

2021 PURDY MESA FLOWLINE REPLACEMENT MONTH, 2021 **PRELIMINARY**

1 COVER	DOWNSTREAM SEGMENT	DOWNSTREAM SEGMENT	UPSTREAM SEGMENT	UPSTREAM SEGMENT
2 LEGEND AND SYMBOLS	8 STA 0+00 TO STA 10+00	16 STA 80+00 TO STA 90+00	24 STA 200+00 TO STA 210+00	33 STA 290+00 TO STA 300+00
3 SUMMARY OF APPROXIMATE QUANTITIES	9 STA 10+00 TO STA 20+00	17 STA 90+00 TO STA 100+00	25 STA 210+00 TO STA 220+00	34 STA 300+00 TO STA 310+00
4 VICINITY MAP	10 STA 20+00 TO STA 30+00	18 STA 100+00 TO STA 110+00	26 STA 220+00 TO STA 230+00	35 STA 310+00 TO STA 320+00
5 GENERAL NOTES	11 STA 30+00 TO STA 40+00	19 STA 110+00 TO STA 120+00	27 STA 230+00 TO STA 240+00	36 STA 320+00 TO STA 330+00
6 DETAILS	12 STA 40+00 TO STA 50+00	20 STA 120+00 TO STA 130+00	28 STA 240+00 TO STA 250+00	37 STA 330+00 TO STA 340+00
7 WETLAND	13 STA 50+00 TO STA 60+00	21 STA 130+00 TO STA 140+00	29 STA 250+00 TO STA 260+00	38 STA 340+00 TO STA 350+00
	14 STA 60+00 TO STA 70+00	22 STA 140+00 TO STA 150+00	30 STA 260+00 TO STA 270+00	39 STA 350+00 TO STA 360+00
	15 STA 70+00 TO STA 80+00	23 STA 150+00 TO STA 155+00	31 STA 270+00 TO STA 280+00	40 STA 360+00 TO STA 370+00
			32 STA 280+00 TO STA 290+00	41 STA 370+00 TO STA 380+00

UTILITIES AND AGENCIES								
AGENCY	NAME	POSITION	ROLE	MAILING ADDRESS	STREET ADDRESS	CITY, STATE	VOICE--WK	FAX
CITY OF GRAND JUNCTION	JOHN EKLUND	PROJECT ENGINEER	PROJECT ENGINEER	333 WEST AVE BLDG C	333 WEST AVE BLDG C	GRAND JCT., CO 81501	(970) 244-1558	(970) 256-4022
CITY OF GRAND JUNCTION	LEE COOPER	PROJECT ENGINEER	SANITARY SEWER	333 WEST AVE BLDG C	333 WEST AVE BLDG C	GRAND JCT., CO 81501	(970) 256-4155	(970) 256-4022
SPECTRUM	JEFF VALDEZ	MANAGER	CABLE TV	2502 FORESIGHT CIRCLE	2502 FORESIGHT CIRCLE	GRAND JCT., CO 81504	(970) 245-8750	(970) 245-6803
CENTURYLINK	CHRIS JOHNSON	ENGINEER	TELEPHONE	2524 BLICHMANN AVE	2524 BLICHMANN AVE	GRAND JCT., CO 81504	(970) 244-4311	(970) 240-4349
XCEL	SARAH DARRICAU	UNIT MANAGER	GAS	2538 BLICHMANN AVE	2538 BLICHMANN AVE	GRAND JCT., CO 81506	(970) 244-2656	(970) 244-2656
GRAND VALLEY POWER	MARK SHAFFER			845 22 RD	845 22 RD	GRAND JCT., CO 81505	(970) 260-8179	

PROJECT NO. F000610	
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.	
DESCRIPTION	DATE
REVISION Δ _____	_____
REVISION Δ _____	_____
REVISION Δ _____	_____
REVISION Δ _____	_____


Public Works
Engineering Division



DRAWING STATUS:	
<input checked="" type="radio"/>	PROGRESS
<input type="radio"/>	FINAL CONSTRUCTION DRAWINGS
<input type="radio"/>	ASBUILT
DESIGNED BY:	
JOHN EKLUND, PROJECT ENGINEER	2021
REVIEWED BY:	
TRENT C. PRALL, PUBLIC WORKS DIRECTOR	2021
AUTHORIZED FOR CONSTRUCTION	
TRENT C. PRALL, PUBLIC WORKS DIRECTOR	2021
ACCEPTED AS CONSTRUCTED	
JOHN EKLUND, PROJECT ENGINEER	2021

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2021 PURDY MESA FLOWLINE REPLACEMENT

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
RI	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
SSUU	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	BSWMP	--- --- --- --- --- --- --- ---
DRAINAGE BASIN BOUNDARY		--- --- --- --- --- --- --- ---
BSWMP	BSWMP	--- --- --- --- --- --- --- ---
ANCHORED STRAW BALES	ASB ASB ASB ASB ASB ASB ASB ASB	
BSWMP	BSWMP	--- --- --- --- --- --- --- ---
SILT FENCE	SF SF SF SF SF SF SF SF	
BUILDING		
CONCRETE CURB AND GUTTER		2' CURB AND GUTTER
CONCRETE CURB, GUTTER, & SIDEWALK		7' C, G, & SW
CONCRETE DITCH		CONCRETE
CONCRETE SIDEWALK		4" SW
CULVERT		18" RCP
EARTH DITCH	EARTH . . . EARTH . . . EARTH . . .	
EDGE OF GRAVEL		---
EDGE OF PAVEMENT		---
FENCE (BARBED WIRE)		---x---x---x---x---
FENCE (CHAIN LINK)		---x---x---x---x---
FENCE (IRON)		---x---x---x---x---
FENCE (PLASTIC)		---x---x---x---x---
FENCE (WOOD)		---x---x---x---x---
FENCE (WOVEN WIRE)		---x---x---x---x---
GUARD RAIL		---x---x---x---x---
HATCHING: INDICATES ASPHALT REMOVAL		
HATCHING: INDICATES CONCRETE REMOVAL		
HATCHING: INDICATES STAGING AREA		
LINE (CENTER OF IMPROVEMENTS)		CENTERLINE
LINE (CITY LIMITS)		CITY LIMITS
LINE (CONTROL)		CONTROL LINE
LINE (EASEMENT)		---
LINE (MONUMENT/SECTION)		MONUMENT/SECTION LINE
LINE (PROPERTY)		---
LINE (RIGHT OF WAY)		---
MATCH LINE	MATCH LINE	SEE SHEET NO ?
PIPE (IRRIGATION)		4" IRR
PIPE (SIPHON)		4" SIPHON

PROPOSED CONCRETE CURB AND GUTTER	
PROPOSED CONCRETE CURB, GUTTER, & SIDEWALK	
PROPOSED CONCRETE SIDEWALK	
PROPOSED "WET" UTILITIES (CONSTRUCTION NOTE WILL INDICATE TYPE, SIZE, AND MATERIAL OF NEW MAIN)	8" PVC SANITARY SEWER
ALL PROPOSED FEATURES NOT SHOWN IN LEGEND WILL BE SHOWN THE SAME AS THEIR EXISTING COUNTERPART, BUT INDICATED BY BOLDER LINETYPE	
RAIL ROAD	
RETAINING WALL	1' RETAINING WALL
STRIPING (CONTINUOUS WHITE)	WHITE
STRIPING (DASHED WHITE)	WHITE
STRIPING (CONTINUOUS YELLOW)	YELLOW
STRIPING (DASHED YELLOW)	YELLOW
TOP OF SLOPE	4570 4580
CONTOUR LINES (SHOWN BETWEEN TOP & TOE)	4570
TOE OF SLOPE	4570
TRAFFIC DETECTOR LOOP	
UTILITY LINE (ABANDON) (THIS CASE A WATER LINE)	W (ABANDON) 8" W
UTILITY LINE (CABLE TV)	TV TV
UTILITY LINE (ELECTRIC)	E E
UTILITY LINE (FIBER OPTIC)	FO OPT-FO
UTILITY LINE (GAS)	G 1 1/4" MBL G
UTILITY LINE (HIGH VOLTAGE OVERHEAD POWER)	HVOP
UTILITY LINE (OVERHEAD POWER)	OHP
UTILITY LINE (OVERHEAD TELEPHONE)	OHT
UTILITY LINE (SANITARY SEWER)	8" SAN
UTILITY LINE (SANITARY SEWER FORCE MAIN)	8" FM
UTILITY LINE (SANITARY SEWER SERVICE)	8" STM
UTILITY LINE (STORM SEWER)	8" STW
UTILITY LINE (STORM SEWER, PERFORATED)	6" PERF
UTILITY LINE (STORM/SANITARY SEWER SEWER COMBINATION)	18" COMB
UTILITY LINE (TELEPHONE)	T T
UTILITY LINE (WATER)	W 8" W

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 (TV)	
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	

NORTH ARROW:

BAR SCALE:

(IN FEET)
1 inch = 20 feet

PRELIMINARY

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REVISION Δ	DESCRIPTION	DATE	PROJECT NO. F000610
REVISION Δ			DRAWN BY JCS DATE 4-02
REVISION Δ			DESIGNED BY DATE
REVISION Δ			CHECKED BY DATE
REVISION Δ			APPROVED BY DATE

SCALES: PLAN & PROFILE



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CITY OF GRAND JUNCTION STANDARD ABBREVIATIONS, LEGEND, AND SYMBOLS

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REVISION	DESCRIPTION	DATE
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PROJECT NO. F000610
DRAWN BY HMC DATE 2021
DESIGNED BY JAE DATE 2021
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APPROVED BY JAE DATE 2021

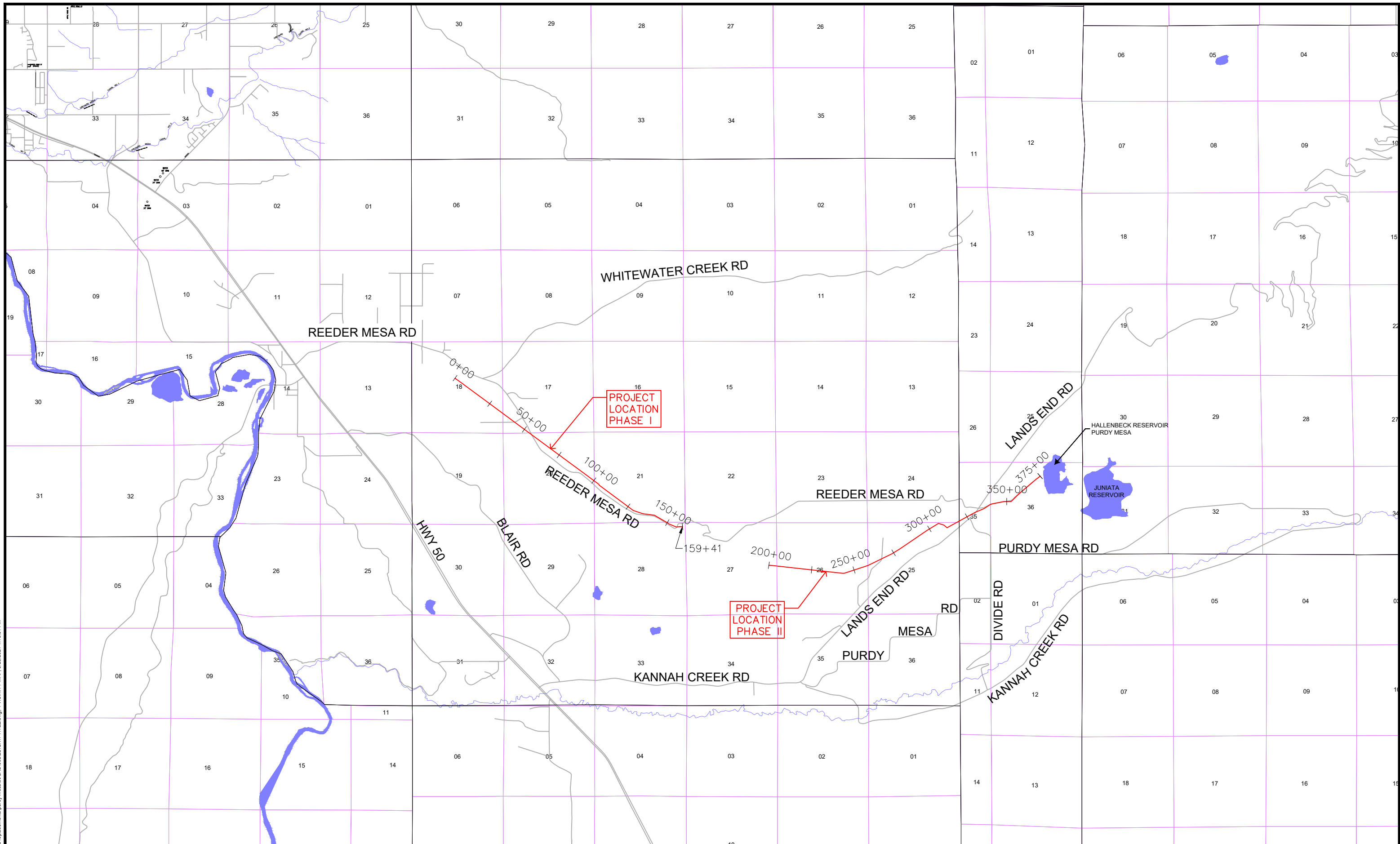
SCALES: PLAN & PROFILE



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PRELIMINARY

2021 PURDY MESA FLOWLINE REPLACEMENT
SUMMARY OF APPROXIMATE QUANTITIES



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REVISION	DESCRIPTION	DATE	PROJECT NO. F000610
REVISION Δ			DRAWN BY HMC DATE 2021
REVISION Δ			DESIGNED BY JAE DATE 2021
REVISION Δ			CHECKED BY JAE DATE 2021
REVISION Δ			APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 5000'	



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**2021 PURDY MESA FLOWLINE REPLACEMENT
VICINITY MAP**

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REVISION	DESCRIPTION	DATE
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PROJECT NO. F000610
DRAWN BY HMC DATE 2021
DESIGNED BY JAE DATE 2021
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APPROVED BY JAE DATE 2021

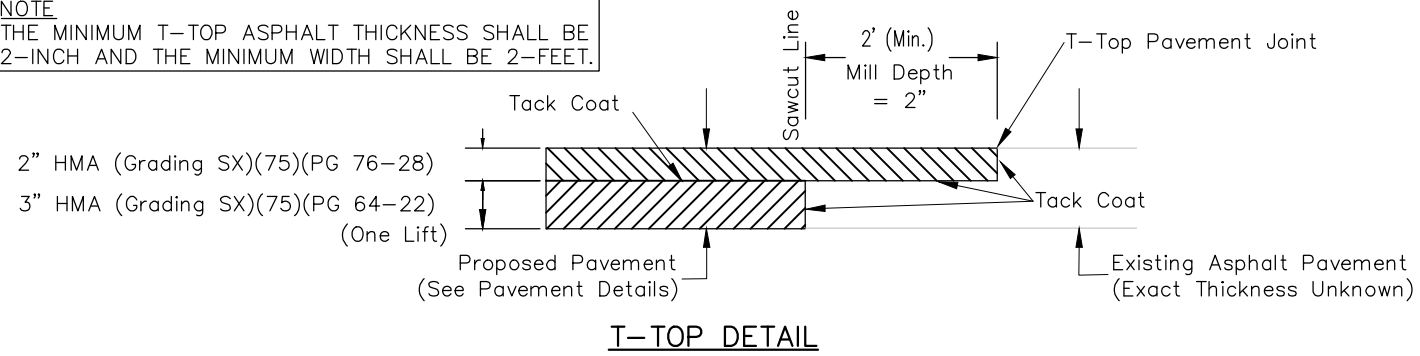
SCALES: PLAN & PROFILE



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PRELIMINARY
2021 PURDY MESA FLOWLINE REPLACEMENT
GENERAL NOTES

NOTE
 THE MINIMUM T-TOP ASPHALT THICKNESS SHALL BE 2-INCH AND THE MINIMUM WIDTH SHALL BE 2-FEET.



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PRELIMINARY

2021 PURDY MESA FLOWLINE REPLACEMENT
 DETAILS

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PROJECT NO. F000610
DRAWN BY HMC DATE 2021
DESIGNED BY JAE DATE 2021
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APPROVED BY JAE DATE 2021

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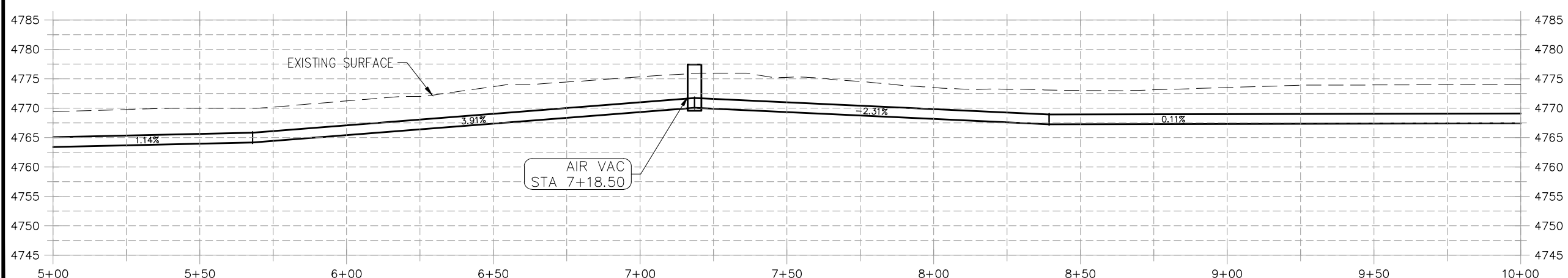
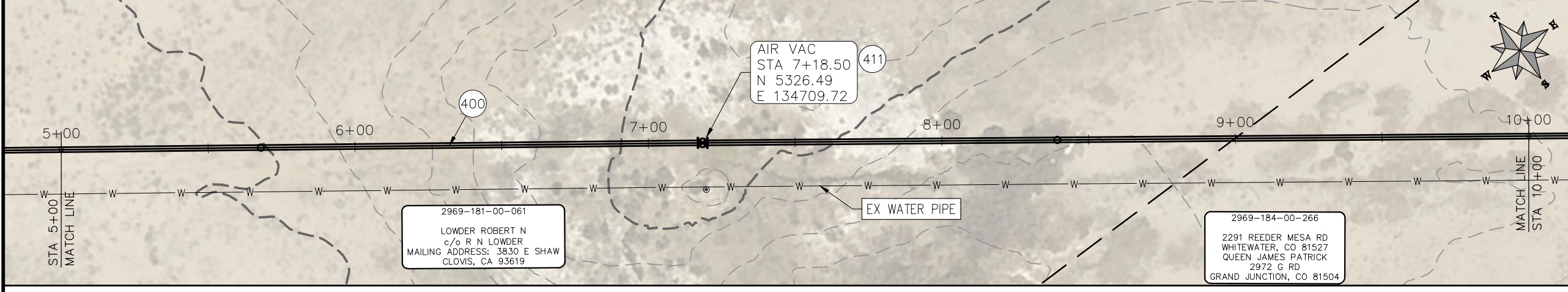
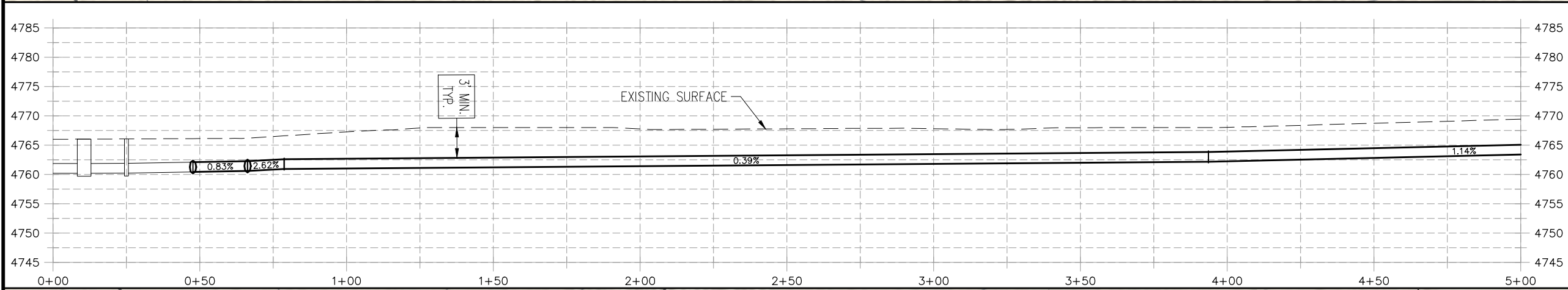
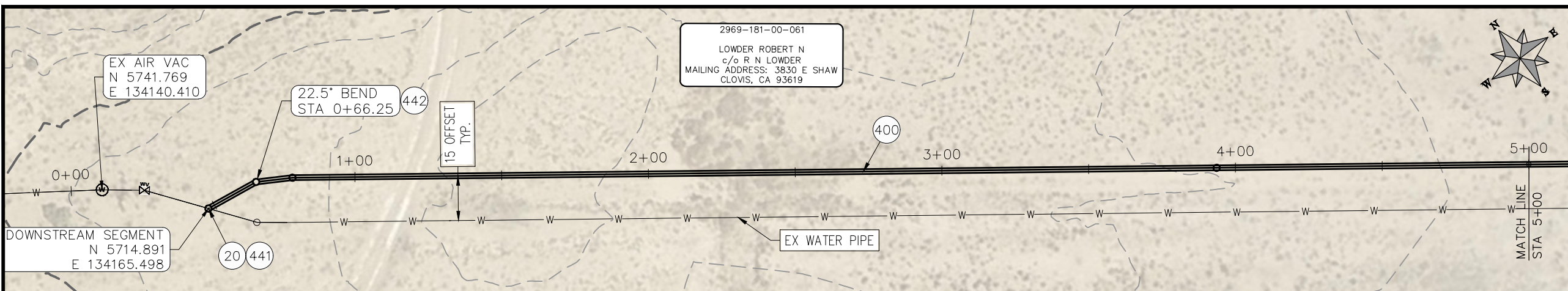
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ENGINEERING DIVISION

2021 PURDY MESA FLOWLINE REPLACEMENT
WETLAND

PRELIMINARY

CONSTRUCTION NOTES

- (20) 202 - ABANDON PIPE. ABANDON PIPE BY PLUGGING REMAINING ENDS WITH CONCRETE
- (400) 102.7/108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (411) 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- (441) 102.8/108.3 - 20", 45° ELBOW
- (442) 102.8/108.3 - 20", 22.5° ELBOW



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
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PROJECT NO: F000610
DRAWN BY HMC DATE 2021
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'

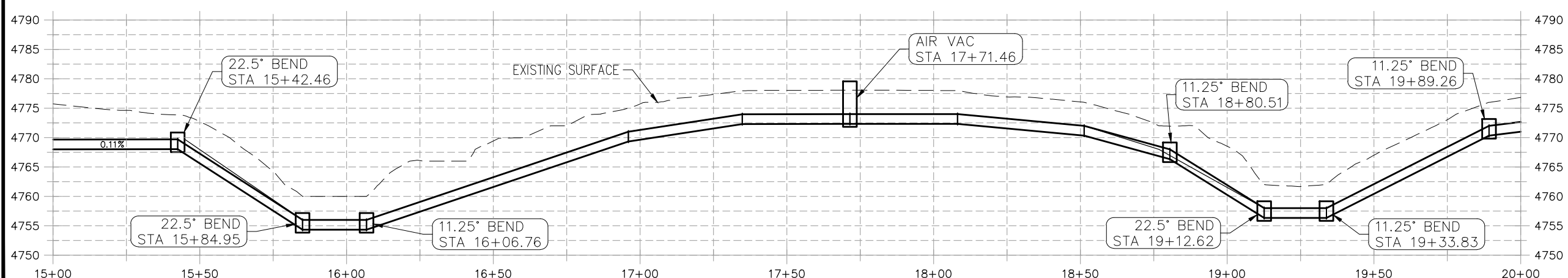
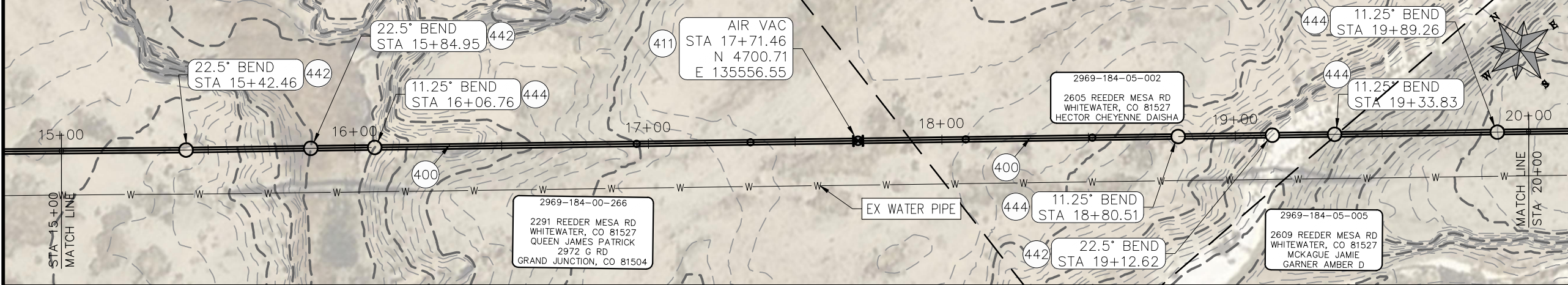
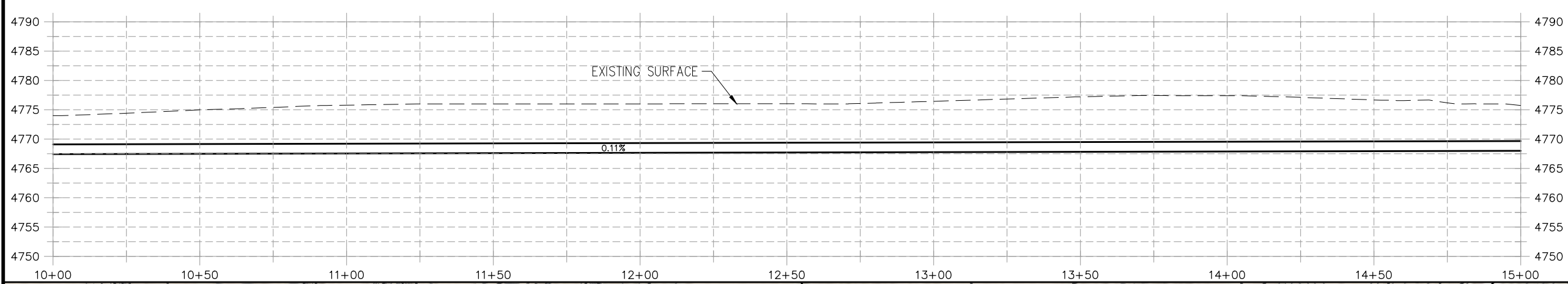
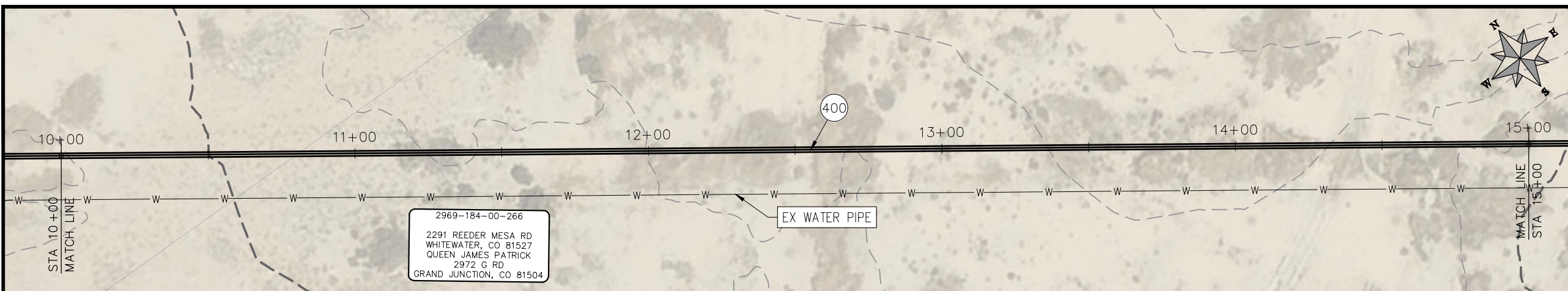


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**2021 PURDY MESA FLOWLINE REPLACEMENT
 DOWNSTREAM SEGMENT PLAN AND PROFILE
 STA 0+00 TO STA 10+00**

CONSTRUCTION NOTES

- 400 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 411 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- 442 102.8/108.3 - 20", 22.5° ELBOW
- 444 102.8/108.3 - 20", 11.25° ELBOW



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
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△		

PROJECT NO: F000610	DRAWN BY: HMC	DATE: 2020
DESIGNED BY: JAE	DATE: 2021	
CHECKED BY: JAE	DATE: 2021	
APPROVED BY: JAE	DATE: 2021	

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 40'	0 10 20 40
VERTICAL: 1" = 5'	0 1.25 2.5 20



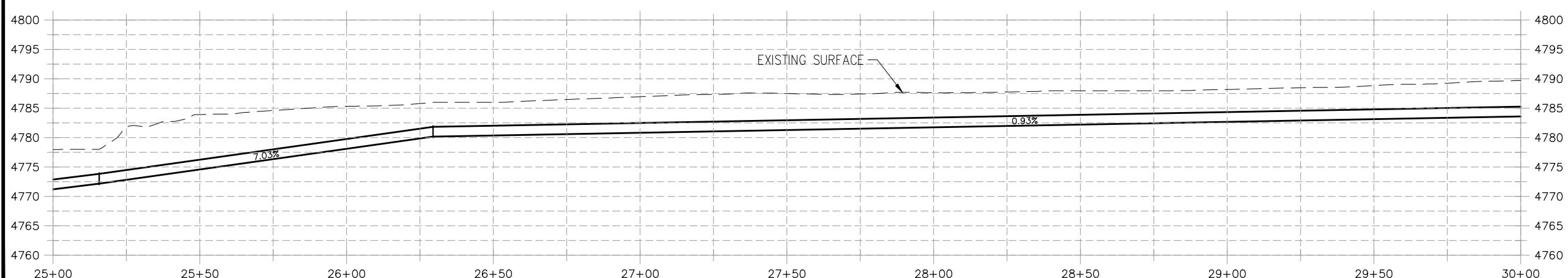
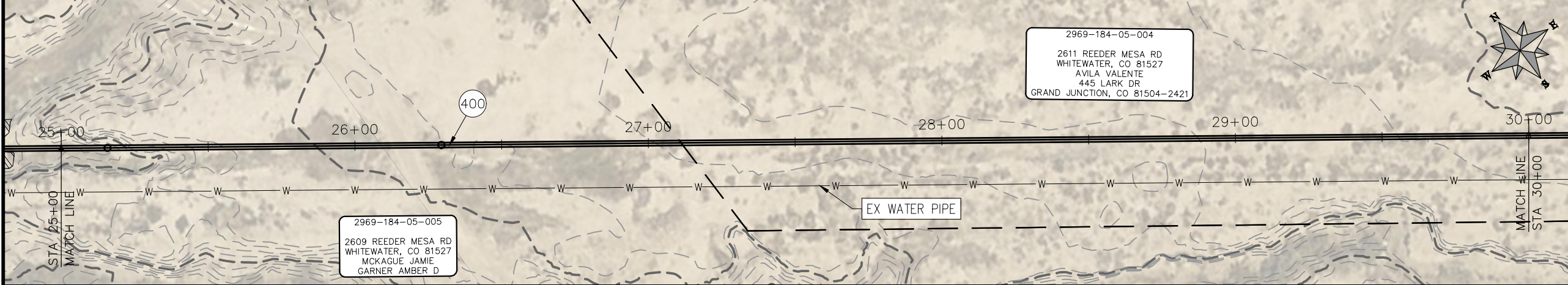
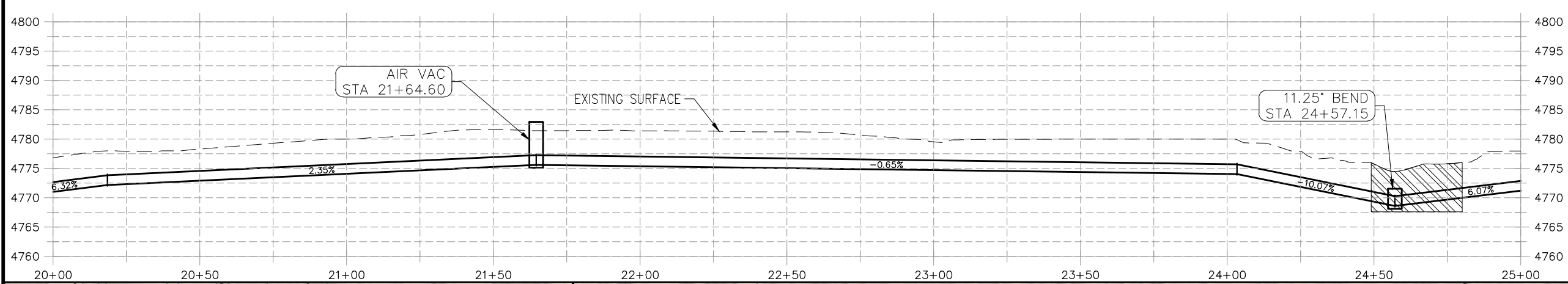
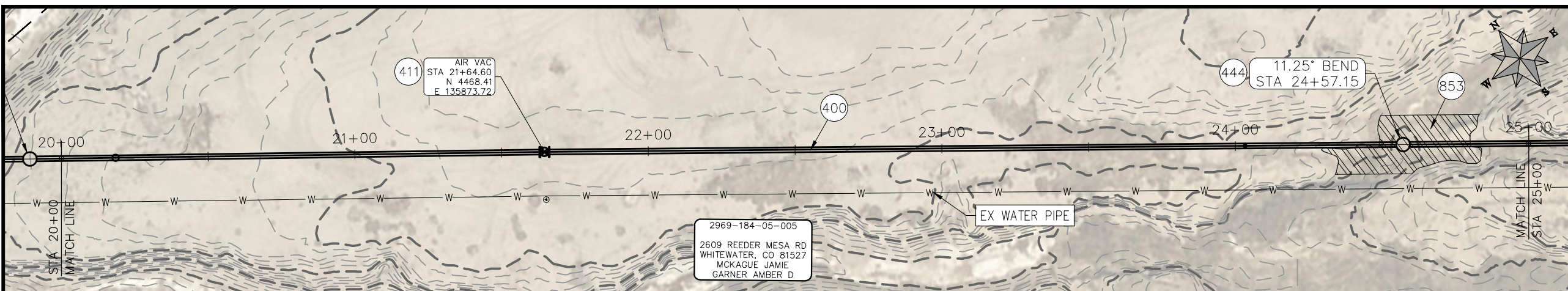
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**2021 PURDY MESA FLOWLINE REPLACEMENT
 DOWNSTREAM SEGMENT PLAN AND PROFILE
 STA 10+00 TO STA 20+00**

n:\landrol\2020 flowline replacements\purdy mesa\60\CAD\000\DESIGN\PHASE LAYOUTS.dwg, 9 STA 10+00, 3/25/2021 11:55:50 AM

CONSTRUCTION NOTES

- (400) 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (411) 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- (444) 102.8/108.3 - 20", 11.25° ELBOW
- (853) SEE WETLAND DETAILS SHEET 7



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE

PROJECT NO: F000610
DRAWN BY HMC DATE 2020
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'



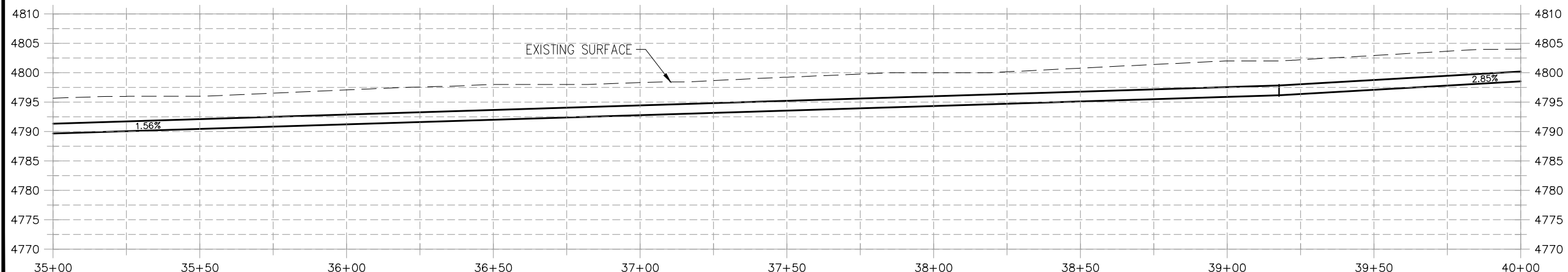
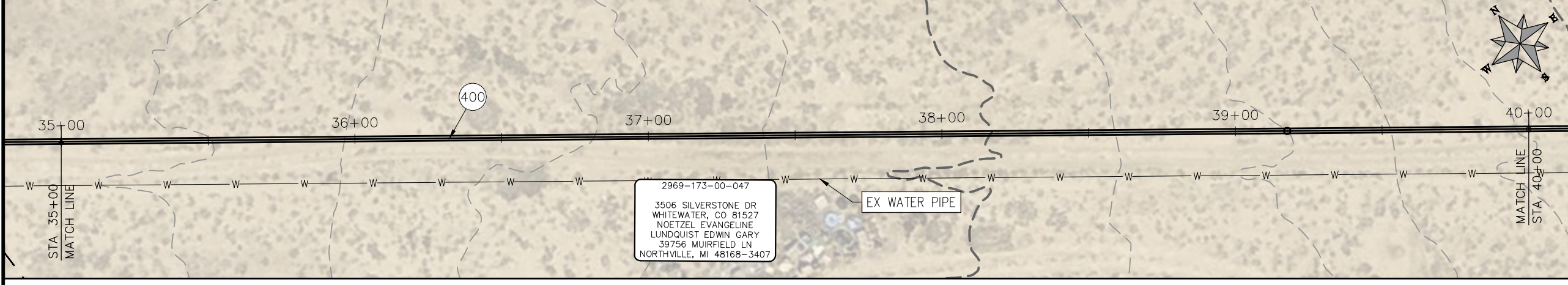
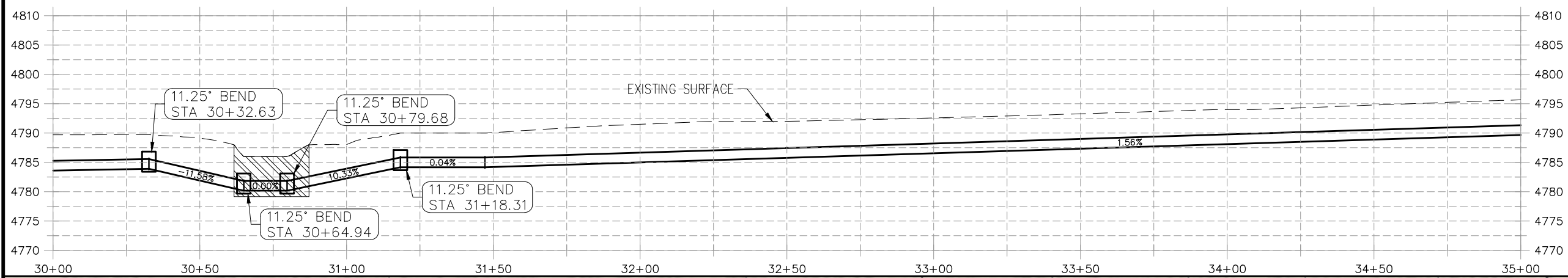
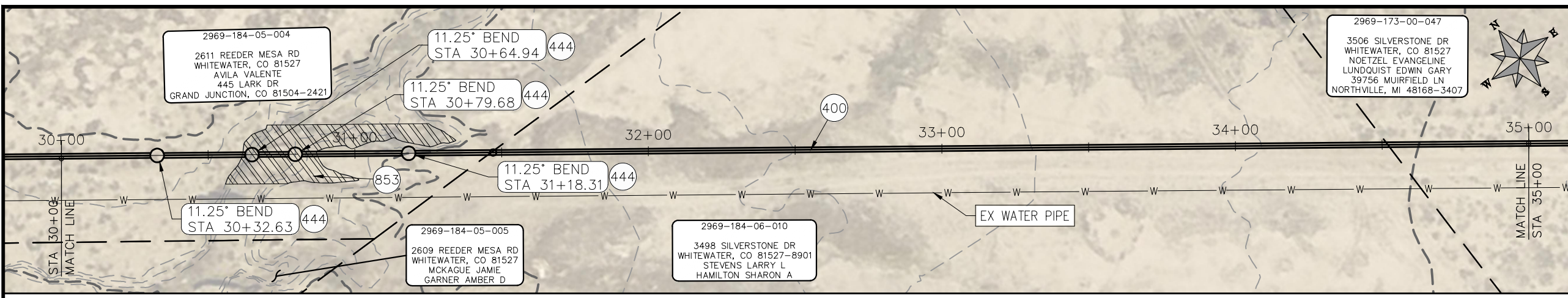
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**2021 PURDY MESA FLOWLINE REPLACEMENT
 DOWNSTREAM SEGMENT PLAN AND PROFILE
 STA 20+00 TO STA 30+00**

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CONSTRUCTION NOTES

- ④00 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- ④44 102.8/108.3 - 20", 11.25° ELBOW
- ⑥53 SEE WETLAND DETAILS SHEET 7



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

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REVISION	DESCRIPTION	DATE
REVISION Δ		
REVISION Δ		
REVISION Δ		
REVISION Δ		

PROJECT NO: F000610
DRAWN BY HMC DATE 2020
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'

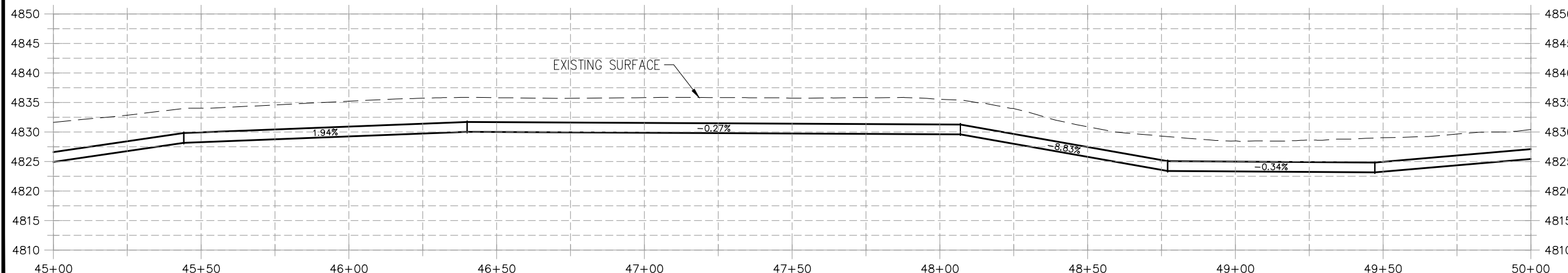
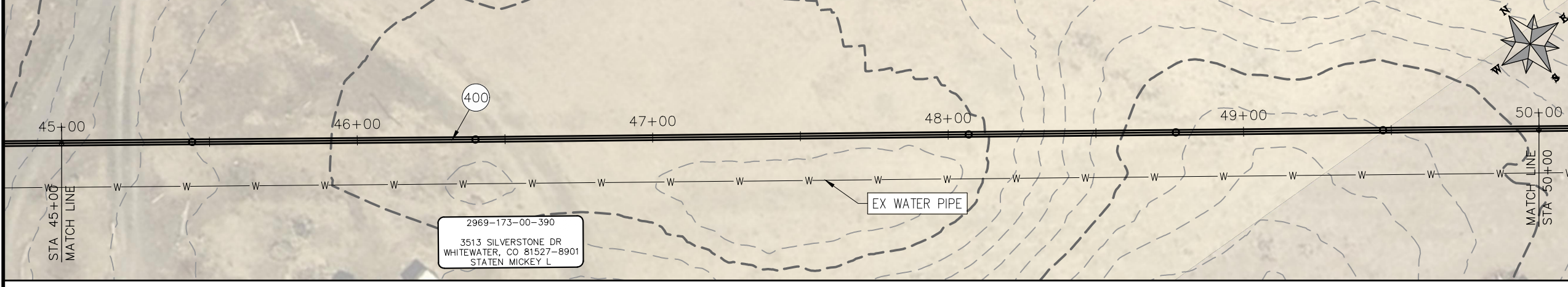
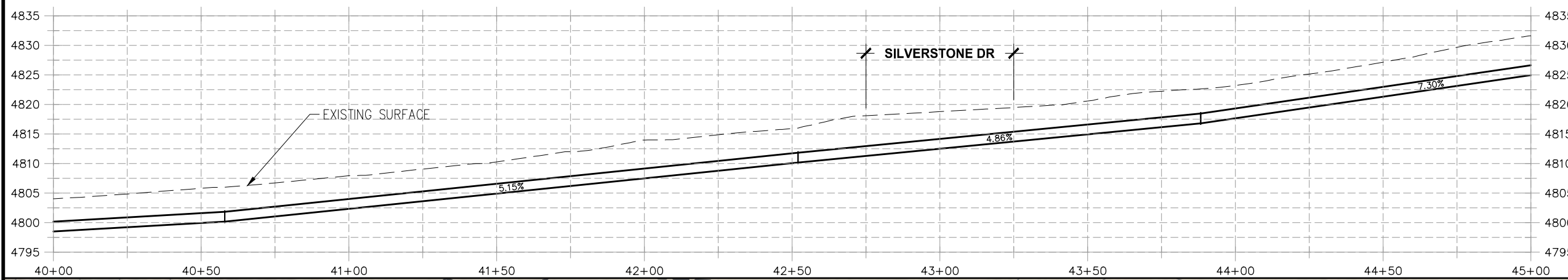
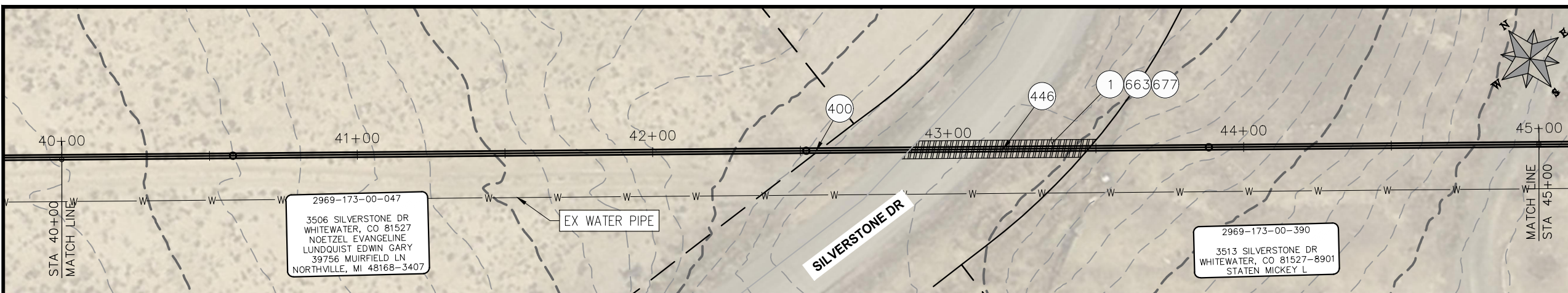


**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 DOWNSTREAM SEGMENT PLAN AND PROFILE
 STA 30+00 TO STA 40+00**

CONSTRUCTION NOTES

- ① 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- ④00 102.7/108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- ④46 ROAD CROSSING - SEE T-TOP DETAIL SHEET 6.
- ⑥63 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- ⑥77 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
△		
△		
△		
△		

PROJECT NO: F000610	DRAWN BY: HMC	DATE: 2020
DESIGNED BY: JAE	DATE: 2021	
CHECKED BY: JAE	DATE: 2021	
APPROVED BY: JAE	DATE: 2021	

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 40'	0 10 20 40
VERTICAL: 1" = 5'	0 1.25 2.5 20



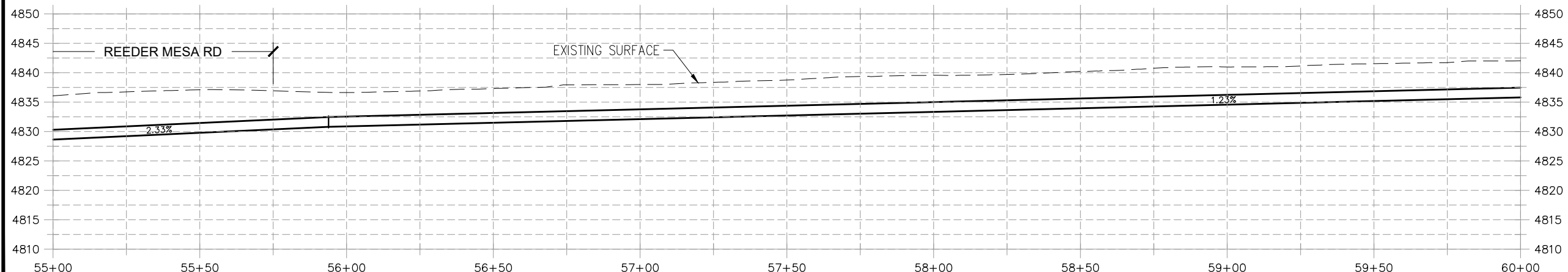
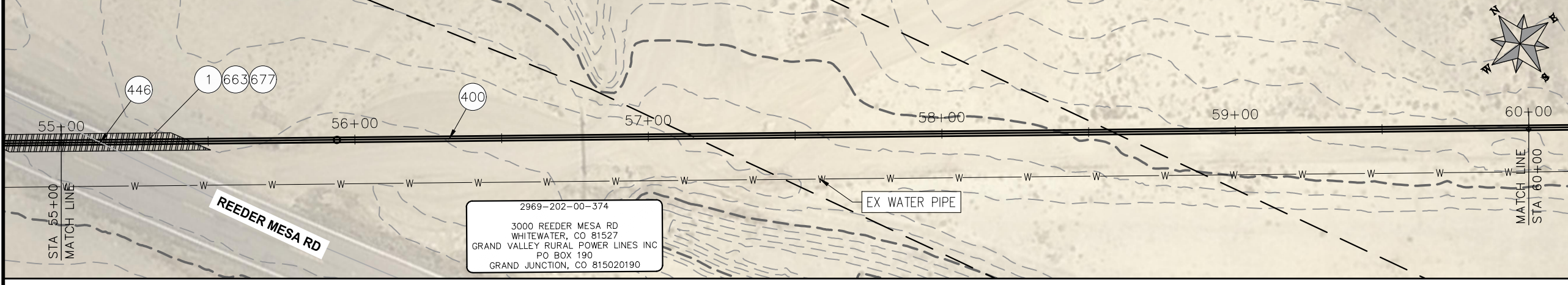
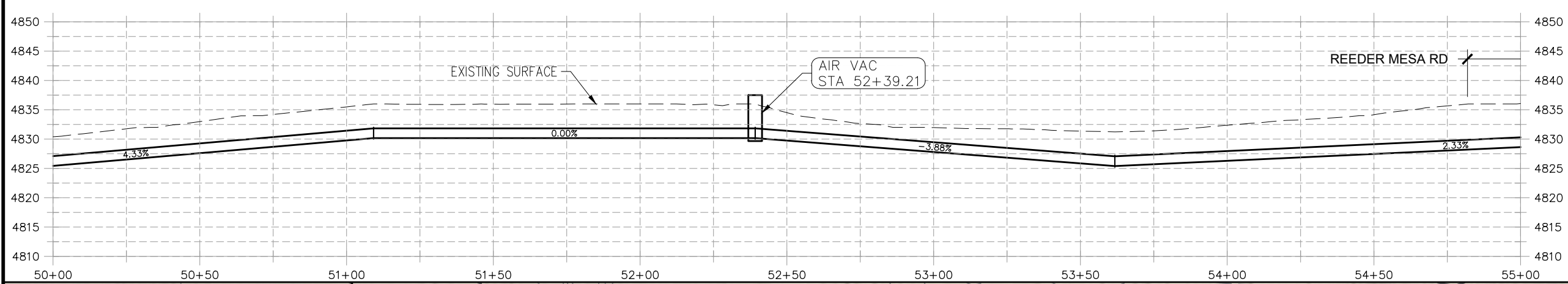
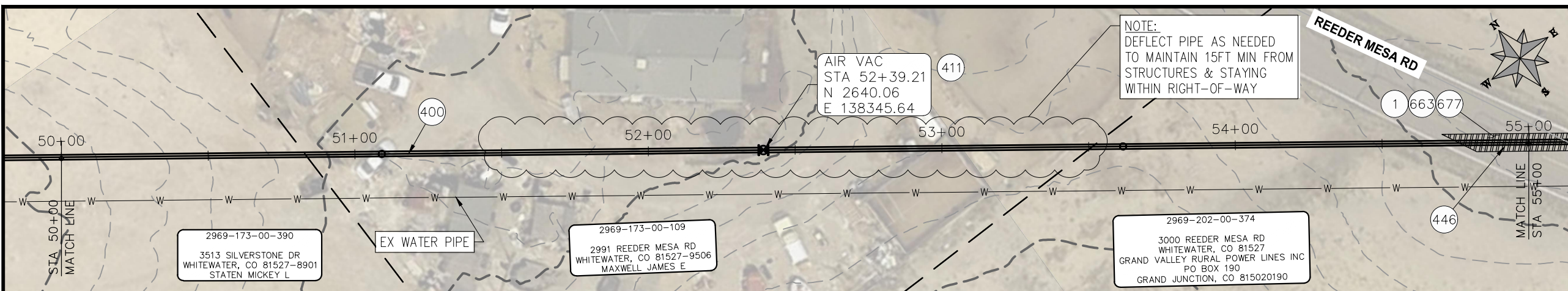
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 DOWNSTREAM SEGMENT PLAN AND PROFILE
 STA 40+00 TO STA 50+00**

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CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 400 102.7/108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 411 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- 446 ROAD CROSSING - SEE T-TOP DETAIL SHEET 6.
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
REVISION Δ		
REVISION Δ		
REVISION Δ		
REVISION Δ		

PROJECT NO: F000610
DRAWN BY HMC DATE 2020
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'

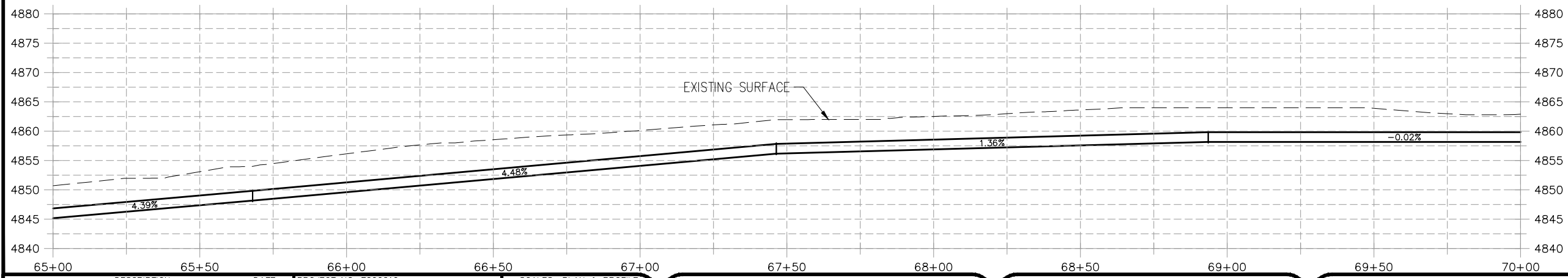
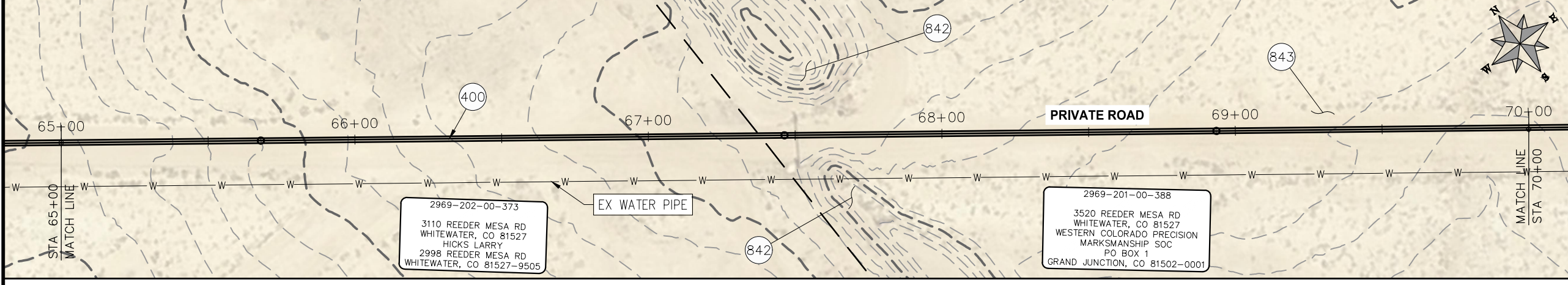
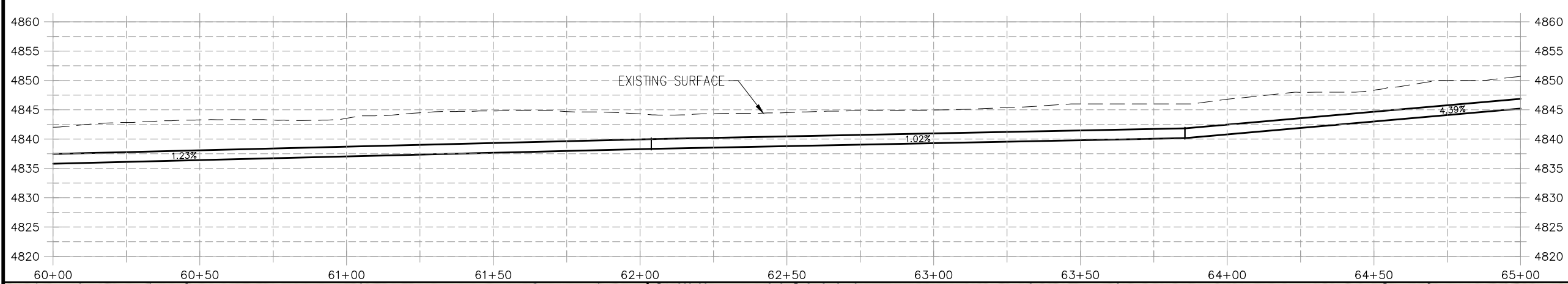
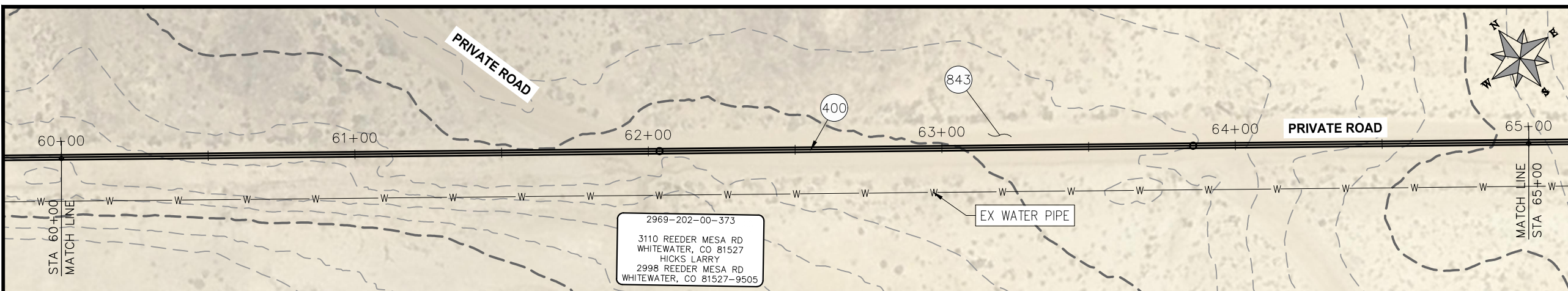


**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 DOWNSTREAM SEGMENT PLAN AND PROFILE
 STA 50+00 TO STA 60+00**

CONSTRUCTION NOTES

- ④00 102.7/108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- ④42 PROTECT EARTHEN BERM
- ④43 REPLACE SURFACE IN KIND



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
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△		
△		
△		

PROJECT NO: F000610	DRAWN BY: HMC	DATE: 2020
DESIGNED BY: JAE	DATE: 2021	
CHECKED BY: JAE	DATE: 2021	
APPROVED BY: JAE	DATE: 2021	

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 40'	0 10 20 40
VERTICAL: 1" = 5'	0 1.25 2.5 20



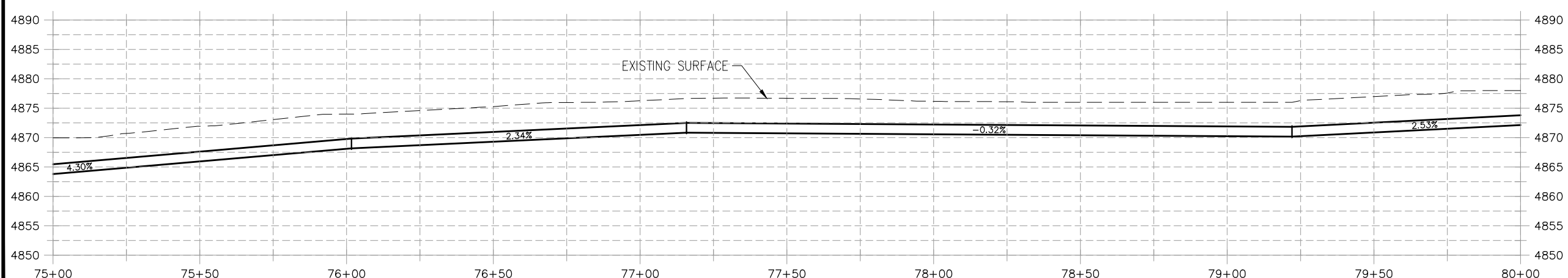
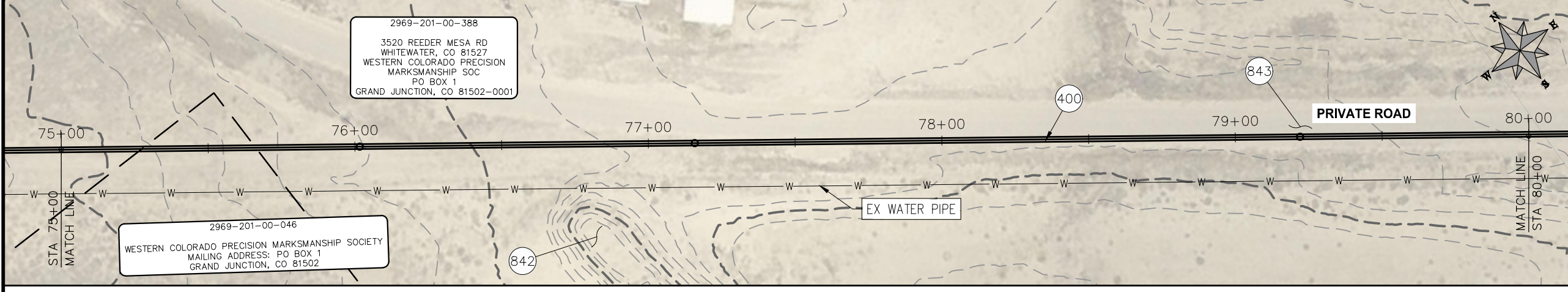
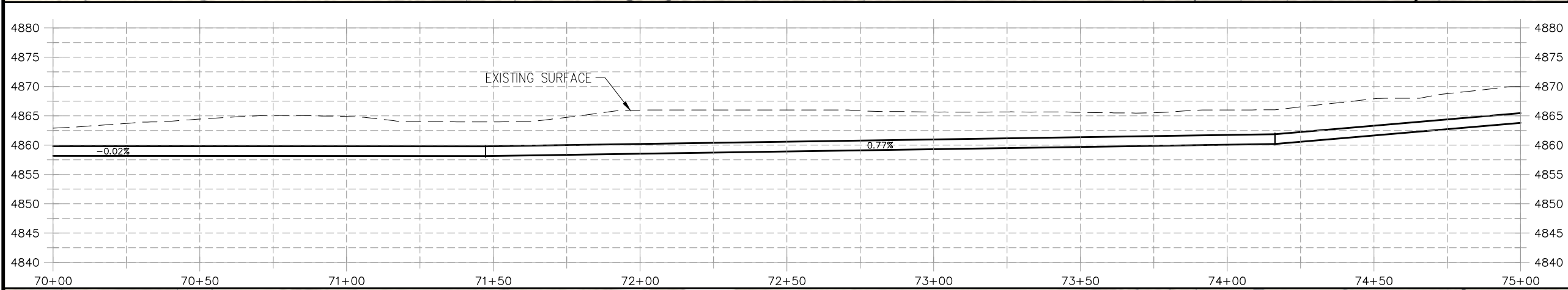
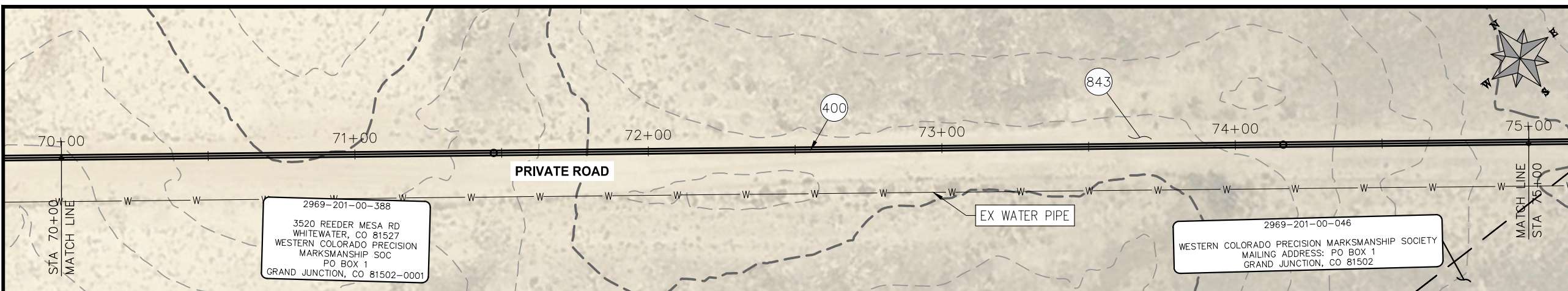
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 DOWNSTREAM SEGMENT PLAN AND PROFILE
 STA 60+00 TO STA 70+00**

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CONSTRUCTION NOTES

- ④00 102.7/108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- ④42 PROTECT EARTHEN BERM
- ④43 REPLACE SURFACE IN KIND



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
△		
△		
△		
△		

PROJECT NO: F000610
DRAWN BY HMC DATE 2020
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'



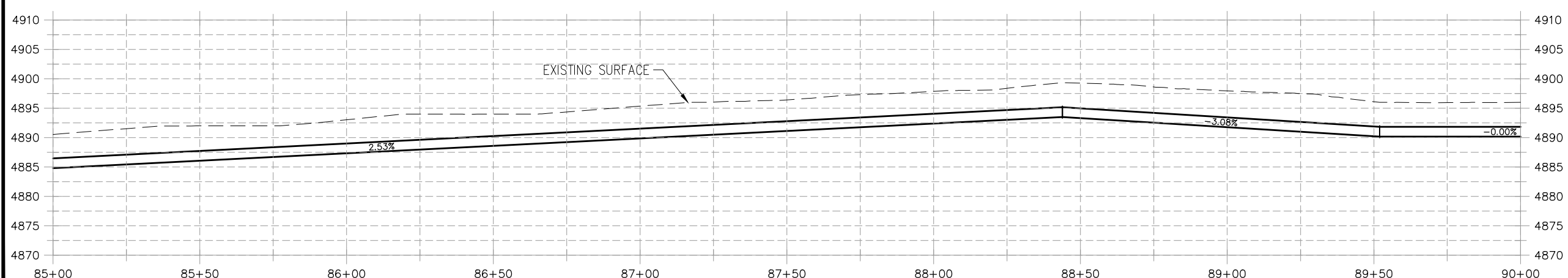
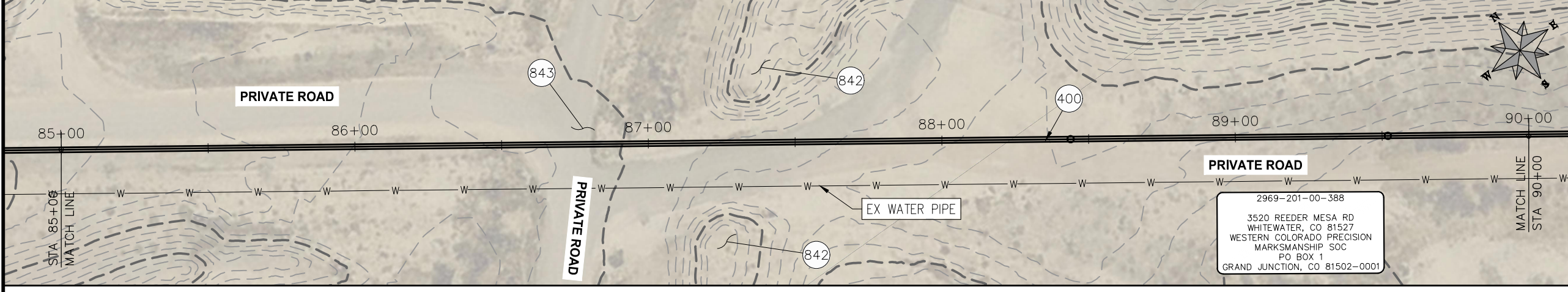
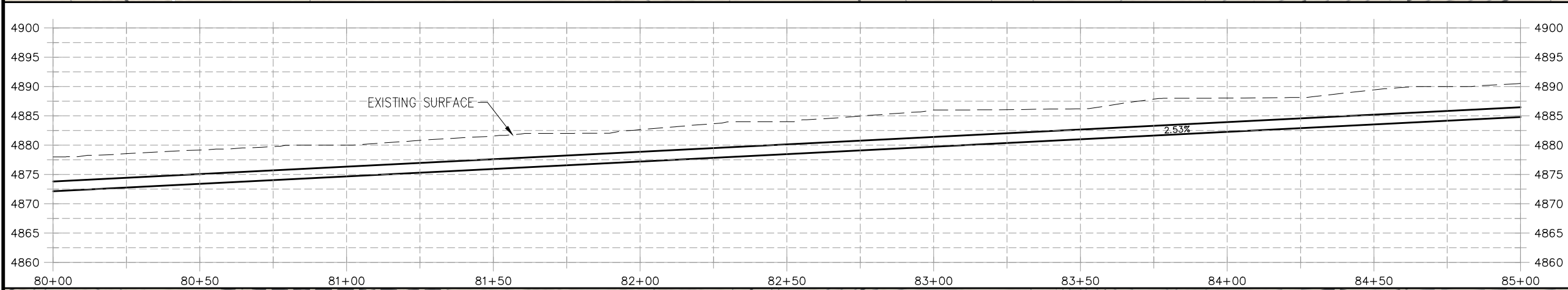
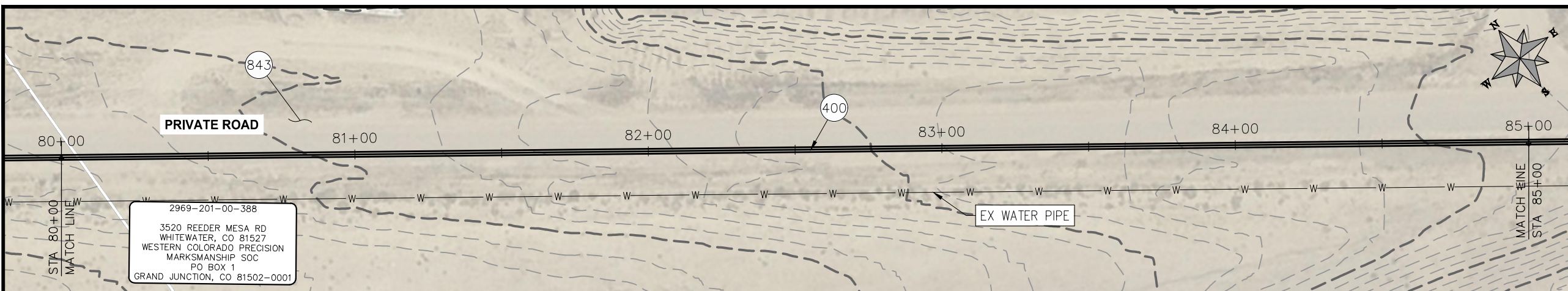
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 DOWNSTREAM SEGMENT PLAN AND PROFILE
 STA 70+00 TO STA 80+00**

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CONSTRUCTION NOTES

- (400) 102.7/108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (842) PROTECT EARTHEN BERM
- (843) REPLACE SURFACE IN KIND



PRELIMINARY

NOTE
DESIGN HAS BEEN BASED ON:
-AVERAGE 3 ft BURY DEPTH
-ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
REVISION △		
REVISION △		
REVISION △		
REVISION △		

PROJECT NO: F000610
DRAWN BY HMC DATE 2020
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'



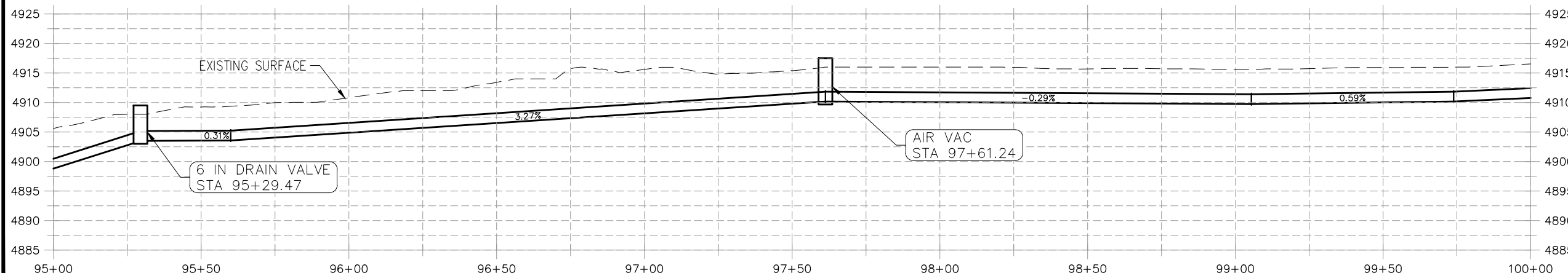
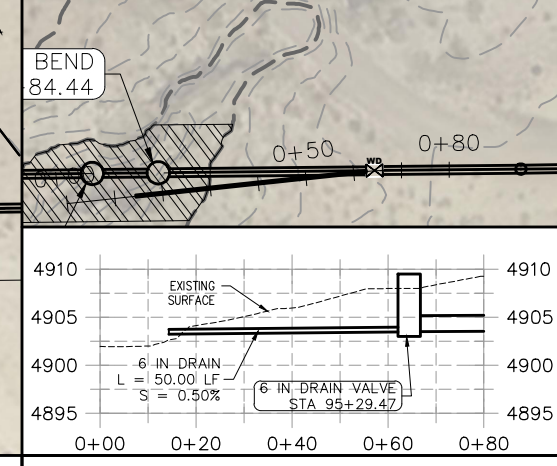
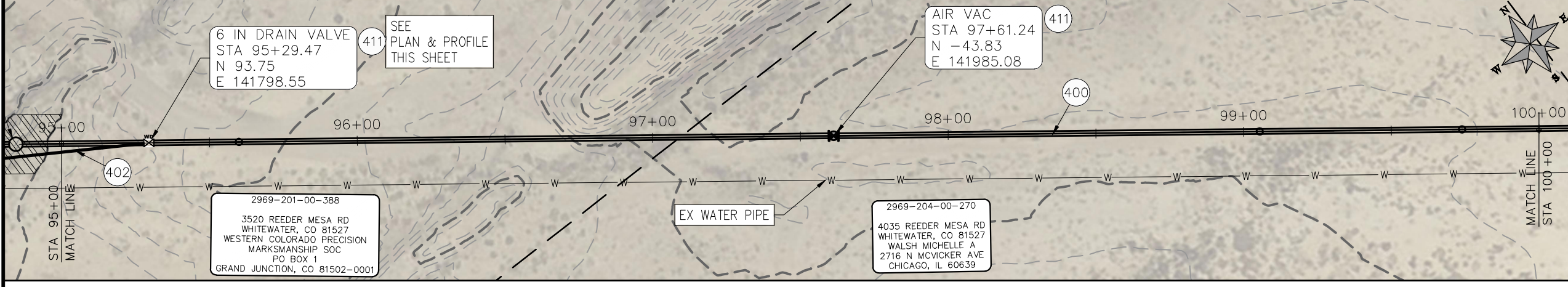
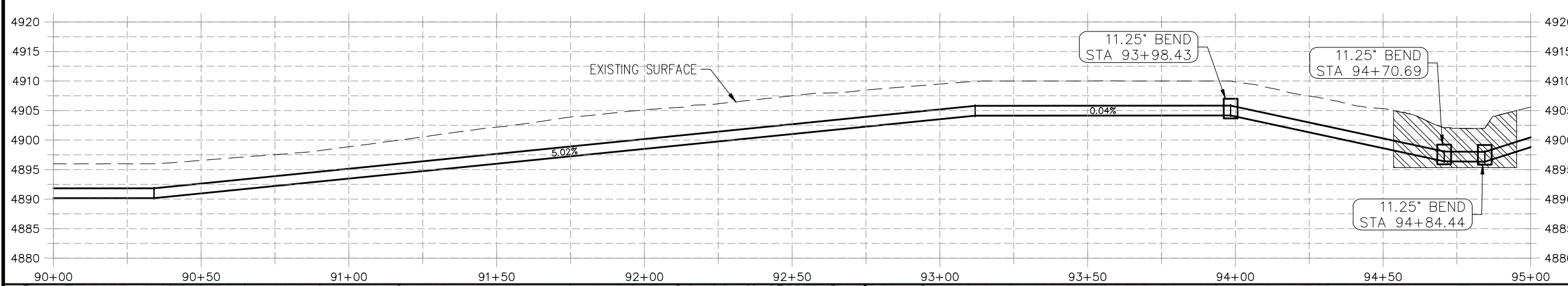
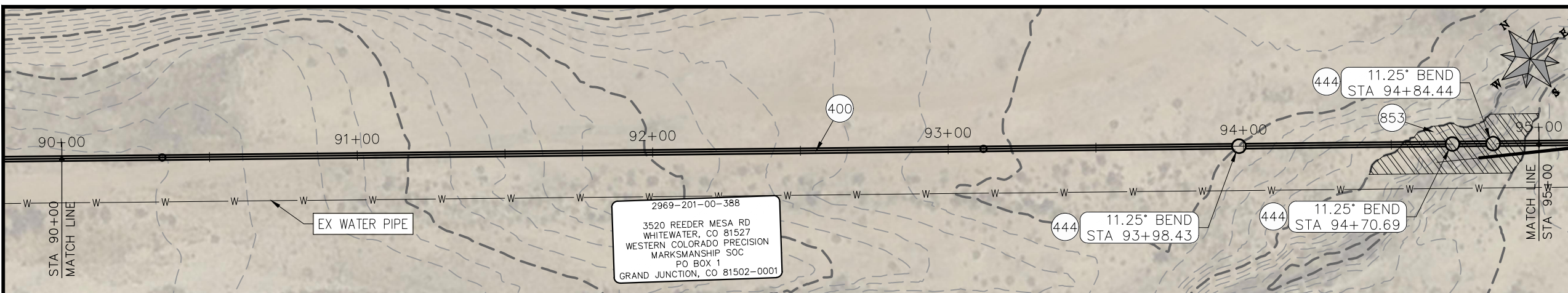
**PUBLIC WORKS
ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
DOWNSTREAM SEGMENT PLAN AND PROFILE
STA 80+00 TO STA 90+00**

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CONSTRUCTION NOTES

- 400 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 402 102.7/108.2 - 6" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 411 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- 444 102.8/108.3 - 20", 11.25° ELBOW
- 853 SEE WETLAND DETAILS SHEET 7



6 IN DRAIN PLAN & PROFILE

PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
REVISION Δ		
REVISION Δ		
REVISION Δ		
REVISION Δ		

PROJECT NO: F000610
DRAWN BY HMC DATE 2020
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'

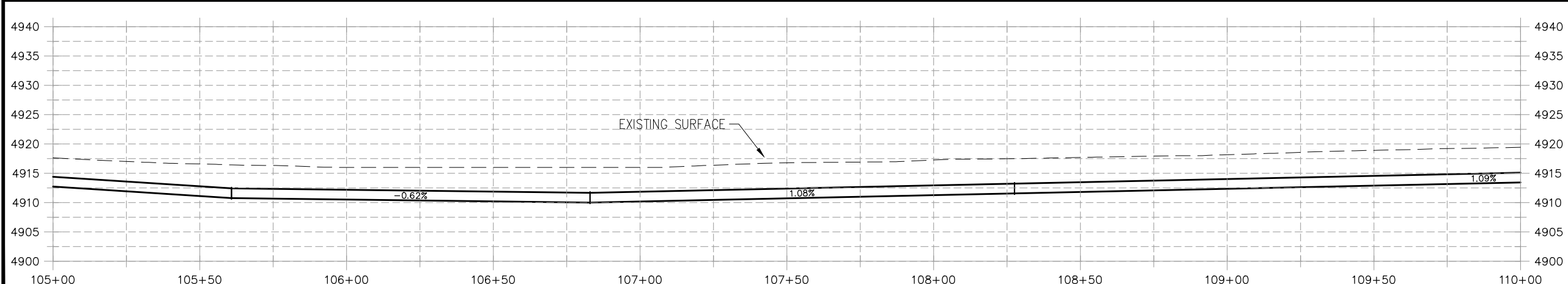
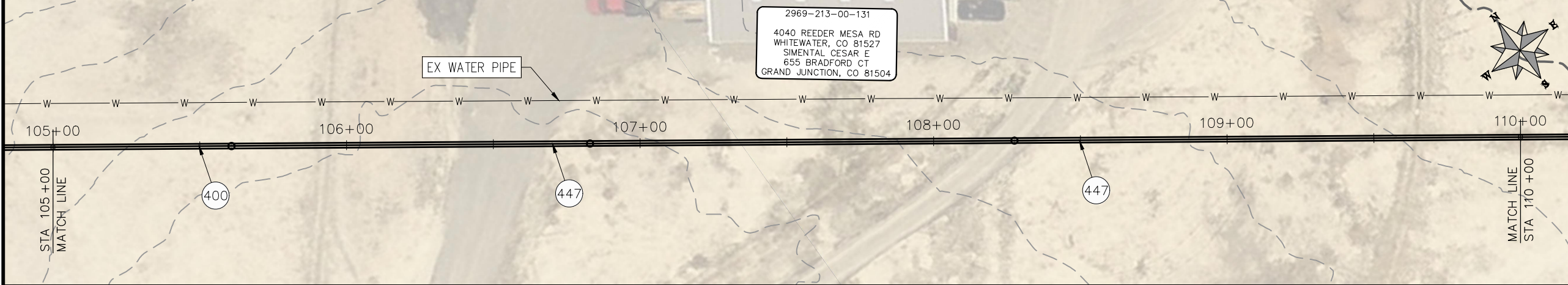
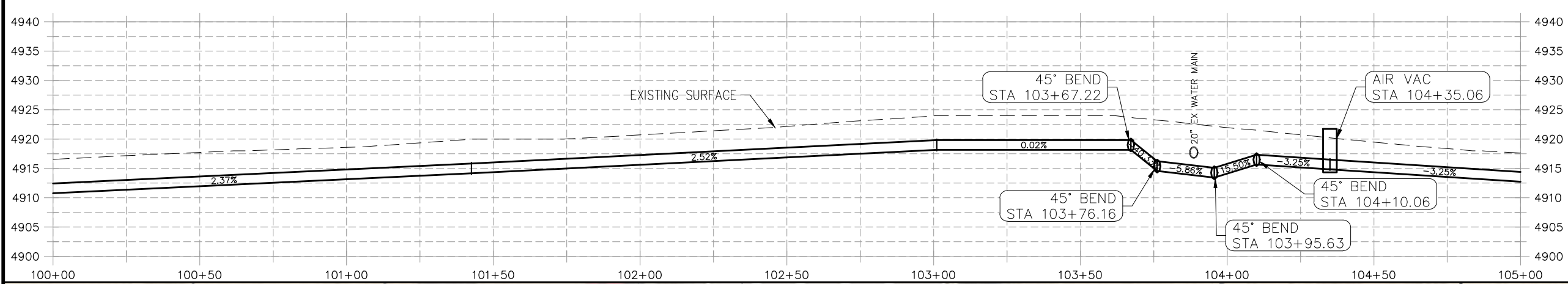
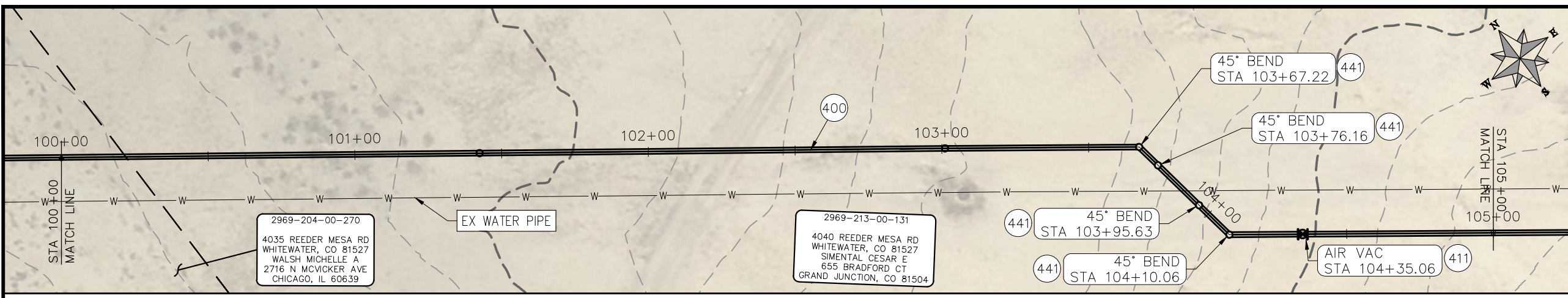


**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 DOWNSTREAM SEGMENT PLAN AND PROFILE
 STA 90+00 TO STA 100+00**

CONSTRUCTION NOTES

- 400 102.7/108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 411 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- 441 102.8/108.3 - 20", 45' ELBOW
- 447 DRIVEWAY CROSSING.



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE	PROJECT NO. F000610
REVISION Δ			DRAWN BY HMC DATE 2020
REVISION Δ			DESIGNED BY JAE DATE 2021
REVISION Δ			CHECKED BY JAE DATE 2021
REVISION Δ			APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 40'	0 10 20 40
VERTICAL: 1" = 5'	0 1.25 2.5 20



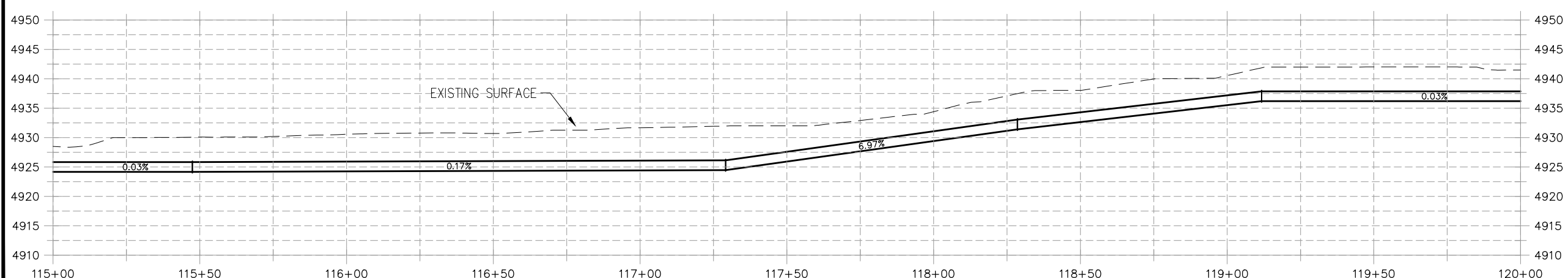
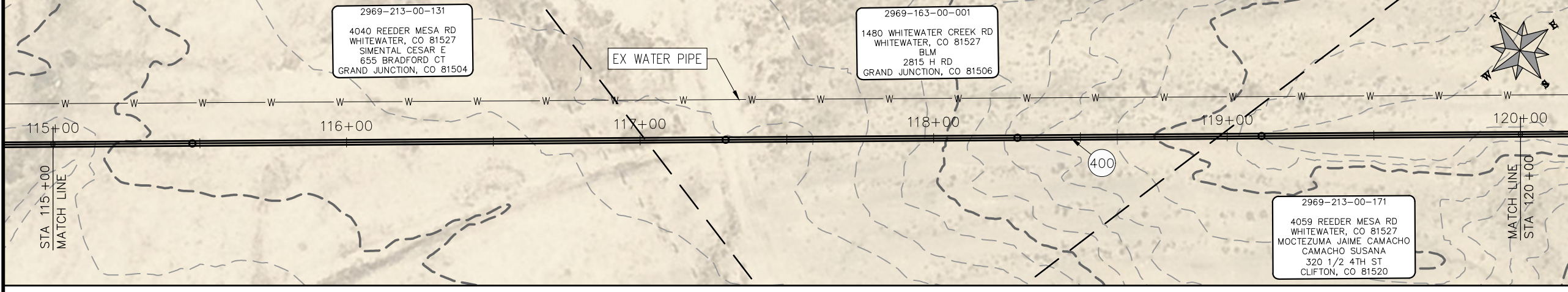
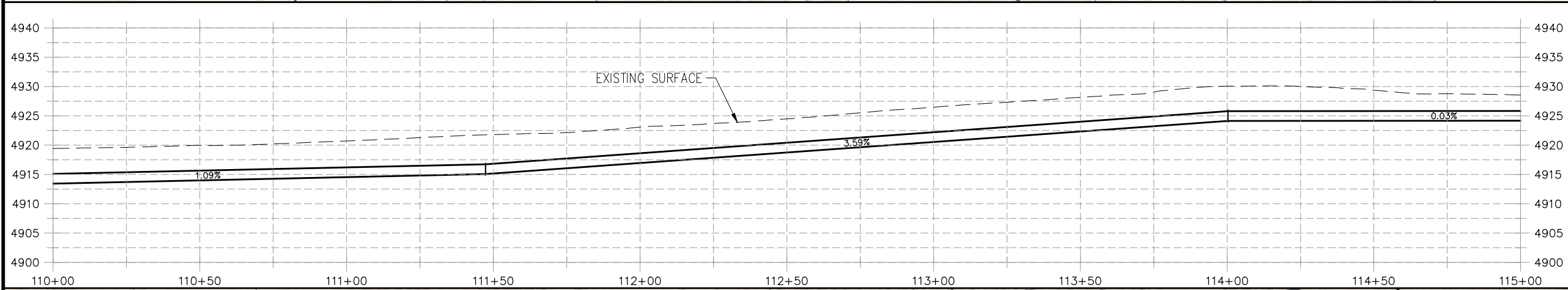
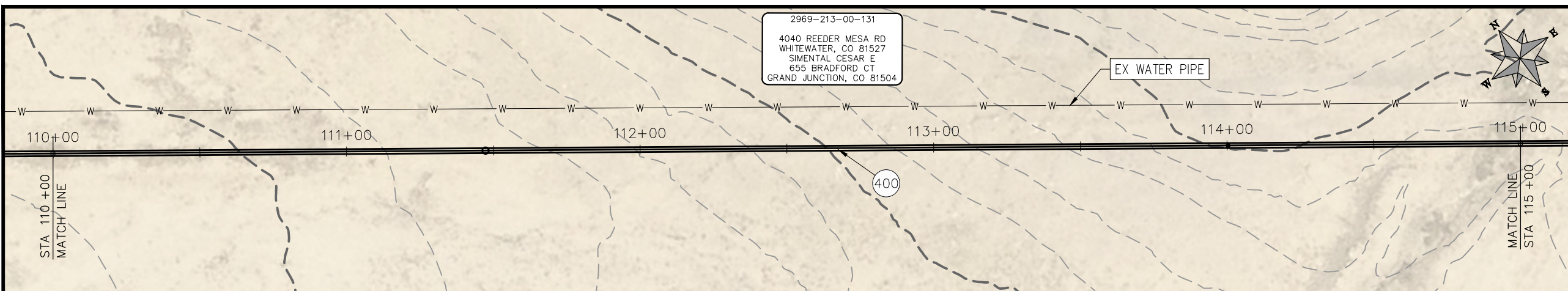
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 DOWNSTREAM SEGMENT PLAN AND PROFILE
 STA 100+00 TO STA 110+00**

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CONSTRUCTION NOTES

102.7/108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
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PROJECT NO: F000610
DRAWN BY HMC DATE 2020
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'



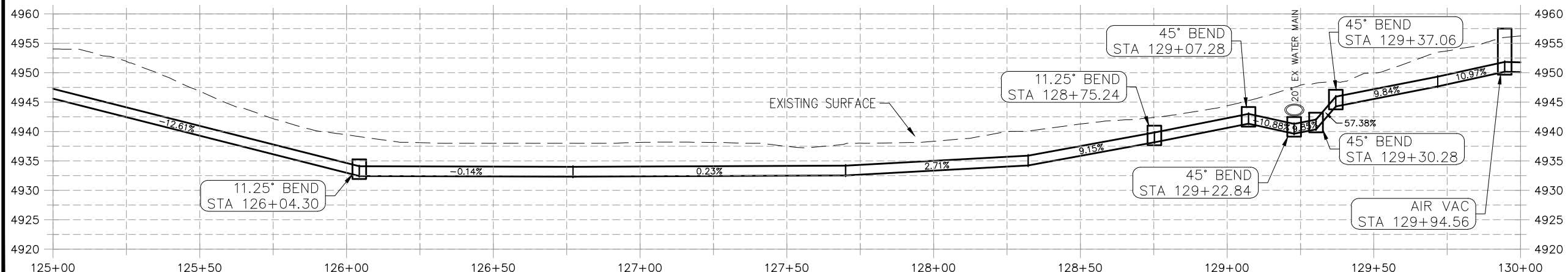
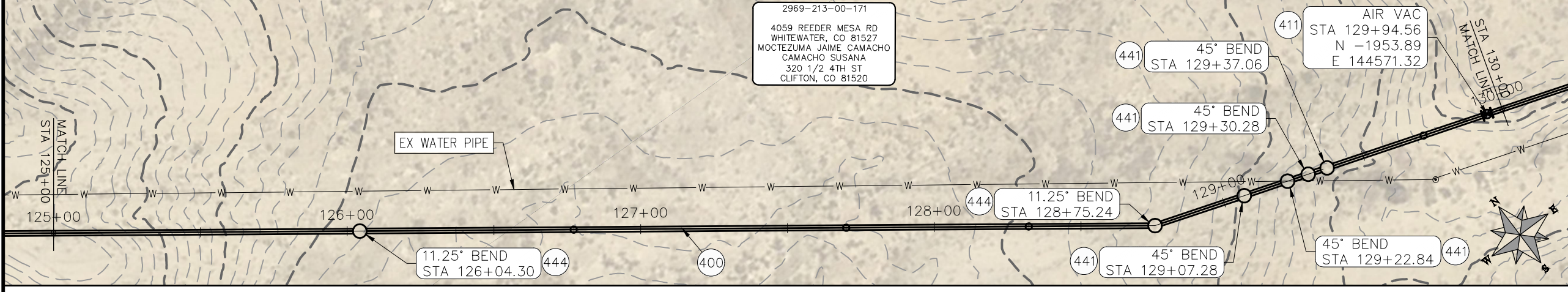
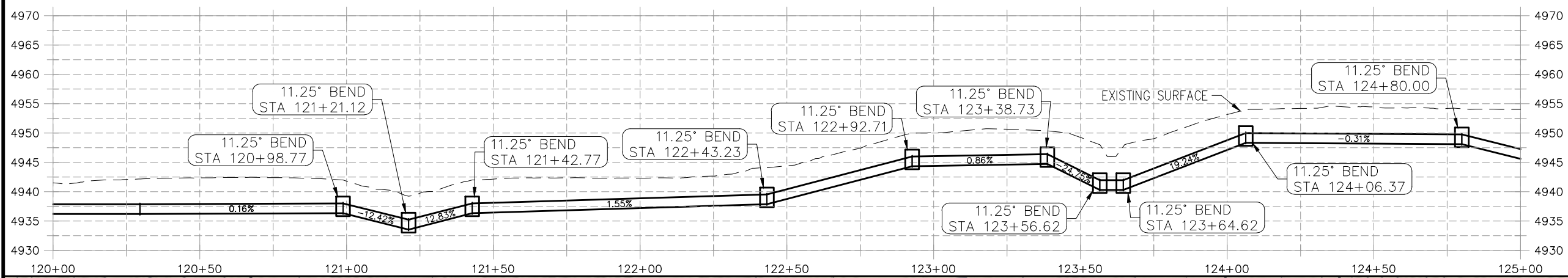
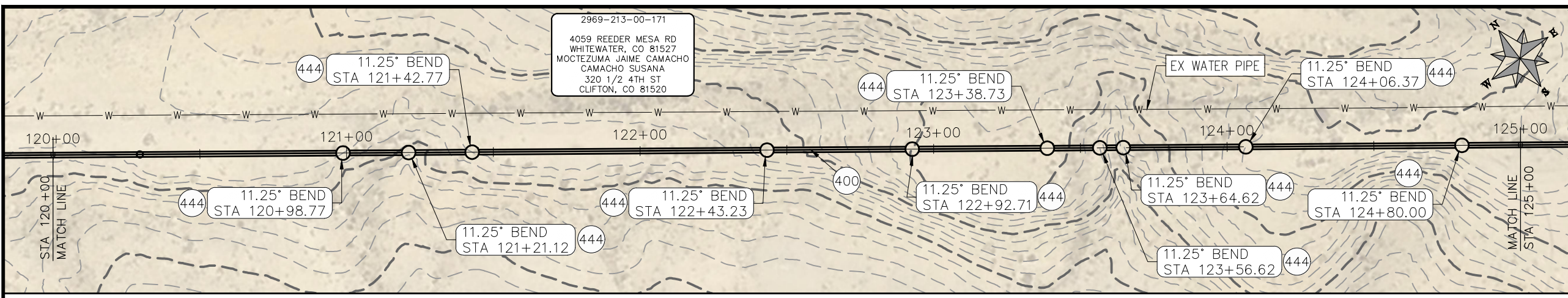
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 DOWNSTREAM SEGMENT PLAN AND PROFILE
 STA 110+00 TO STA 120+00**

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CONSTRUCTION NOTES

- 400 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 411 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- 444 102.8/108.3 - 20", 45' ELBOW
- 444 102.8/108.3 - 20", 11.25' ELBOW



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
REVISION		
REVISION		
REVISION		

PROJECT NO. F000610
DRAWN BY HMC DATE 2020
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'



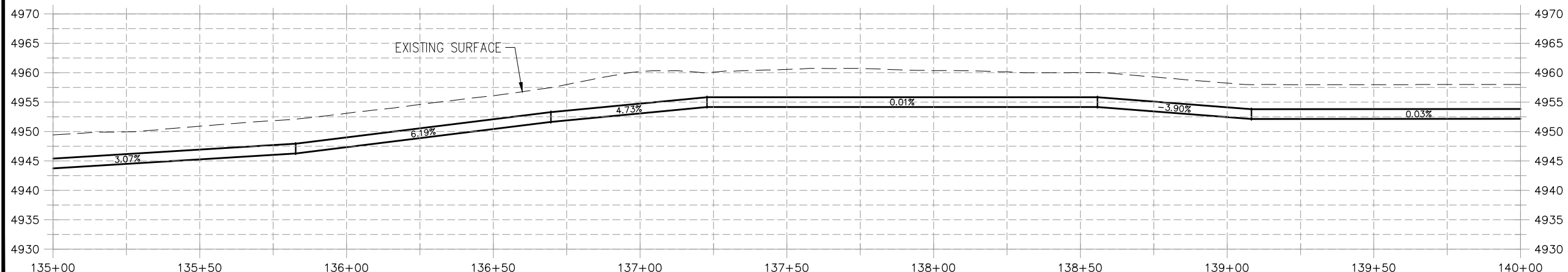
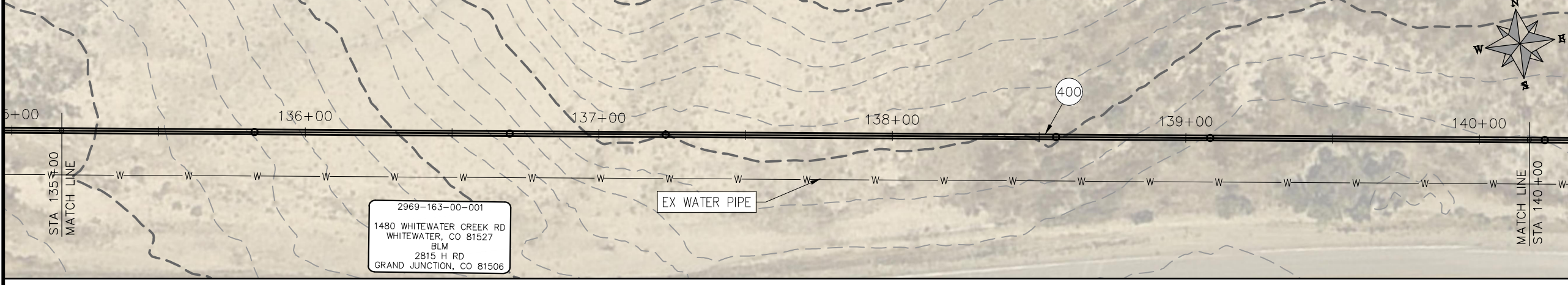
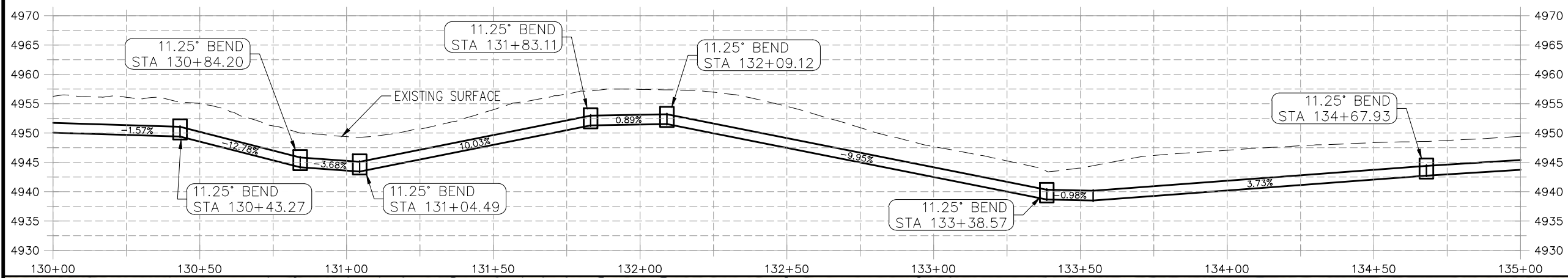
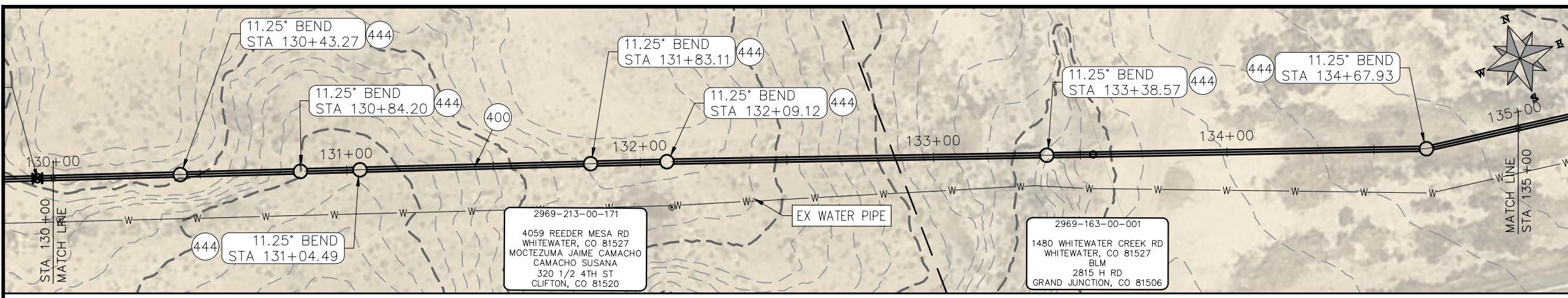
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 DOWNSTREAM SEGMENT PLAN AND PROFILE
 STA 120+00 TO STA 130+00**

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CONSTRUCTION NOTES

- 400 102.7/108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 444 102.8/108.3 - 20", 11.25° ELBOW



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
REVISION Δ		
REVISION Δ		
REVISION Δ		
REVISION Δ		

PROJECT NO: F000610
DRAWN BY HMC DATE 2020
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'



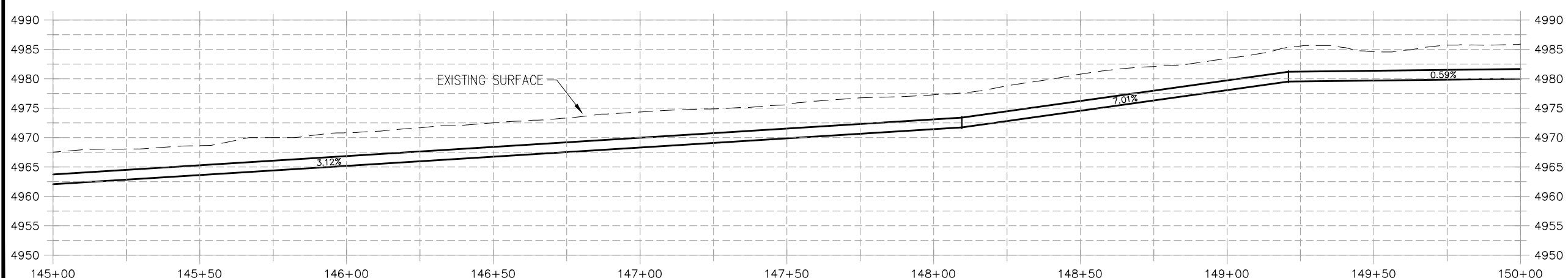
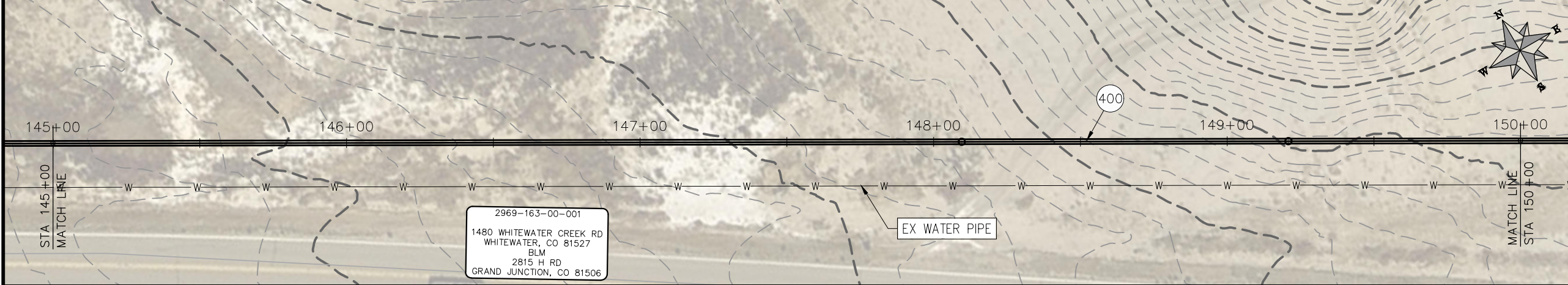
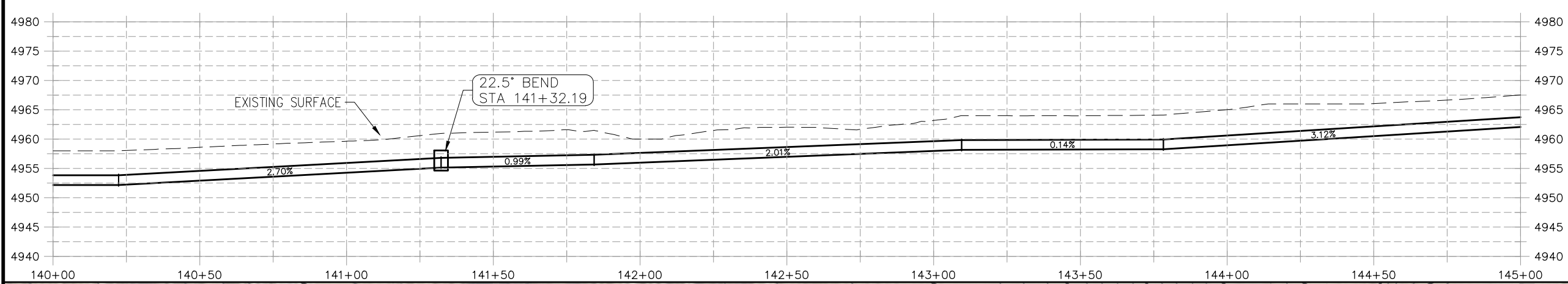
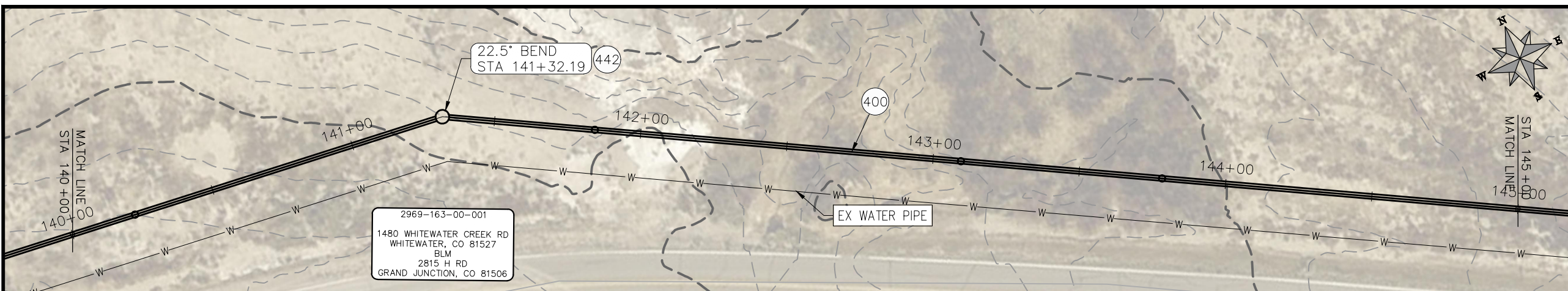
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 DOWNSTREAM SEGMENT PLAN AND PROFILE
 STA 130+00 TO STA 140+00**

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CONSTRUCTION NOTES

- 400 102.7/108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 442 102.8/108.3 - 20", 22.5' ELBOW



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE

PROJECT NO. F000610
DRAWN BY HMC DATE 2020
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'



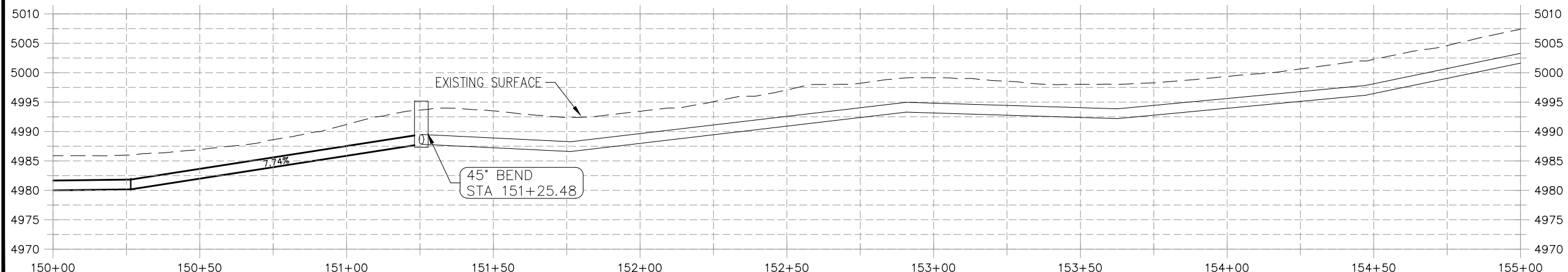
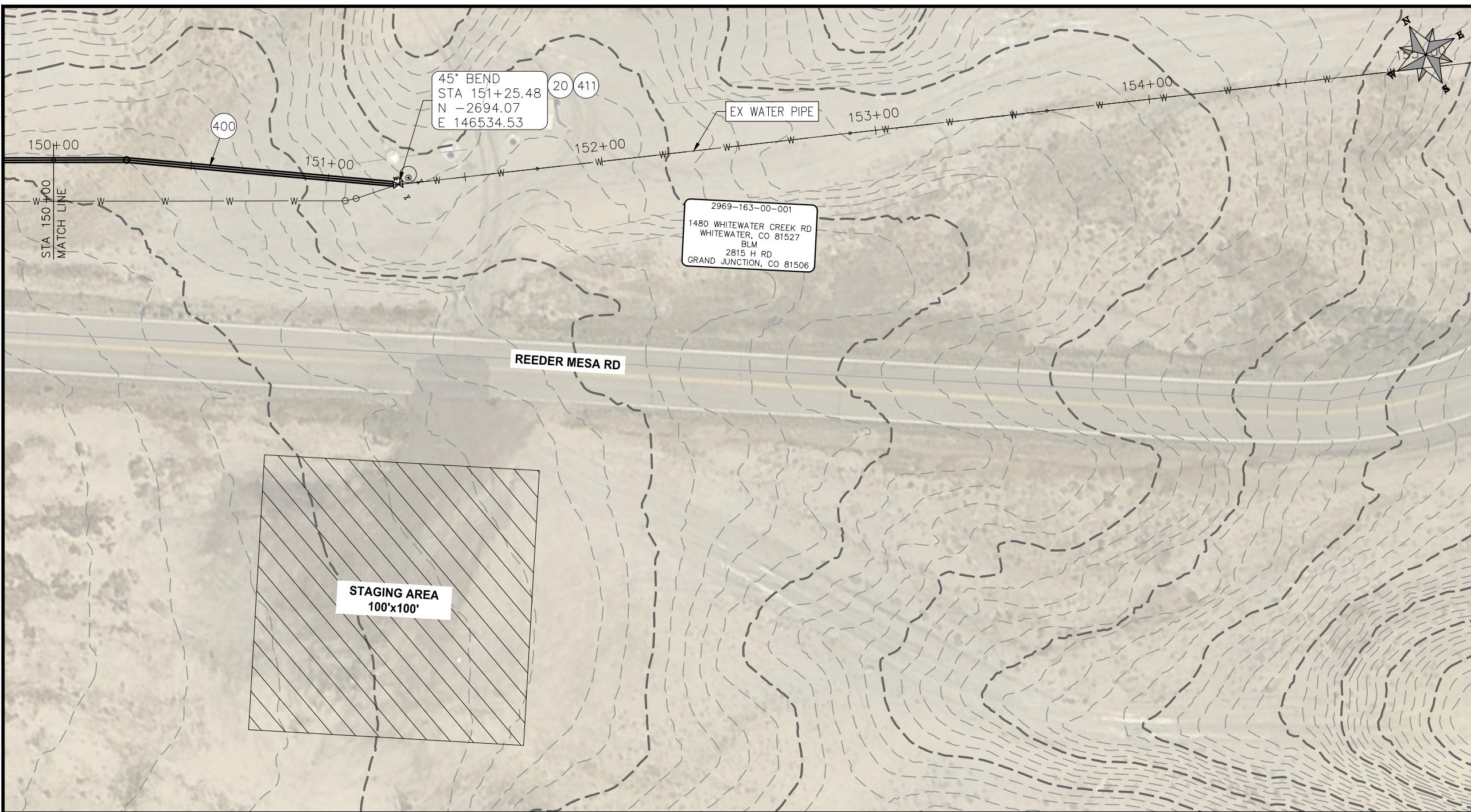
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 DOWNSTREAM SEGMENT PLAN AND PROFILE
 STA 140+00 TO STA 150+00**

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CONSTRUCTION NOTES

- (20) 202 - ABANDON PIPE. ABANDON PIPE BY PLUGGING REMAINING ENDS WITH CONCRETE
- (400) 102.7/108.2 - 20" C900 WATER MAIN PIPE (DR-18). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (411) 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
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△		
△		
△		

PROJECT NO: F000610
DRAWN BY HMC DATE 2020
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'



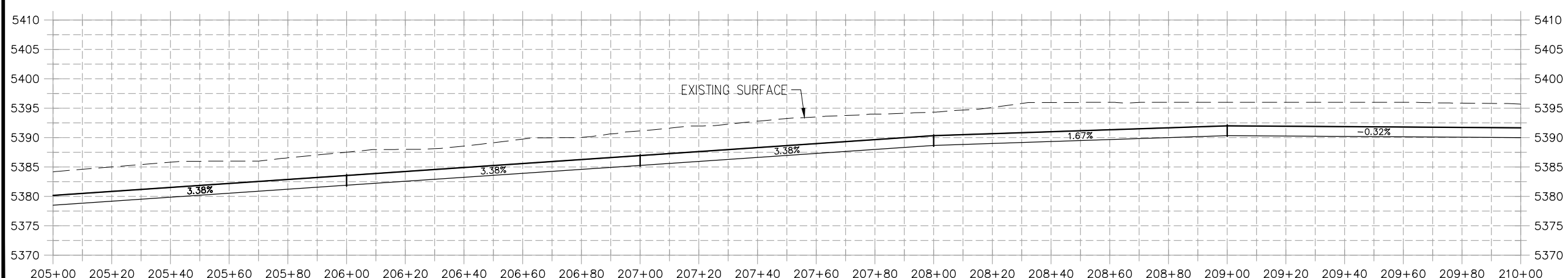
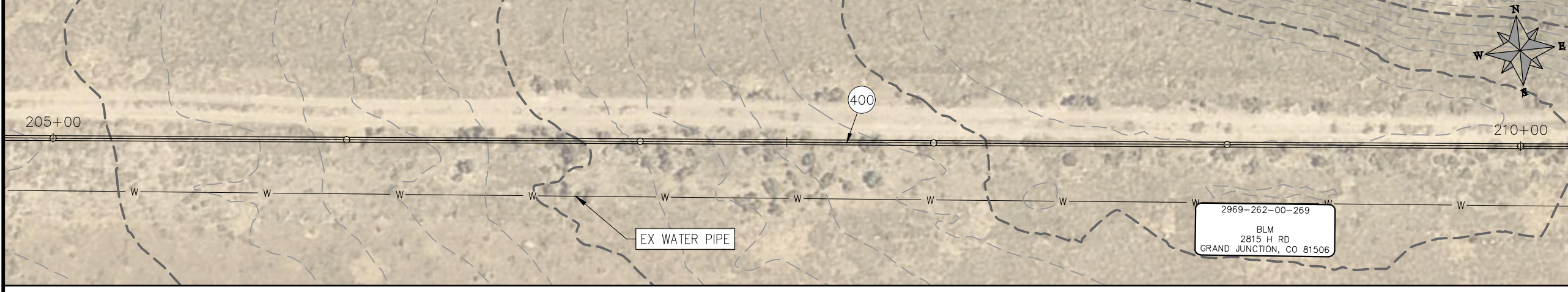
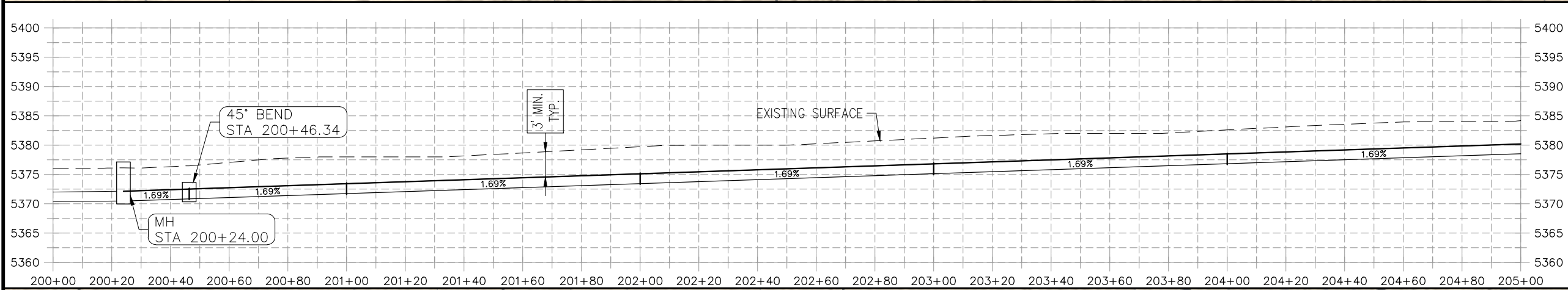
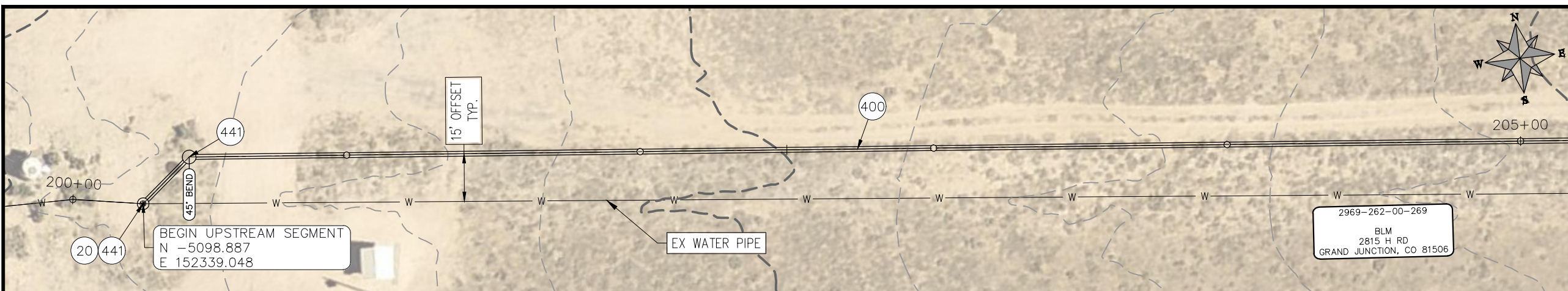
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 DOWNSTREAM SEGMENT PLAN AND PROFILE
 STA 150+00 TO STA 155+00**

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CONSTRUCTION NOTES

- (20) 202 - ABANDON PIPE. ABANDON PIPE BY PLUGGING REMAINING ENDS WITH CONCRETE
- (25) 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- (400) 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (402) 102.7/108.2 - 6" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (409) 102.8/108.3 - REDUCER (SIZE AS SHOWN).
- (411) 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- (441) 102.8/108.3 - 20", 45° ELBOW
- (442) 102.8/108.3 - 20", 22.5° ELBOW
- (443) 102.8/108.3 - 20", 16.875° ELBOW
- (444) 102.8/108.3 - 20", 11.25° ELBOW
- (445) INSTALL 6" DRAIN VALVE.
- (446) ROAD CROSSING.



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURRY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
REVISION Δ		
REVISION Δ		
REVISION Δ		
REVISION Δ		

PROJECT NO. F000610
DRAWN BY HMC DATE 2021
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'



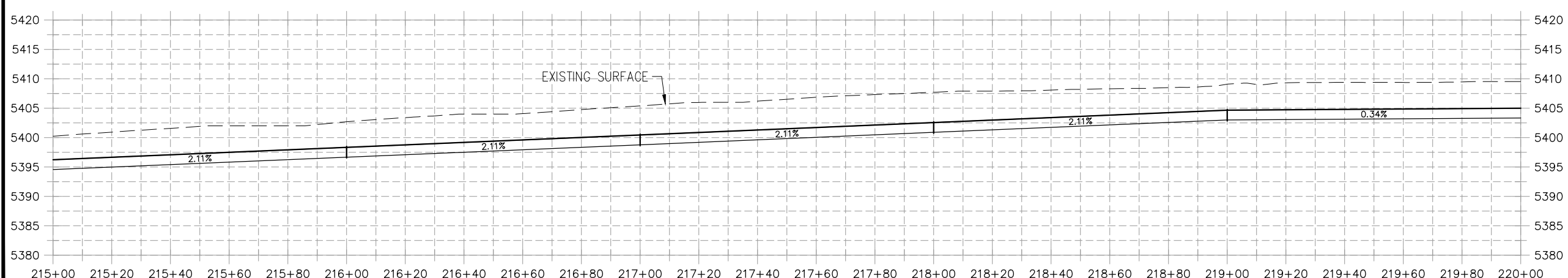
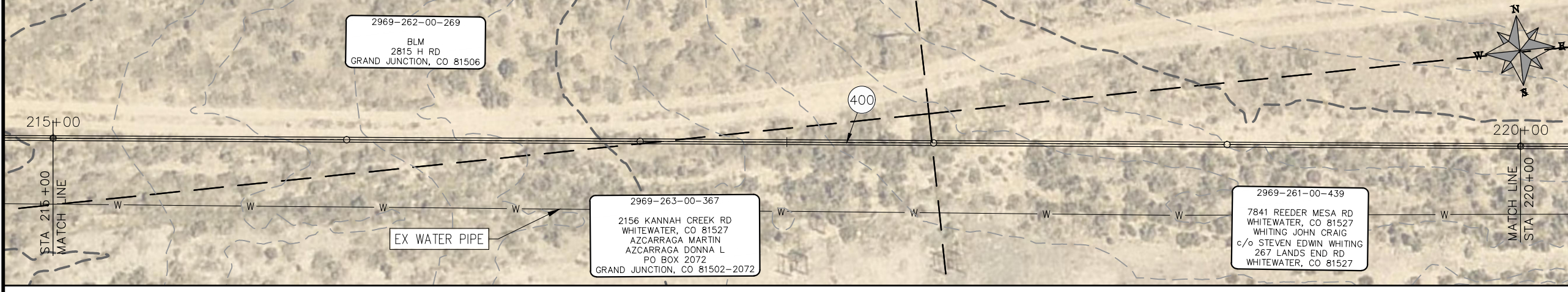
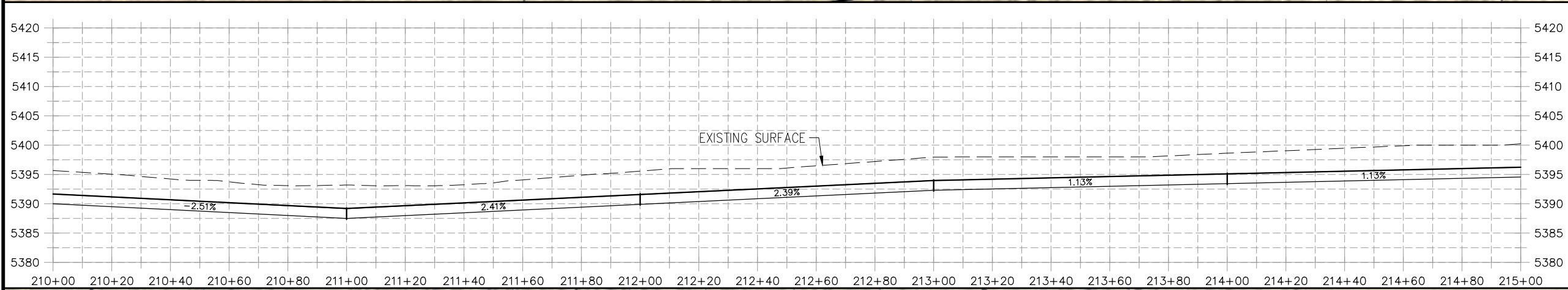
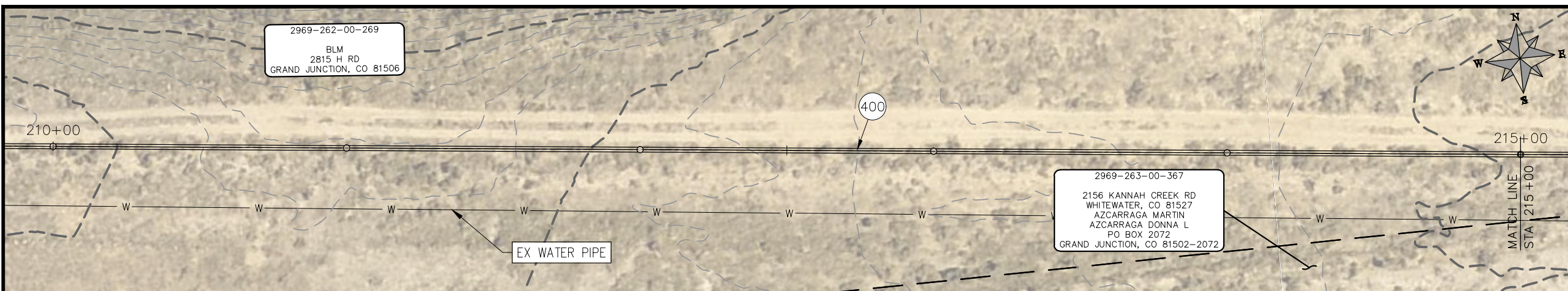
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 UPSTREAM SEGMENT PLAN AND PROFILE
 STA 200+00 TO STA 210+00**

n:\landrol\2020 flowline replacements\purdy mesa\60\CAD\00\DESIGN\PHASE II\LAYOUTS.dwg, 24 STA 200+00 TO STA 210+00, 3/25/2021 12:18:17 PM

CONSTRUCTION NOTES

- (20) 202 - ABANDON PIPE. ABANDON PIPE BY PLUGGING REMAINING ENDS WITH CONCRETE
- (25) 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- (400) 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (402) 102.7/108.2 - 6" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (409) 102.8/108.3 - REDUCER (SIZE AS SHOWN).
- (411) 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- (441) 102.8/108.3 - 20", 45' ELBOW
- (442) 102.8/108.3 - 20", 22.5' ELBOW
- (443) 102.8/108.3 - 20", 16.875' ELBOW
- (444) 102.8/108.3 - 20", 11.25' ELBOW
- (445) INSTALL 6" DRAIN VALVE.
- (446) ROAD CROSSING.



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURIED DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
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PROJECT NO. F000610
DRAWN BY HMC DATE 2021
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 40'	0 10 20 40
VERTICAL: 1" = 5'	0 1.25 2.5 20



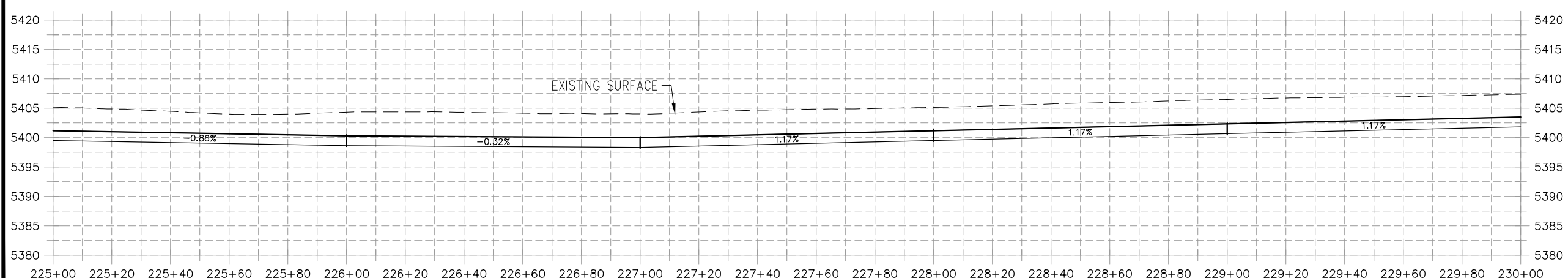
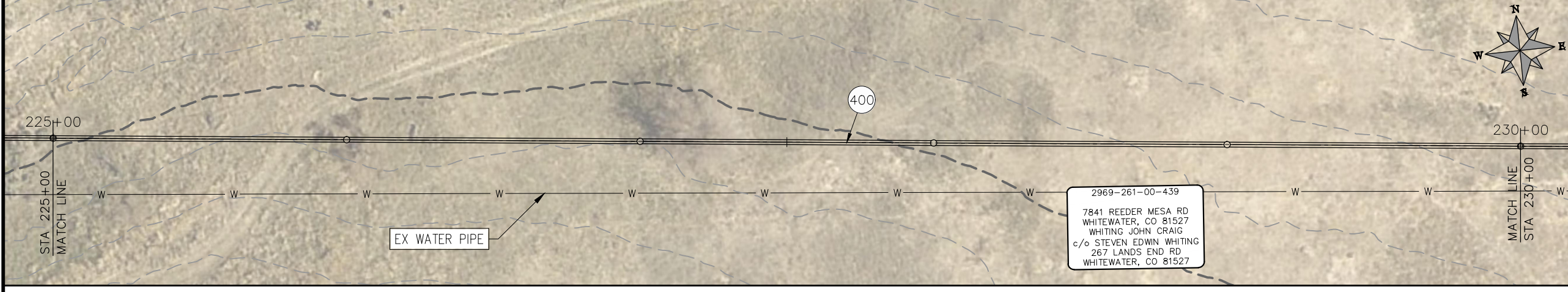
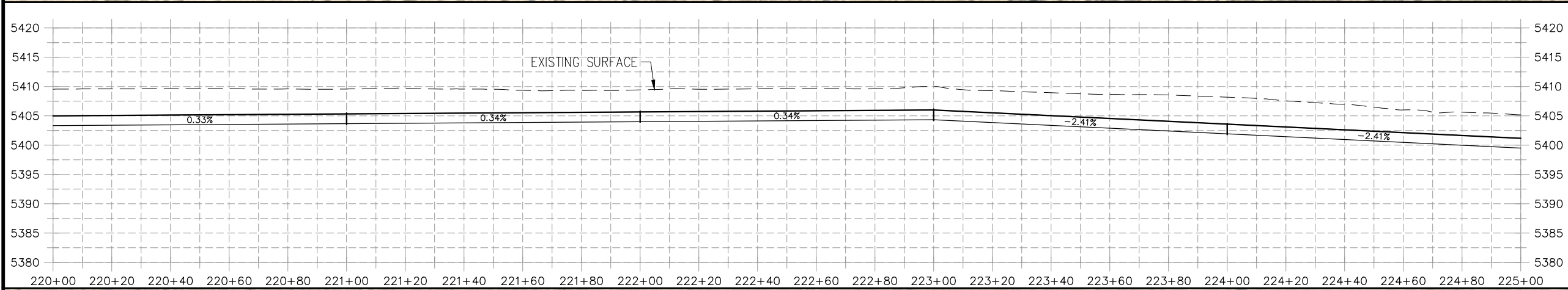
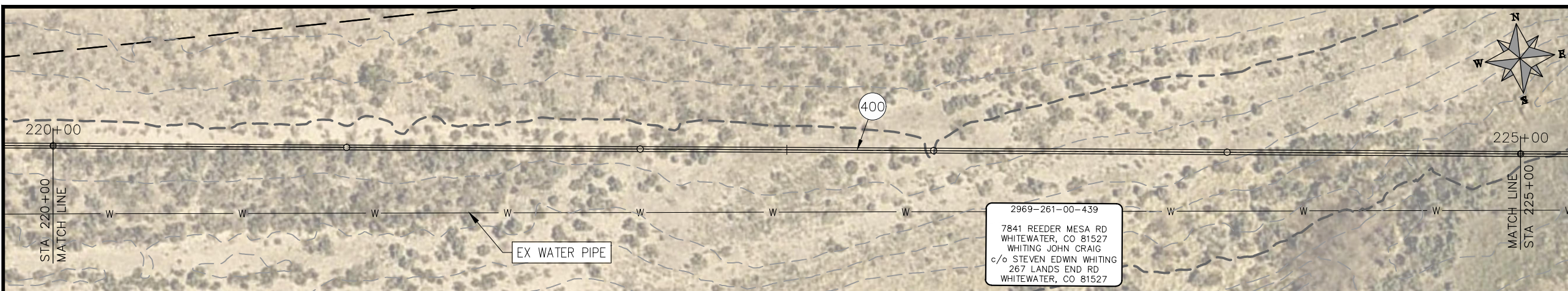
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 UPSTREAM SEGMENT PLAN AND PROFILE
 STA 210+00 TO STA 220+00**

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CONSTRUCTION NOTES

- 202 - ABANDON PIPE. ABANDON PIPE BY PLUGGING REMAINING ENDS WITH CONCRETE
- 252 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- 400 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 402 102.7/108.2 - 6" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 409 102.8/108.3 - REDUCER (SIZE AS SHOWN).
- 411 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- 441 102.8/108.3 - 20", 45' ELBOW
- 442 102.8/108.3 - 20", 22.5' ELBOW
- 443 102.8/108.3 - 20", 16.875' ELBOW
- 444 102.8/108.3 - 20", 11.25' ELBOW
- 445 INSTALL 6" DRAIN VALVE.
- 446 ROAD CROSSING.



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
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PROJECT NO. F000610
DRAWN BY HMC DATE 2020
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'



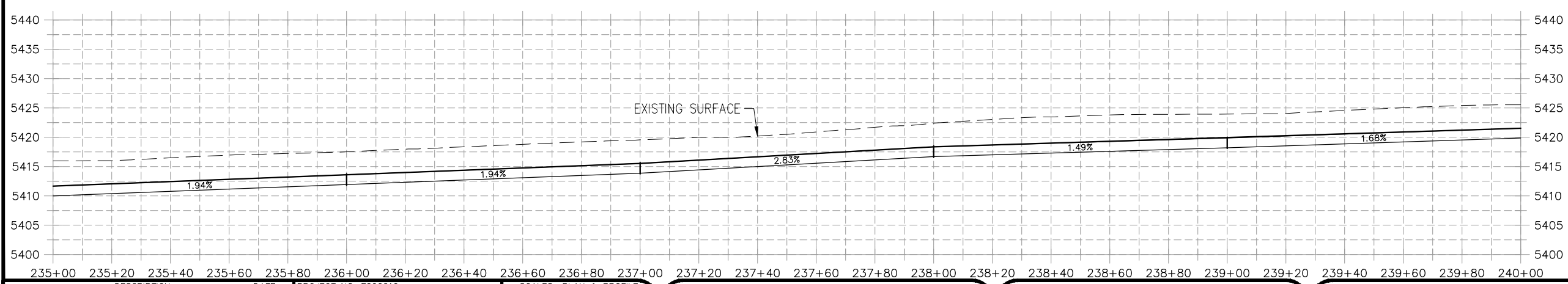
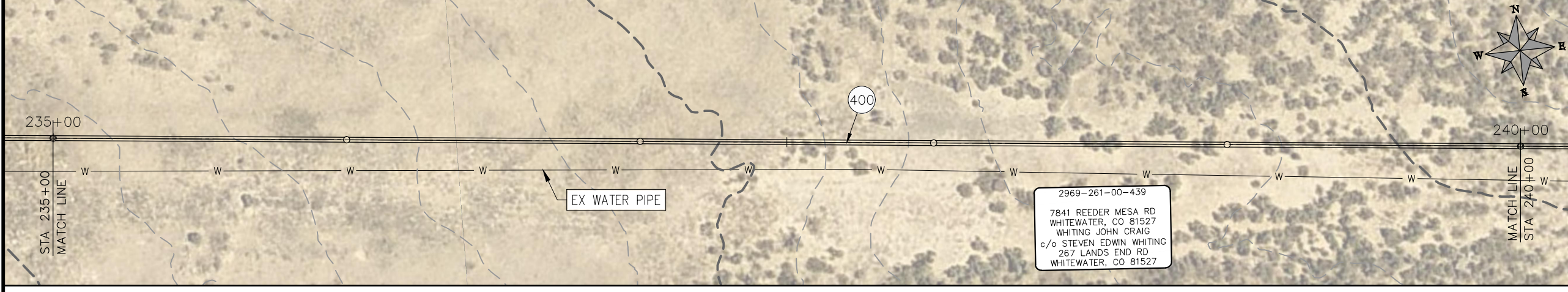
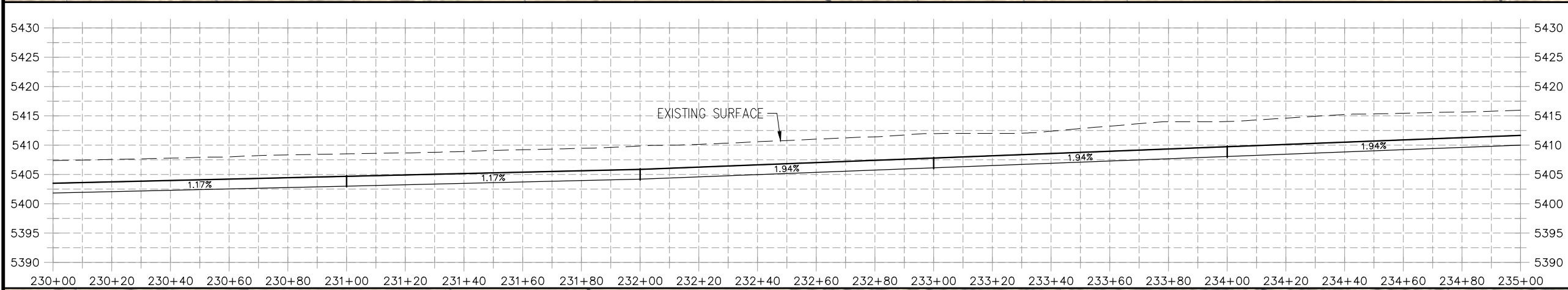
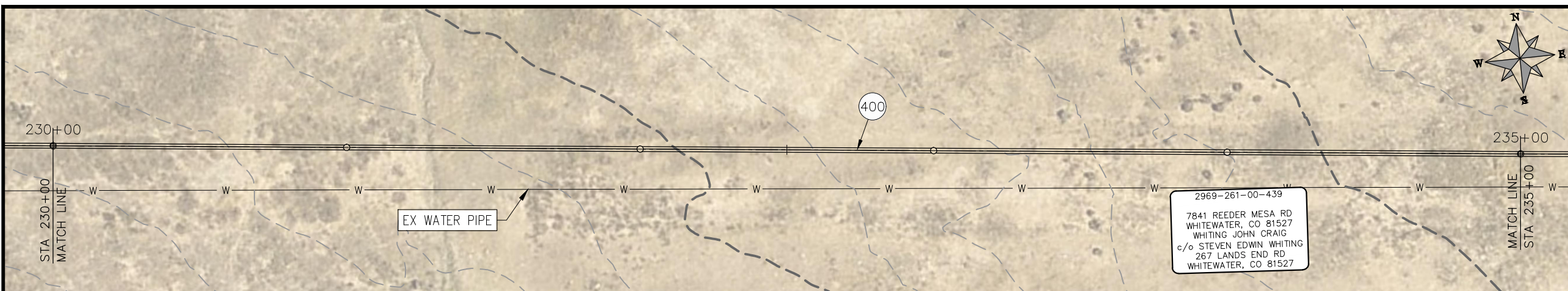
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 UPSTREAM SEGMENT PLAN AND PROFILE
 STA 220+00 TO STA 230+00**

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CONSTRUCTION NOTES

- (20) 202 - ABANDON PIPE. ABANDON PIPE BY PLUGGING REMAINING ENDS WITH CONCRETE
- (25) 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- (400) 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (402) 102.7/108.2 - 6" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (409) 102.8/108.3 - REDUCER (SIZE AS SHOWN).
- (411) 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- (441) 102.8/108.3 - 20", 45' ELBOW
- (442) 102.8/108.3 - 20", 22.5' ELBOW
- (443) 102.8/108.3 - 20", 16.875' ELBOW
- (444) 102.8/108.3 - 20", 11.25' ELBOW
- (445) INSTALL 6" DRAIN VALVE.
- (446) ROAD CROSSING.



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
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PROJECT NO. F000610
DRAWN BY HMC DATE 2021
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 40'	0 10 20 40
VERTICAL: 1" = 5'	0 1.25 2.5 20



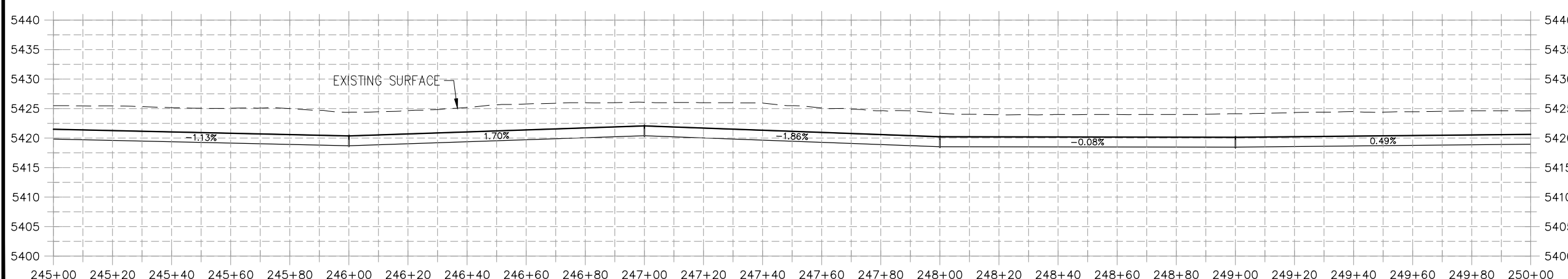
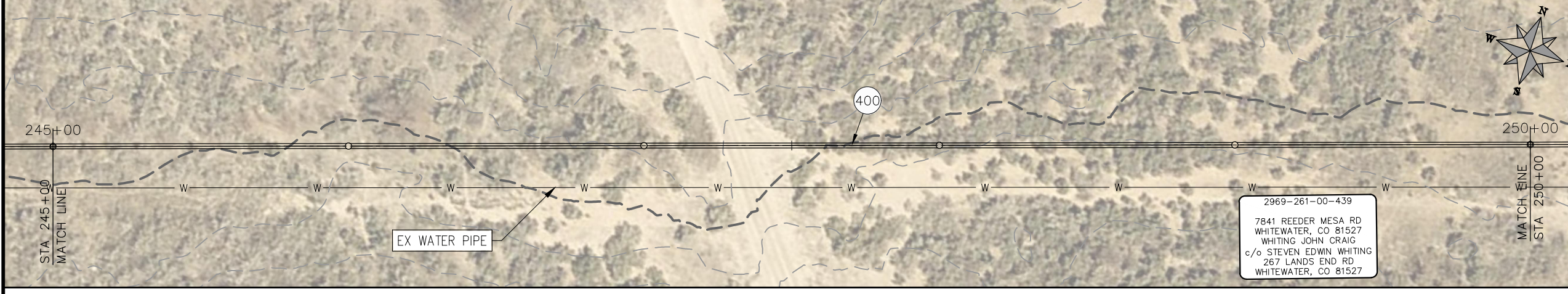
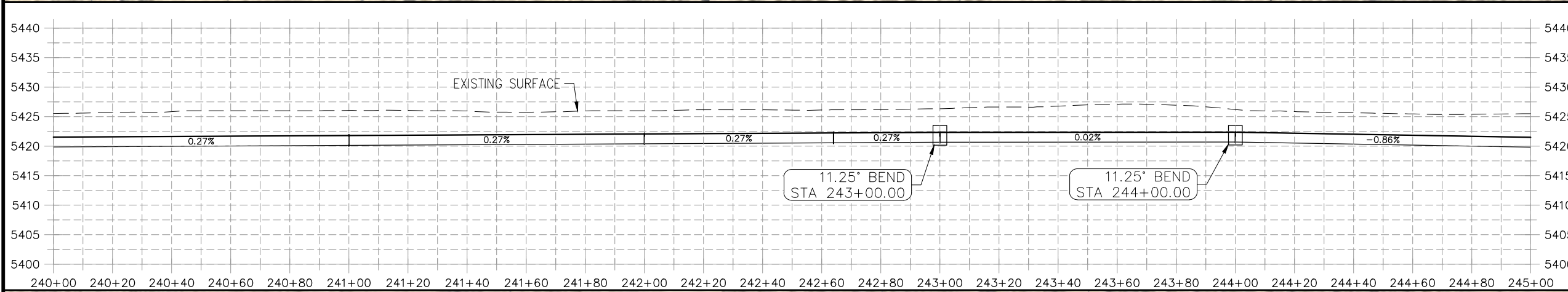
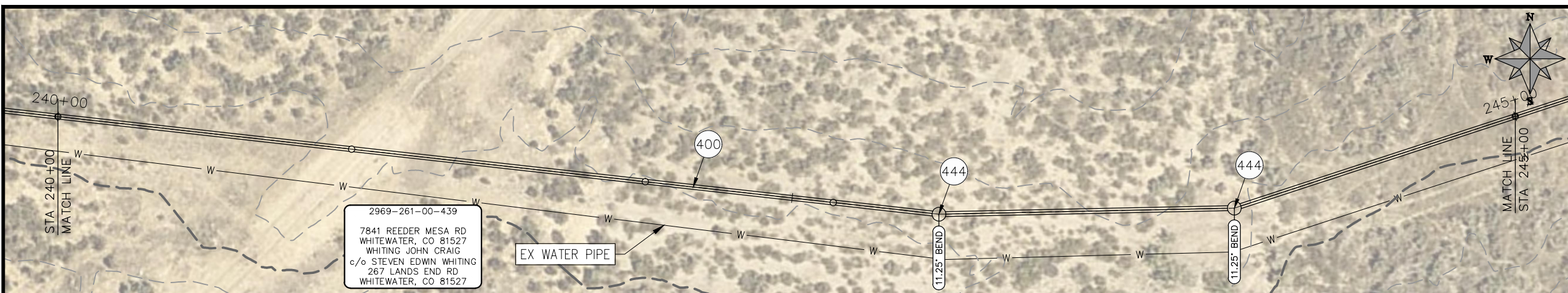
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 UPSTREAM SEGMENT PLAN AND PROFILE
 STA 230+00 TO STA 240+00**

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CONSTRUCTION NOTES

- (20) 202 - ABANDON PIPE. ABANDON PIPE BY PLUGGING REMAINING ENDS WITH CONCRETE
- (25) 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- (400) 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (402) 102.7/108.2 - 6" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (409) 102.8/108.3 - REDUCER (SIZE AS SHOWN).
- (411) 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- (441) 102.8/108.3 - 20", 45° ELBOW
- (442) 102.8/108.3 - 20", 22.5° ELBOW
- (443) 102.8/108.3 - 20", 16.875° ELBOW
- (444) 102.8/108.3 - 20", 11.25° ELBOW
- (445) INSTALL 6" DRAIN VALVE.
- (446) ROAD CROSSING.



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
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△		
△		

PROJECT NO: F000610
DRAWN BY HMC DATE 2021
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 40'	0 10 20 40
VERTICAL: 1" = 5'	0 1.25 2.5 20



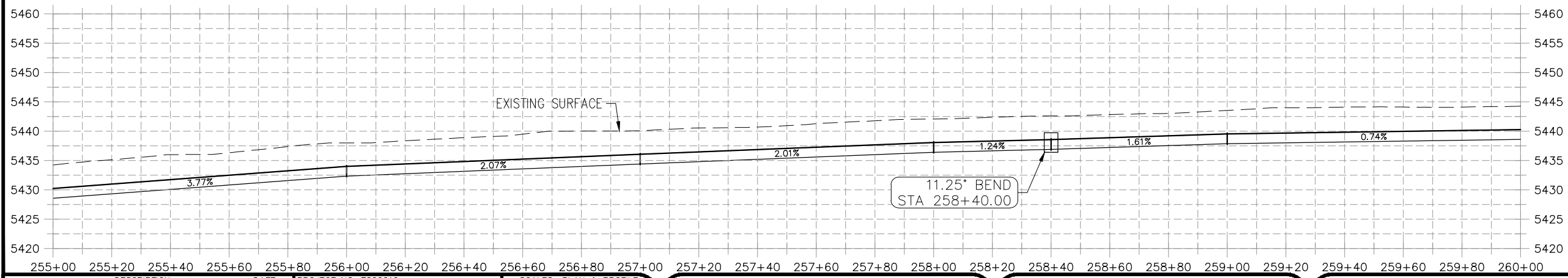
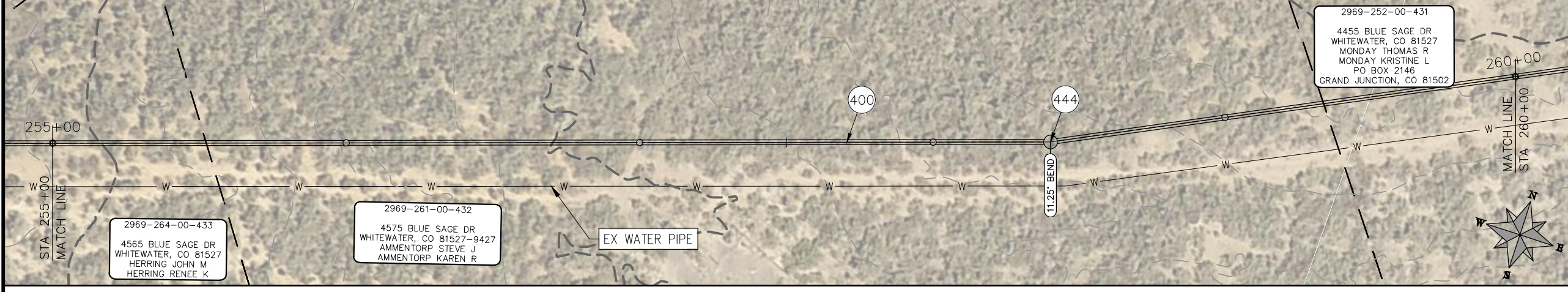
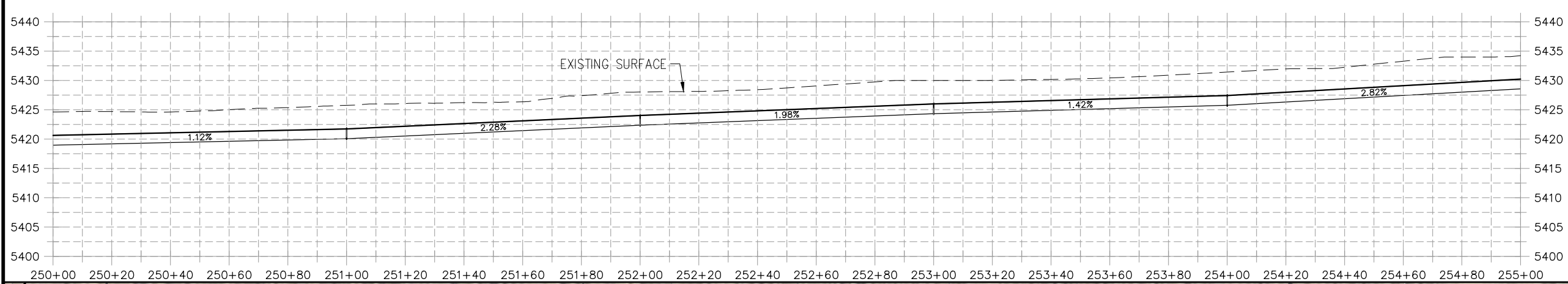
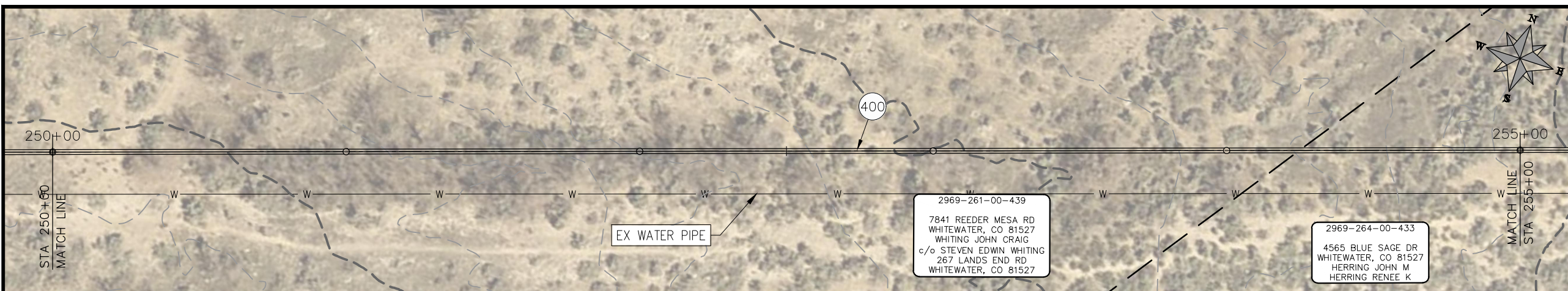
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 UPSTREAM SEGMENT PLAN AND PROFILE
 STA 240+00 TO STA 250+00**

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CONSTRUCTION NOTES

- (20) 202 - ABANDON PIPE. ABANDON PIPE BY PLUGGING REMAINING ENDS WITH CONCRETE
- (25) 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- (400) 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (402) 102.7/108.2 - 6" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (409) 102.8/108.3 - REDUCER (SIZE AS SHOWN).
- (411) 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- (441) 102.8/108.3 - 20", 45° ELBOW
- (442) 102.8/108.3 - 20", 22.5° ELBOW
- (443) 102.8/108.3 - 20", 16.875° ELBOW
- (444) 102.8/108.3 - 20", 11.25° ELBOW
- (445) INSTALL 6" DRAIN VALVE.
- (446) ROAD CROSSING.



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURRY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE

PROJECT NO. F000610
DRAWN BY HMC DATE 2021
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'



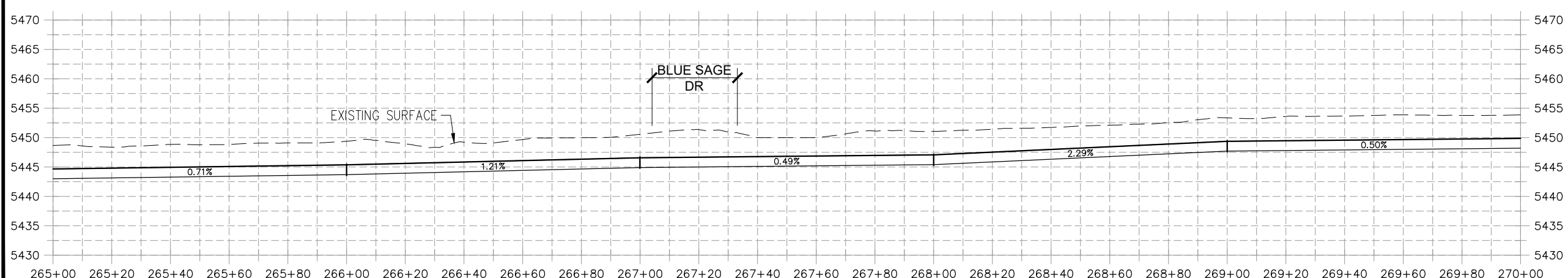
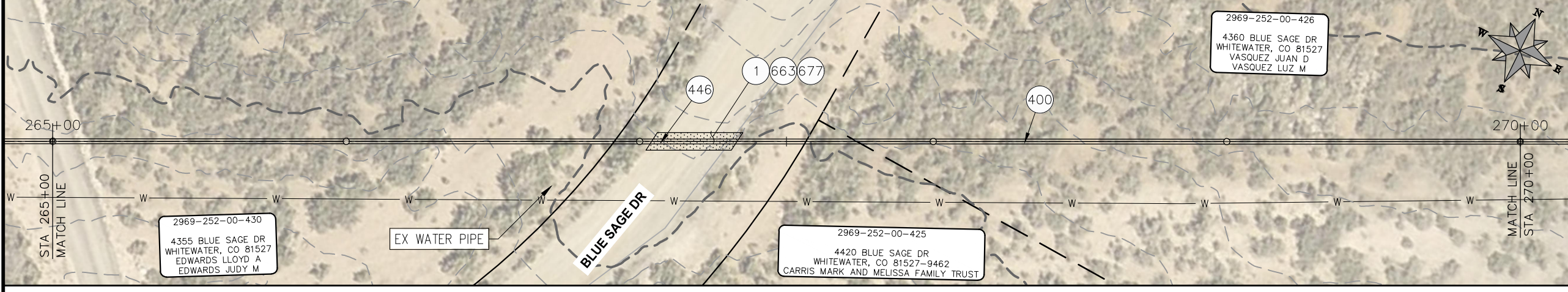
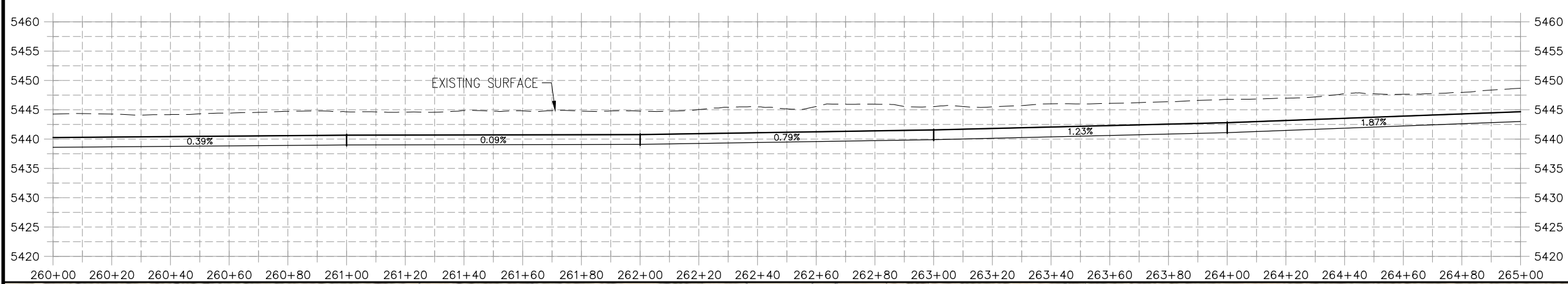
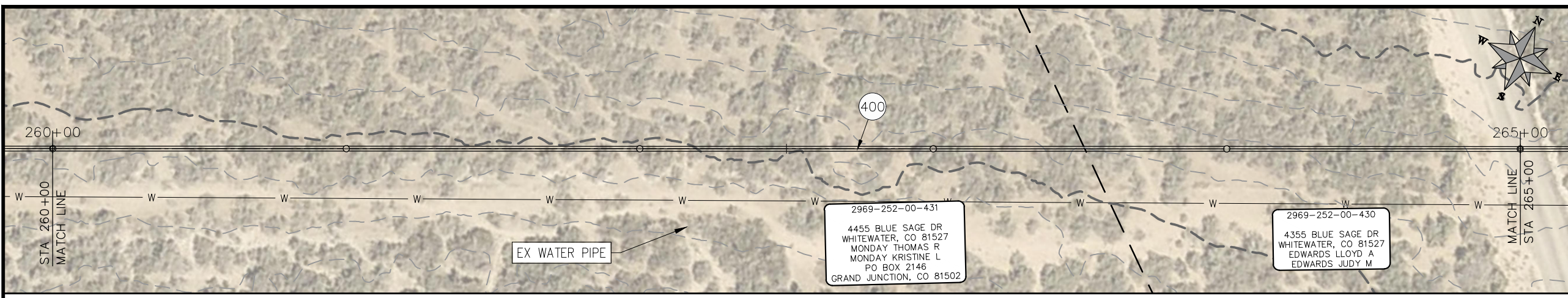
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 UPSTREAM SEGMENT PLAN AND PROFILE
 STA 250+00 TO STA 260+00**

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CONSTRUCTION NOTES

- (20) 202 - ABANDON PIPE. ABANDON PIPE BY PLUGGING REMAINING ENDS WITH CONCRETE
- (25) 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- (400) 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (402) 102.7/108.2 - 6" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (409) 102.8/108.3 - REDUCER (SIZE AS SHOWN).
- (411) 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- (441) 102.8/108.3 - 20", 45' ELBOW
- (442) 102.8/108.3 - 20", 22.5' ELBOW
- (443) 102.8/108.3 - 20", 16.875' ELBOW
- (444) 102.8/108.3 - 20", 11.25' ELBOW
- (445) INSTALL 6" DRAIN VALVE.
- (446) ROAD CROSSING.
- (663) 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- (677) 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
REVISION Δ		
REVISION Δ		
REVISION Δ		
REVISION Δ		

PROJECT NO. F000610
DRAWN BY HMC DATE 2021
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'



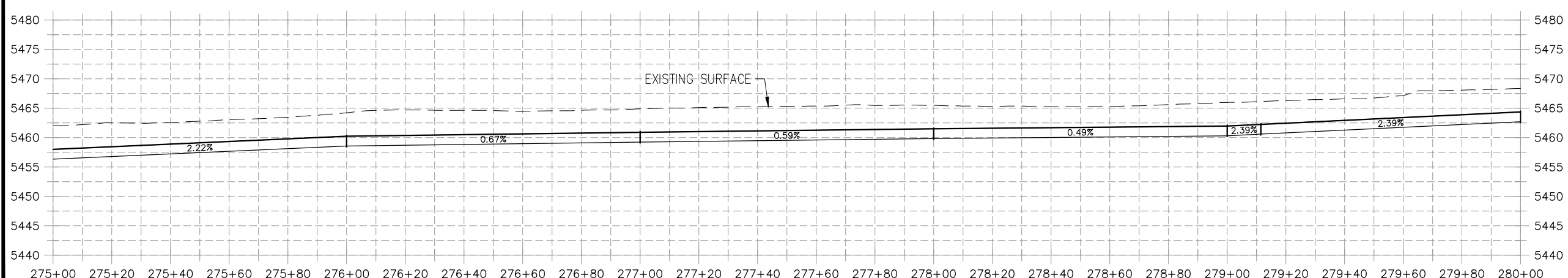
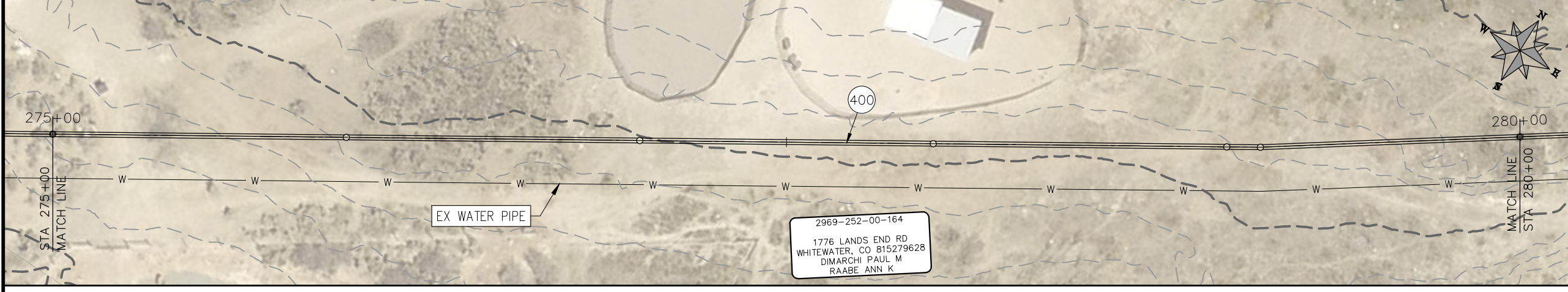
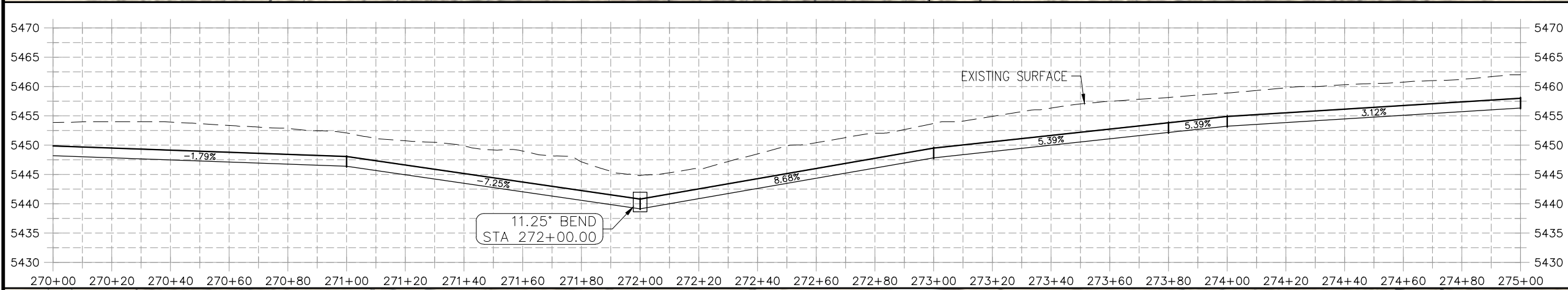
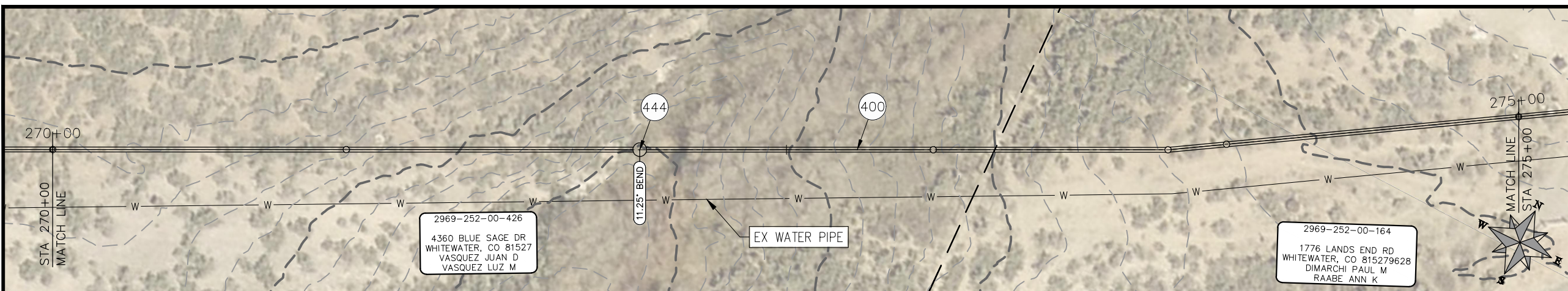
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 UPSTREAM SEGMENT PLAN AND PROFILE
 STA 260+00 TO STA 270+00**

n:\landrojo\2020 flowline replacements\purdy mesa\60\CAD\00DESIGN\PHASE II\LAYOUTS.dwg, 30 STA 260+00 TO STA 270+00, 3/25/2021 12:40:47 PM

CONSTRUCTION NOTES

- (20) 202 - ABANDON PIPE. ABANDON PIPE BY PLUGGING REMAINING ENDS WITH CONCRETE
- (25) 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- (400) 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (402) 102.7/108.2 - 6" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (409) 102.8/108.3 - REDUCER (SIZE AS SHOWN).
- (411) 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- (441) 102.8/108.3 - 20", 45° ELBOW
- (442) 102.8/108.3 - 20", 22.5° ELBOW
- (443) 102.8/108.3 - 20", 16.875° ELBOW
- (444) 102.8/108.3 - 20", 11.25° ELBOW
- (445) INSTALL 6" DRAIN VALVE.
- (446) ROAD CROSSING.



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
REVISION Δ		
REVISION Δ		
REVISION Δ		
REVISION Δ		

PROJECT NO. F000610
DRAWN BY HMC DATE 2021
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'



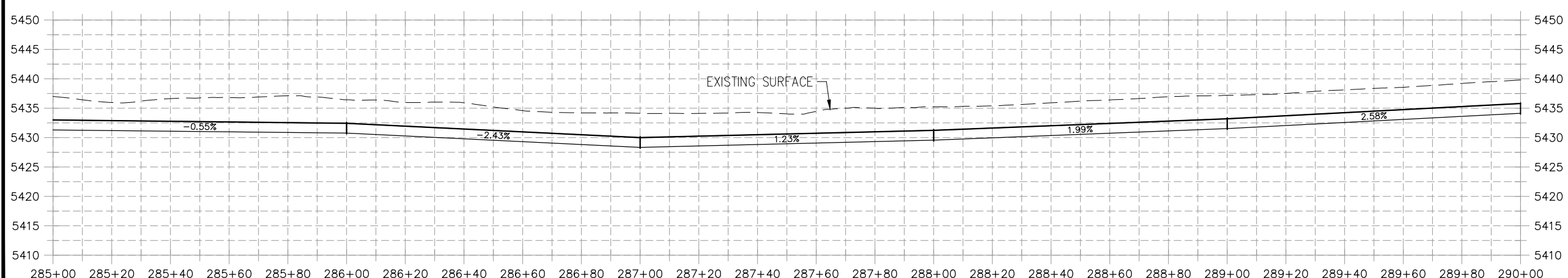
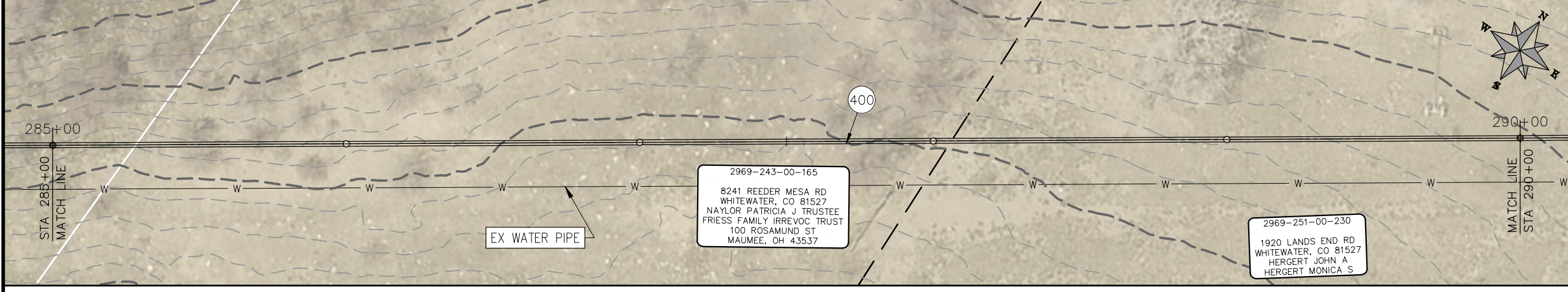
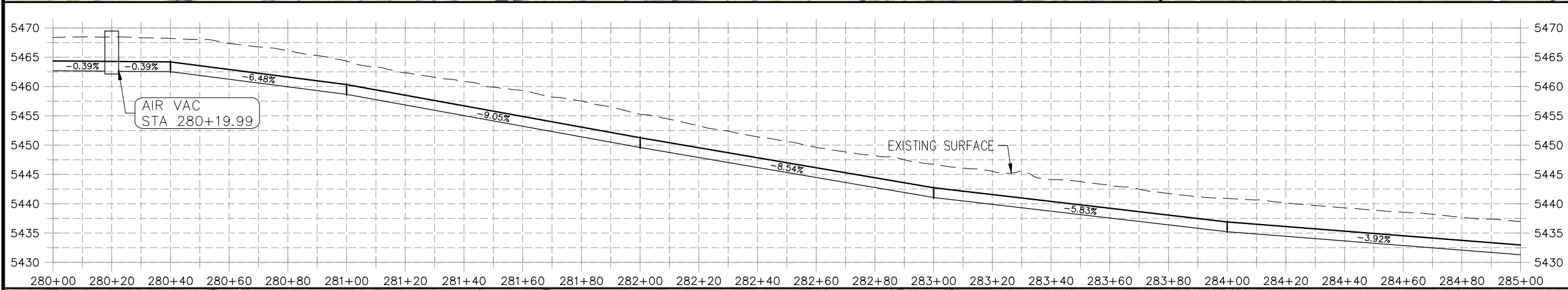
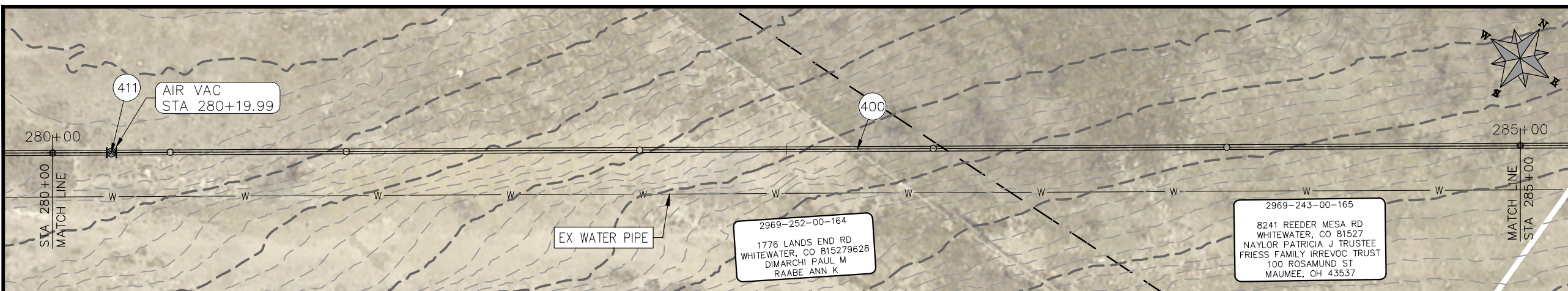
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 UPSTREAM SEGMENT PLAN AND PROFILE
 STA 270+00 TO STA 280+00**

n:\landrojo\2020 flowline replacements\purdy mesa\60\CAD\00DESIGN\PHASE II\LAYOUTS.dwg, 31 STA 270+00 TO STA 280+00, 3/25/2021 12:42:02 PM

CONSTRUCTION NOTES

- (20) 202 - ABANDON PIPE. ABANDON PIPE BY PLUGGING REMAINING ENDS WITH CONCRETE
- (25) 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- (400) 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (402) 102.7/108.2 - 6" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (409) 102.8/108.3 - REDUCER (SIZE AS SHOWN).
- (411) 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- (441) 102.8/108.3 - 20", 45' ELBOW
- (442) 102.8/108.3 - 20", 22.5' ELBOW
- (443) 102.8/108.3 - 20", 16.875' ELBOW
- (444) 102.8/108.3 - 20", 11.25' ELBOW
- (449) INSTALL 6" DRAIN VALVE.
- (446) ROAD CROSSING.



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURIED DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
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△		

PROJECT NO. F000610
DRAWN BY HMC DATE 2021
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 40'	0 10 20 40
VERTICAL: 1" = 5'	0 1.25 2.5 20



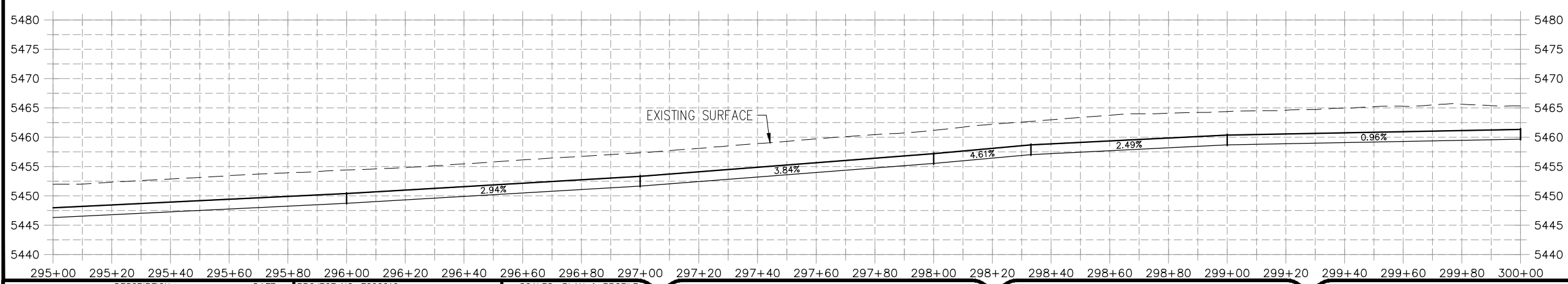
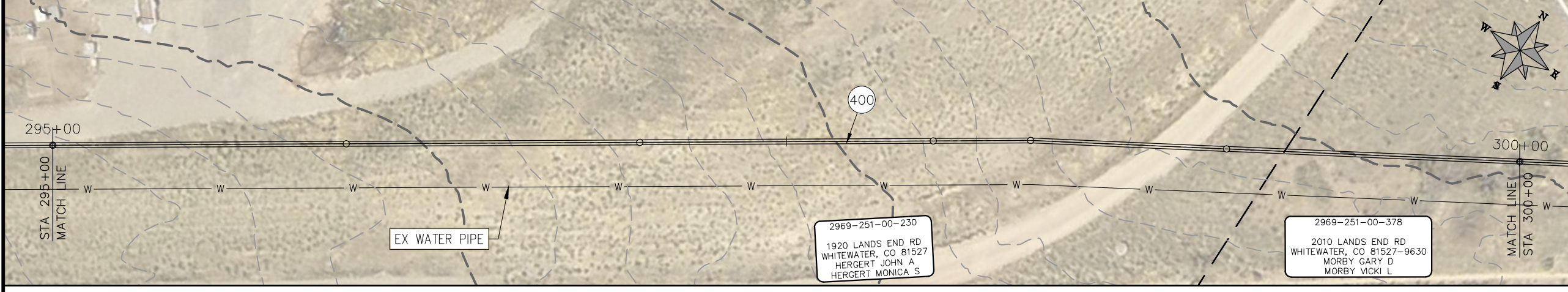
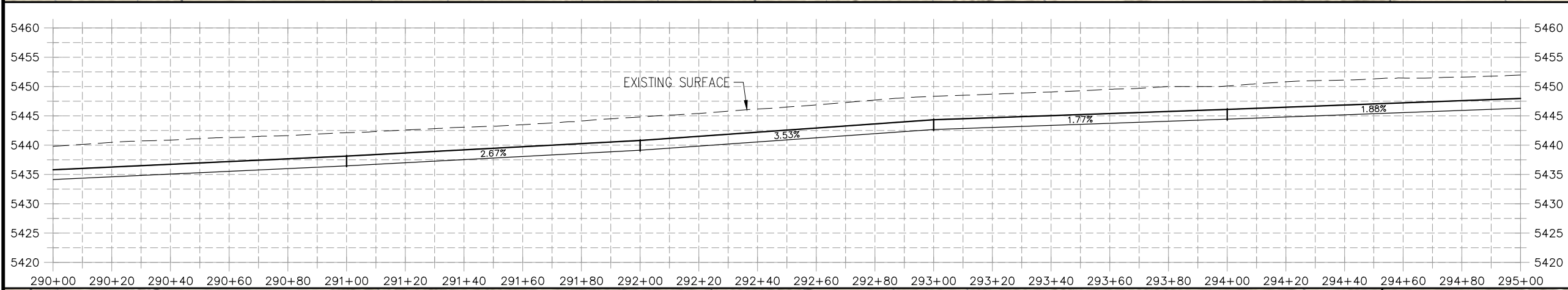
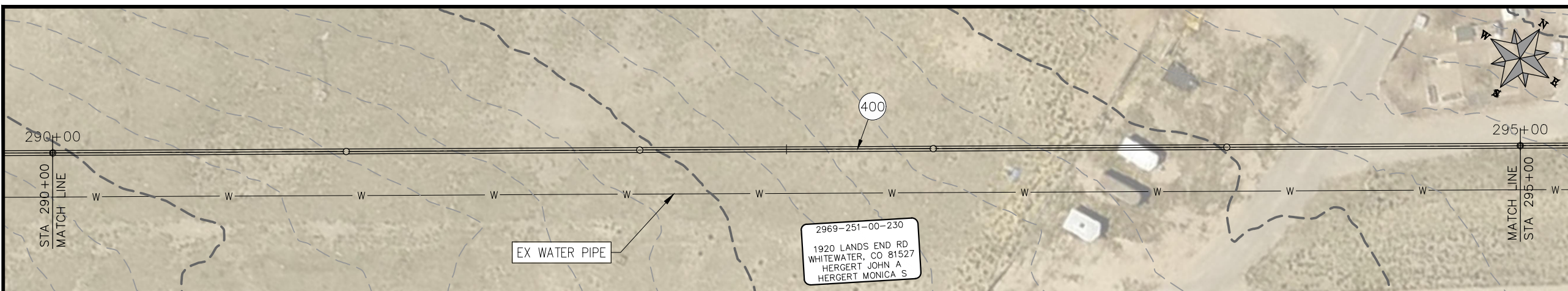
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 UPSTREAM SEGMENT PLAN AND PROFILE
 STA 280+00 TO STA 290+00**

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CONSTRUCTION NOTES

- (20) 202 - ABANDON PIPE. ABANDON PIPE BY PLUGGING REMAINING ENDS WITH CONCRETE
- (25) 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- (400) 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (402) 102.7/108.2 - 6" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (409) 102.8/108.3 - REDUCER (SIZE AS SHOWN).
- (411) 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- (441) 102.8/108.3 - 20", 45' ELBOW
- (442) 102.8/108.3 - 20", 22.5' ELBOW
- (443) 102.8/108.3 - 20", 16.875' ELBOW
- (444) 102.8/108.3 - 20", 11.25' ELBOW
- (445) INSTALL 6" DRAIN VALVE.
- (446) ROAD CROSSING.



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
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△		
△		
△		

PROJECT NO. F000610
DRAWN BY HMC DATE 2021
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 40'	0 10 20 40
VERTICAL: 1" = 5'	0 1.25 2.5 20



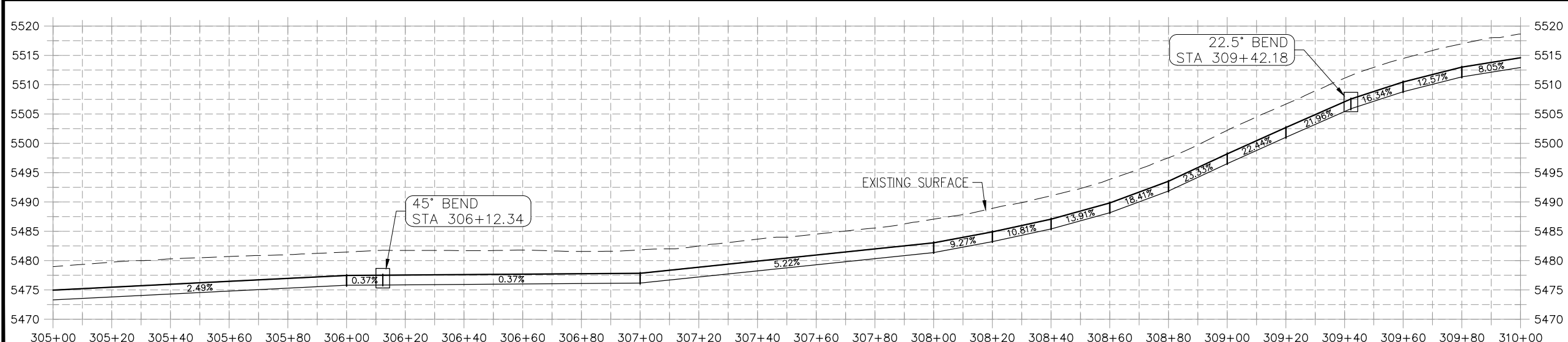
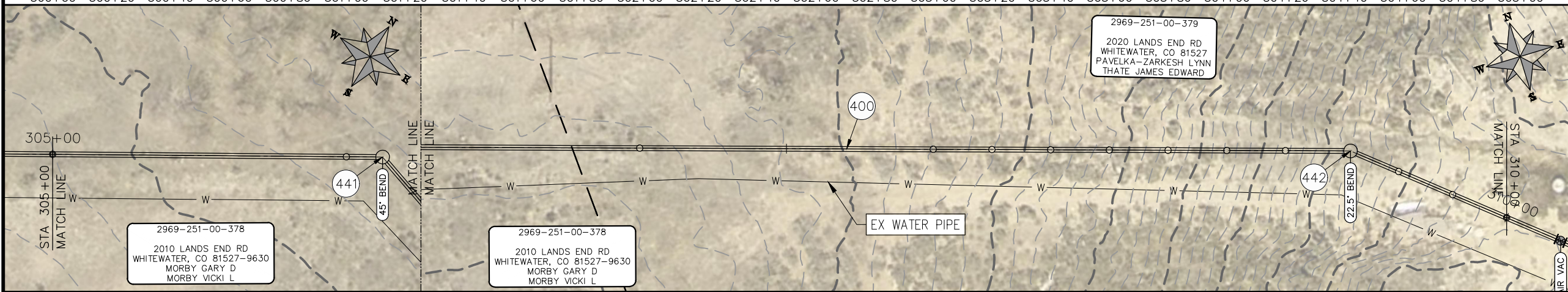
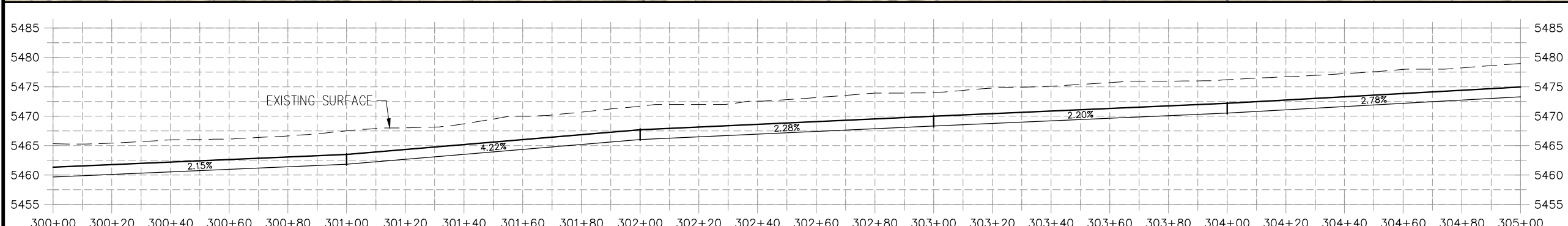
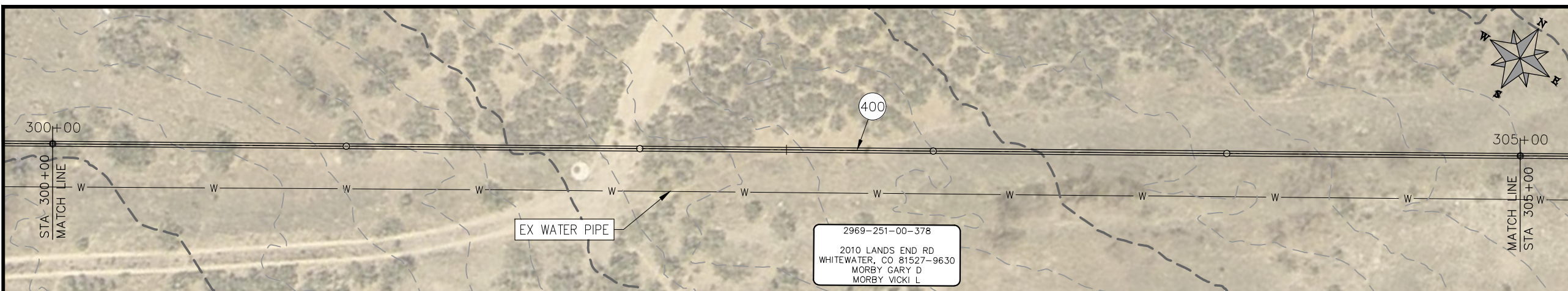
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 UPSTREAM SEGMENT PLAN AND PROFILE
 STA 290+00 TO STA 300+00**

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CONSTRUCTION NOTES

- (20) 202 - ABANDON PIPE. ABANDON PIPE BY PLUGGING REMAINING ENDS WITH CONCRETE
- (25) 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- (400) 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (402) 102.7/108.2 - 6" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (409) 102.8/108.3 - REDUCER (SIZE AS SHOWN).
- (411) 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- (441) 102.8/108.3 - 20", 45° ELBOW
- (442) 102.8/108.3 - 20", 22.5° ELBOW
- (443) 102.8/108.3 - 20", 16.875° ELBOW
- (444) 102.8/108.3 - 20", 11.25° ELBOW
- (445) INSTALL 6" DRAIN VALVE.
- (446) ROAD CROSSING.



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE

PROJECT NO. F000610
DRAWN BY HMC DATE 2021
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'



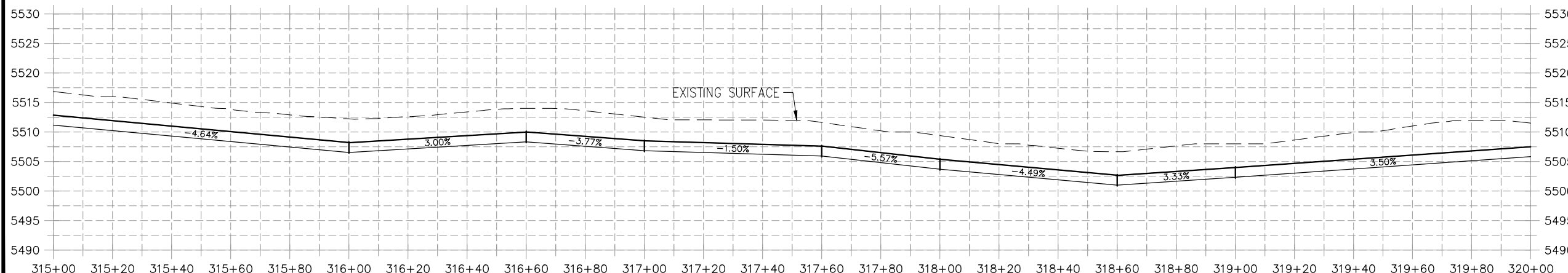
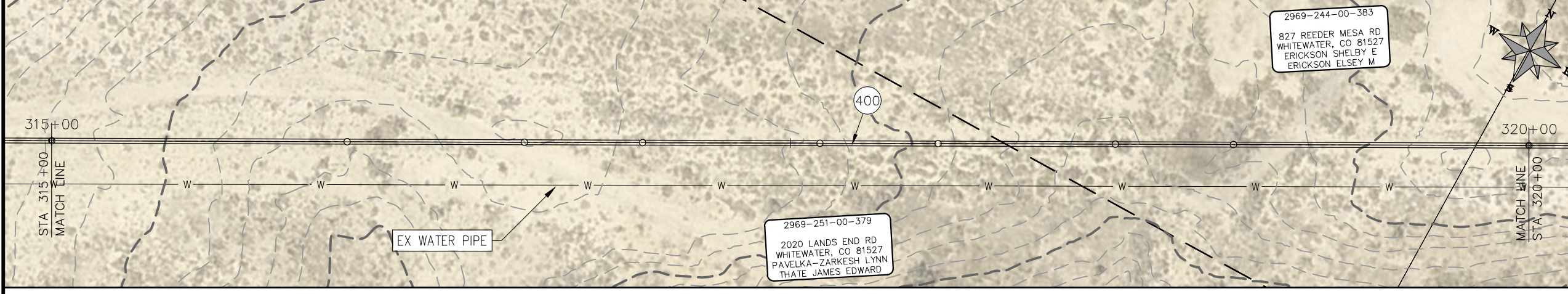
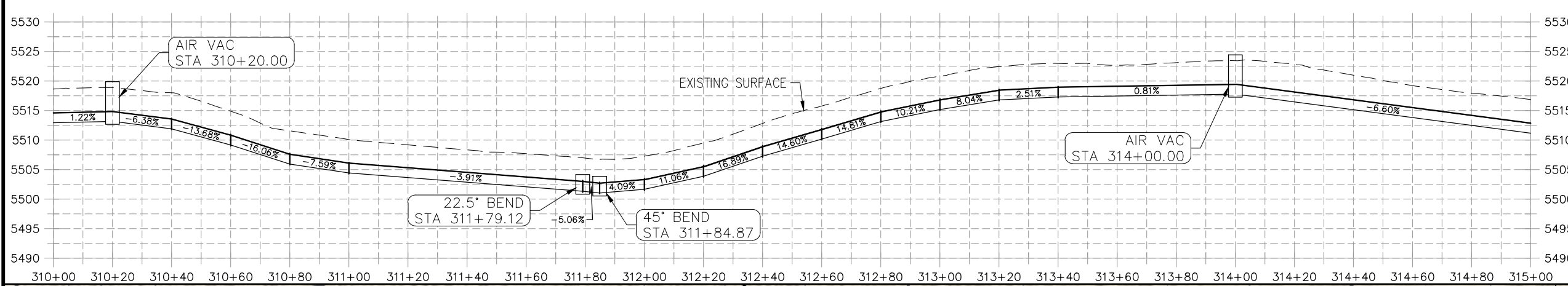
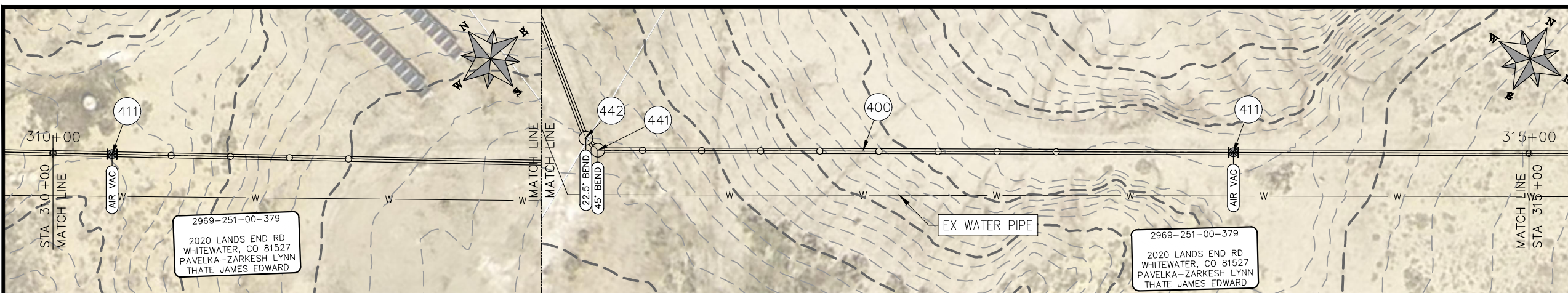
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 UPSTREAM SEGMENT PLAN AND PROFILE
 STA 300+00 TO STA 310+00**

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CONSTRUCTION NOTES

- (20) 202 - ABANDON PIPE. ABANDON PIPE BY PLUGGING REMAINING ENDS WITH CONCRETE
- (25) 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- (400) 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (402) 102.7/108.2 - 6" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (409) 102.8/108.3 - REDUCER (SIZE AS SHOWN).
- (411) 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- (441) 102.8/108.3 - 20", 45' ELBOW
- (442) 102.8/108.3 - 20", 22.5' ELBOW
- (443) 102.8/108.3 - 20", 16.875' ELBOW
- (444) 102.8/108.3 - 20", 11.25' ELBOW
- (445) INSTALL 6" DRAIN VALVE.
- (446) ROAD CROSSING.



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE	PROJECT NO. F000610
REVISION Δ			
REVISION Δ			
REVISION Δ			
REVISION Δ			

SCALE	DATE
DRAWN BY HMC	DATE 2021
DESIGNED BY JAE	DATE 2021
CHECKED BY JAE	DATE 2021
APPROVED BY JAE	DATE 2021

CITY OF
Grand Junction
 COLORADO

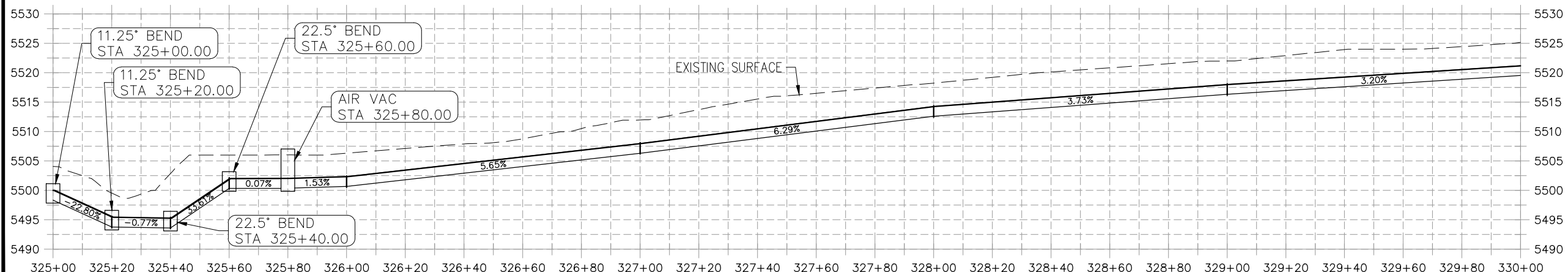
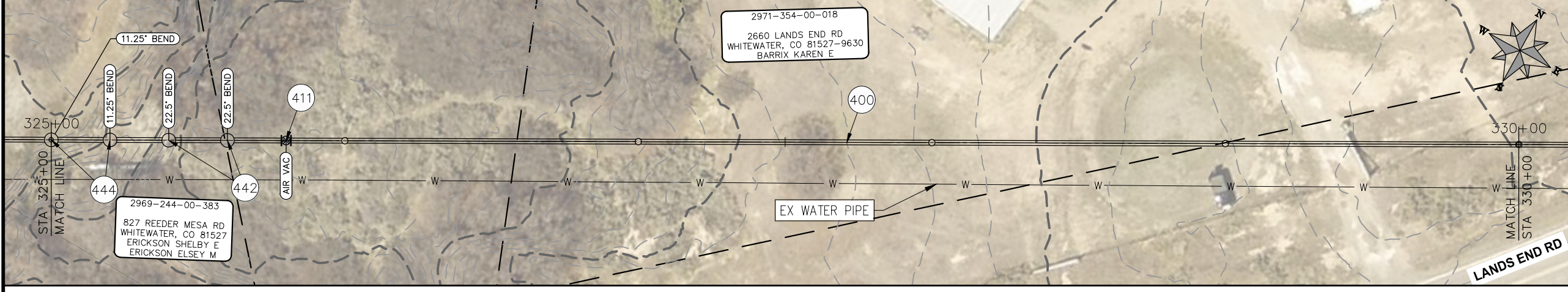
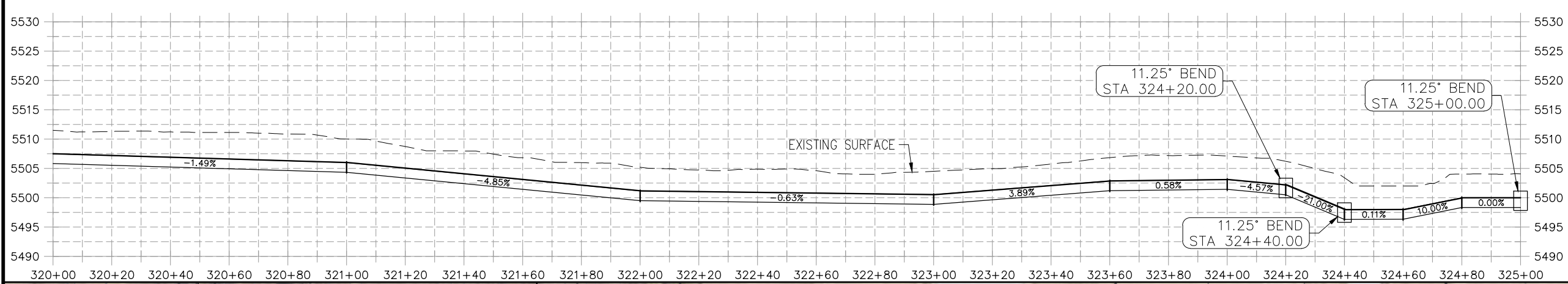
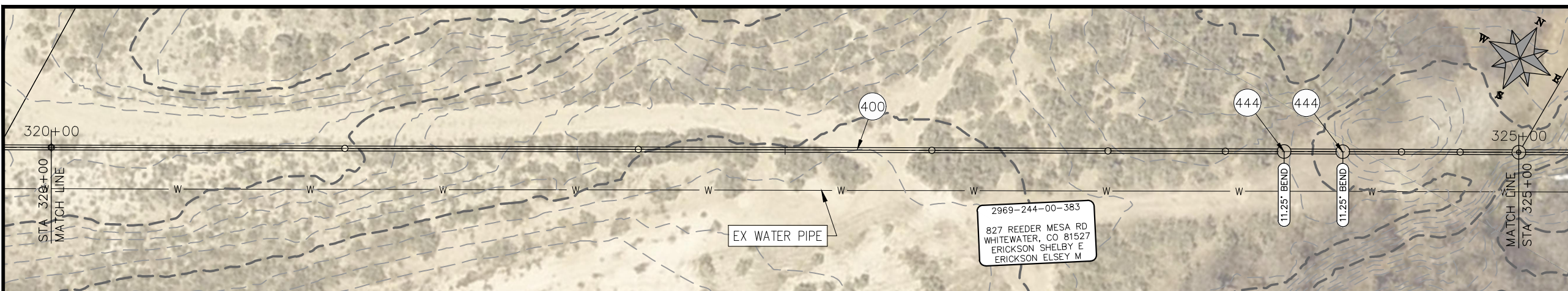
PUBLIC WORKS
 ENGINEERING DIVISION

2021 PURDY MESA FLOWLINE REPLACEMENT
 UPSTREAM SEGMENT PLAN AND PROFILE
 STA 310+00 TO STA 320+00

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CONSTRUCTION NOTES

- (20) 202 - ABANDON PIPE. ABANDON PIPE BY PLUGGING REMAINING ENDS WITH CONCRETE
- (25) 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- (400) 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (402) 102.7/108.2 - 6" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (409) 102.8/108.3 - REDUCER (SIZE AS SHOWN).
- (411) 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- (441) 102.8/108.3 - 20", 45° ELBOW
- (442) 102.8/108.3 - 20", 22.5° ELBOW
- (443) 102.8/108.3 - 20", 16.875° ELBOW
- (444) 102.8/108.3 - 20", 11.25° ELBOW
- (445) INSTALL 6" DRAIN VALVE.
- (446) ROAD CROSSING.



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE

PROJECT NO: F000610
DRAWN BY HMC DATE 2021
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'

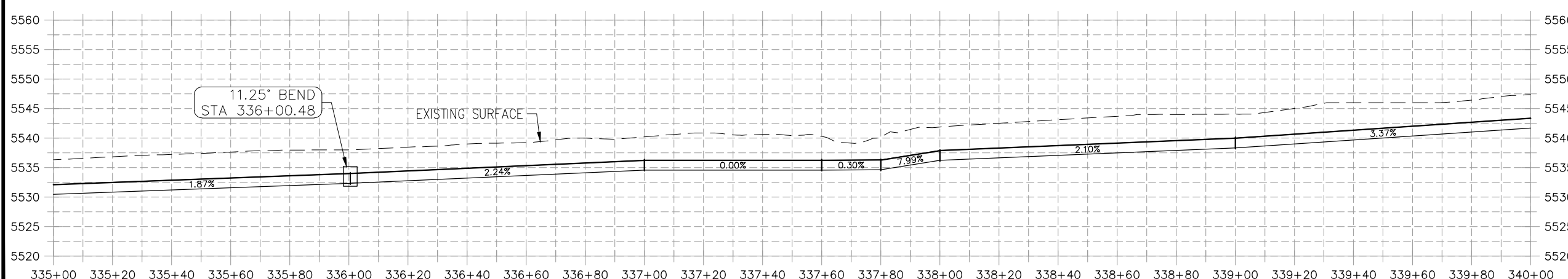
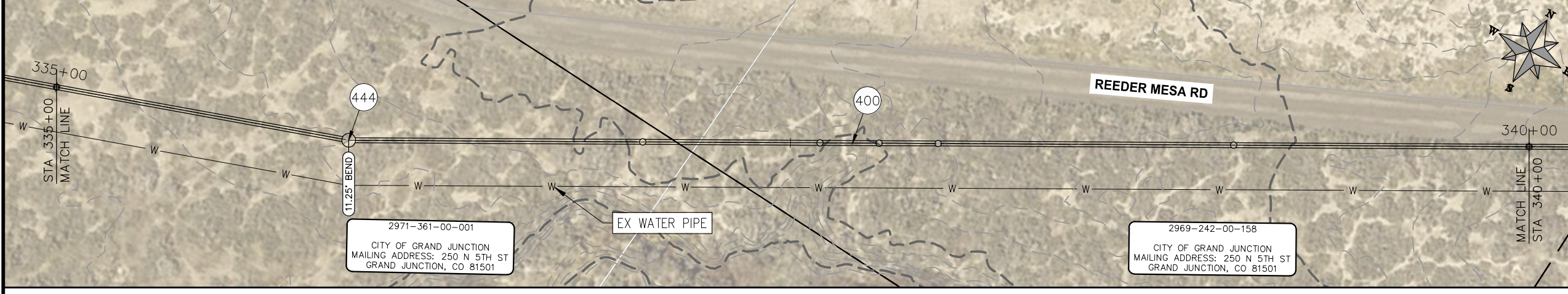
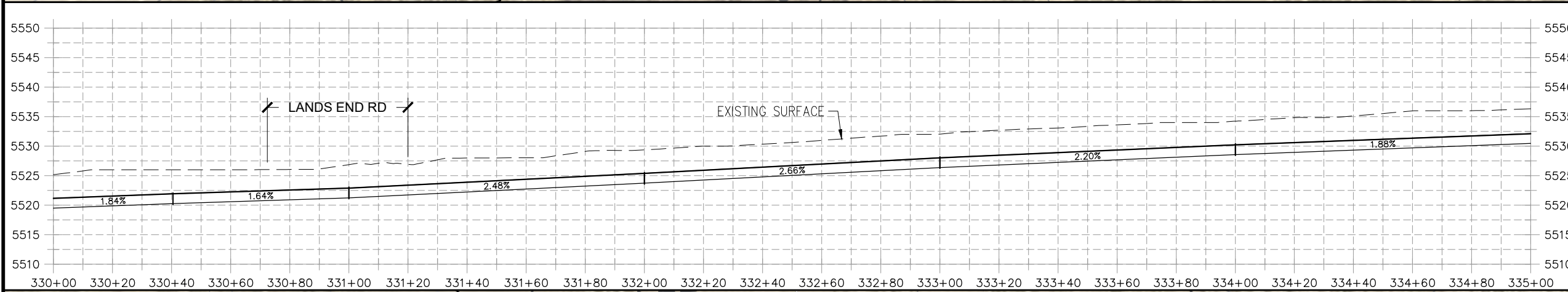


**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 UPSTREAM SEGMENT PLAN AND PROFILE
 STA 320+00 TO STA 330+00**

CONSTRUCTION NOTES

- (20) 202 - ABANDON PIPE. ABANDON PIPE BY PLUGGING REMAINING ENDS WITH CONCRETE.
- (25) 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- (400) 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (402) 102.7/108.2 - 6" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (409) 102.8/108.3 - REDUCER (SIZE AS SHOWN).
- (411) 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- (441) 102.8/108.3 - 20", 45' ELBOW
- (442) 102.8/108.3 - 20", 22.5' ELBOW
- (443) 102.8/108.3 - 20", 16.875' ELBOW
- (444) 102.8/108.3 - 20", 11.25' ELBOW
- (445) INSTALL 6" DRAIN VALVE.
- (446) ROAD CROSSING.



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE

PROJECT NO: F000610
DRAWN BY HMC DATE 2021
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

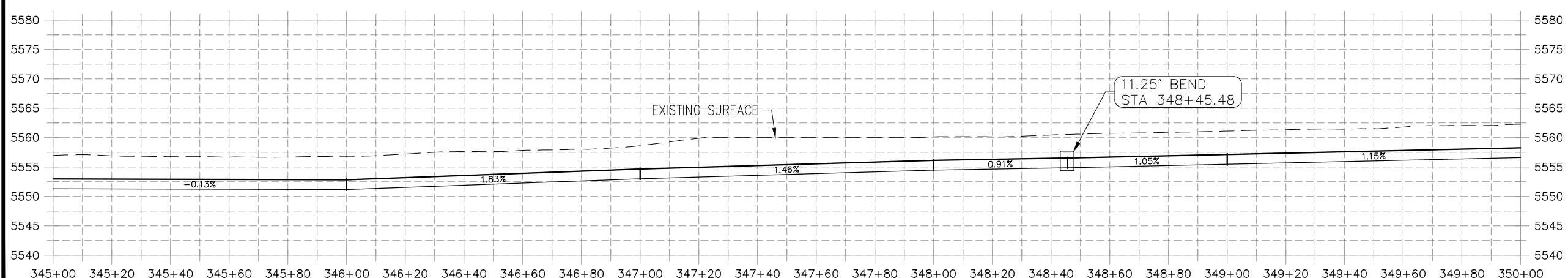
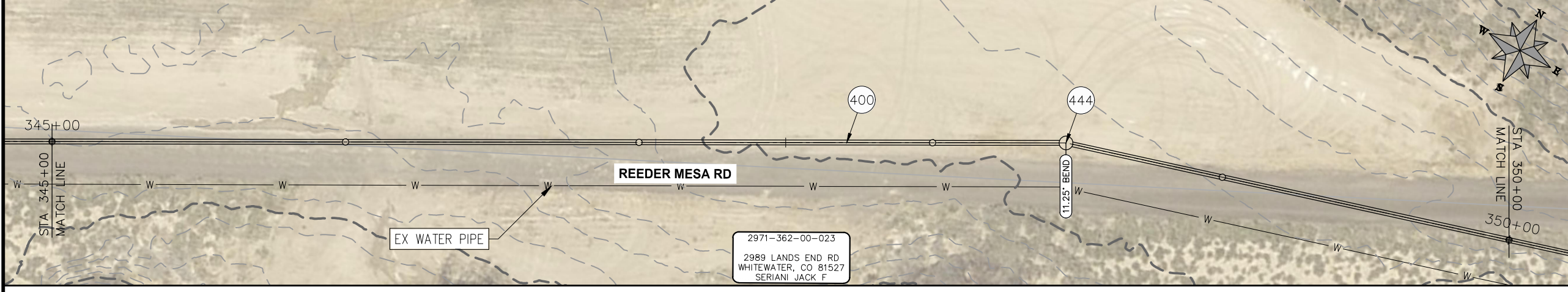
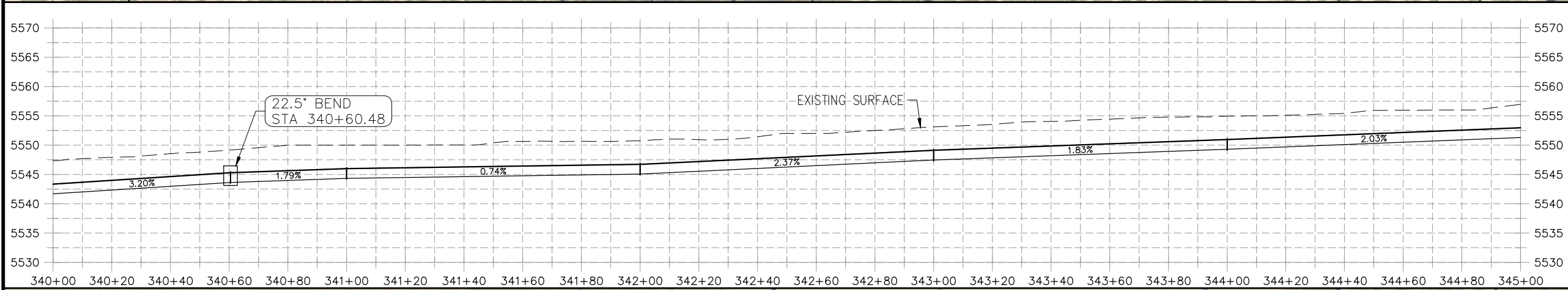
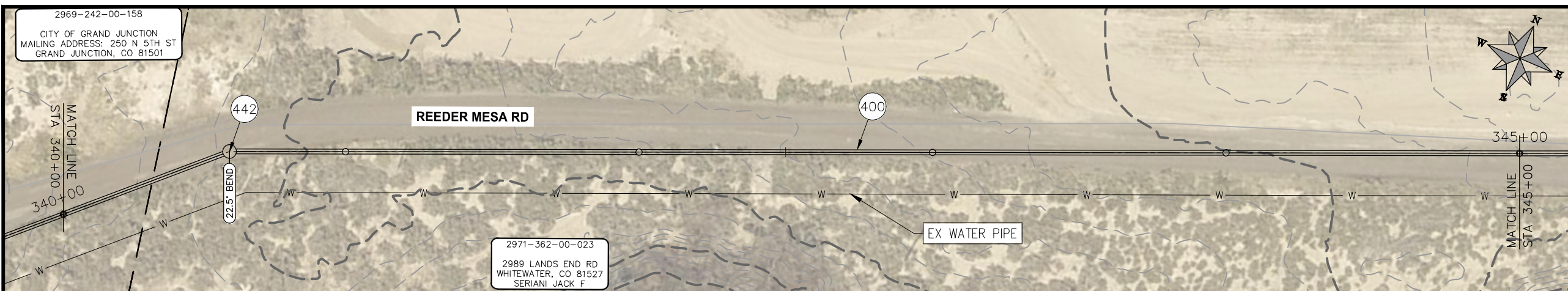
SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'



**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 UPSTREAM SEGMENT PLAN AND PROFILE
 STA 330+00 TO STA 340+00**

n:\landro\2020 flowline replacements\purdy mesa\60CAD\00DESIGN\PHASE II\LAYOUTS.dwg, 3" STA 330+00 TO STA 340+00, 3/25/2021 12:50:13 PM



COORDINATES SHOWN IN MCLCS: MESA COUNTY LOCAL COORDINATES SYSTEM

- CONSTRUCTION NOTES**
- (20) 202 - ABANDON PIPE. ABANDON PIPE BY PLUGGING REMAINING ENDS WITH CONCRETE
 - (25) 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
 - (400) 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
 - (402) 102.7/108.2 - 6" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
 - (409) 102.8/108.3 - REDUCER (SIZE AS SHOWN).
 - (411) 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
 - (441) 102.8/108.3 - 20", 45° ELBOW
 - (442) 102.8/108.3 - 20", 22.5° ELBOW
 - (443) 102.8/108.3 - 20", 16.875° ELBOW
 - (444) 102.8/108.3 - 20", 11.25° ELBOW
 - (445) INSTALL 6" DRAIN VALVE.
 - (446) ROAD CROSSING.

PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
REVISION Δ		
REVISION Δ		
REVISION Δ		
REVISION Δ		

PROJECT NO: F000610
DRAWN BY HMC DATE 2021
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'

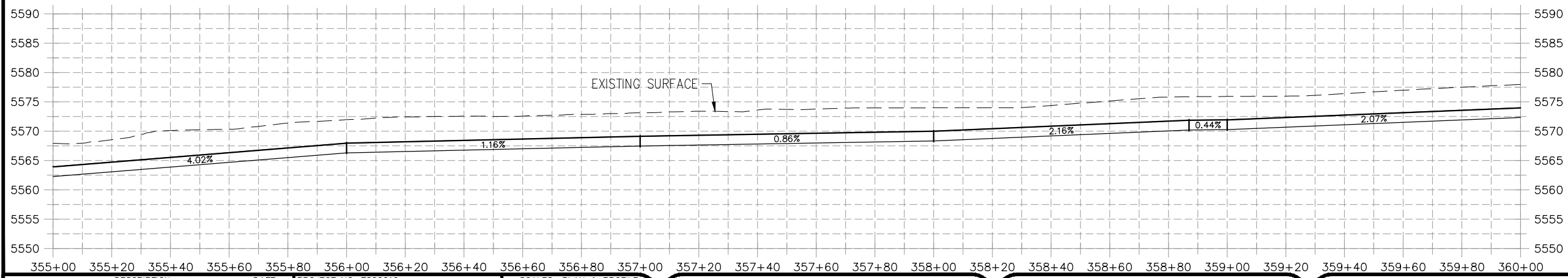
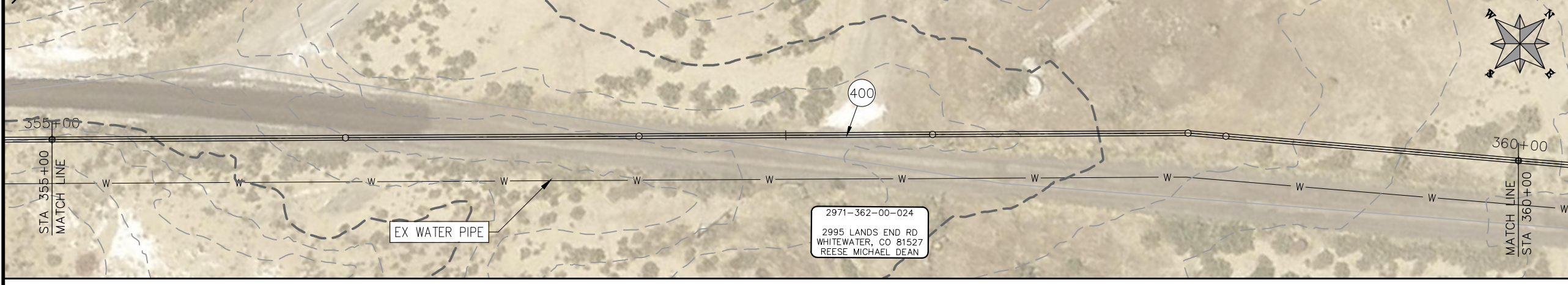
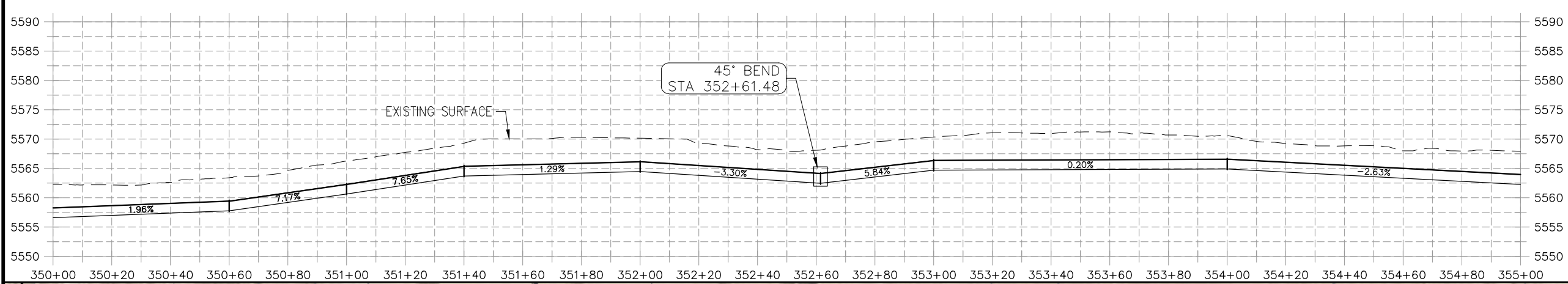
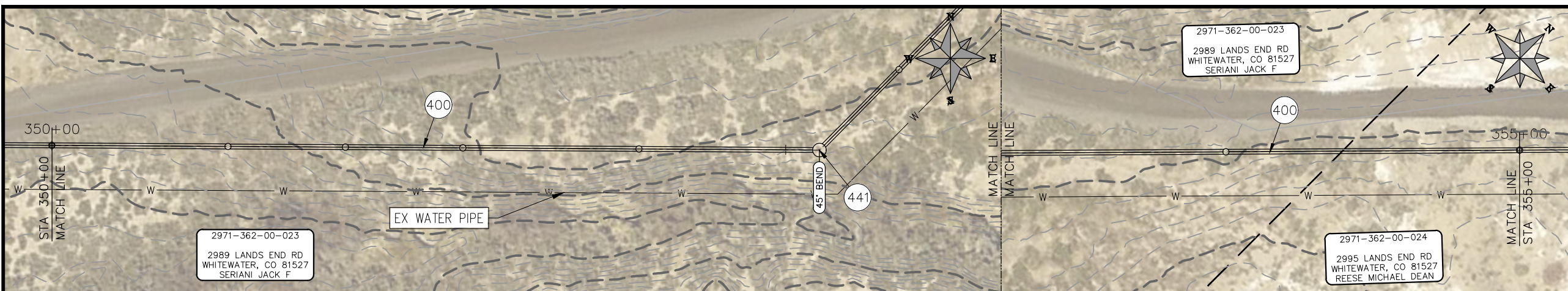


**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 UPSTREAM SEGMENT PLAN AND PROFILE
 STA 340+00 TO STA 350+00**

CONSTRUCTION NOTES

- (20) 202 - ABANDON PIPE. ABANDON PIPE BY PLUGGING REMAINING ENDS WITH CONCRETE
- (25) 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- (400) 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (402) 102.7/108.2 - 6" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (409) 102.8/108.3 - REDUCER (SIZE AS SHOWN).
- (411) 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- (441) 102.8/108.3 - 20", 45° ELBOW
- (442) 102.8/108.3 - 20", 22.5' ELBOW
- (443) 102.8/108.3 - 20", 16.875' ELBOW
- (444) 102.8/108.3 - 20", 11.25' ELBOW
- (445) INSTALL 6" DRAIN VALVE.
- (446) ROAD CROSSING.



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURIAL DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
REVISION Δ		
REVISION Δ		
REVISION Δ		
REVISION Δ		

PROJECT NO. F000610
DRAWN BY HMC DATE 2021
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'



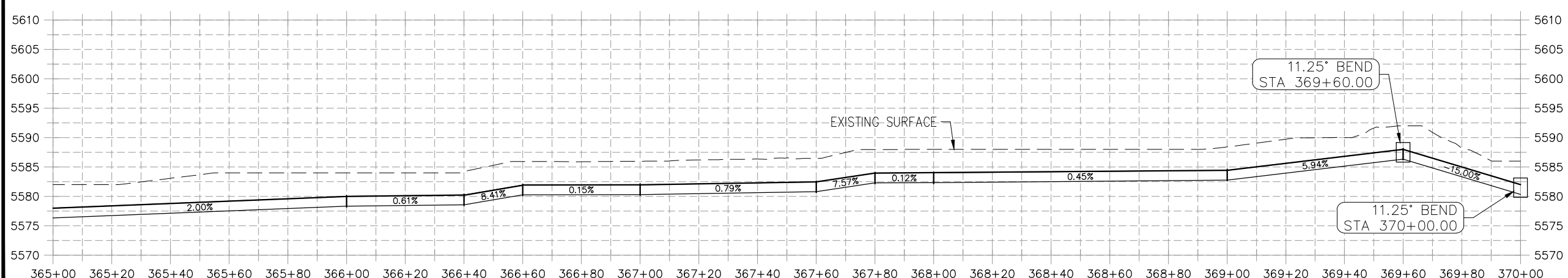
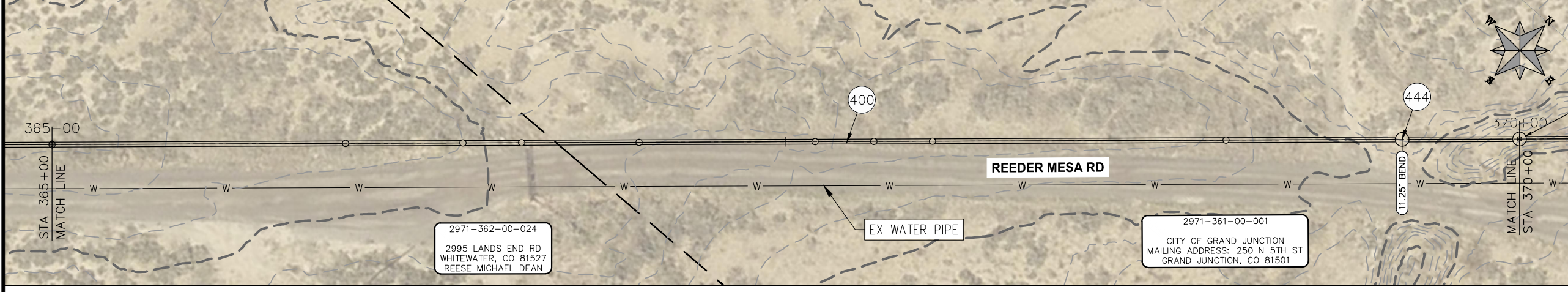
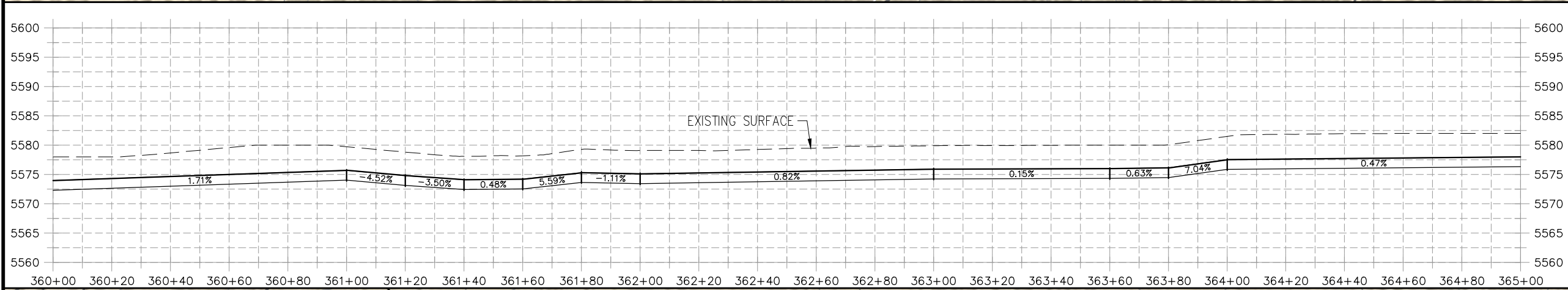
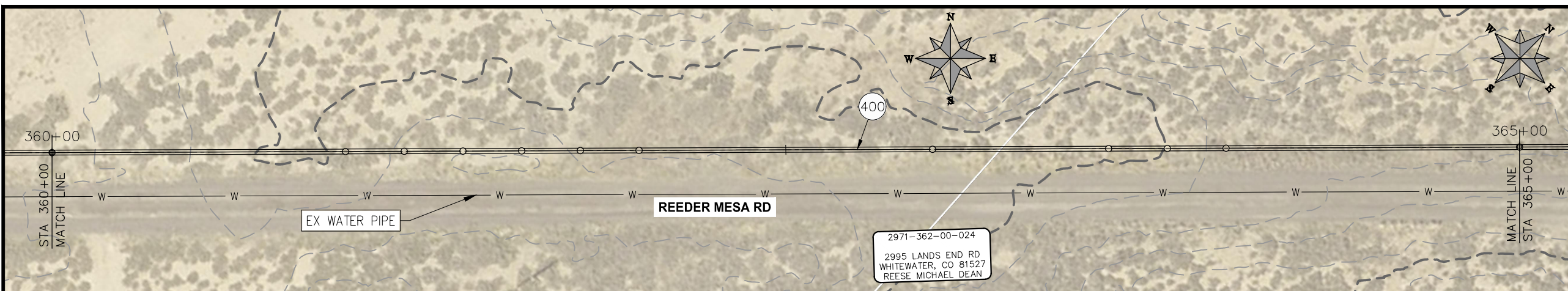
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 UPSTREAM SEGMENT PLAN AND PROFILE
 STA 350+00 TO STA 360+00**

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CONSTRUCTION NOTES

- (20) 202 - ABANDON PIPE. ABANDON PIPE BY PLUGGING REMAINING ENDS WITH CONCRETE
- (25) 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- (400) 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (402) 102.7/108.2 - 6" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (409) 102.8/108.3 - REDUCER (SIZE AS SHOWN).
- (411) 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- (441) 102.8/108.3 - 20", 45' ELBOW
- (442) 102.8/108.3 - 20", 22.5' ELBOW
- (443) 102.8/108.3 - 20", 16.875' ELBOW
- (444) 102.8/108.3 - 20", 11.25' ELBOW
- (445) INSTALL 6" DRAIN VALVE.
- (446) ROAD CROSSING.



PRELIMINARY

NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURY DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE

PROJECT NO. F000610
DRAWN BY HMC DATE 2021
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'



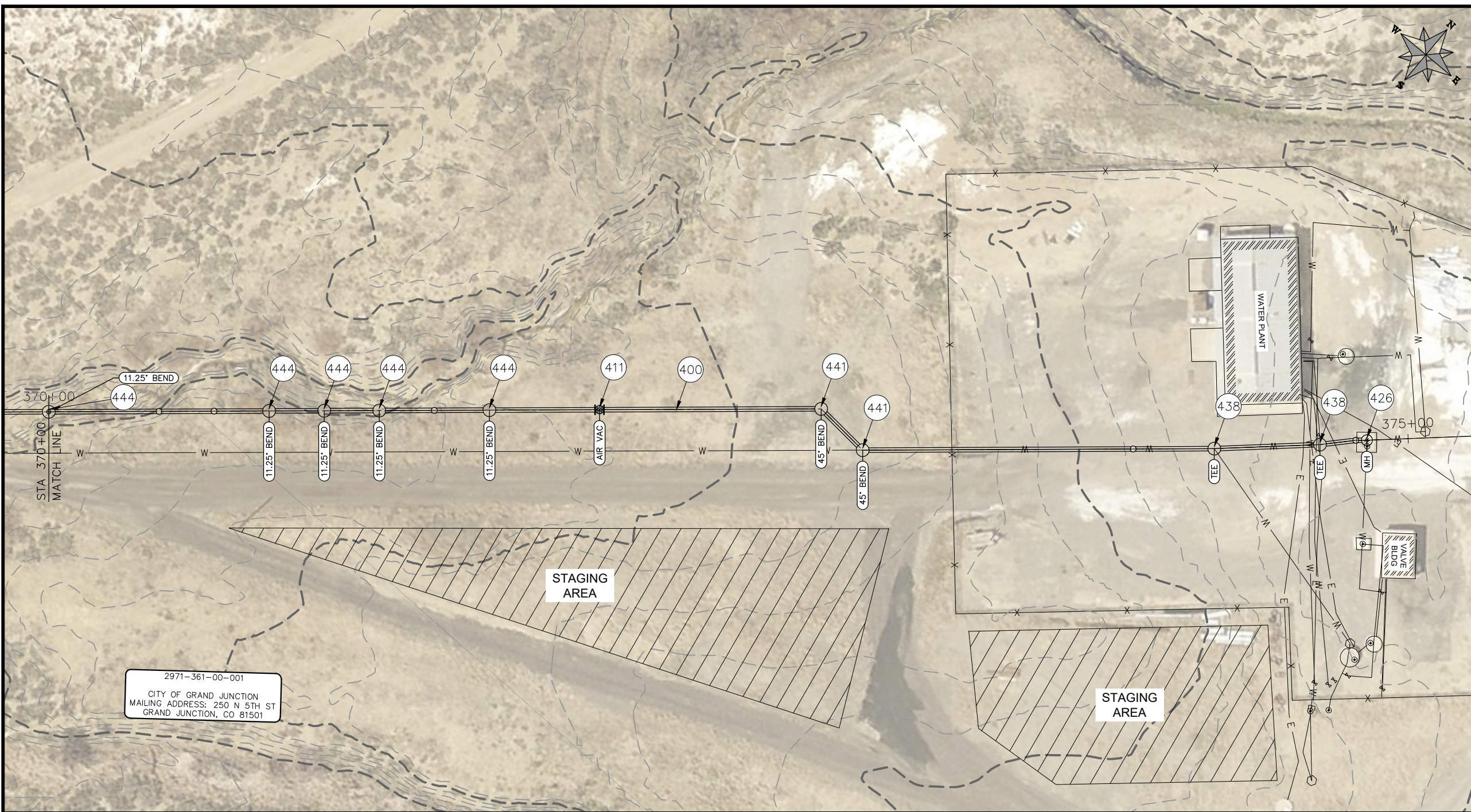
**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 UPSTREAM SEGMENT PLAN AND PROFILE
 STA 360+00 TO STA 370+00**

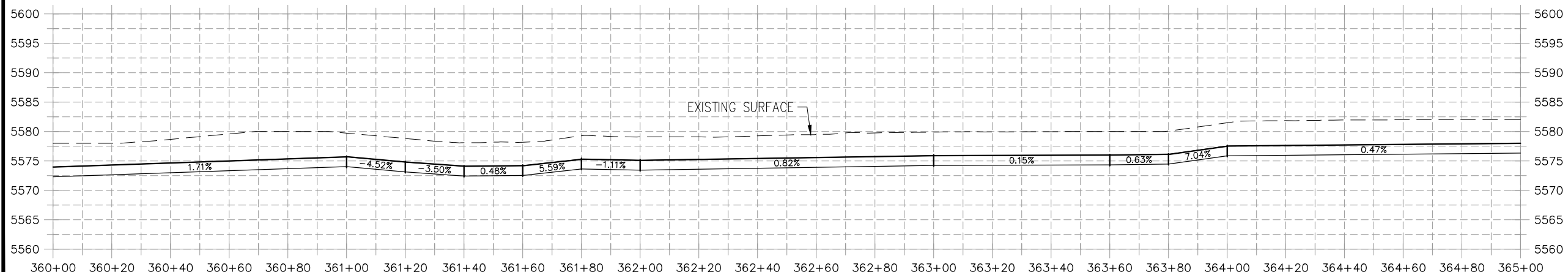
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CONSTRUCTION NOTES

- (20) 202 - ABANDON PIPE. ABANDON PIPE BY PLUGGING REMAINING ENDS WITH CONCRETE.
- (25) 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- (400) 102.7/108.2 - 20" WATER MAIN PIPE (DR-25 EAGLE LOC WITH INSERTION STOP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (402) 102.7/108.2 - 6" WATER MAIN PIPE (SDR-18 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (409) 102.8/108.3 - REDUCER (SIZE AS SHOWN).
- (411) 102.8g/102.8h/108.3 - 6" AIR VALVE AND VAULT
- (426) CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- (438) 102.8/108.3 - 20" x ??" TEE
- (441) 102.8/108.3 - 20", 45° ELBOW
- (442) 102.8/108.3 - 20", 22.5° ELBOW
- (443) 102.8/108.3 - 20", 16.875° ELBOW
- (444) 102.8/108.3 - 20", 11.25° ELBOW
- (445) INSTALL 6" DRAIN VALVE.
- (446) ROAD CROSSING.



2971-361-00-001
 CITY OF GRAND JUNCTION
 MAILING ADDRESS: 250 N 5TH ST
 GRAND JUNCTION, CO 81501



NOTE
 DESIGN HAS BEEN BASED ON:
 -AVERAGE 3 ft BURIED DEPTH
 -ASSUMPTION OF 1° DEFLECTION IN PIPE JOINT

REVISION	DESCRIPTION	DATE
△		
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△		

PROJECT NO. F000610
DRAWN BY HMC DATE 2021
DESIGNED BY JAE DATE 2021
CHECKED BY JAE DATE 2021
APPROVED BY JAE DATE 2021

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'



**PUBLIC WORKS
 ENGINEERING DIVISION**

**2021 PURDY MESA FLOWLINE REPLACEMENT
 UPSTREAM SEGMENT PLAN AND PROFILE
 STA 370+00 TO STA 380+00**

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