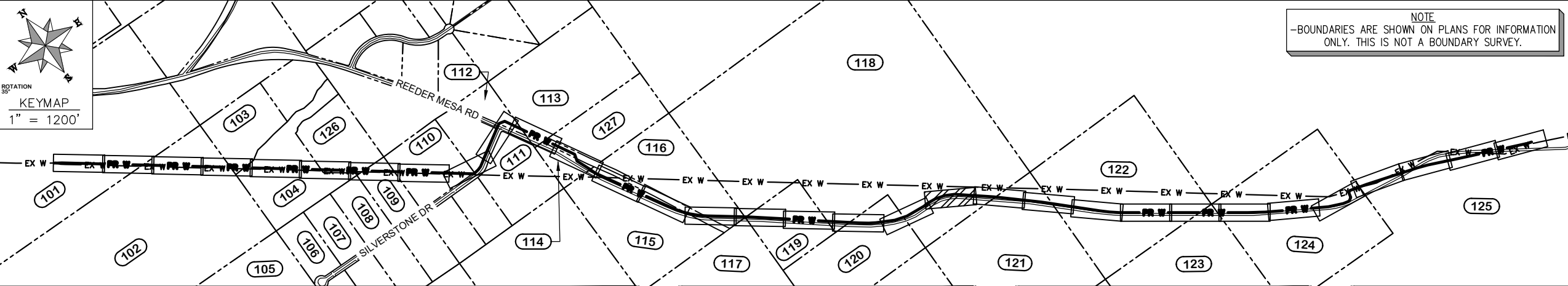
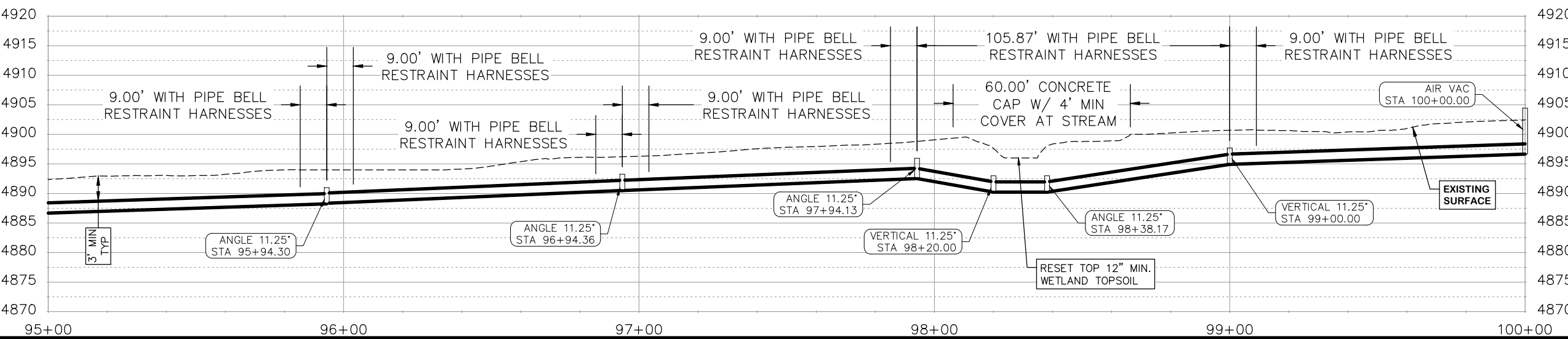
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PARCEL TABLE	
118	2969-201-00-388 3520 REEDER MESA RD WHITEWATER, CO 81527 WESTERN COLORADO PRECISION MARKSMANSHIP SOC PO BOX 1 GRAND JUNCTION, CO 81502-0001

- CONSTRUCTION NOTES**
- 32 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
  - 400 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
  - 411 102.8g/102.8h/108.3 - 6" AIR VALVE & VAULT
  - 429 ENCASE TOP HALF OF WATER LINE IN CONCRETE PER WATER LINE CONCRETE CAP DETAIL AT WATERWAY CROSSINGS.
  - 736 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEEDED AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.
  - 842 IN WETLAND AREAS AND STREAM CROSSINGS REMOVE THE TOP 2 FEET OF TOPSOIL AND STOCKPILE SEPARATELY. CAP THE TRENCH BACKFILL USING THIS TOPSOIL (12 INCHES MINIMUM THICKNESS).



REVISION	DESCRIPTION	DATE	DRAWN BY	HMC	DATE	2024
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REVISION			APPROVED BY	WC	DATE	2024

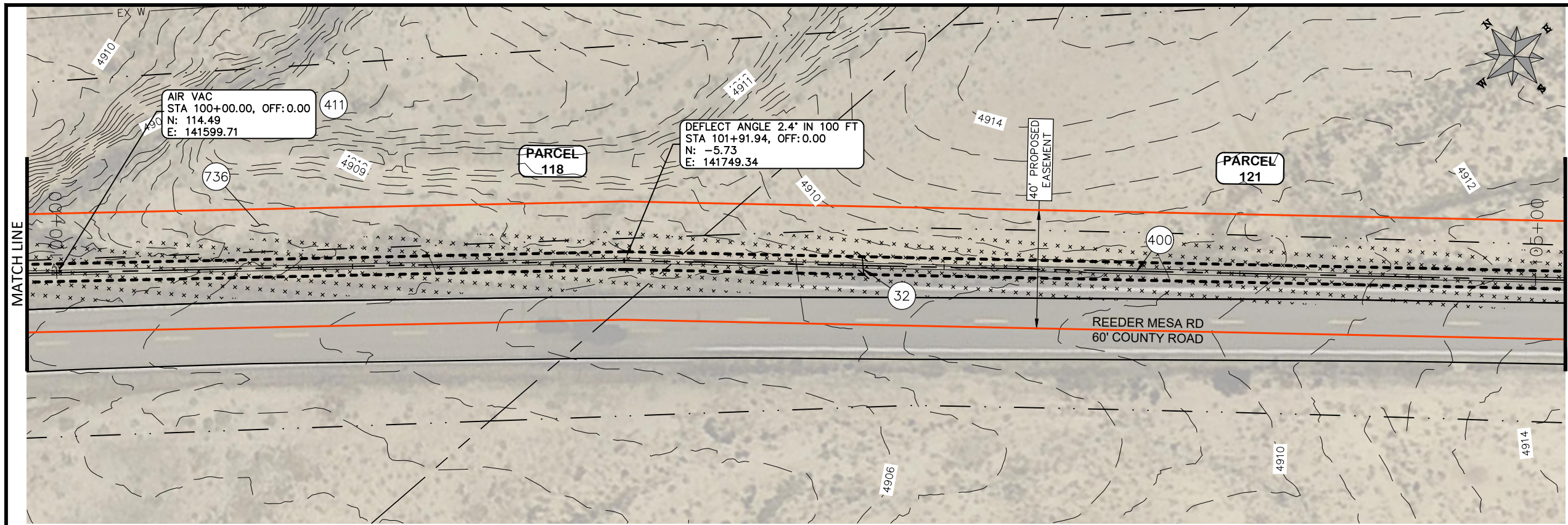
SCALES:  
 PLAN & PROFILE  
 HORIZONTAL 1" = 40'  
 VERTICAL 1" = 20'

**CITY OF Grand Junction**  
COLORADO

**PUBLIC WORKS ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT**  
DOWNSTREAM PLAN AND PROFILE - 20  
June 11, 2024



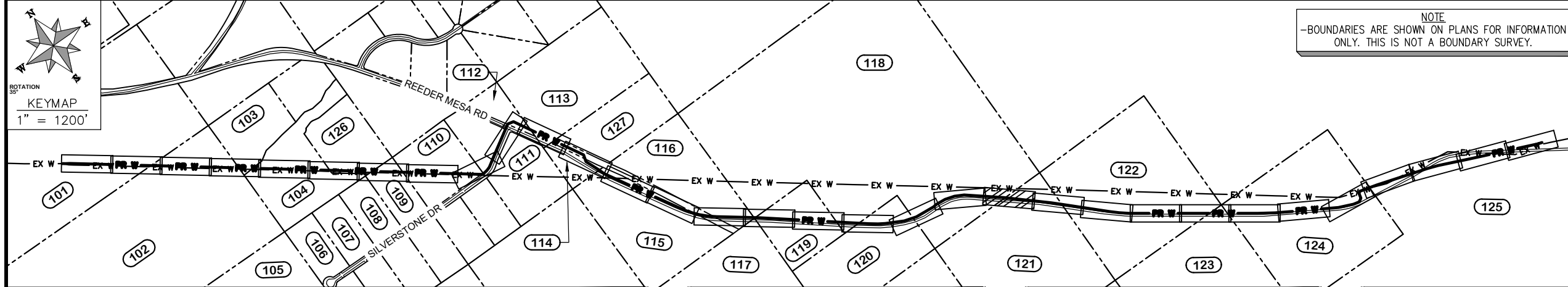
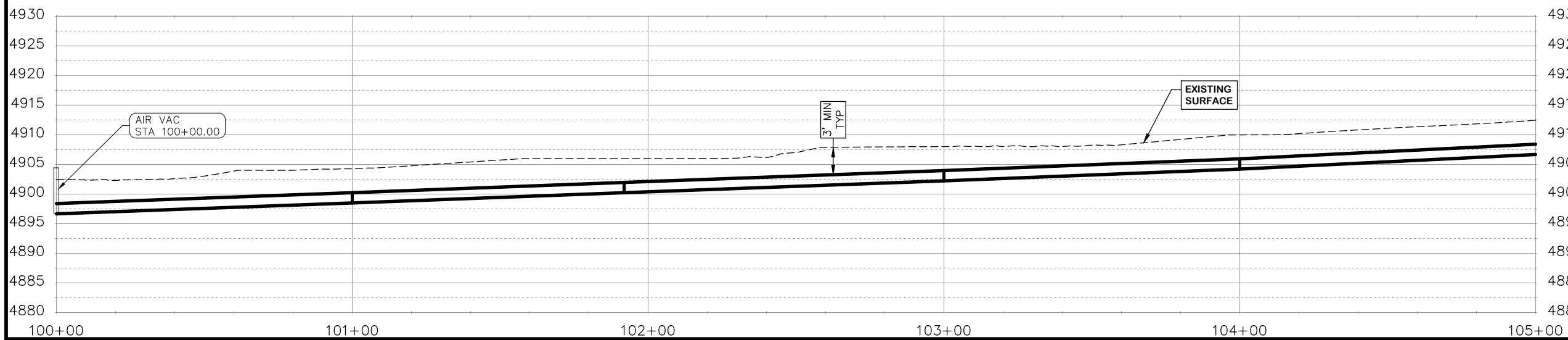


COORDINATES SHOWN IN MCLCS: MESA COUNTY LOCAL COORDINATES SYSTEM

PARCEL TABLE	
118	2969-201-00-388 3520 REEDER MESA RD WHITEWATER, CO 81527 WESTERN COLORADO PRECISION MARKSMANSHIP SOC PO BOX 1 GRAND JUNCTION, CO 81502-0001
121	2969-204-00-270 4035 REEDER MESA RD WHITEWATER, CO 81527 WALSH MICHELLE A 2716 N MCVICKER AVE CHICAGO, IL 60639

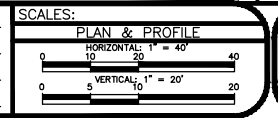
**CONSTRUCTION NOTES**

- 32 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
- 400 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 411 102.8g/102.8h/108.3 - 6" AIR VALVE & VAULT
- 736 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEEDED AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.



REVISION	DESCRIPTION	DATE
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CHECKED BY	WC	DATE	2024
APPROVED BY	WC	DATE	2024

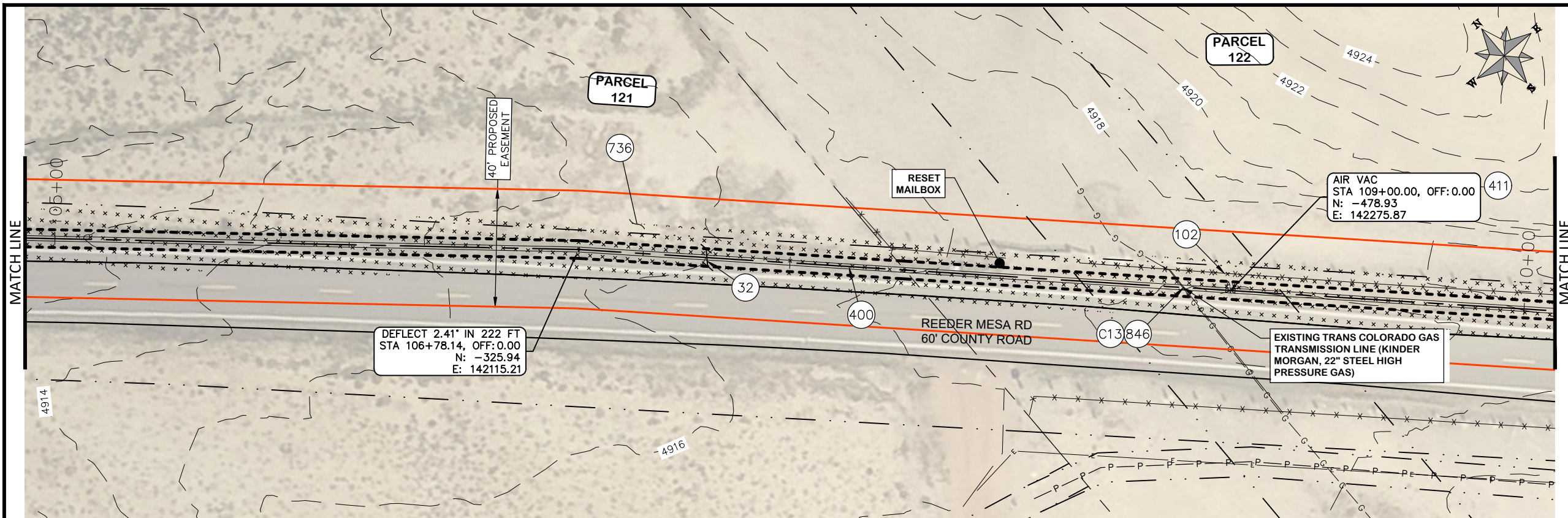


**PUBLIC WORKS ENGINEERING DIVISION**  
 PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT**  
 DOWNSTREAM PLAN AND PROFILE - 21  
 June 11, 2024

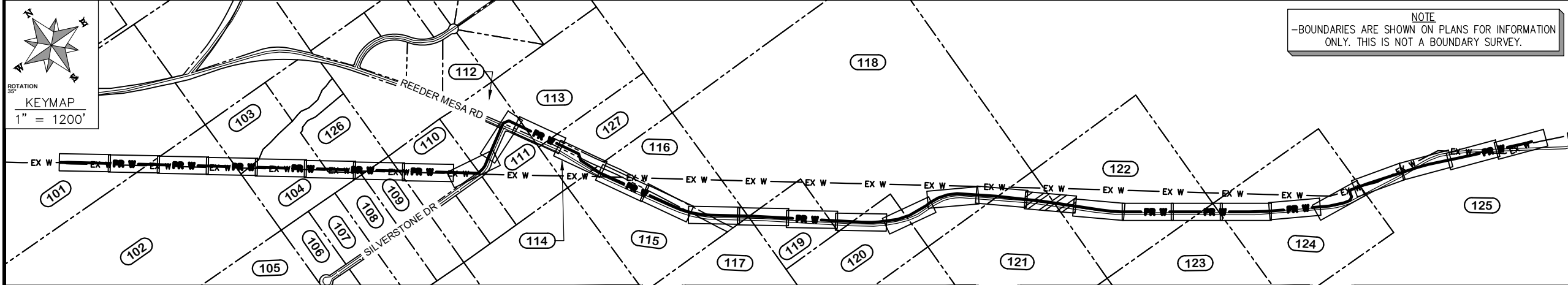
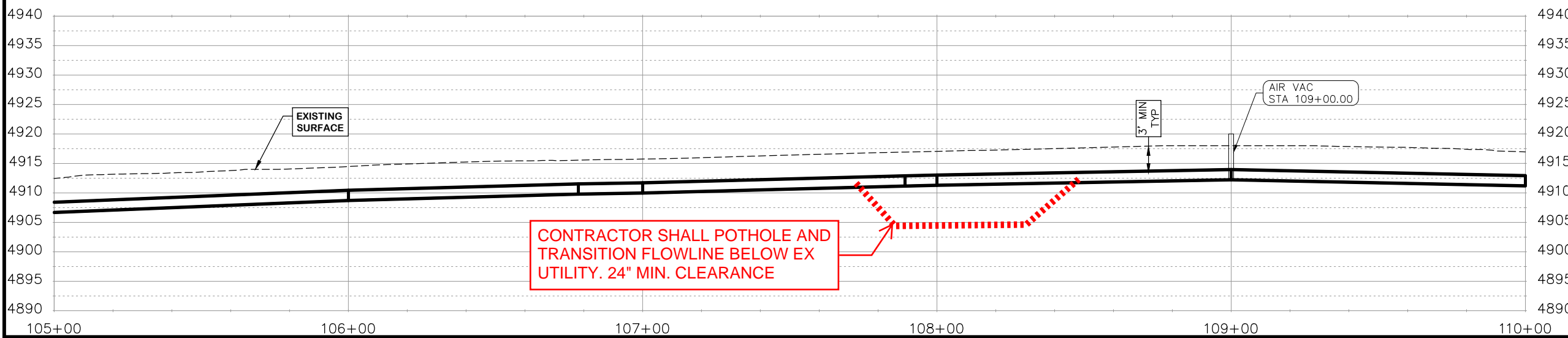
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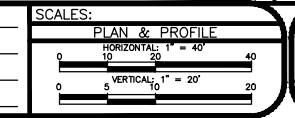


PARCEL TABLE	
121	2969-204-00-270 4035 REEDER MESA RD WHITEWATER, CO 81527 WALSH MICHELLE A 2716 N MCVICKER AVE CHICAGO, IL 60639
122	2969-213-00-131 4040 REEDER MESA RD WHITEWATER, CO 81527 ALLEN JEFFREY P ALLEN LAURIE A 2825 B RD GRAND JUNCTION, CO 81503

- CONSTRUCTION NOTES**
- 32 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
  - 102 210 - RESET FENCE. (HEIGHT & MATERIAL IN KIND)
  - 400 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 411 102.8g/102.8h/108.3 - 6" AIR VALVE & VAULT
  - 736 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEEDING AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.
  - 846 AT THE BEGINNING OF THE PROJECT AND PRIOR TO WATERLINE CONSTRUCTION, CONTRACTOR SHALL POTHOLE EXISTING UTILITIES TO VERIFY DEPTH AND BEARING. CONTRACTOR SHALL TRANSITION WATER PIPE AS NEEDED TO MAINTAIN 24" CLEARANCE MINIMUM ABOVE OR BELOW OTHER UTILITIES.



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REVISION			APPROVED BY	WC	DATE	2024



**PUBLIC WORKS ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT**  
DOWNSTREAM PLAN AND PROFILE - 22  
June 11, 2024

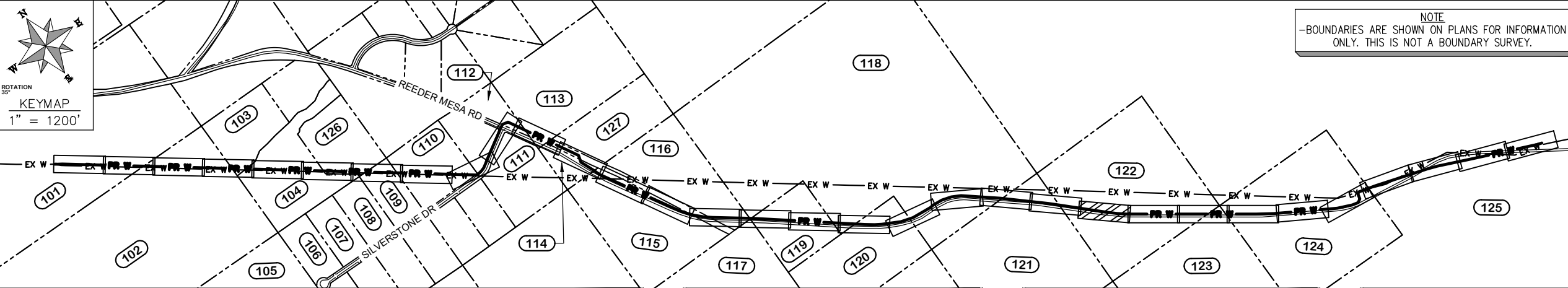
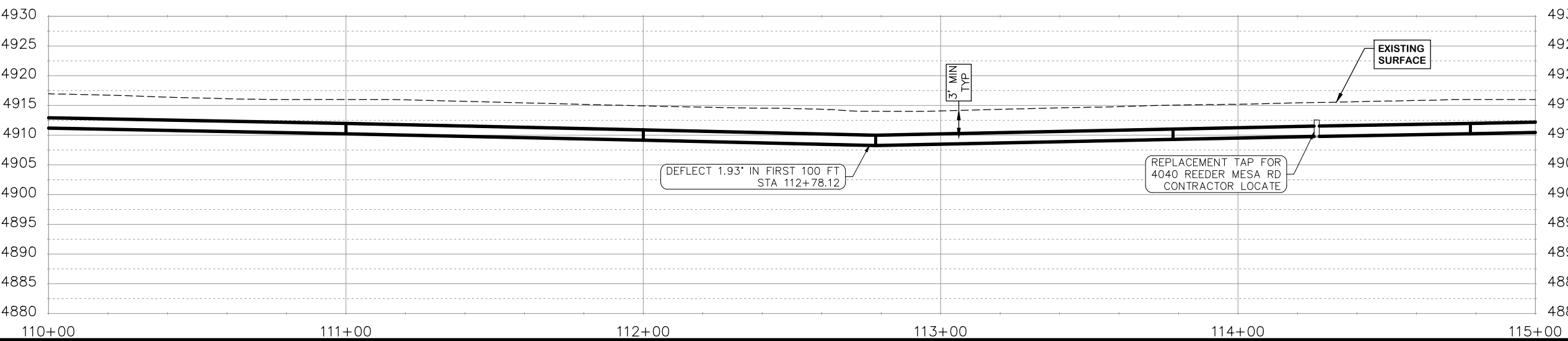
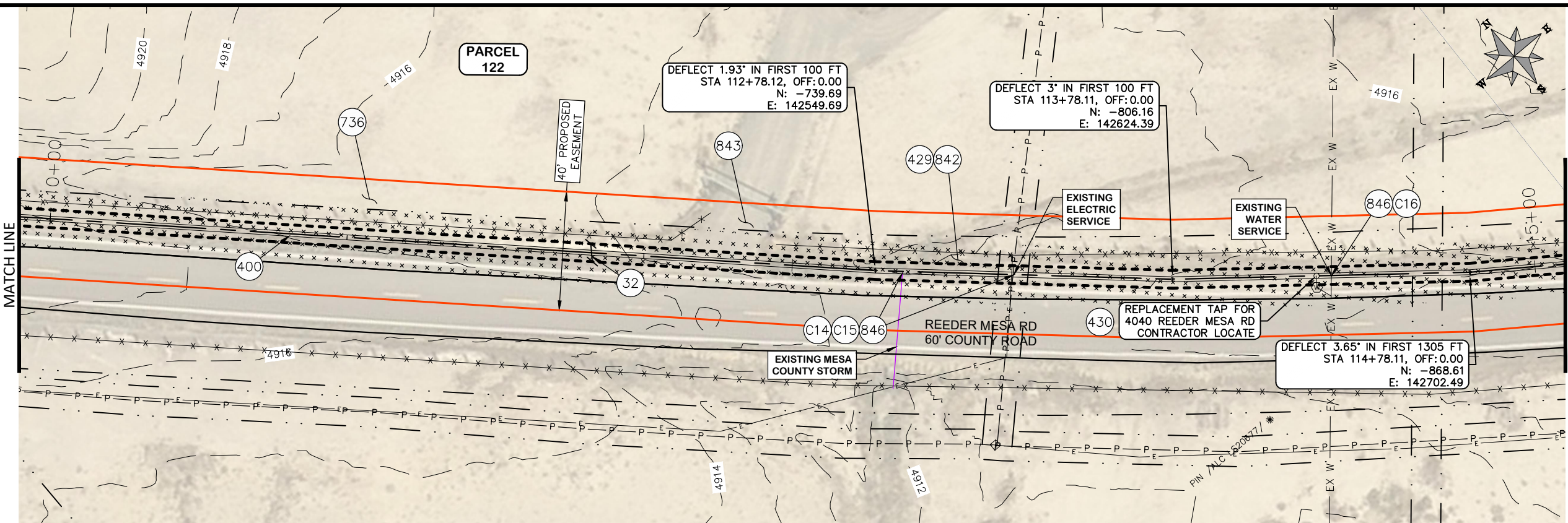
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2969-213-00-131 4040 REEDER MESA RD WHITEWATER, CO 81527 ALLEN JEFFREY P ALLEN LAURIE A 2825 B RD GRAND JUNCTION, CO 81503
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CONSTRUCTION NOTES

- 32 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
- 400 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 429 ENCASE TOP HALF OF WATER LINE IN CONCRETE PER WATER LINE CONCRETE CAP DETAIL AT WATERWAY CROSSINGS.
- 430 102.7c/108.4 - 3/4" WATER SERVICE ASSEMBLY. RECONNECT TO EXISTING WATER SERVICE LINE (MATCH EXISTING SIZE AND MATERIAL).
- 736 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEEDED AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.
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- 846 AT THE BEGINNING OF THE PROJECT AND PRIOR TO WATERLINE CONSTRUCTION, CONTRACTOR SHALL POTHOLE EXISTING UTILITIES TO VERIFY DEPTH AND BEARING. CONTRACTOR SHALL TRANSITION WATER PIPE AS NEEDED TO MAINTAIN 24" CLEARANCE MINIMUM ABOVE OR BELOW OTHER UTILITIES.



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**CITY OF Grand Junction COLORADO**

SCALES:  
 PLAN & PROFILE  
 HORIZONTAL 1" = 40'  
 VERTICAL 1" = 20'

**PUBLIC WORKS ENGINEERING DIVISION**  
 PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT**  
 DOWNSTREAM PLAN AND PROFILE - 23  
 June 11, 2024

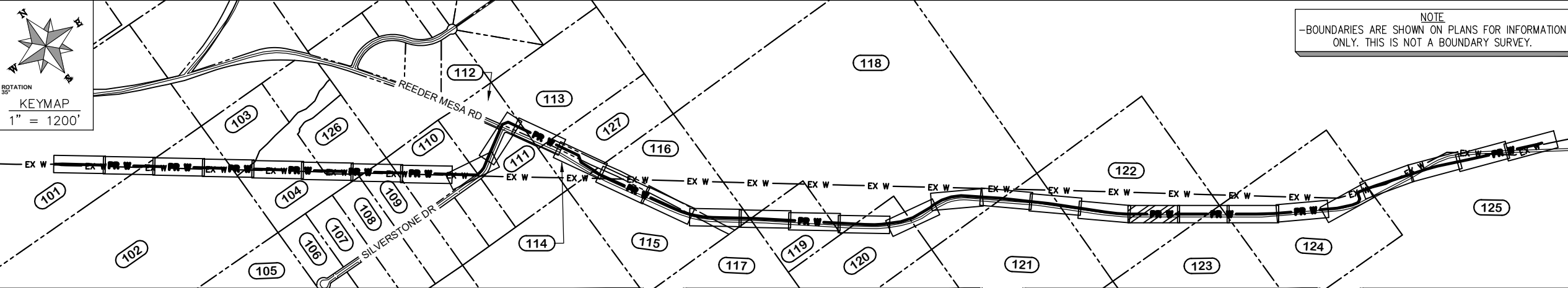
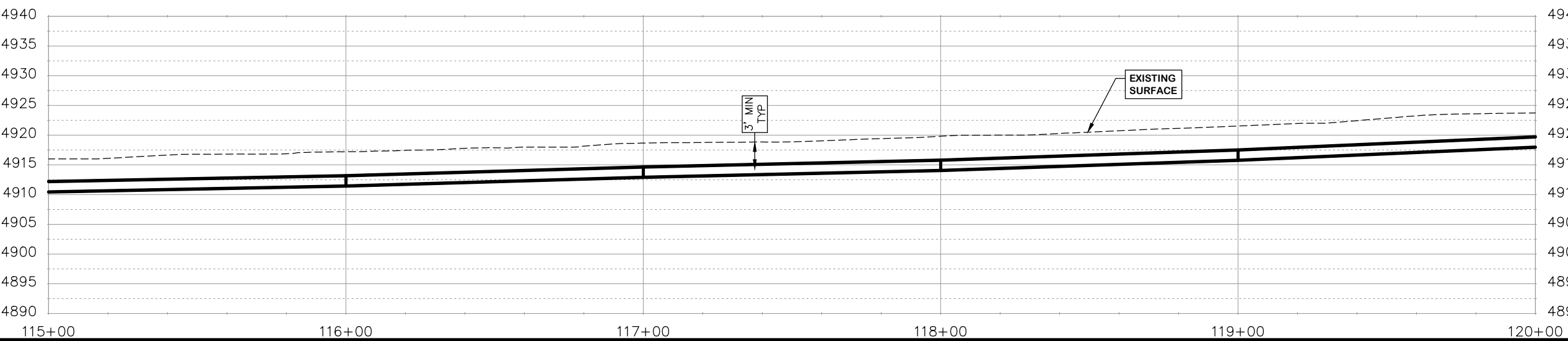
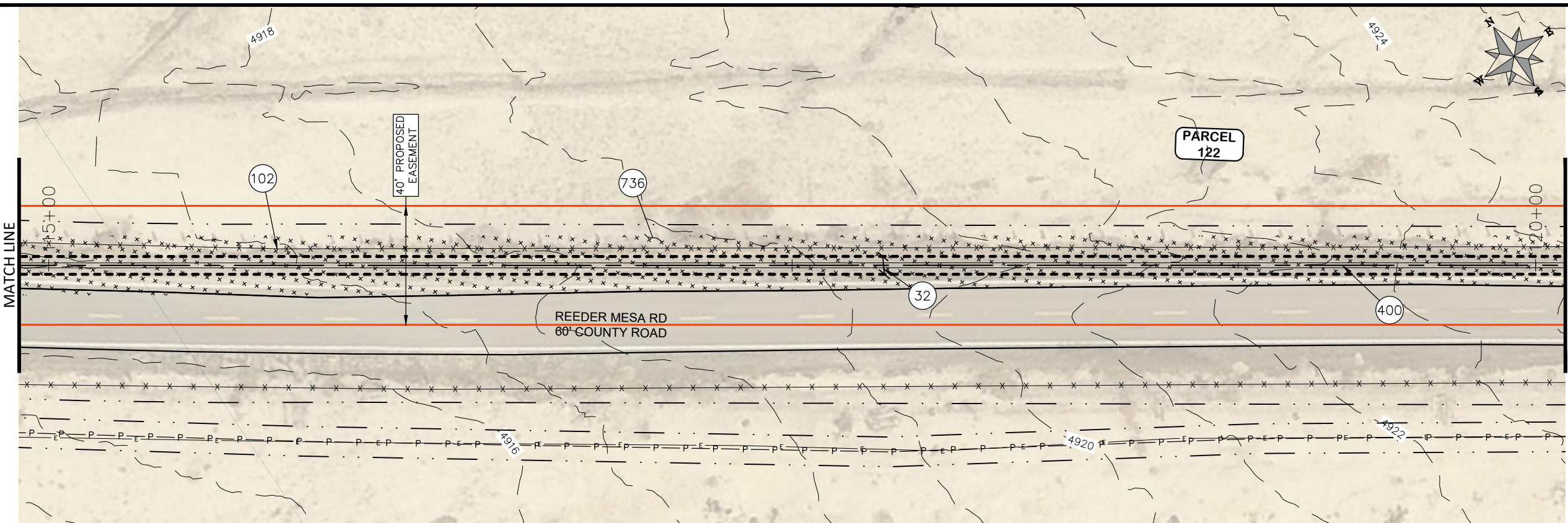
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2969-213-00-131  
 4040 REEDER MESA RD  
 WHITEWATER, CO 81527  
 ALLEN JEFFREY P  
 ALLEN LAURIE A  
 2825 B RD  
 GRAND JUNCTION, CO 81503

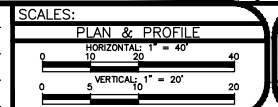
CONSTRUCTION NOTES

- 32 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
- 102 210 - RESET FENCE. (HEIGHT & MATERIAL IN KIND)
- 400 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
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NOTE  
 -ASSUMPTION OF 1" DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE	DRAWN BY	HMC	DATE	2024
REVISION			DESIGNED BY	WC	DATE	2024
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REVISION			APPROVED BY	WC	DATE	2024

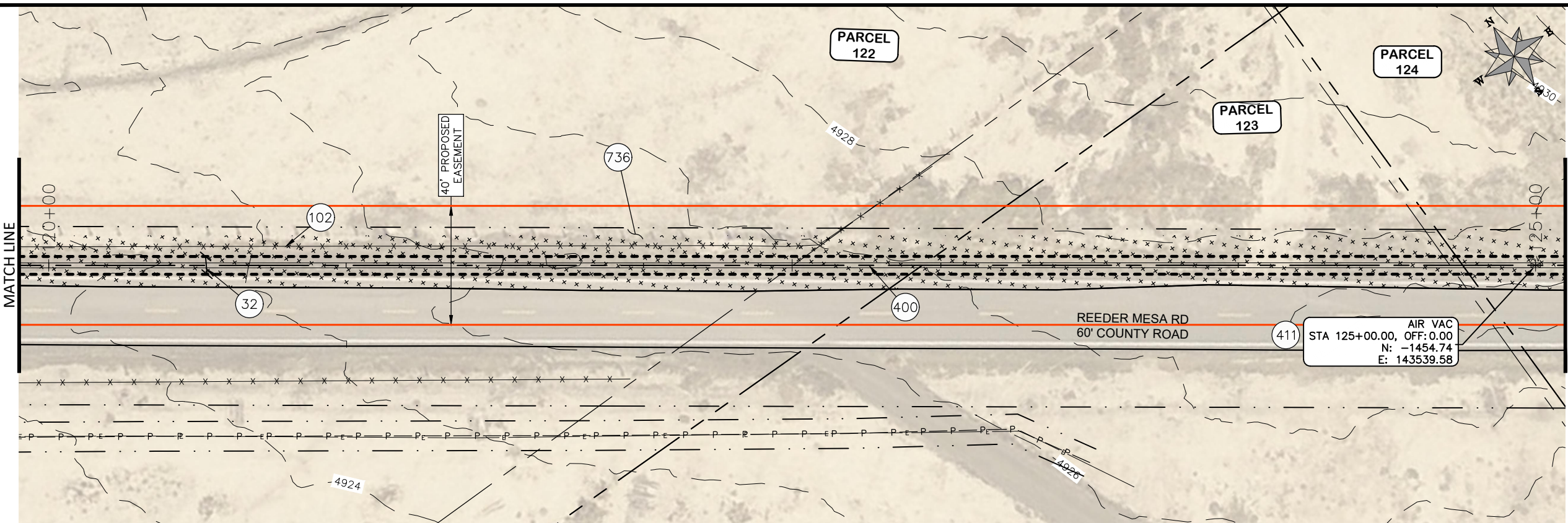


**PUBLIC WORKS ENGINEERING DIVISION**  
 PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT**  
 DOWNSTREAM PLAN AND PROFILE - 24  
 June 11, 2024

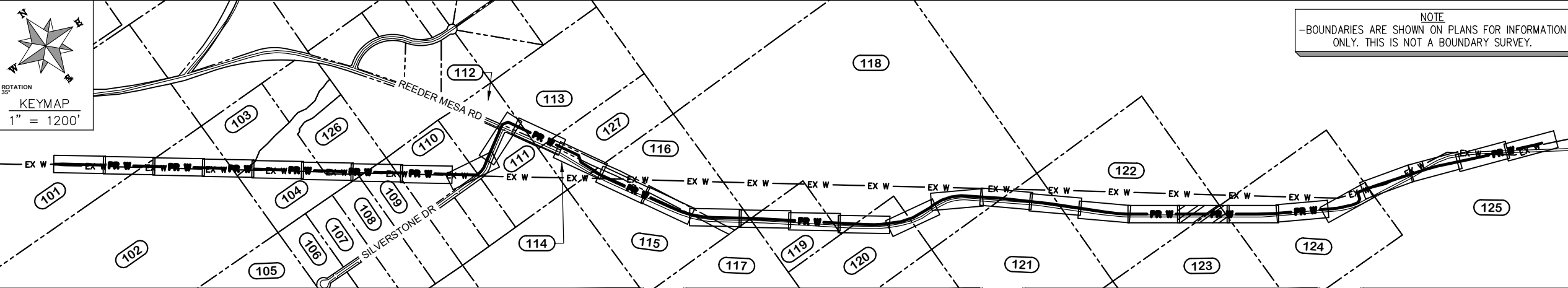
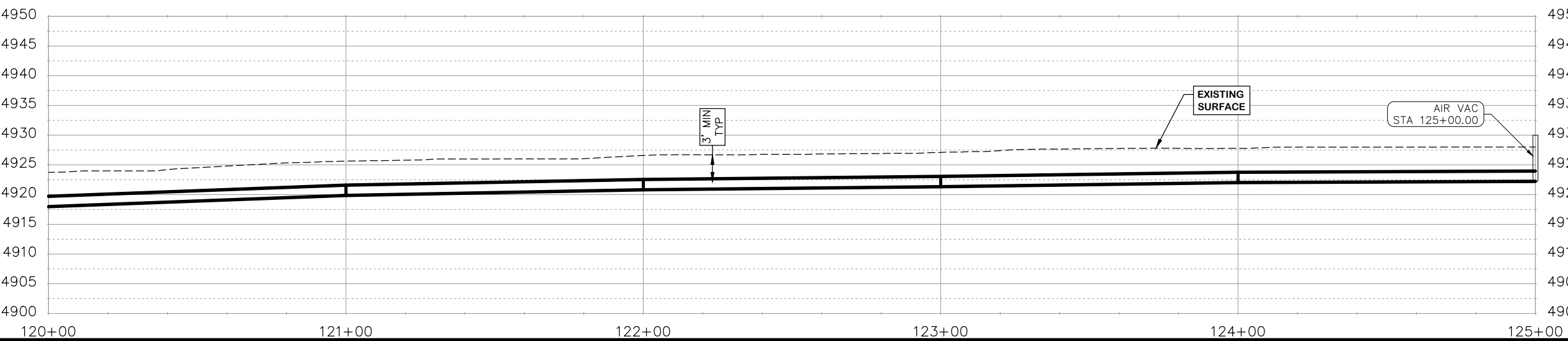
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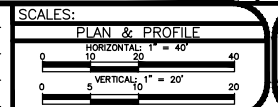
PARCEL TABLE	
122	2969-213-00-131 4040 REEDER MESA RD WHITEWATER, CO 81527 ALLEN JEFFREY P ALLEN LAURIE A 2825 B RD GRAND JUNCTION, CO 81503
123	2969-213-00-272 4051 REEDER MESA RD WHITEWATER, CO 81527 MOCTEZUMA JAIME CAMACHO 320 1/2 4TH ST CLIFTON, CO 81520
124	2969-213-00-171 4059 REEDER MESA RD WHITEWATER, CO 81527 MOCTEZUMA JAIME CAMACHO CAMACHO SUSANA 320 1/2 4TH ST CLIFTON, CO 81520

CONSTRUCTION NOTES	
32	201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
102	210 - RESET FENCE. (HEIGHT & MATERIAL IN KIND)
400	102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
411	102.8g/102.8h/108.3 - 6" AIR VALVE & VAULT
736	212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEEDED AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.



NOTE  
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REVISION			APPROVED BY	WC	DATE	2024

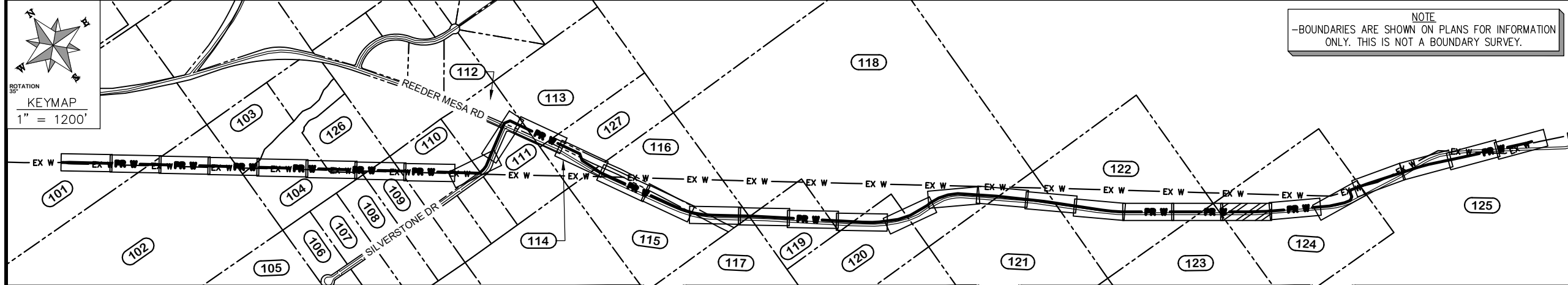
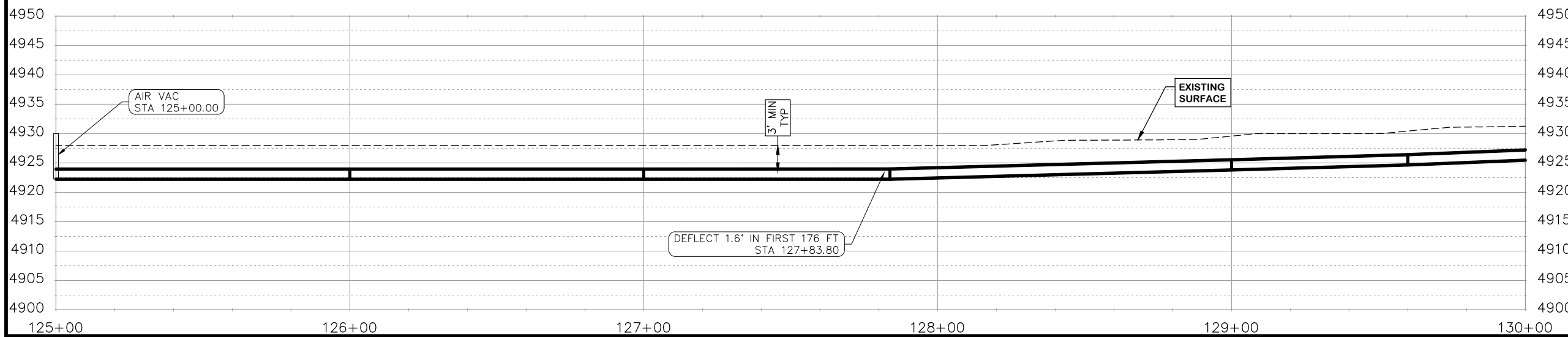
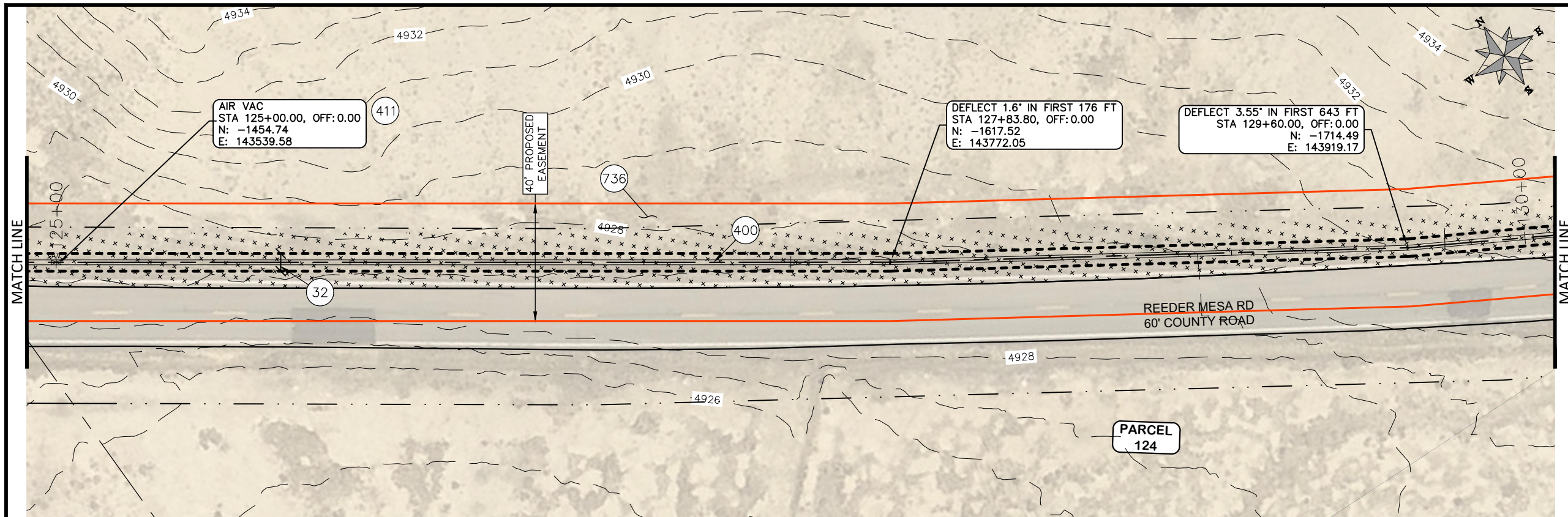


**PUBLIC WORKS ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT**  
DOWNSTREAM PLAN AND PROFILE - 25  
June 11, 2024

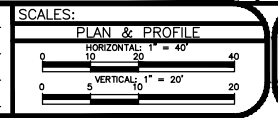
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REVISION	DESCRIPTION	DATE	DRAWN BY	HMC	DATE	2024
REVISION			DESIGNED BY	WC	DATE	2024
REVISION			CHECKED BY	WC	DATE	2024
REVISION			APPROVED BY	WC	DATE	2024

SCALES:	
HORIZONTAL	1" = 40'
VERTICAL	1" = 20'



**PUBLIC WORKS ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

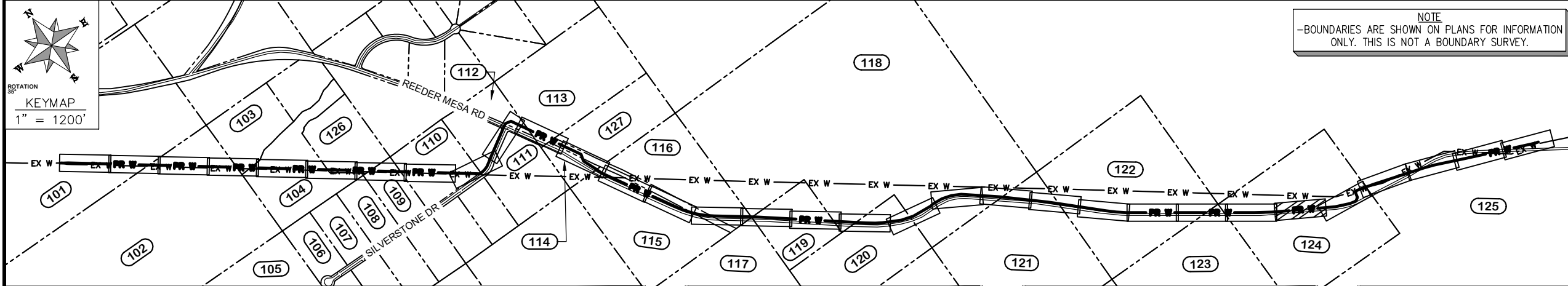
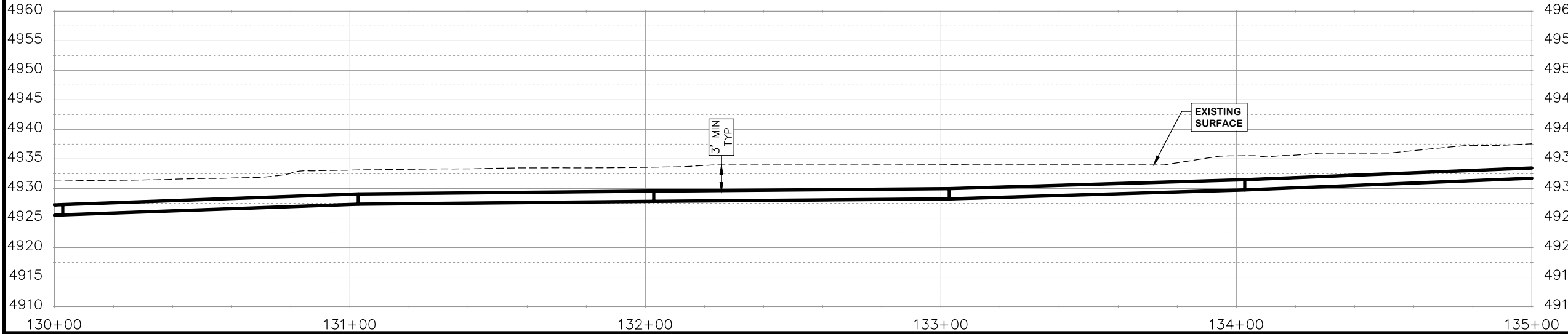
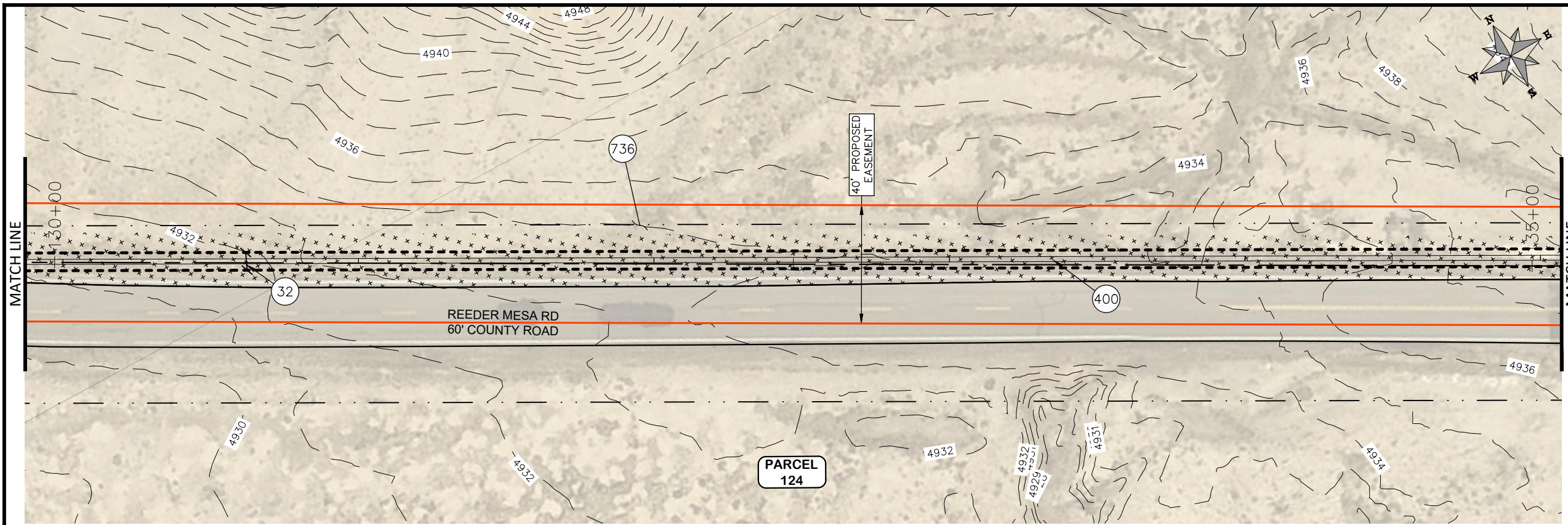
**2022 PURDY MESA FLOWLINE REPLACEMENT**  
DOWNSTREAM PLAN AND PROFILE - 26  
June 11, 2024

Publicworks-wfs\vol\_pw\Data\Landpro\F210401\_Purdy Mesa Flowline 2022\60CAD\DESIGN\WATER DS UTIL PLAN AND PROFILE F210401-2024-03-19.dwg - PLOTTED 6/11/2024 2:44:16 PM

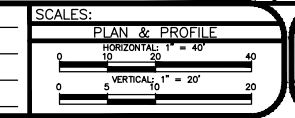


COORDINATES SHOWN IN MCLCS: MESA COUNTY LOCAL COORDINATES SYSTEM

PARCEL TABLE	
124	2969-213-00-171 4059 REEDER MESA RD WHITWATER, CO 81527 MOCTEZUMA JAIME CAMACHO CAMACHO SUSANA 320 1/2 4TH ST CLIFTON, CO 81520
CONSTRUCTION NOTES	
32	201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
409	102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
736	212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEEDED AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.



REVISION	DESCRIPTION	DATE	DRAWN BY	HMC	DATE	2024
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REVISION			CHECKED BY	WC	DATE	2024
REVISION			APPROVED BY	WC	DATE	2024

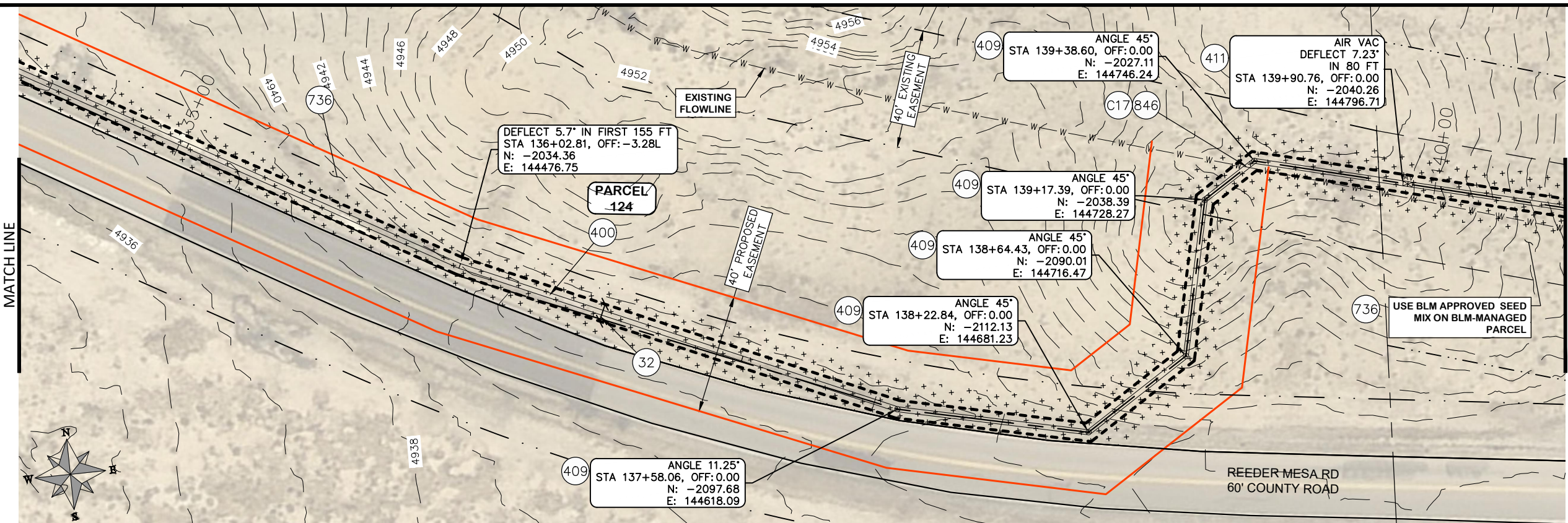


PUBLIC WORKS ENGINEERING DIVISION  
 PROJECT NO. F0006-F000615

2022 PURDY MESA FLOWLINE REPLACEMENT  
 DOWNSTREAM PLAN AND PROFILE - 27  
 June 11, 2024

Publicworks-wfs\vol\_pw\Data\Landproj\F210401\_Purdy Mesa Flowline 2022\60CAD\DESIGN\WATER DS UTIL PLAN AND PROFILE F210401-2024-03-19.dwg - PLOTTED 6/11/2024 2:44:42 PM

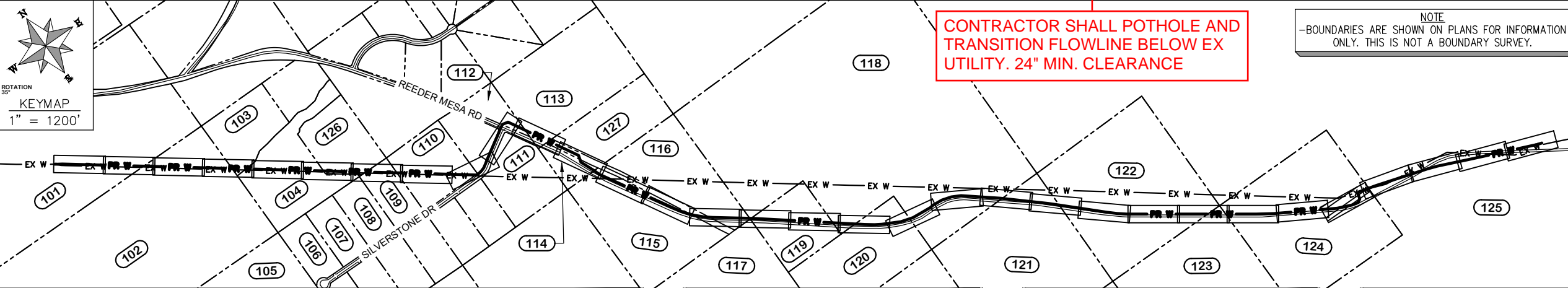
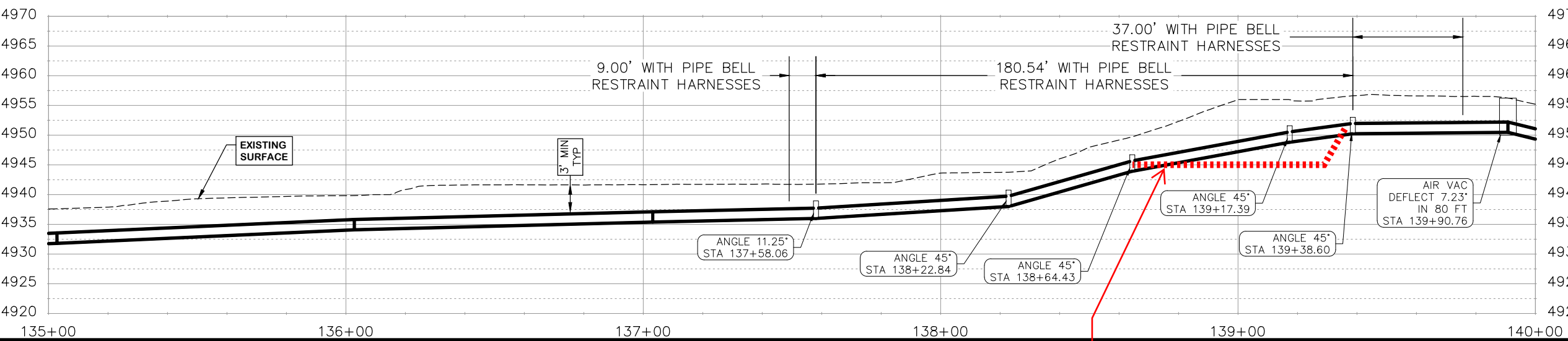




PARCEL TABLE

2969-213-00-171 4059 REEDER MESA RD WHITWATER, CO 81527 MOCTEZUMA JAIME CAMACHO CAMACHO SUSANA 320 1/2 4TH ST CLIFTON, CO 81520
---------------------------------------------------------------------------------------------------------------------------------------------------

- CONSTRUCTION NOTES
- (32) 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
  - (400) 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - (409) 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
  - (411) 102.8g/102.8h/108.3 - 6" AIR VALVE & VAULT
  - (736) 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE MESA COUNTY "SEMI-DESERT SCRUB AND GRASSLAND" SEED MIX SHALL BE BROADCAST-SEEDED AT A RATE OF 19.9 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.
  - (846) AT THE BEGINNING OF THE PROJECT AND PRIOR TO WATERLINE CONSTRUCTION, CONTRACTOR SHALL POTHOLE EXISTING UTILITIES TO VERIFY DEPTH AND BEARING. CONTRACTOR SHALL TRANSITION WATER PIPE AS NEEDED TO MAINTAIN 24" CLEARANCE MINIMUM ABOVE OR BELOW OTHER UTILITIES.



REVISION	DESCRIPTION	DATE	DRAWN BY	HMC	DATE	2024
REVISION			DESIGNED BY	WC	DATE	2024
REVISION			CHECKED BY	WC	DATE	2024
REVISION			APPROVED BY	WC	DATE	2024

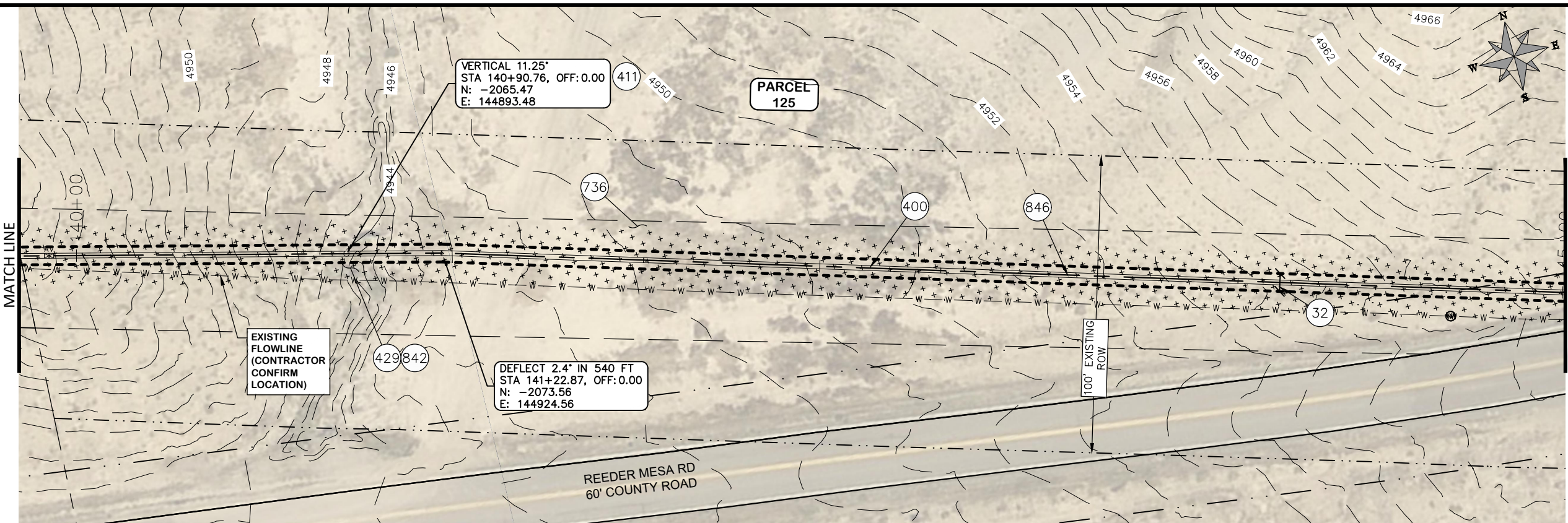
SCALES:  
 PLAN & PROFILE  
 HORIZONTAL 1" = 40'  
 VERTICAL 1" = 20'



PUBLIC WORKS  
ENGINEERING DIVISION  
PROJECT NO. F0006-F000615

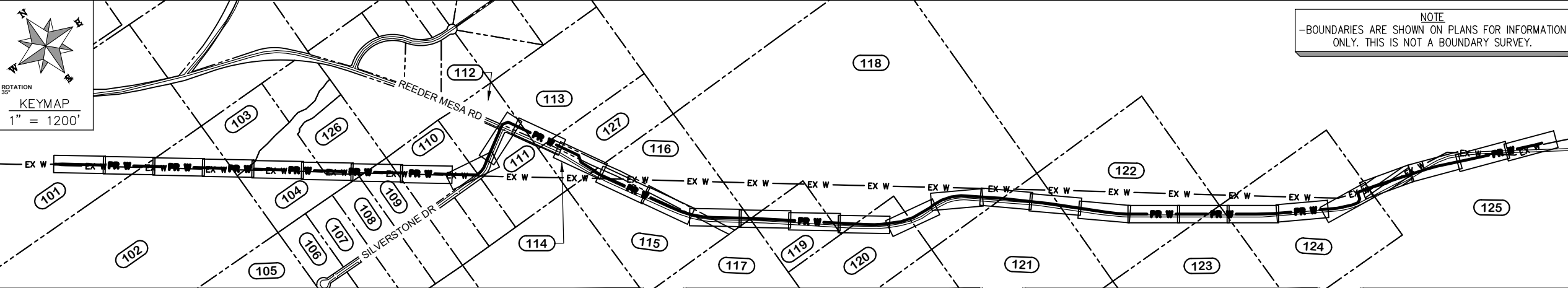
2022 PURDY MESA FLOWLINE REPLACEMENT  
DOWNSTREAM PLAN AND PROFILE - 28  
June 11, 2024





PARCEL TABLE	
29	2969-163-00-001 1480 WHITWATER CREEK RD WHITWATER, CO 81527 BLM 2815 H RD GRAND JUNCTION, CO 81506

- CONSTRUCTION NOTES**
- (32) 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
  - (400) 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - (411) 102.8g/102.8h/108.3 - 6" AIR VALVE & VAULT
  - (429) ENCASE TOP HALF OF WATER LINE IN CONCRETE PER WATER LINE CONCRETE CAP DETAIL AT WATERWAY CROSSINGS.
  - (736) 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE BLM "LOW ELEVATION SEMI/ SALT-DESERT GRASS/ SHRUBLAND, BASIN BIG SAGEBRUSH" SEED MIX SHALL BE BROADCAST-SEEDED AT A RATE OF 33.4 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.
  - (842) IN WETLAND AREAS AND STREAM CROSSINGS REMOVE THE TOP 2 FEET OF TOPSOIL AND STOCKPILE SEPARATELY. CAP THE TRENCH BACKFILL USING THIS TOPSOIL (12 INCHES MINIMUM THICKNESS).
  - (846) AT THE BEGINNING OF THE PROJECT AND PRIOR TO WATERLINE CONSTRUCTION, CONTRACTOR SHALL POTHOLE EXISTING UTILITIES TO VERIFY DEPTH AND BEARING. CONTRACTOR SHALL TRANSITION WATER PIPE AS NEEDED TO MAINTAIN 24" CLEARANCE MINIMUM ABOVE OR BELOW OTHER UTILITIES.



REVISION	DESCRIPTION	DATE	DRAWN BY	HMC	DATE	2024
REVISION			DESIGNED BY	WC	DATE	2024
REVISION			CHECKED BY	WC	DATE	2024
REVISION			APPROVED BY	WC	DATE	2024

**SCALES:**

PLAN & PROFILE  
 HORIZONTAL 1" = 40'  
 VERTICAL 1" = 20'

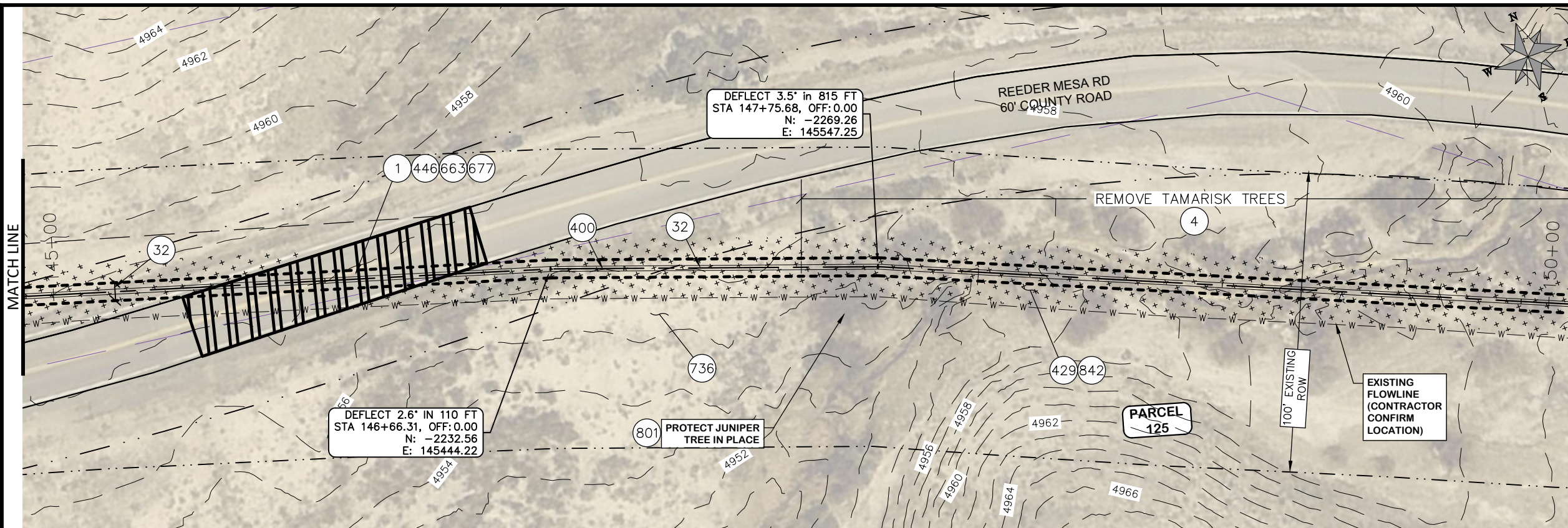


**PUBLIC WORKS ENGINEERING DIVISION**  
 PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT**  
 DOWNSTREAM PLAN AND PROFILE - 29  
 June 11, 2024

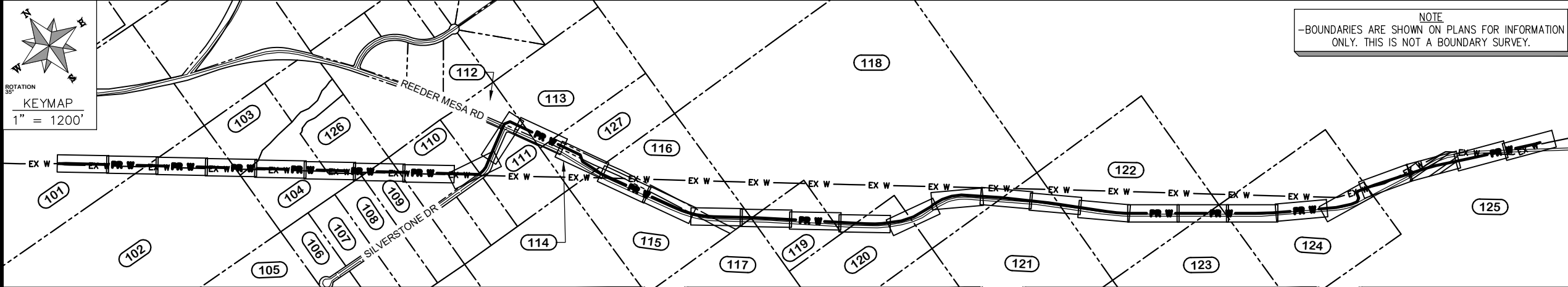
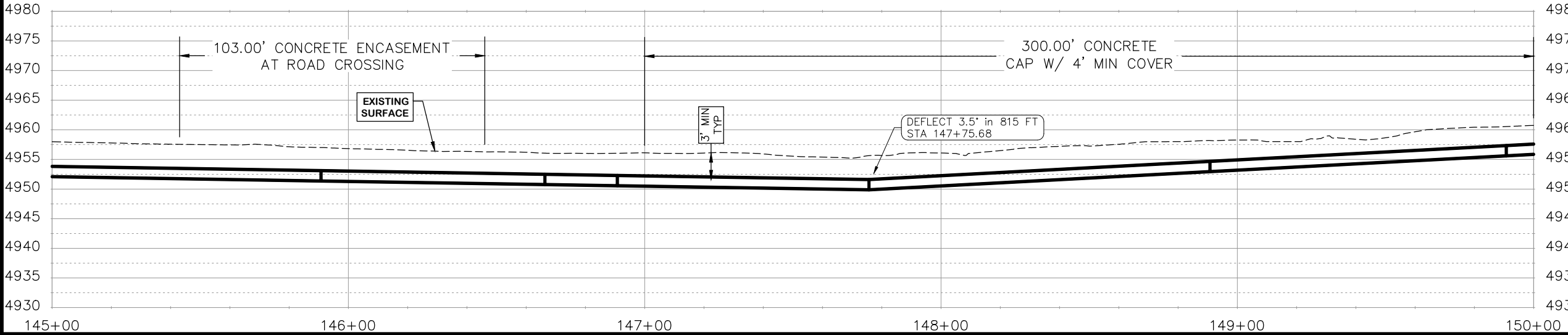
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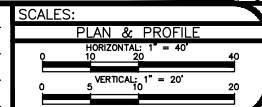
PARCEL TABLE	
125	2969-163-00-001 1480 WHITEWATER CREEK RD WHITEWATER, CO 81527 BLM 2815 H RD GRAND JUNCTION, CO 81506

- CONSTRUCTION NOTES**
- 1 [Symbol] 202 - REMOVAL OF ASPHALT MAT. CUT & REMOVE ASPHALT AS SHOWN. (INDICATED BY CROSS HATCH PATTERN)
  - 4 202 - REMOVAL OF TAMARISK TREES (SIZE VARIES)
  - 32 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
  - 400 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 429 ENCASE TOP HALF OF WATER LINE IN CONCRETE PER WATER LINE CONCRETE CAP DETAIL AT WATERWAY CROSSINGS.
  - 446 ROAD CROSSING - SEE T-TOP DETAIL SHEET 5.
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (2" LIFT OVER 3" LIFT)
  - 736 [Symbol] 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE BLM "LOW ELEVATION SEMI/ SALT-DESERT GRASS/ SHRUBLAND, BASIN BIG SAGEBRUSH" SEED MIX SHALL BE BROADCAST-SEEDED AT A RATE OF 33.4 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.
  - 842 IN WETLAND AREAS AND STREAM CROSSINGS REMOVE THE TOP 2 FEET OF TOPSOIL AND STOCKPILE SEPARATELY. CAP THE TRENCH BACKFILL USING THIS TOPSOIL (12 INCHES MINIMUM THICKNESS).
  - 801 PROTECT TREE.



REVISION	DESCRIPTION	DATE
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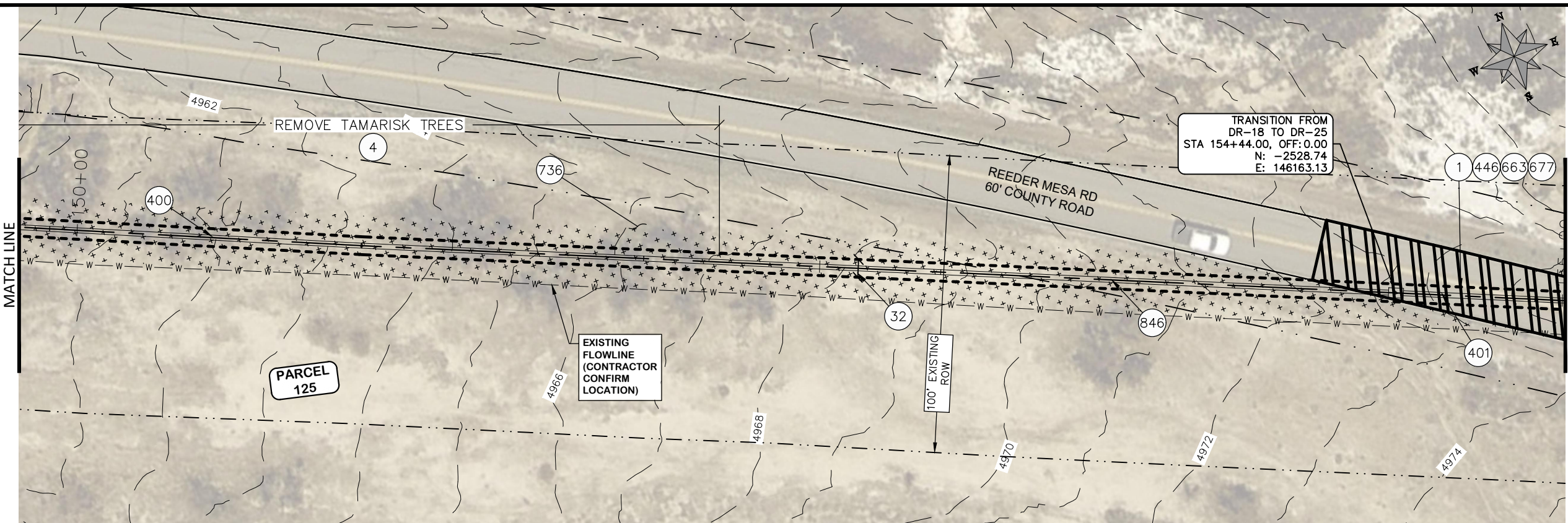
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**PUBLIC WORKS ENGINEERING DIVISION**  
 PROJECT NO. F0006-F000615

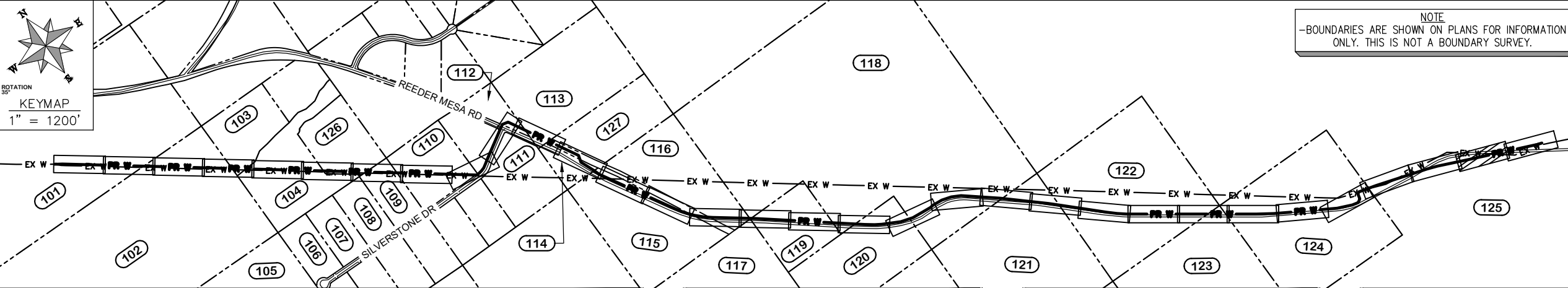
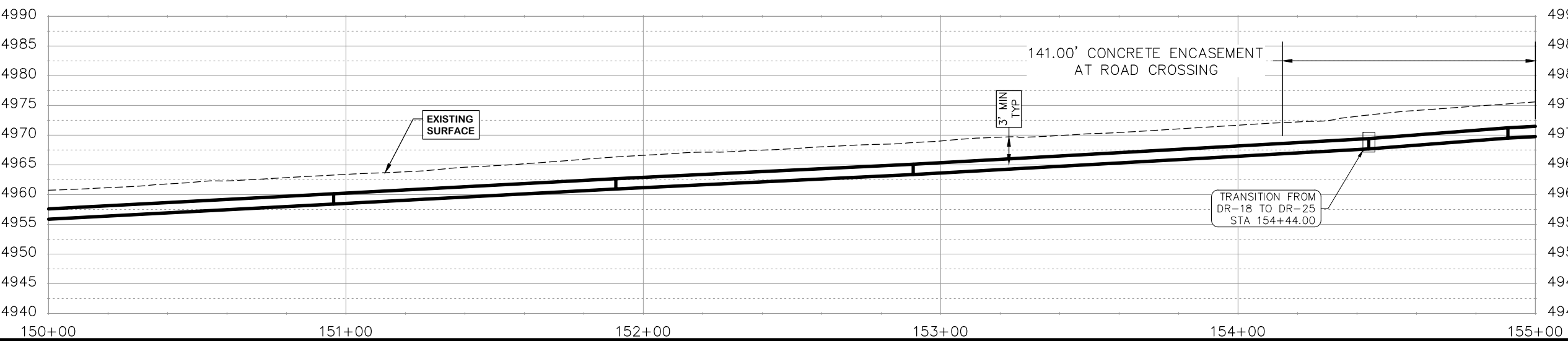
**2022 PURDY MESA FLOWLINE REPLACEMENT**  
 DOWNSTREAM PLAN AND PROFILE - 30  
 June 11, 2024





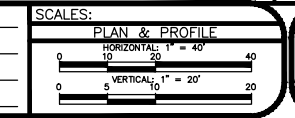
PARCEL TABLE	
125	2969-163-00-001 1480 WHITWATER CREEK RD WHITWATER, CO 81527 BLM 2815 H RD GRAND JUNCTION, CO 81506

- CONSTRUCTION NOTES**
- 1 [Symbol] 202 - REMOVAL OF ASPHALT MAT. CUT & REMOVE ASPHALT AS SHOWN. (INDICATED BY CROSS HATCH PATTERN)
  - 4 202 - REMOVAL OF TAMARISK TREES (SIZE VARIES)
  - 32 201 - CLEARING AND GRUBBING (INCLUDES BRUSH AND TREES)
  - 400 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 401 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-25). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
  - 446 ROAD CROSSING - SEE T-TOP DETAIL SHEET 5.
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (2" LIFT OVER 3" LIFT)
  - 736 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE BLM "LOW ELEVATION SEMI/ SALT-DESERT GRASS/ SHRUBLAND, BASIN BIG SAGEBRUSH" SEED MIX SHALL BE BROADCAST-SEEDED AT A RATE OF 33.4 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.
  - 846 AT THE BEGINNING OF THE PROJECT AND PRIOR TO WATERLINE CONSTRUCTION, CONTRACTOR SHALL POT-HOLE EXISTING UTILITIES TO VERIFY DEPTH AND BEARING. CONTRACTOR SHALL TRANSITION WATER PIPE AS NEEDED TO MAINTAIN 24" CLEARANCE MINIMUM ABOVE OR BELOW OTHER UTILITIES.



NOTE  
-ASSUMPTION OF 1" DEFLECTION IN PIPE JOINT

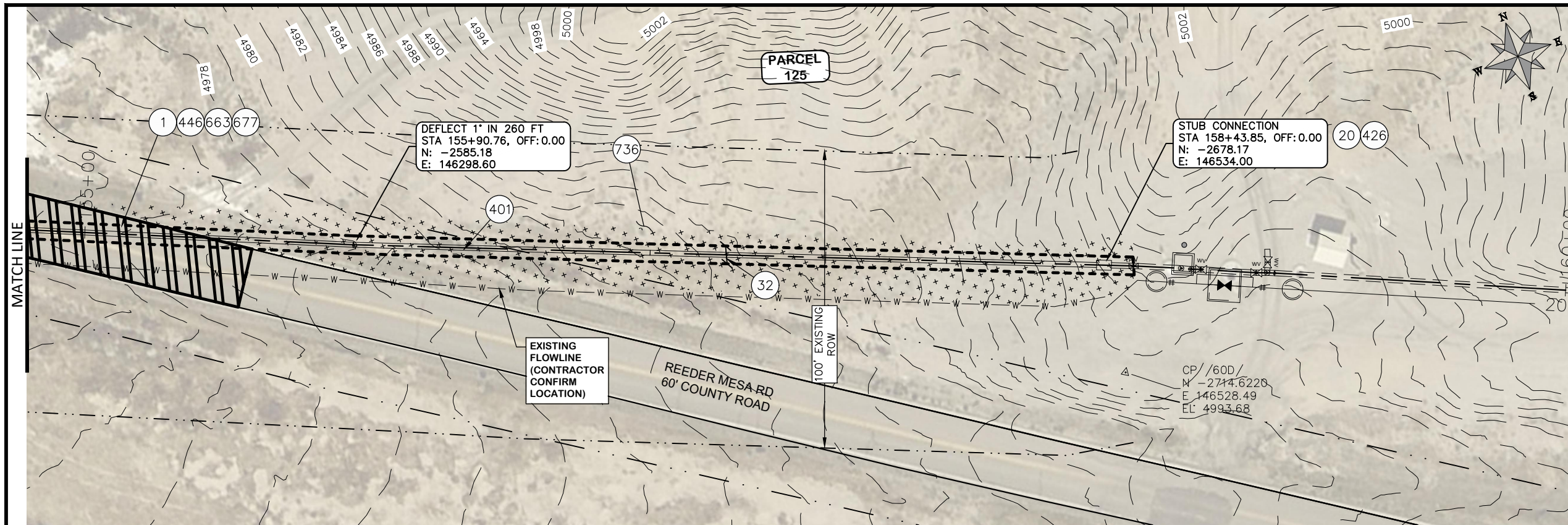
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REVISION			DESIGNED BY	WC	DATE	2024
REVISION			CHECKED BY	WC	DATE	2024
REVISION			APPROVED BY	WC	DATE	2024



PUBLIC WORKS  
ENGINEERING DIVISION  
PROJECT NO. F0006-F000615

2022 PURDY MESA FLOWLINE REPLACEMENT  
DOWNSTREAM PLAN AND PROFILE - 31  
June 11, 2024



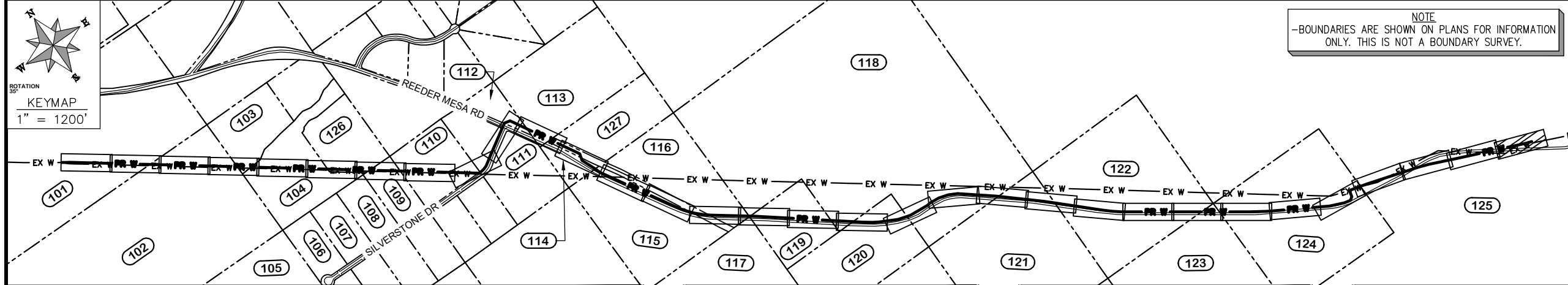
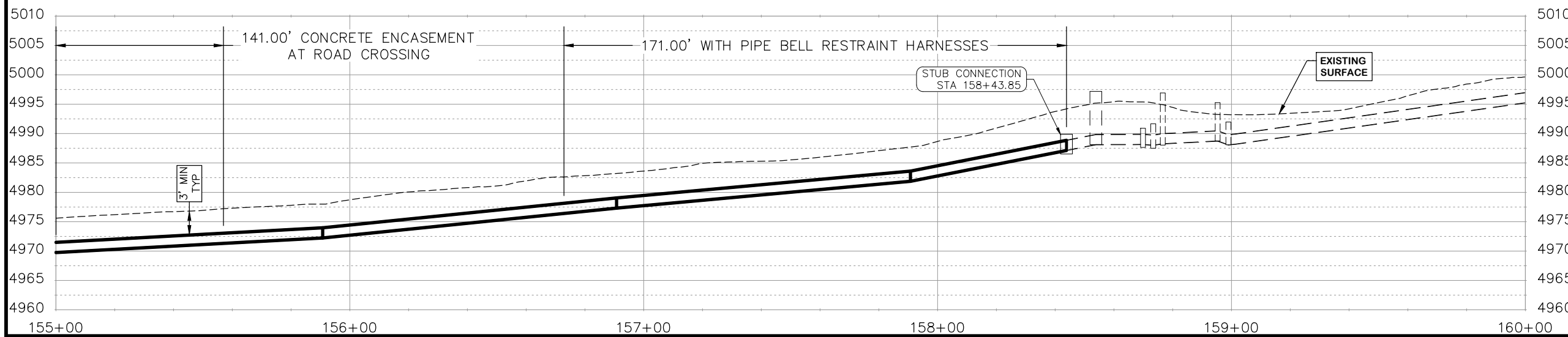


COORDINATES SHOWN IN MCLCS: MESA COUNTY LOCAL COORDINATES SYSTEM

PARCEL TABLE	
125	2969-163-00-001 1480 WHITWATER CREEK RD WHITWATER, CO 81527 BLM 2815 H RD GRAND JUNCTION, CO 81506

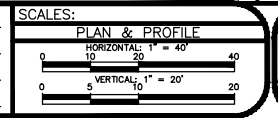
**CONSTRUCTION NOTES**

- 1 202 - REMOVAL OF ASPHALT MAT. CUT & REMOVE ASPHALT AS SHOWN. (INDICATED BY CROSS HATCH PATTERN)
- 20 202 - ABANDON PIPE. ABANDON PIPE BY CAPPING REMAINING ENDS.
- 32 201 - CLEARING AND GRUBBING (INCLUDES AND TREES)
- 401 102.7 / 108.2 - 20" C900 WATER MAIN PIPE (DR-25). INCLUDES BEDDING AND HAUNCHING WITH MOISTURE-CONDITIONED, ONE-INCH MINUS NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES BACKFILL OF TRENCH WITH MOISTURE-CONDITIONED NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 426 CONNECT TO EXISTING WATER PIPE.
- 446 ROAD CROSSING - SEE T-TOP DETAIL SHEET 5.
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (2" LIFT OVER 3" LIFT)
- 736 212 - CONTRACTOR SHALL RE-ESTABLISH VEGETATION AT ALL DISTURBED AREAS. TOPSOIL SHALL BE PUSHED TO THE SIDE PRIOR TO TRENCH EXCAVATION, PRESERVED SEPARATELY, AND SPREAD OVER THE TRENCH BACKFILL. THE BLM "LOW ELEVATION SEMI/ SALT-DESERT GRASS/ SHRUBLAND, BASIN BIG SAGEBRUSH" SEED MIX SHALL BE BROADCAST-SEED AT A RATE OF 33.4 LBS PURE LIVE SEED PER ACRE. A SPRAY-ON MULCH BLANKET AS SPECIFIED IN SECTION 213.02(f) SHALL BE PROVIDED.



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REVISION			APPROVED BY	WC	DATE	2024

SCALES:	
PLAN & PROFILE	
HORIZONTAL	1" = 40'
VERTICAL	1" = 20'



**PUBLIC WORKS ENGINEERING DIVISION**  
PROJECT NO. F0006-F000615

**2022 PURDY MESA FLOWLINE REPLACEMENT**  
DOWNSTREAM PLAN AND PROFILE - 32  
June 11, 2024