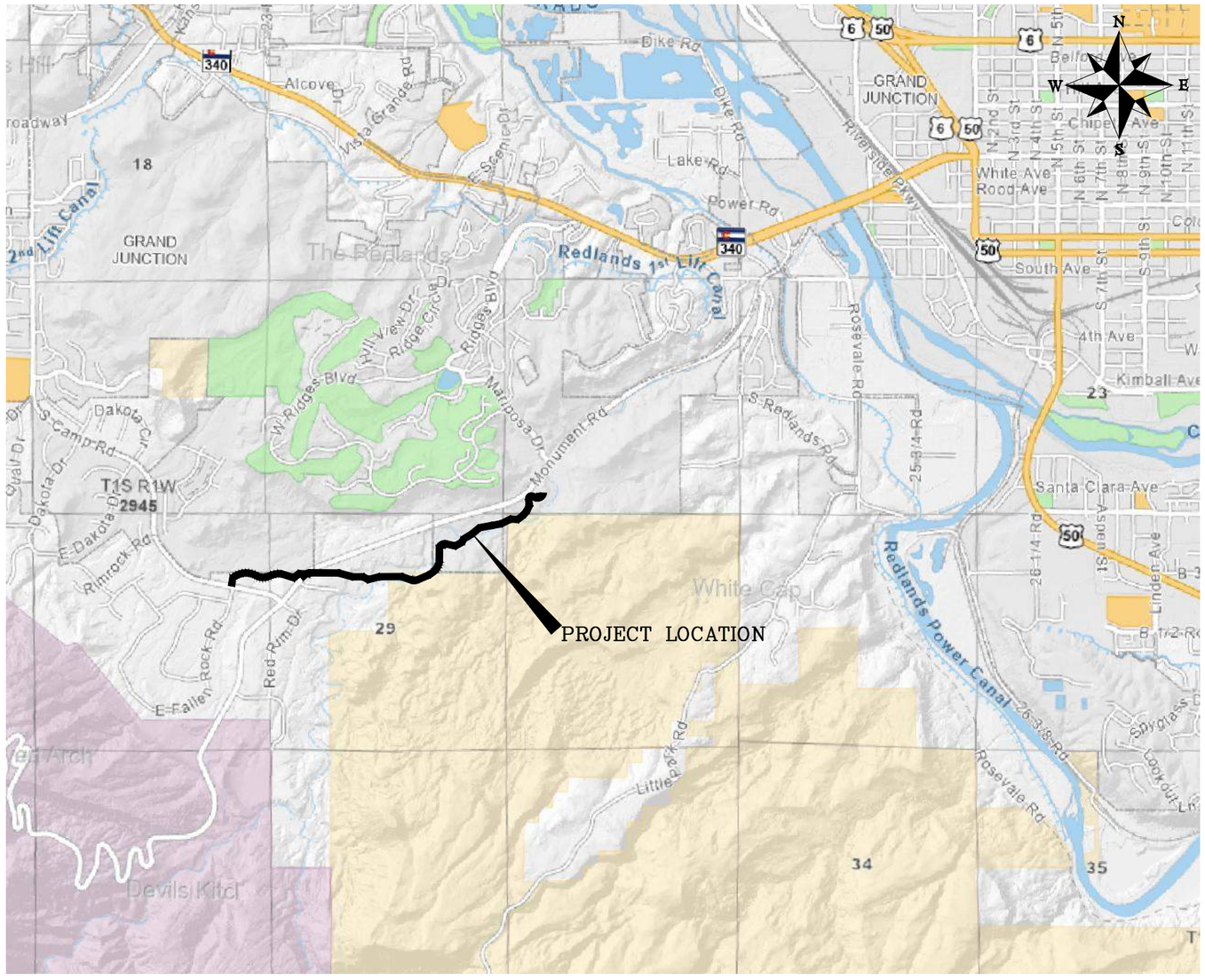
PROJECT NO.G2208

CITY OF GRAND JUNCTION
MONUMENT CONNECT TRAIL PHASE 2
August 13, 2024



VICINITY MAP

0 1500 3000

SHEET LIST

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 1	
REVISION 2	
REVISION 3	
REVISION 4	

811 Know what's **below.** **Call** before you dig.

CITY OF Grand Junction COLORADO

Public Works
Engineering Division

N:\EngProj\g2208 (monument connect phase ii)\60CAD\00DESIGN\COVER SHEET.dwg – PLOTTED 8/13/2024 11:14:23 AM

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
℄	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
℄	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
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
△	DELTA ANGLE

LEGEND

BSWMP DRAINAGE BASIN BOUNDARY

BSWMP ANCHORED STRAW BALES — ASB ASB ASB ASB ASB ASB ASB

BSWMP SILT FENCE — 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 (HT & MATL NOTED) — 6' CHAINLINK

GUARD RAIL

HATCHING: INDICATES ASPHALT REMOVAL

HATCHING: INDICATES CONCRETE REMOVAL

HATCHING: INDICATES STAGING AREA — ~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

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

CONTOUR LINES (SHOWN BETWEEN TOP & TOE) — 4580

TOE OF SLOPE — 4570

TRAFFIC DETECTOR LOOP

UTILITY LINE (ABANDON) (THIS CASE A WATER LINE) — W (ABANDONED) 8" W

UTILITY LINE (CABLE TV) — TV TV

UTILITY LINE (ELECTRIC) — E E

UTILITY LINE (FIBER OPTIC) — FO QWEST FO

UTILITY LINE (GAS) — G 1 1/4" MW G

UTILITY LINE (HIGH VOLTAGE OVERHEAD POWER) — HVOHP

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) — SS

UTILITY LINE (STORM SEWER) — 8" STM

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 — A

CATCH BASIN

CLEAN OUT — SSCO

CURB STOP

FIRE HYDRANT

GUY WIRE ANCHOR

HEADGATE

IRRIGATION PUMP

MAILBOX — MB

MANHOLE (ELECTRIC) — E

MANHOLE (GAS) — G

MANHOLE (SANITARY/STORM)

MANHOLE (TELEPHONE) — T

MANHOLE (TV) — TV

MANHOLE (WATER) — W

METER (GAS) — GM

METER (WATER)

PEDESTAL (TELEPHONE)

PEDESTAL (TV) — TV

PROPERTY PIN — PIN

PULL BOX

REDUCER FITTING

SIGN OR POST (SIGN TYPE NOTED) — STOP

SPRINKLER HEAD

STREET LIGHT

SURVEY MONUMENT (CITY) — CSM

SURVEY MONUMENT (TYPE NOTED) — MCSM

TEST HOLE — TH #1

TRAFFIC PAINT MARKING

TRAFFIC SIGNAL POLE AND MAST ARM

UTILITY POLE

VALVE (GAS) — GV

VALVE (IRRIGATION) — IRR

VALVE (WATER)

VEGETATION (HEDGE OR BUSH)

VEGETATION (TREE STUMP)

VEGETATION (TREE) (CALIPER SIZE NOTED) — 6"

WATER HYDRANT — WH

WEIR

YARD LIGHT

NORTH ARROW:

BAR SCALE:

GRAPHIC SCALE

10 0 20 60

(IN FEET)
1 inch = 20 ft.

DESCRIPTION	DATE
REVISION 1	
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REVISION 4	

DRAWN BY HMC DATE 2024
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APPROVED BY KA DATE 2024

SCALES:

SEE PLAN FOR SCALE INFO

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
STANDARD ABBREVIATIONS LEGENDS AND SYMBOLS
August 13, 2024

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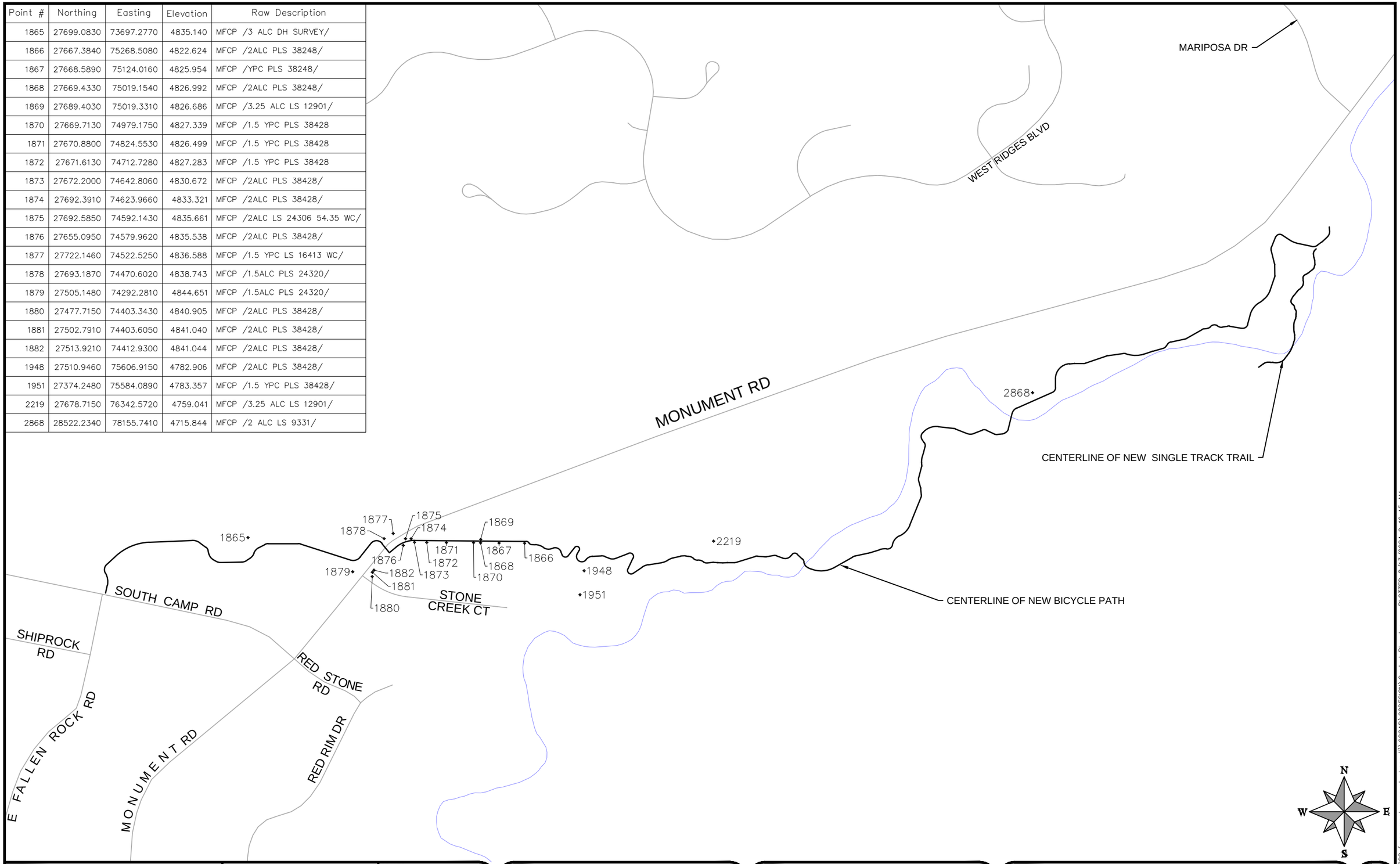
Point #	Northing	Easting	Elevation	Raw Description
1865	27699.0830	73697.2770	4835.140	MFCP /3 ALC DH SURVEY/
1866	27667.3840	75268.5080	4822.624	MFCP /2ALC PLS 38248/
1867	27668.5890	75124.0160	4825.954	MFCP /YPC PLS 38248/
1868	27669.4330	75019.1540	4826.992	MFCP /2ALC PLS 38248/
1869	27689.4030	75019.3310	4826.686	MFCP /3.25 ALC LS 12901/
1870	27669.7130	74979.1750	4827.339	MFCP /1.5 YPC PLS 38428
1871	27670.8800	74824.5530	4826.499	MFCP /1.5 YPC PLS 38428
1872	27671.6130	74712.7280	4827.283	MFCP /1.5 YPC PLS 38428
1873	27672.2000	74642.8060	4830.672	MFCP /2ALC PLS 38428/
1874	27692.3910	74623.9660	4833.321	MFCP /2ALC PLS 38428/
1875	27692.5850	74592.1430	4835.661	MFCP /2ALC LS 24306 54.35 WC/
1876	27655.0950	74579.9620	4835.538	MFCP /2ALC PLS 38428/
1877	27722.1460	74522.5250	4836.588	MFCP /1.5 YPC LS 16413 WC/
1878	27693.1870	74470.6020	4838.743	MFCP /1.5ALC PLS 24320/
1879	27505.1480	74292.2810	4844.651	MFCP /1.5ALC PLS 24320/
1880	27477.7150	74403.3430	4840.905	MFCP /2ALC PLS 38428/
1881	27502.7910	74403.6050	4841.040	MFCP /2ALC PLS 38428/
1882	27513.9210	74412.9300	4841.044	MFCP /2ALC PLS 38428/
1948	27510.9460	75606.9150	4782.906	MFCP /2ALC PLS 38428/
1951	27374.2480	75584.0890	4783.357	MFCP /1.5 YPC PLS 38428/
2219	27678.7150	76342.5720	4759.041	MFCP /3.25 ALC LS 12901/
2868	28522.2340	78155.7410	4715.844	MFCP /2 ALC LS 9331/



DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

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APPROVED BY KA DATE 2024

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
CONTROL PLAN
August 13, 2024

3

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Monument Connect Trail - Phase 2

Item No.	CDOT, City Ref.	Description	Quantity	Units
1	102.10	Reinforced Concrete Pipe (RCP) (76-inch x 48-inch Horizontal Elliptical) (Includes bedding, material and install)	80.	Lin. Ft.
2	102.10	Reinforced Concrete Pipe (RCP) (48-inch) (Includes bedding, material and install)	24.	Lin. Ft.
3	102.10	Reinforced Concrete Pipe (RCP) (24-inch) (Includes bedding, material and install)	144.	Lin. Ft.
4	102.10	Reinforced Concrete Pipe (RCP) (18-inch) (Includes bedding, material and install)	72.	Lin. Ft.
5	102.10	Reinforced Concrete Pipe (RCP) (12-inch) (Includes bedding, material and install)	24.	Lin. Ft.
6	102.10	Reinforced Concrete Box Culvert (CBC) (9 ft wide by 4 ft high (Delivery from Rinker Materials, bedding and Install Only)	74.	Lin. Ft.
7	102.10	Reinforced Concrete Box Culvert (CBC) (9 ft wide by 5 ft high (Delivery from Rinker Materials, bedding and Install Only)	74.	Lin. Ft.
8	102.13	3 ft x 3 ft Area Inlet	1.	Each
9	201	Clearing and Grubbing	5.2	Acre
10	202	Removal of Tree (2" dia.)	6.	Each
11	203	Unclassified Excavation (Complete in Place)	2,700.	Cu. Yd.
12	208	Erosion Logs (12 inch)	4,000.	Lin. Ft.
13	208	Aggregate Bag	10.	Each
14	208	Concrete Washout Structure	2.	Each
15	208	Vehicle Track Pad	3.	Each
16	208	BMP Swale Berms	32.	Each
17	209	Dust Abatement	Lump	Sum
18	210	Reset Sign	1.	Each
19	210	Adjust existing metal post and rail fence at bike park	Lump	Sum
20	212	Seeding (Native) (Hydroseed) (Use Seed Mixes Specified Based on Property Owner - City or BLM)	4.5	Acre
21				
22	216	Soil Retention Blanket (Coconut) (As Needed Where Disturbed Slope is Greater Than 3:1)	1,000.	Sq. Yd.
23	304	Granular Stabilization Material (Type B) (Crushed Rock) (As Needed in Excavations Where Unstable Bottom Exists)	20.	Ton
24	304	Aggregate Base Course (Class 6) (12 inch thick shoulders)	3,411.	Ton
25	304	Aggregate Base Course (Class 3) (subgrade stabilization as needed)	500.	Cu. Yd.
26	306	Reconditioning (12 inches deep)	20,253.	Sq. Yd.
27	306	Singletrack Trail (3-ft wide) (Complete in Place)	880.	Lin. Ft.
28	504	Precast Concrete Block Retaining Wall System (includes all necessary appurtenances, work, etc. to complete).	508.	FSF
29	504	Concrete Wall (Class D) per M and S Standard M-601-20 (Wall Design Height 3' to 7' per plan). (Includes associated headwall, and toe walls) Work shall include approximately 3750 lbs. Reinforcing Steel (Epoxy Coated), 75 sy Structural Concrete Coating (Exterior of wall), 35 cy Structural Backfill (Class 1) and any necessary appurtenances to complete work.	95.	Cu. Yd.
30	506	Riprap (D_{50} = 12 inch)	100.	Cu. Yd.
31	506	Landscape Boulders (Site Access Control)	112.	Each
32	514	Detectable Warning (Cast Iron, Wet Set) (2 ft x 2 ft)	15.	Each
33	601	Cast-in-Place Concrete Footings to support shade structures (1.5 ft diameter, 6 ft drilled into ground, including rebar per details)	24.	LF
34	608	Colored Concrete Sidewalk (6" Thick) to include 6" of Class 6 Aggregate Base Course	10,167.	Sq. Yd.
35	608	Colored Concrete Curb Ramp to include 6" of Class 6 Aggregate Base Course	150.	Sq. Yd.
36	608	Colored Concrete Curb and Gutter (2 ft wide) to include 6" of Class 6 Aggregate Base Course	290.	Lin. Ft.
37	608	Colored Concrete Pad for Benches (6 inch thick)(Includes 6 inch thick Class 6 ABC) (Location To Be Decided)	18.	Sq. Yd.
38	620	Portable Sanitary Facility	2.	
39	625	Construction Surveying (Includes As-Built Drawings)	Lump	Sum
40	626	Mobilization	Lump	Sum
41	630	Traffic Control (Complete in Place)	Lump	Sum

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SCALES: NO SCALE

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
SUMMARY OF APPROXIMATE QUANTITIES
August 13, 2024

SUMMARY OF EARTHWORK QUANTITIES

INDEX Book	INDEX Page	INDEX Sheet		PROJECT TOTAL	
			203-00010 UNCLASSIFIED EXCAVATION (CIP)	**CU. YD.**	*As Const.*
			ROADWAY (QUANTITY CALCULATED FROM CIVIL3D)		
			Monument Connect Trail - Phase 2	2694	
			ADDITION OF CONCRETE AND PAVING PRISM	0	
			REMOVAL OF PAVEMENT REMOVAL PAY ITEMS	0	
			SUBTOTAL:	2694	
			SUBTOTAL:	0	
			SUBTOTAL:	0	
			TOTAL FOR PAY QUANTITIES	**2694**	
			EMBANKMENT MATERIAL (CIP) (FOR INFORMATION ONLY)	**CU. YD.**	
			QUANTITY CALCULATED FROM CIVIL3D		
			Monument Connect Trail - Phase 2	7310	
			REMOVAL OF CONCRETE PAVING AND SHOULDER WITH BASE PRISM	-5110	
			TOTAL	**2200**	

INDEX Book	INDEX Page	INDEX Sheet	**ROADWAY QUANTITIES BALANCE (FOR INFORMATION ONLY)**	**PROJECT TOTAL** CU. YD.	*As Const.*
			Total Unclassified Excavation	2694	
			Total Embankment (net)	2200	
			EMBANKMENT TIMES FACTOR 1.2	2640	
			Import Material (Material to be Imported by Contractor)	-54	

NOTES:

TOP 4 INCHES OF ALL EMBANKMENT SHALL BE FREE OF DEBRIS AND ROCKS OR CLODS GREATER THAN 3 INCHES IN DIAMETER, AND SHALL BE SUITABLE AS NATIVE TOPSOIL.
ALL IMPORTED EMBANKMENT MATERIAL SHALL MEET A MINIMUM OF R-VALUE = 40.

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ENGINEERING DIVISION
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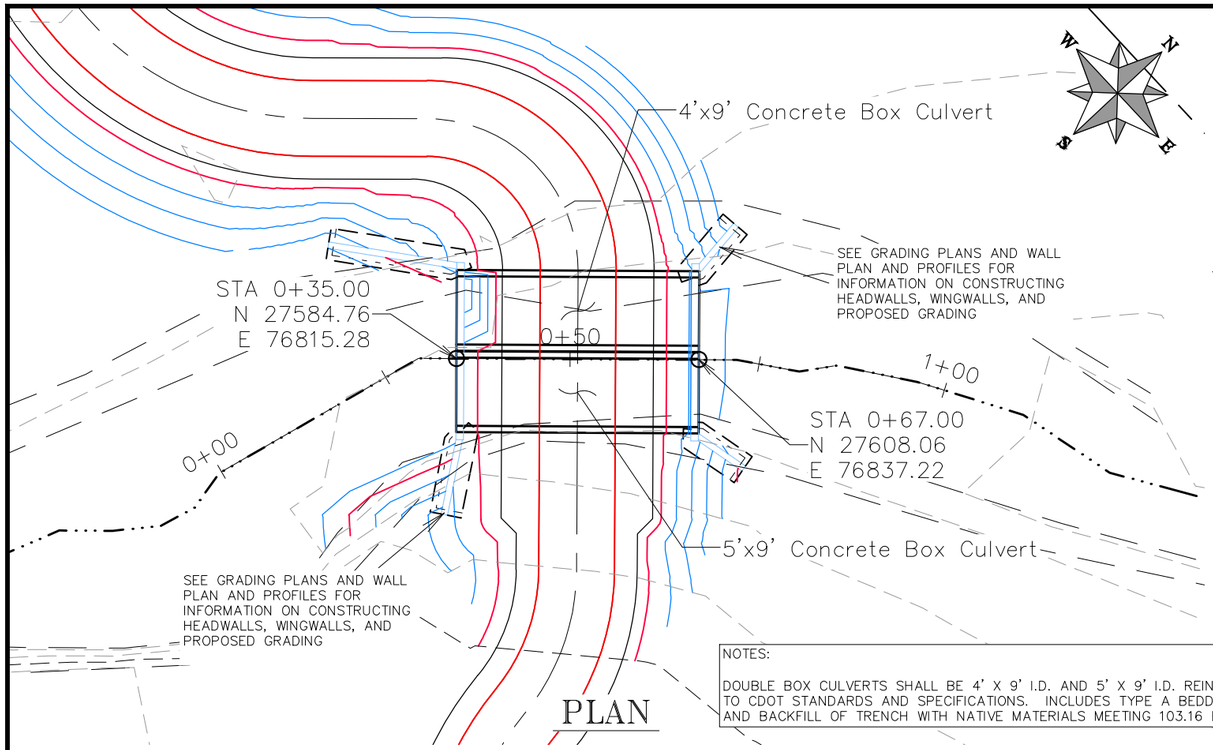
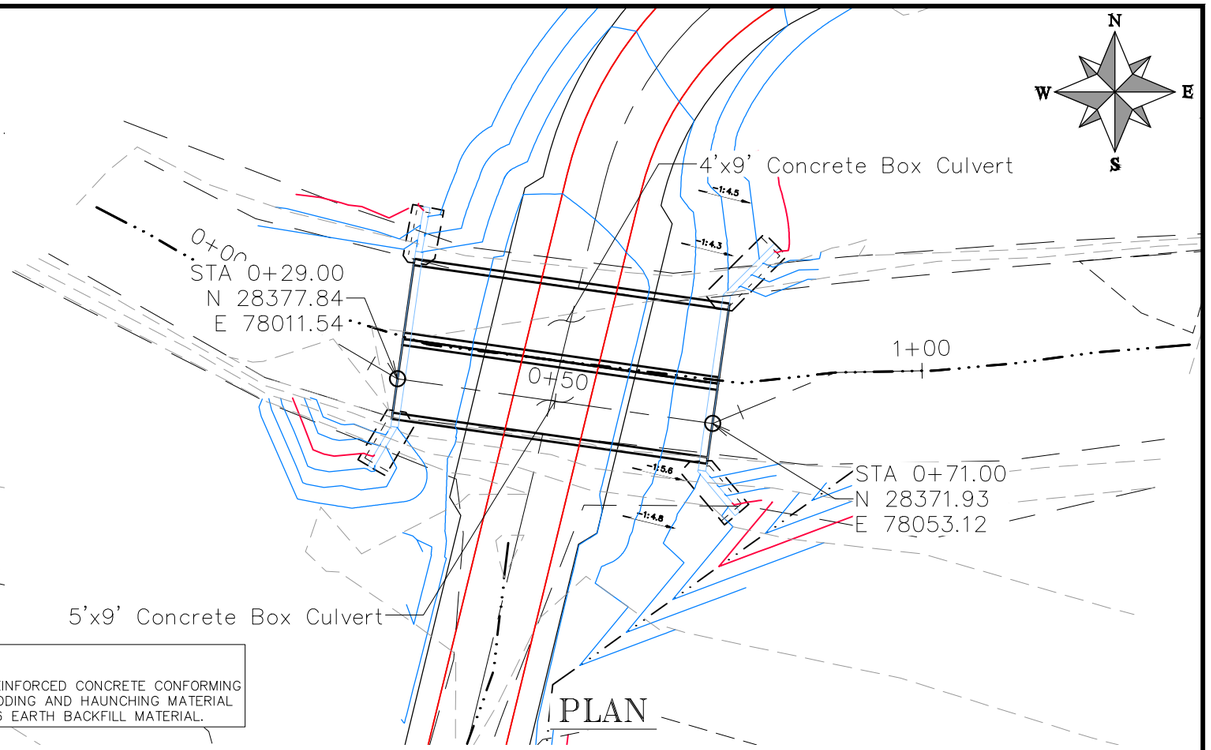
MONUMENT CONNECT TRAIL PHASE 2
SUMMARY OF EARTHWORK QUANTITIES
August 13, 2024



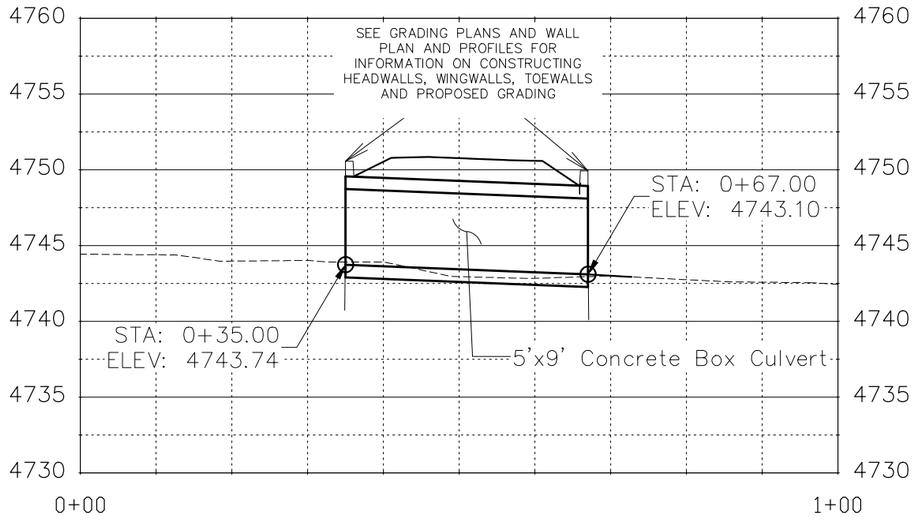
PLAN

NOTES:

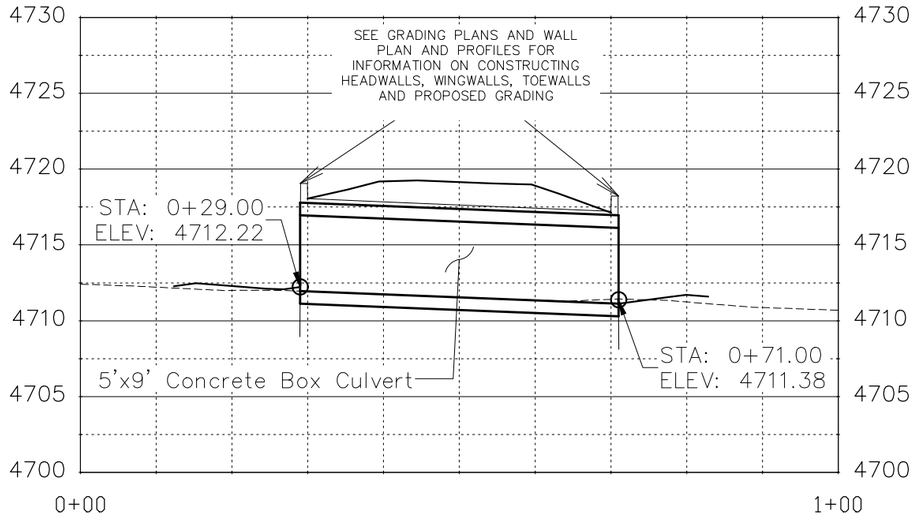
DOUBLE BOX CULVERTS SHALL BE 4' X 9' I.D. AND 5' X 9' I.D. REINFORCED CONCRETE CONFORMING TO CDOT STANDARDS AND SPECIFICATIONS. INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.



PLAN



PROFILE



PROFILE

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SCALES:
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VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
BOX CULVERT PLAN & PROFILE
August 13, 2024

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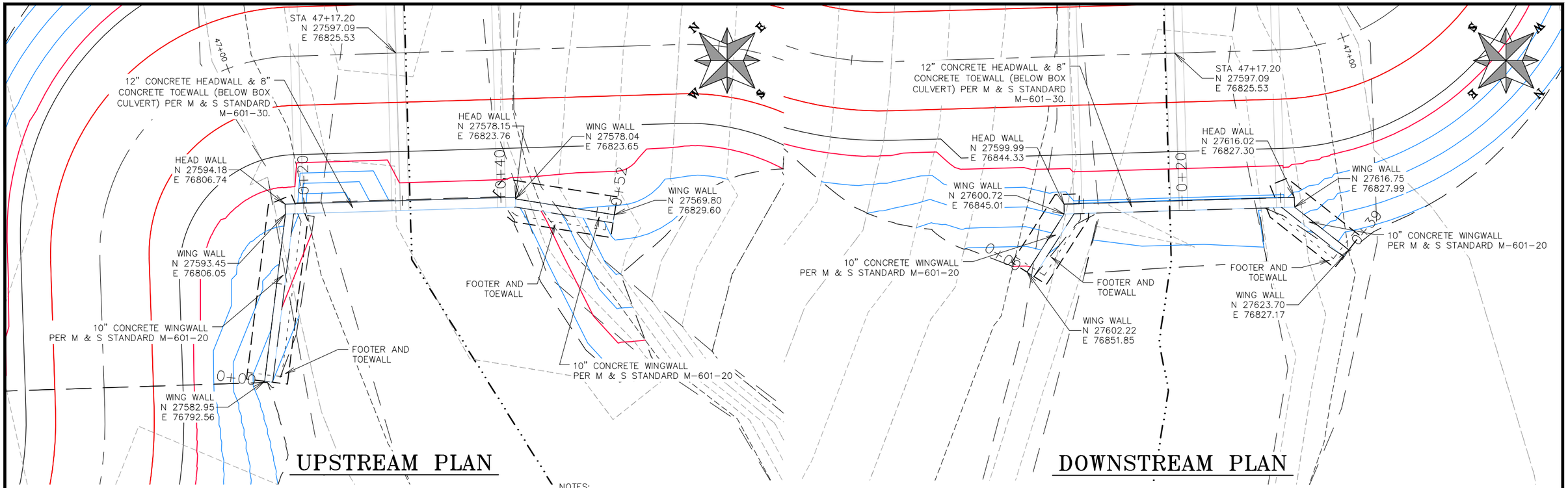

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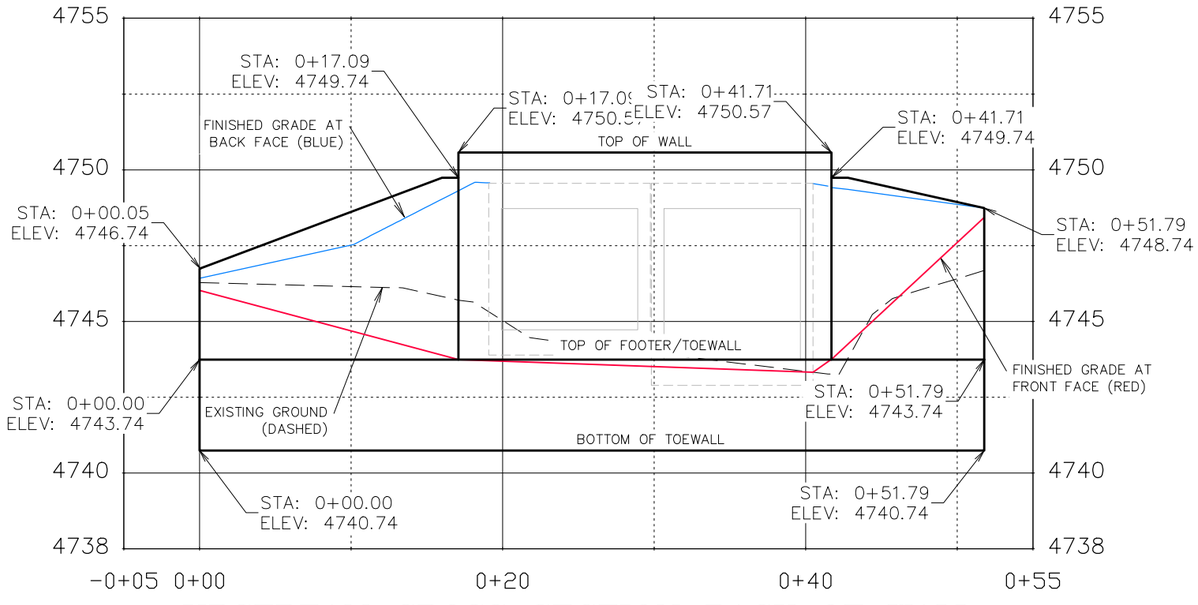
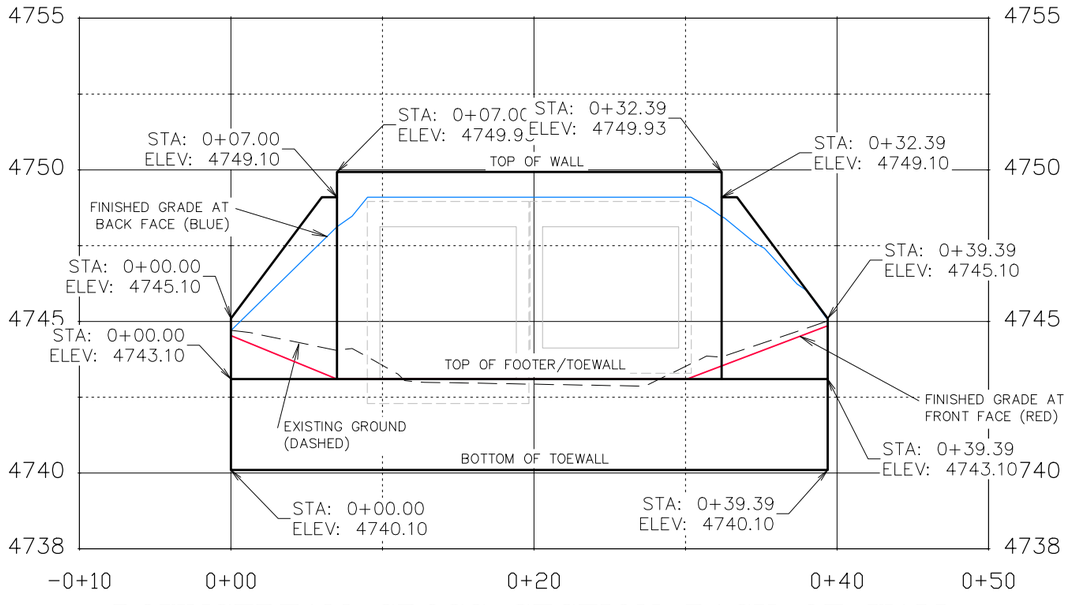
DOUBLE BOX CULVERTS SHALL BE 4' X 9' I.D. AND 5' X 9' I.D. REINFORCED CONCRETE CONFORMING TO CDOT STANDARDS AND SPECIFICATIONS. INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.



UPSTREAM CROSS SECTION BACK OF WALL



DOWNSTREAM CROSS SECTION BACK OF WALL

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VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
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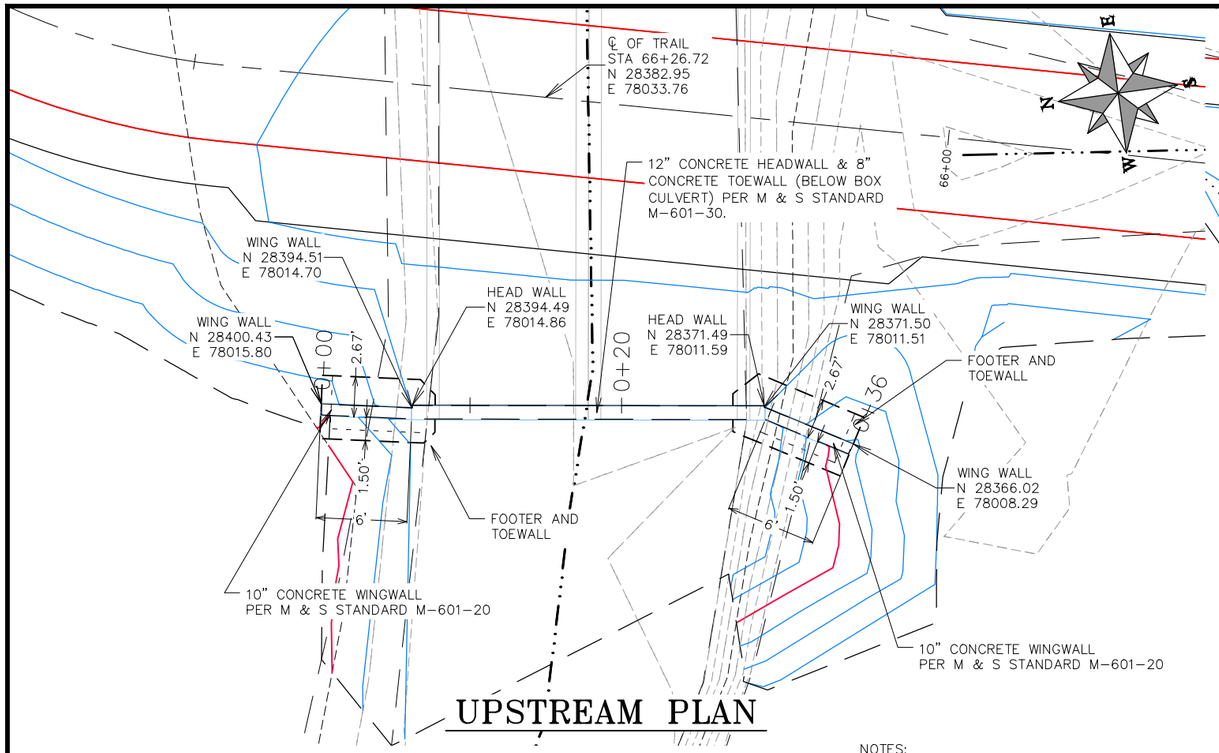
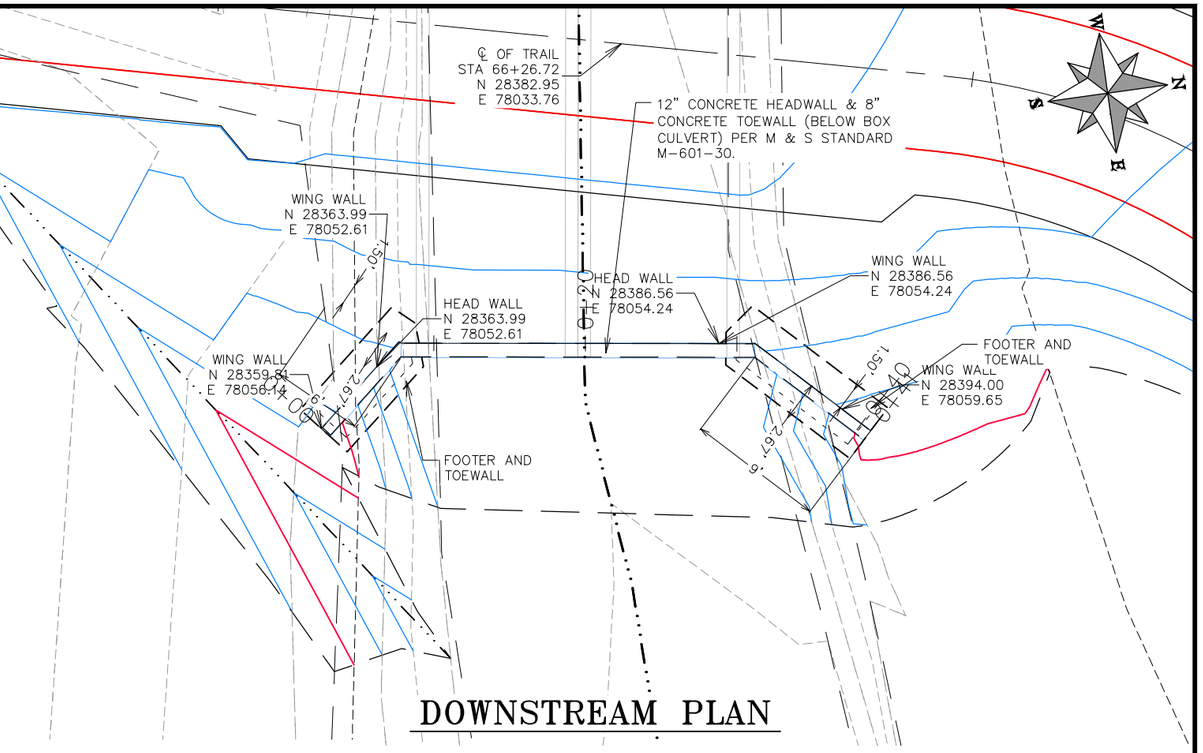
MONUMENT CONNECT TRAIL PHASE 2
WING WALL PLAN AND PROFILE
August 13, 2024

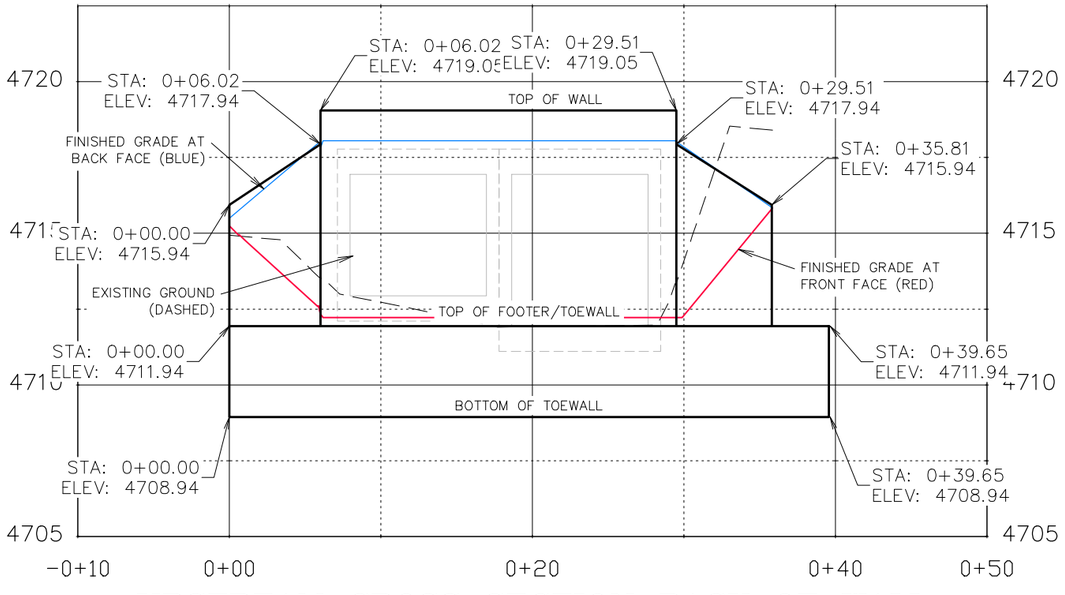
n:\EngPro\g2208 (monument connect phase ii)\60CAD\00DESIGN\Wall Plan and Profile.dwg — PLOTTED 8/13/2024 9:51:07 AM



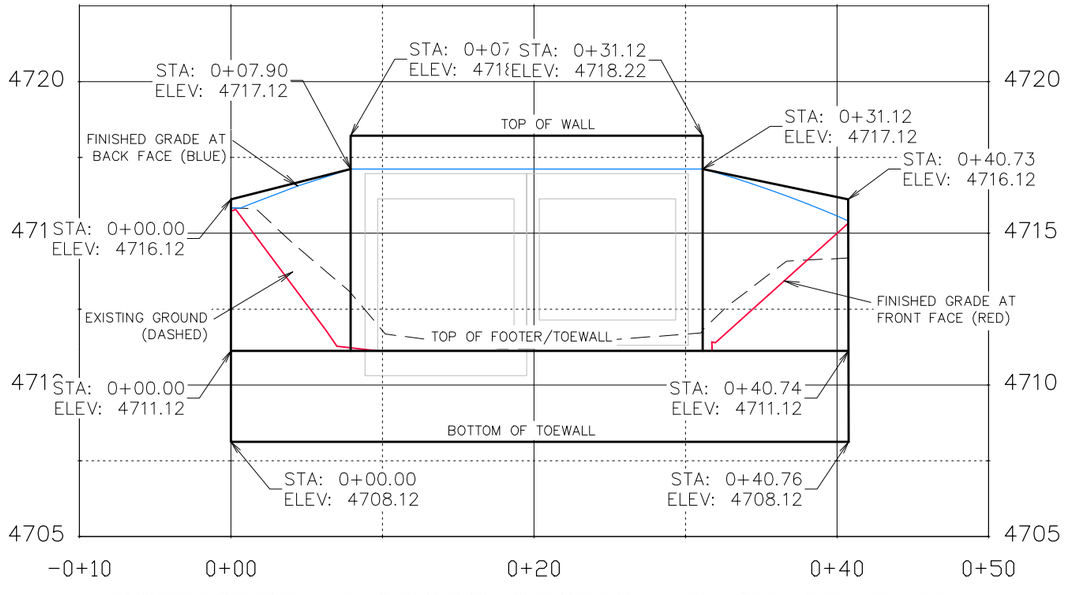


NOTES:

DOUBLE BOX CULVERTS SHALL BE 4' X 9' I.D. AND 5' X 9' I.D. REINFORCED CONCRETE CONFORMING TO CDOT STANDARDS AND SPECIFICATIONS. INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.



UPSTREAM CROSS SECTION BACK OF WALL



DOWNSTREAM CROSS SECTION BACK OF WALL

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 2.5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
WING WALL PLAN AND PROFILE
August 13, 2024

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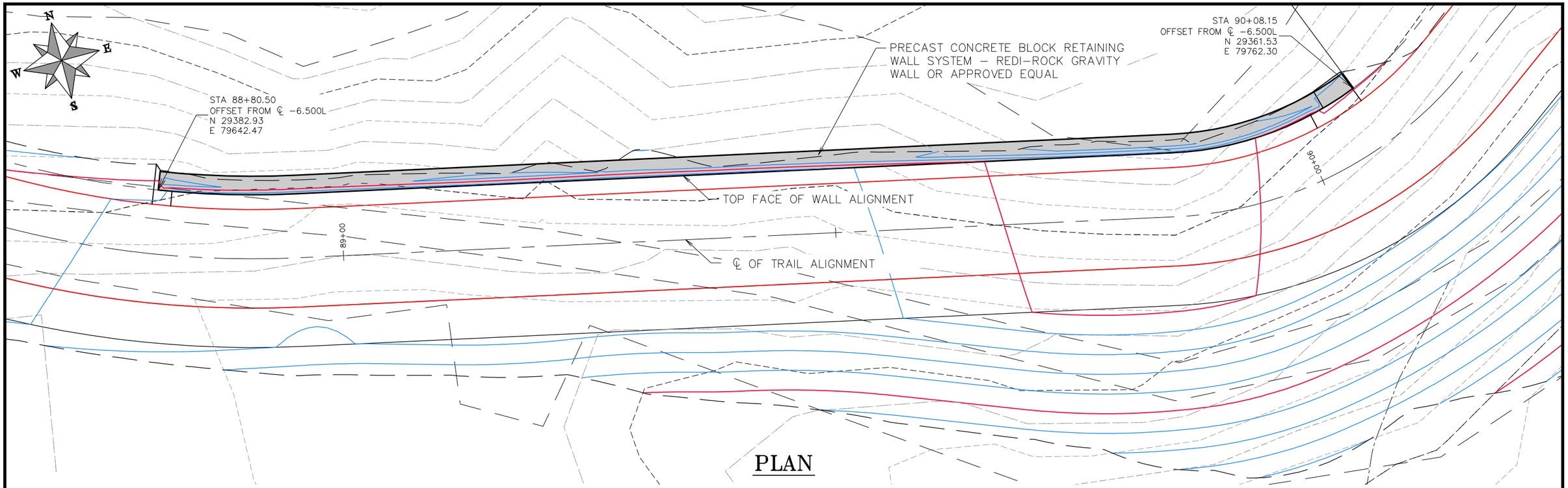
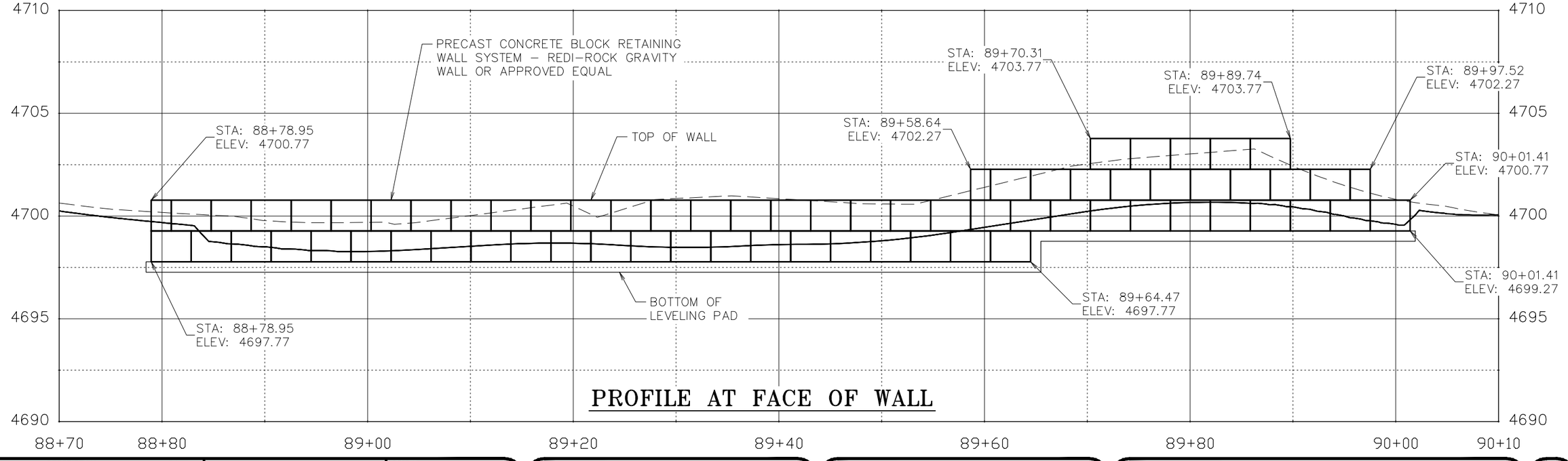


PLAN



PROFILE AT FACE OF WALL

DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
RETAINING WALL PLAN AND PROFILE
August 13, 2024

9

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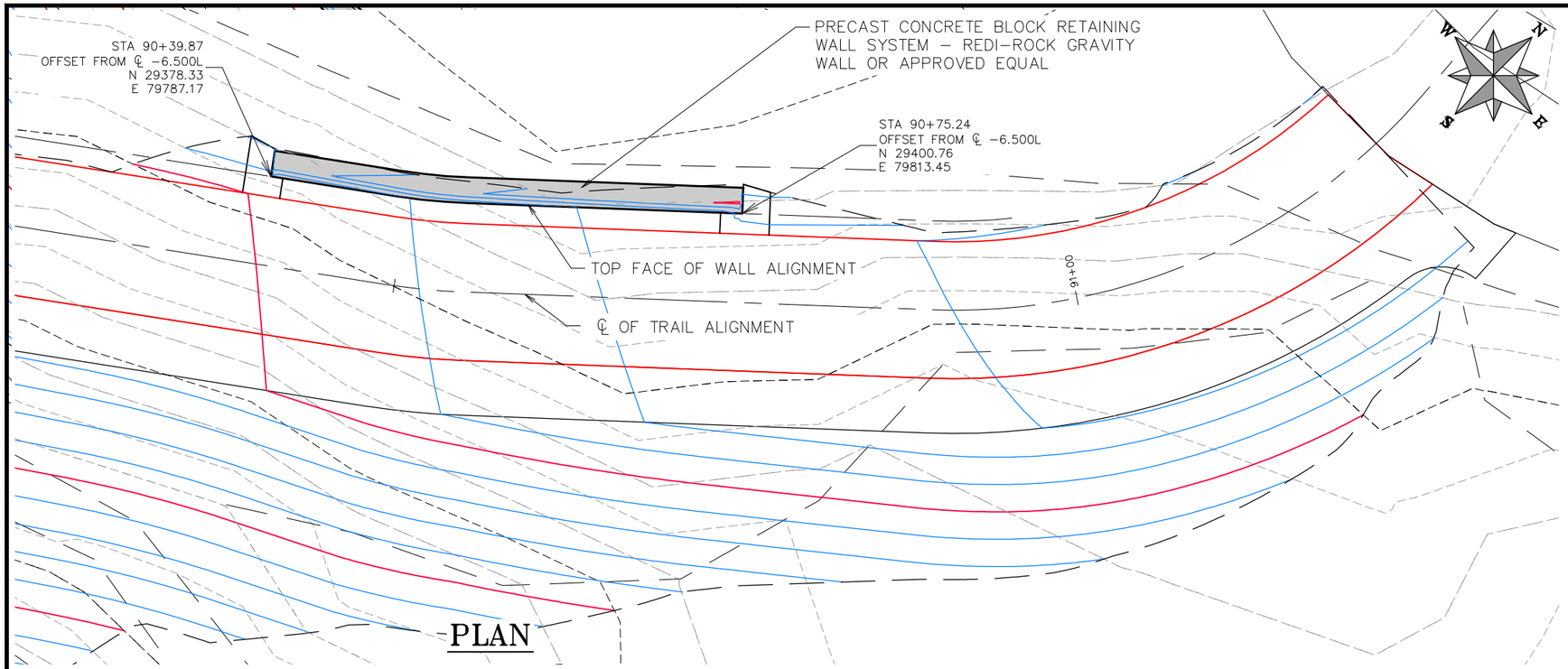
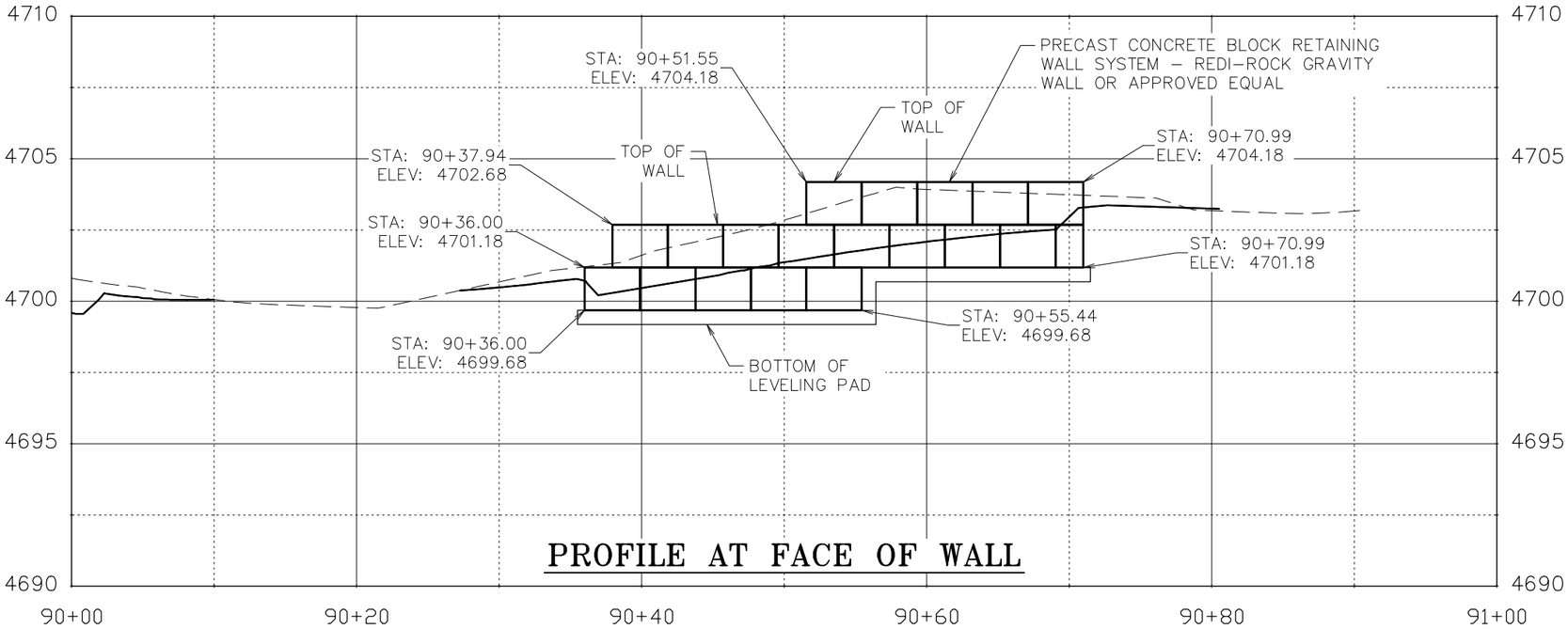
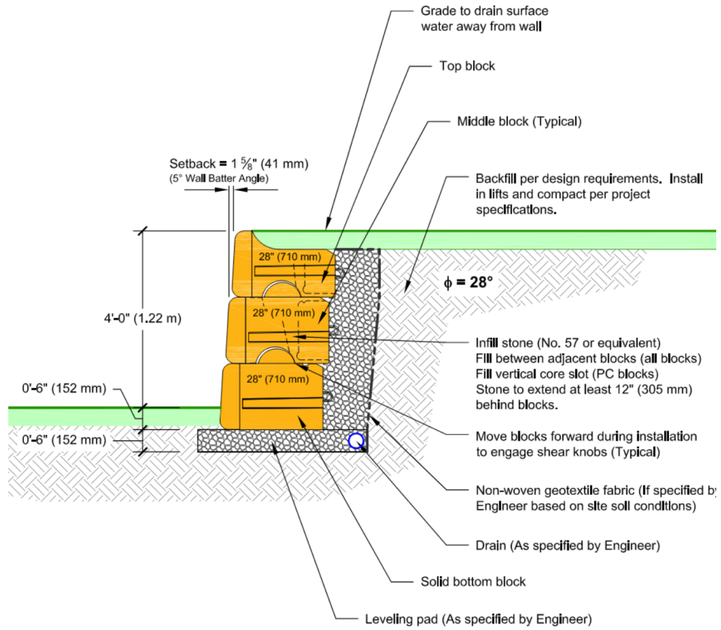


PLAN



PROFILE AT FACE OF WALL



DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
RETAINING WALL PLAN AND PROFILE
August 13, 2024

10

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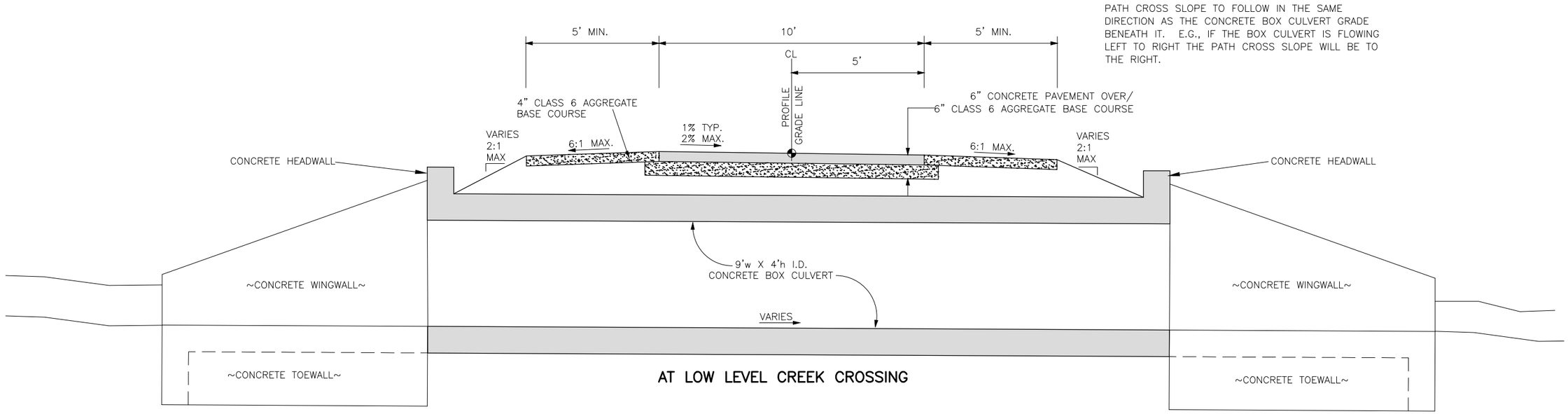
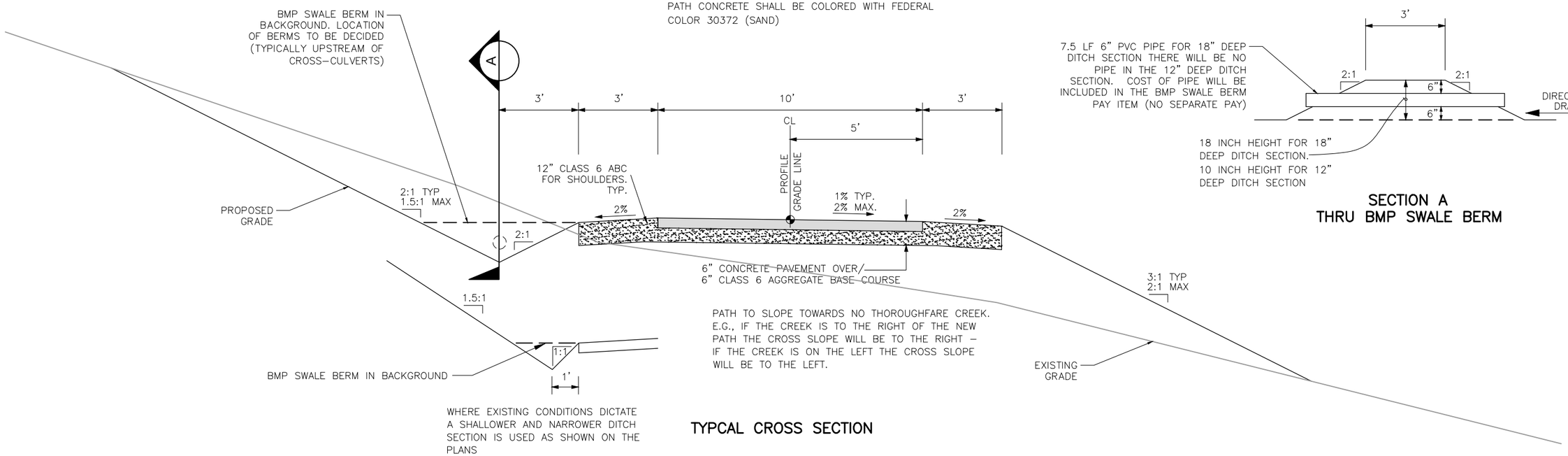


AT LOW LEVEL CREEK CROSSING

NOTE:
PATH CONCRETE SHALL BE COLORED WITH FEDERAL COLOR 30372 (SAND)



TYPCAL CROSS SECTION

SECTION A
THRU BMP SWALE BERM

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 4 8

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
PATH TYPICAL CROSS SECTIONS
August 13, 2024

FOUNDATION NOTES

1. CAISSON CONCRETE SHALL BE AIR ENTRAINED CLASS BZ IN ACCORDANCE WITH SECTION 503 OF THE STANDARD SPECIFICATIONS.
2. REINFORCING STEEL SHALL BE GRADE 60 IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.
3. ALL REINFORCING STEEL SHALL BE NON COATED.
4. CAISSONS SHALL BE PLACED AGAINST UNDISTURBED EARTH.

DESIGN DATA

CAISSON CONCRETE:
CLASS BZ CONCRETE: f'c = 4,000 psi
REINFORCING STEEL: fy = 60,000 psi

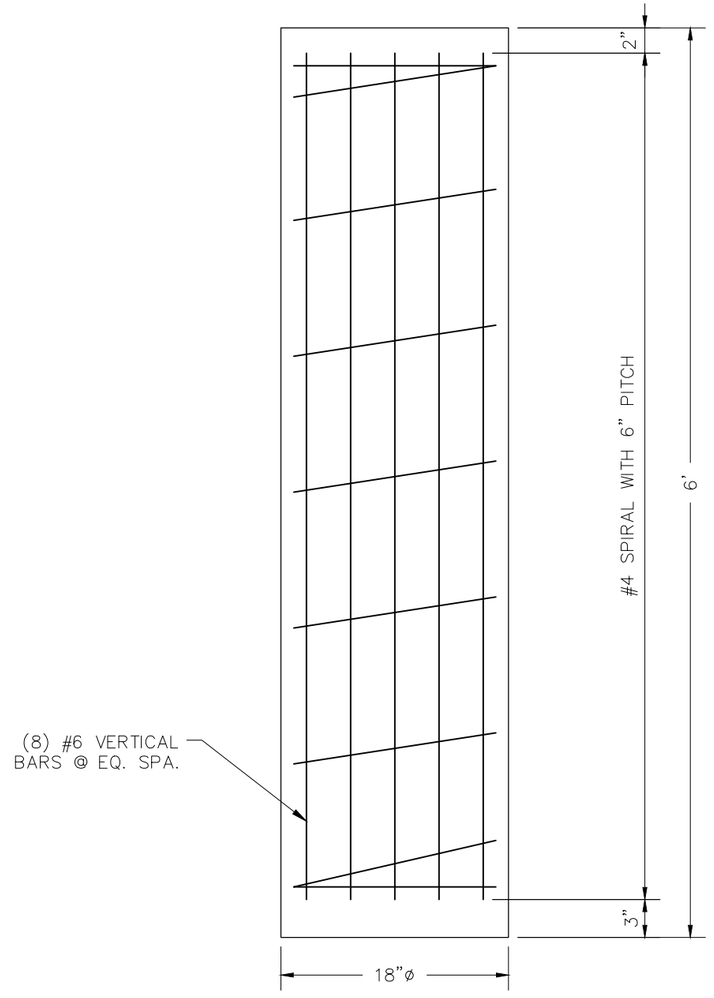
DESIGN WIND SPEED = 115 mph

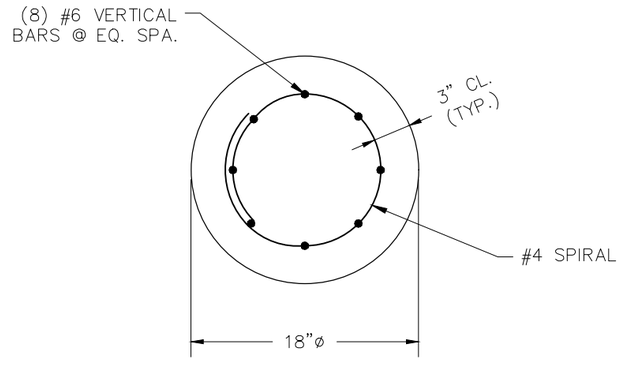
THE DESIGNS HEREIN ASSUME THAT THE FOUNDATIONS ARE INSTALLED WINTHIN THE NATIVE SOIL WITH THE FOLLOWING PARAMETERS:

MEDIUM DENSE COHESIONLESS SOIL:
SOIL DENSITY, γ = 110 pcf
SOIL COHESION = 750 psf
SF = 1.25 FOR FLEXURAL RESISTANCE

CONTACT THE ENGINEER IF ANY OF THE FOLLOWING SOIL CONDITIONS ARE ENCOUNTERED DURING DRILLING:

(A) THE SOIL HAS A HIGH ORGANIC CONTENT OR CONSISTS OF SATURATED SILT AND CLAY.
(B) THE SITE WON'T SUPPORT THE WEIGHT OF THE DRILLING RIG.
(C) THE FOUNDATION SOILS ARE NOT HOMOGENOUS.
(D) FIRM BEDROCK IS ENCOUNTERED.





DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

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

SCALES: NO SCALE

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
POST FOUNDATION DETAIL
August 13, 2024

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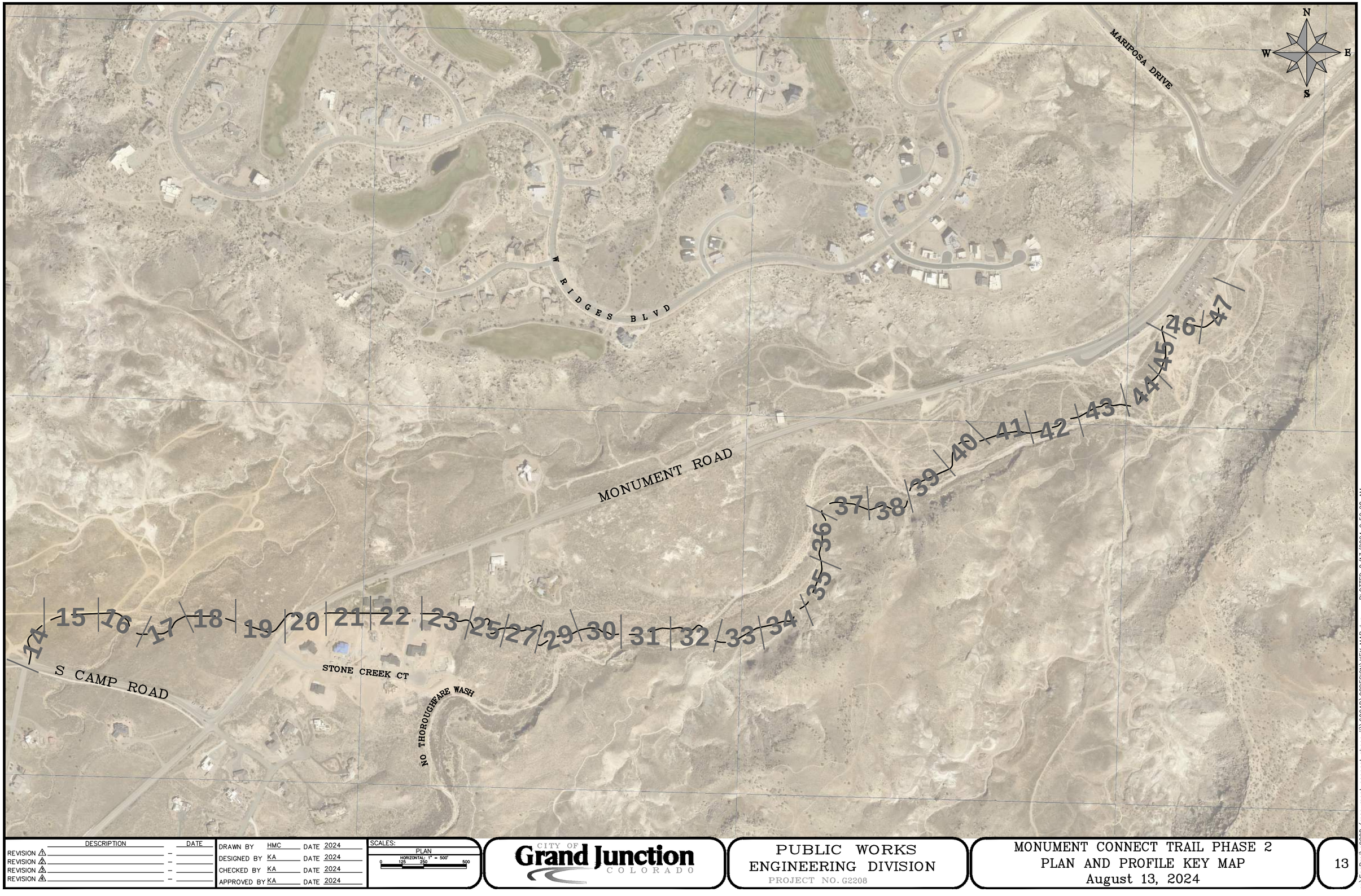

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN
HORIZONTAL: 1" = 500'
0 125 250 500

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
PLAN AND PROFILE KEY MAP
August 13, 2024

13

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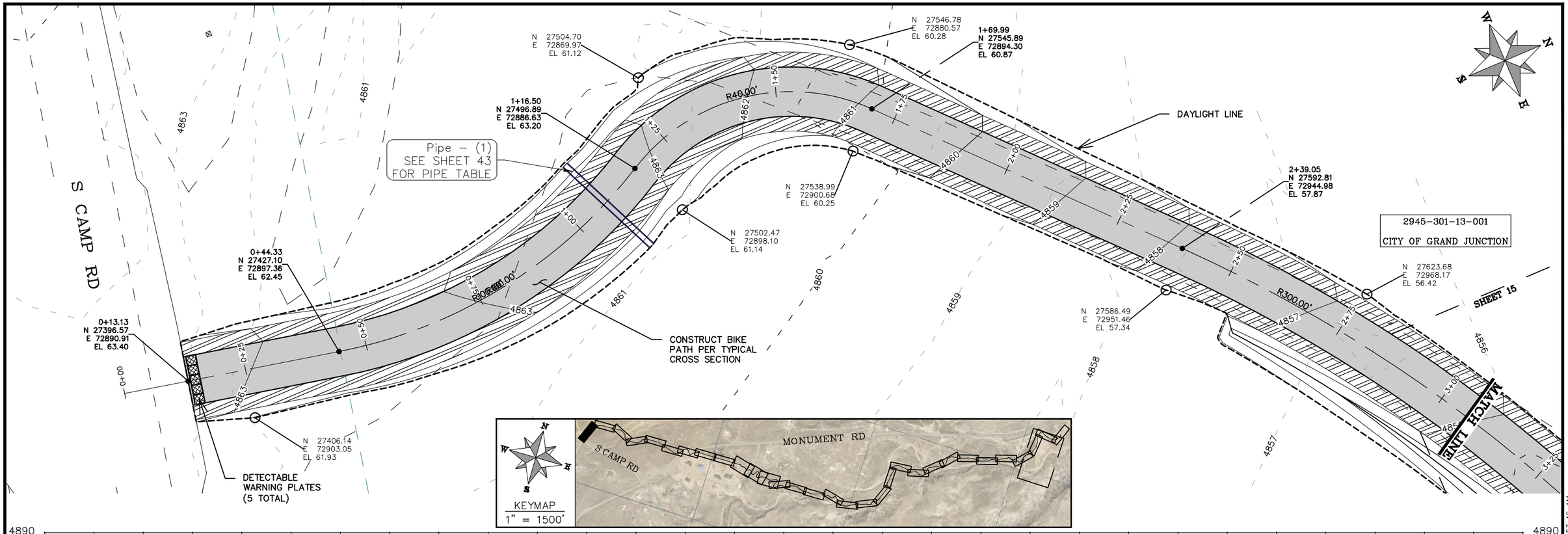

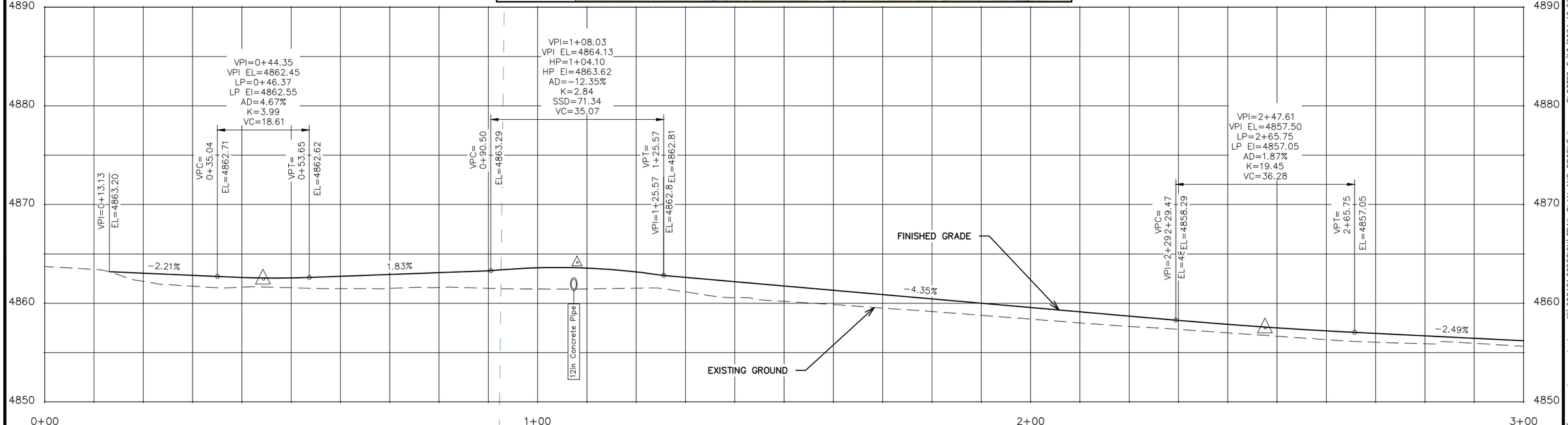

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP01 | 14

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2945-292-00-125
AZCARRAGA MARTIN

2945-301-13-001
CITY OF GRAND JUNCTION

4+50.87
N 27672.43
E 73136.53
EL 55.57

DAYLIGHT LINE

CONSTRUCT BIKE PATH PER TYPICAL CROSS SECTION

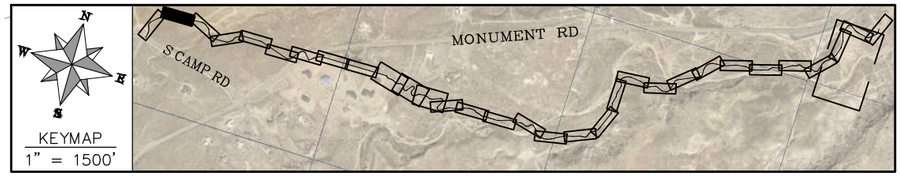
R300.00'

SHEET 14

SHEET 16

MATCH LINE

MATCH LINE



VPI=3+30.87
VPI EL=4855.43
LP=3+54.40
LP EL=4855.46
AD=2.60%
K=19.92
VC=51.79

VPC= 3+04.97
EL=4856.07

VPT= 3+56.76
EL=4855.46

VPI=4+94.58
VPI EL=4855.62
HP=4+76.64
HP EL=4855.60
AD=-2.03%
K=19.95
SSD=347.25
VC=40.55

VPC= 4+74.30
EL=4855.60

VPT= 5+14.85
EL=4855.23

VPI=5+78.45
EL=4853.91

FINISHED GRADE

EXISTING GROUND

0.12%

-2.08%

4880
4870
4860
4850
4840

3+00
4+00
5+00
6+00

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP02

15

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2945-292-00-125
AZCARRAGA MARTIN

CONSTRUCT BIKE PATH PER TYPICAL CROSS SECTION

6+93.32
N 27682.34
E 73378.78
EL 51.82

R70.00'

7+40.18
N 27669.02
E 73422.80
EL 49.23

7+84.33
N 27643.07
E 73458.51
EL 46.63

R30.00'

8+05.29
N 27626.04
E 73469.99
EL 45.39

Pipe - (2)
SEE SHEET 43
FOR PIPE TABLE

SHEET 15

SHEET 17

DAYLIGHT LINE

2945-301-13-001
CITY OF GRAND JUNCTION

8+26.85
N 27605.11
E 73475.19
EL 44.12

R50.00'

R50.00'

MATCH LINE

MATCH LINE

9+14.80
N 27557.54
E 73542.89
EL 43.39

8+68.72
N 27573.05
E 73500.18
EL 44.28

8+89.21
N 27563.41
E 73518.27
EL 44.69

KEYMAP
1" = 1500'

MONUMENT RD

SCAMP RD

VPI=6+97.92
VPI EL=4851.72
HP=6+90.25
HP EL=4851.87
AD=-3.98%
K=3.85
SSD=174.75
VC=15.33

VPC= 6+90.25
EL=4851.87

VPT= 7+05.58
EL=4851.27

EXISTING GROUND

FINISHED GRADE

-1.83%

-5.90%

2.23%

VPI=8+37.10
VPI EL=4843.52
LP=8+44.16
LP EL=4843.78
AD=8.08%
K=3.94
VC=31.85

VPC= 8+21.17
EL=4844.45

VPT= 8+53.03
EL=4843.88

VPI=8+89.09
VPI EL=4844.69
HP=8+83.58
HP EL=4844.47
AD=-7.26%
K=3.96
SSD=105.90
VC=28.76

VPC= 8+74.71
EL=4844.37

48in Concrete Pipe

4870 4860 4850 4840 4830

6+00 7+00 8+00 9+00

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP03

16

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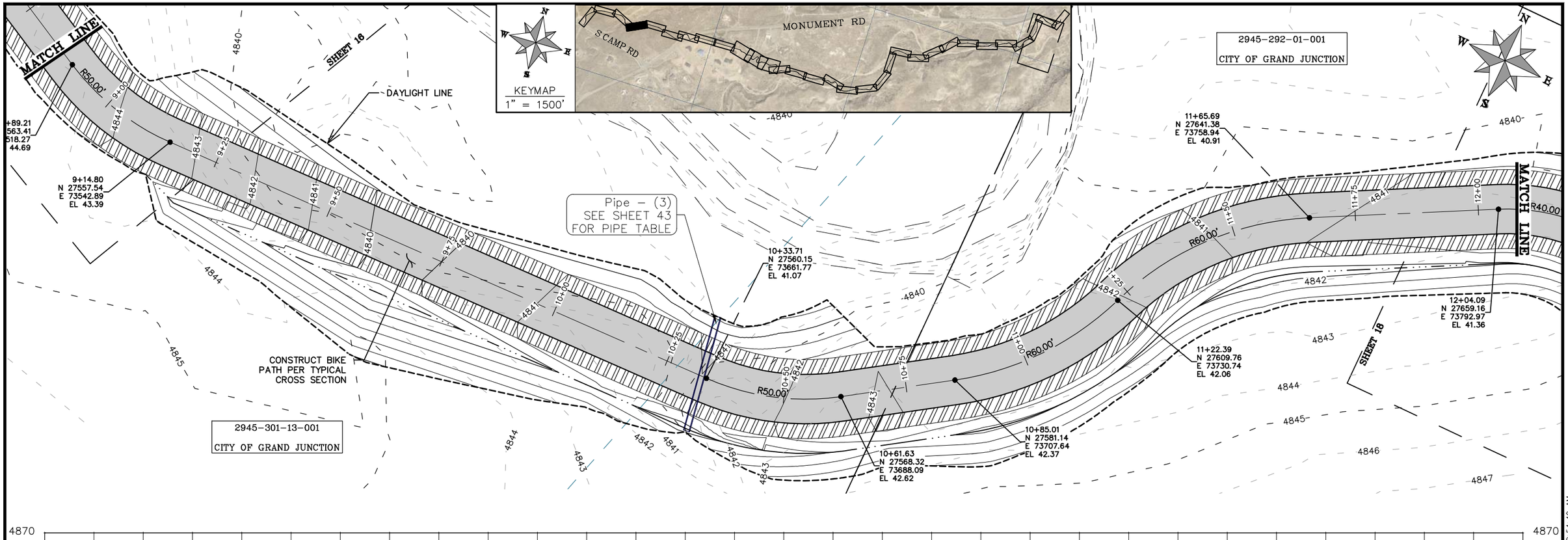

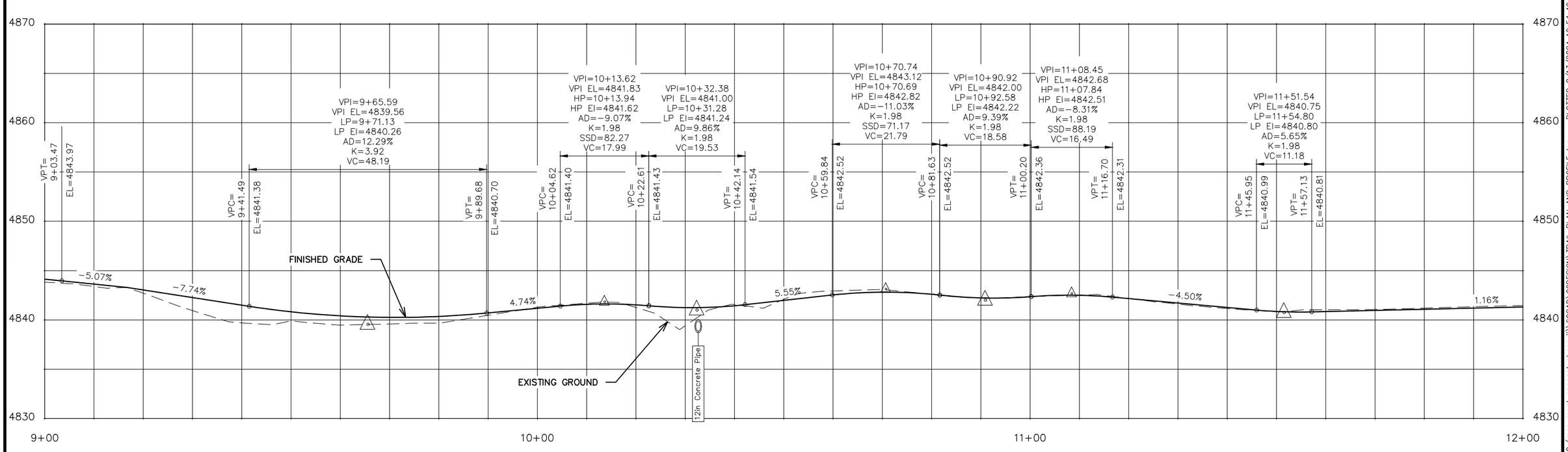

DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP04 | 17

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2945-292-00-125
AZCARRAGA MARTIN

CONSTRUCT BIKE PATH PER TYPICAL CROSS SECTION

SHEET 17

12+23.29
N 27663.71
E 73811.44
EL 41.58

13+94.50
N 27663.96
E 73982.65
EL 48.63

14+02.28
N 27663.37
E 73990.40
EL 48.80

14+10.07
N 27661.58
E 73997.97
EL 48.96

R40.00'

R50.00'

MATCH LINE

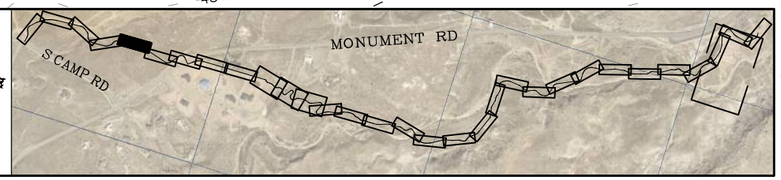
12+04.09
N 27659.16
E 73792.97
EL 41.36

2945-292-01-001
CITY OF GRAND JUNCTION

SHEET 19

WALTH LINE

KEYMAP
1" = 1500'



VPI=12+45.30
VPI EL=4841.81
LP=12+28.25
LP EI=4841.64
AD=9.26%
K=3.68
VC=34.09

VPC= 12+28.25
EL=4841.64

VPT= 12+62.35
EL=4843.56

VPI=12+81.96
VPI EL=4845.57
HP=13+00.54
HP EI=4845.52
AD=-10.51%
K=3.73
SSD=82.87
VC=39.23

VPC= 13+01.58
EL=4845.52

VPI=13+25.16
VPI EL=4845.48
LP=13+02.93
LP EI=4845.52
AD=4.79%
K=9.86
VC=47.17

VPT= 13+48.75
EL=4846.58

VPC= 13+84.21
EL=4848.24

VPI=14+37.69
VPI EL=4850.81
HP=14+30.29
HP EI=4849.34
AD=-11.15%
K=9.59
SSD=113.09
VC=106.95

VPI=15+01.71
VPI EL=4846.75
LP=15+12.26
LP EI=4846.33
AD=2.25%
K=9.39
VC=21.10

VPC= 14+91.16
EL=4847.41

4.67%

4870
4860
4850
4840
4830

12+00
13+00
14+00
15+00

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP05 | 18

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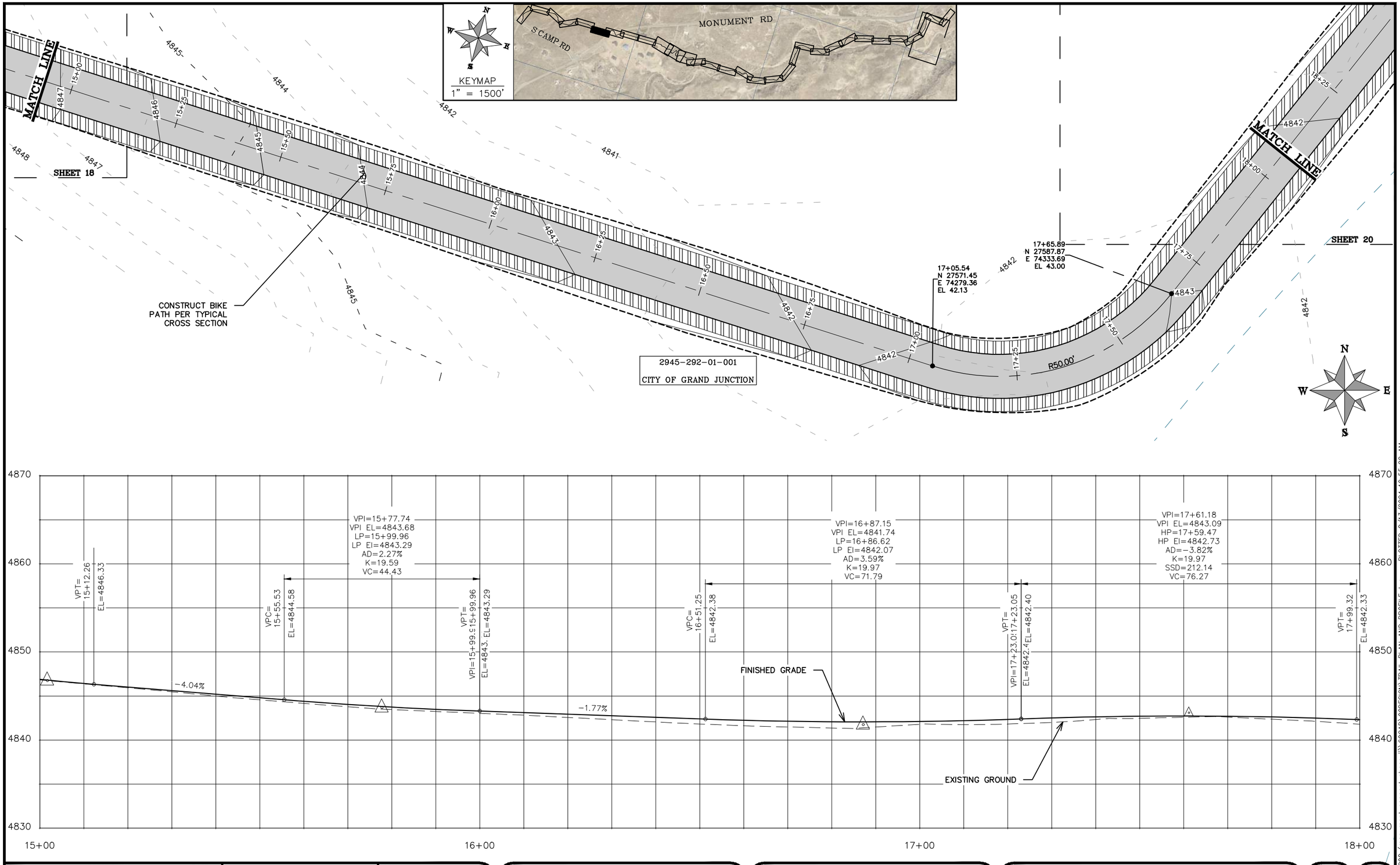

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP06

19

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Pipe – (4)
SEE SHEET 43
FOR PIPE TABLE

2945-292-01-001
CITY OF GRAND JUNCTION

18+65.30
N 27665.55
E 74395.72
EL 41.01

CONSTRUCT BIKE
PATH PER TYPICAL
CROSS SECTION

SHEET 19

MATCH LINE

R40.00'

19+36.61
N 27665.90
E 74457.95
EL 39.36

DETECTABLE
WARNING PLATES
(5 TOTAL)

MFCP 1.5ALC PLS 24320/
N 27693.1870
E 74470.60
EL 4838.74

MONUMENT RD

Pipe – (5)
SEE SHEET 43
FOR PIPE TABLE

DETECTABLE
WARNING PLATES
(5 TOTAL)

21+10.81
N 27672.70
E 74588.39
EL 34.43

MATCH LINE

R165.00'

MFCP /2ALC PLS 38428/
N 27655.0950
E 74579.96
EL 4835.54

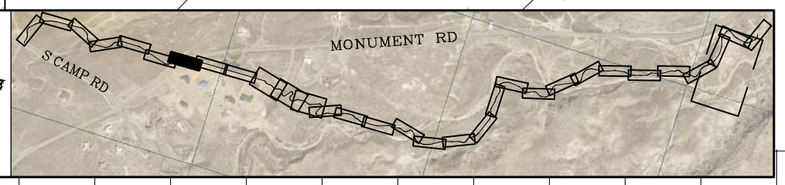
SHEET 21

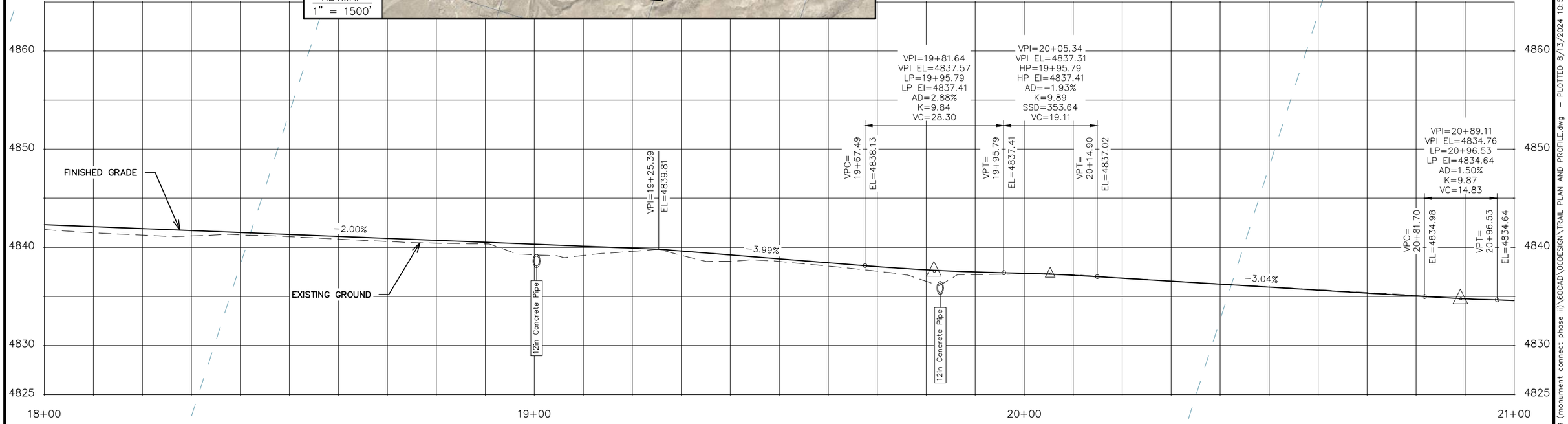
20+53.39
N 27644.57
E 74538.67
EL 35.84

20+04.38
N 27613.42
E 74500.83
EL 37.34

2945-292-07-001
2310 STONE CREEK CT
MCLEROY ZACHARY KEITH

KEYMAP
1" = 1500'





DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP07 | 20

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MFCP /2ALC LS 24306 54.35 WC/
N 27692.5850
E 74592.14
EL 4835.66

2945-292-00-127
CITY OF GRAND JUNCTION

2945-292-00-045
2320 MONUMENT RD
ORACLE GALE LLC

MFCP /2ALC PLS 38428/
N 27692.3910
E 74623.97
EL 4833.32

21+68.23
N 27682.18
E 74644.73
EL 31.37

CONSTRUCT BIKE PATH PER TYPICAL CROSS SECTION

SHEET 20

SHEET 22

21+10.81
N 27672.70
E 74588.39
EL 34.43

R165.00'

MATCH LINE

MATCH LINE

MFCP /2ALC PLS 38428/
N 27672.2000
E 74642.81
EL 4830.67

MFCP /2ALC PLS 38428/
N 27655.0950
E 74579.96
EL 4835.54

MFCP /1.5 YPC PLS 38428
N 27671.6130
E 74712.73
EL 4827.28

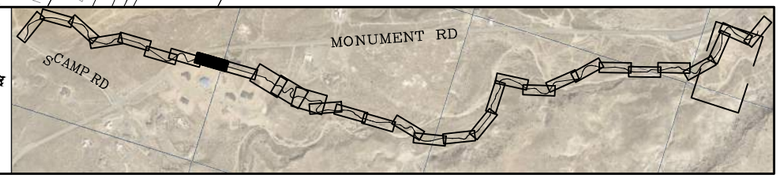
2945-292-07-002
2312 STONE CREEK CT
INGERSOLL ERIC

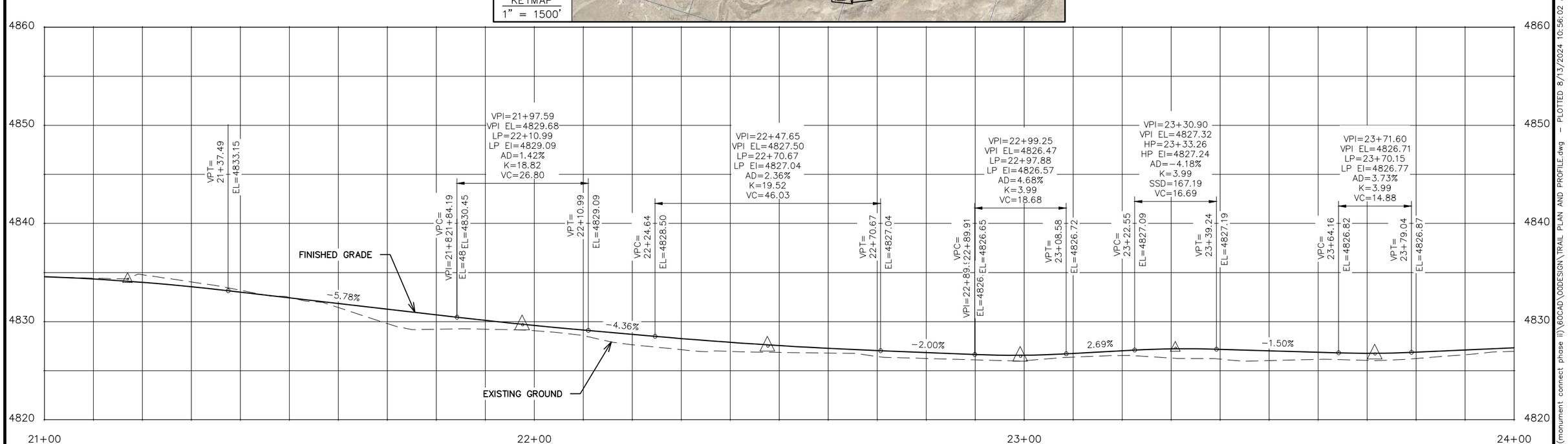
MFCP /1.5 YPC PLS 38428
N 27670.8800
E 74824.55
EL 4826.50

2945-292-07-001
2310 STONE CREEK CT
MCLEROY ZACHARY KEITH

2945-292-07-003
2314 STONE CREEK CT
JOHNSON JOSHUA

KEYMAP
1" = 1500'





DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP08

21

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SHEET 21

2945-292-00-045
2320 MONUMENT RD
ORACLE GALE LLC

CONSTRUCT BIKE PATH PER TYPICAL CROSS SECTION

MFCP /3.25 ALC LS 12901/
N 27689.4030
E 75019.33
EL 4826.69

2945-292-00-112
2332 MONUMENT RD
HUNDTOFT THOMAS J

SHEET 23

MATCH LINE

MATCH LINE

24+00 24+25 24+50 24+75 25+00 25+25 25+50 25+75 26+00 26+25 26+50 26+75 27+00

4825 4826 4825

MFCP /1.5 YPC PLS 38428
N 27669.7130
E 74979.18
EL 4827.34

MFCP /2ALC PLS 38248/
N 27669.4330
E 75019.15
EL 4826.99

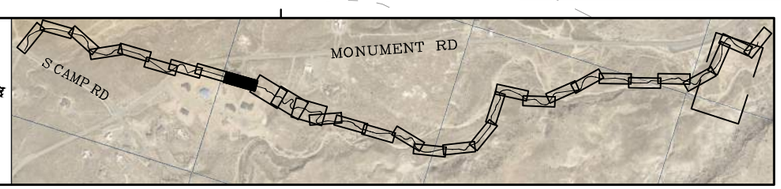
MFCP /YPC PLS 38248/
N 27668.5890
E 75124.02
EL 4825.95

2945-292-07-003
2314 STONE CREEK CT
JOHNSON JOSHUA

2945-292-07-004
2316 STONE CREEK CT
TRUST AGREEMENT RICHARD N MIZE

2945-292-07-005
2318 STONE CREEK CT
GERMAN KENDAL P

KEYMAP
1" = 1500'



VPI=24+34.60
VPI EL=4828.11
HP=24+35.27
HP EL=4828.03
AD=-4.12%
K=3.99
SSD=169.49
VC=16.46

VPC= 24+26.37
EL=4827.93

VPT= 24+42.83
EL=4827.96

VPI=25+38.58
VPI EL=4825.44
LP=25+34.69
LP EL=4825.81
AD=6.23%
K=7.97
VC=49.64

VPC= 25+13.76
EL=4826.09

VPT= 25+63.40
EL=4826.33

VPI=25+86.86
VPI EL=4827.18
HP=25+92.10
HP EL=4826.85
AD=-5.89%
K=7.96
SSD=136.23
VC=46.93

VPT= 26+10.33
EL=4826.64

VPI=26+45.29
VPI EL=4825.84
LP=26+56.55
LP EL=4825.71
AD=1.14%
K=19.86
VC=22.54

VPC= 26+34.02
EL=4826.10

VPT= 26+56.55
EL=4825.71

VPI=26+74.96
VPI EL=4825.50
HP=26+67.97
HP EL=4825.58
AD=-3.57%
K=3.91
SSD=192.98
VC=13.99

VPC= 26+67.97
EL=4825.58

VPT= 26+81.95
EL=4825.17

VPI=27+07.75
VPI EL=4823.95
LP=27+23.31
LP EL=4823.46
AD=1.61%
K=19.28
VC=31.11

VPC= 26+92.20
EL=4824.68

FINISHED GRADE

EXISTING GROUND

2.23% -2.63% -2.29% -1.15% -4.73%

4850 4840 4830 4820 4815

24+00 25+00 26+00 27+00

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP09 22

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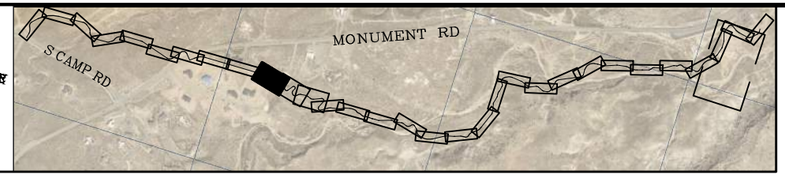
KEYMAP
1" = 1500'



SHEET 25

2945-292-00-112
2332 MONUMENT RD
HUNDTOFT THOMAS J

CONSTRUCT BIKE PATH PER TYPICAL CROSS SECTION

SHEET 22

MATCH LINE

27+99.91
N 27677.64
E 75276.39
EL 21.90

28+10.00
N 27675.08
E 75286.04
EL 21.06

28+20.09
N 27668.17
E 75293.25
EL 20.22

28+59.81
N 27658.16
E 75329.64
EL 17.45

28+85.39
N 27653.43
E 75354.68
EL 15.85

29+55.49
N 27635.47
E 75419.75
EL 10.84

29+68.03
N 27639.28
E 75431.69
EL 10.03

29+94.10
N 27637.67
E 75457.12
EL 8.08

R20.00'
R82.65'
R50.00'
R35.00'

28+29.97
N 27661.37
E 75300.28
EL 19.40

MFCP /2ALC PLS 38248/
N 27667.3840
E 75268.51
EL 4822.62

28+39.86
N 27658.71
E 75309.70
EL 19.11

29+10.97
N 27641.30
E 75377.08
EL 13.77

29+33.23
N 27633.56
E 75397.76
EL 12.40

Pipe - (6)
SEE SHEET 43
FOR PIPE TABLE

2945-292-07-005
2318 STONE CREEK CT
GERMAN KENDAL P

2945-292-06-002
2312 MONUMENT RD
CITY OF GRAND JUNCTION

2945-292-07-006
2320 STONE CREEK CT
ZAMAN SHAHREAR

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN
HORIZONTAL: 1" = 20'
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP10A

23

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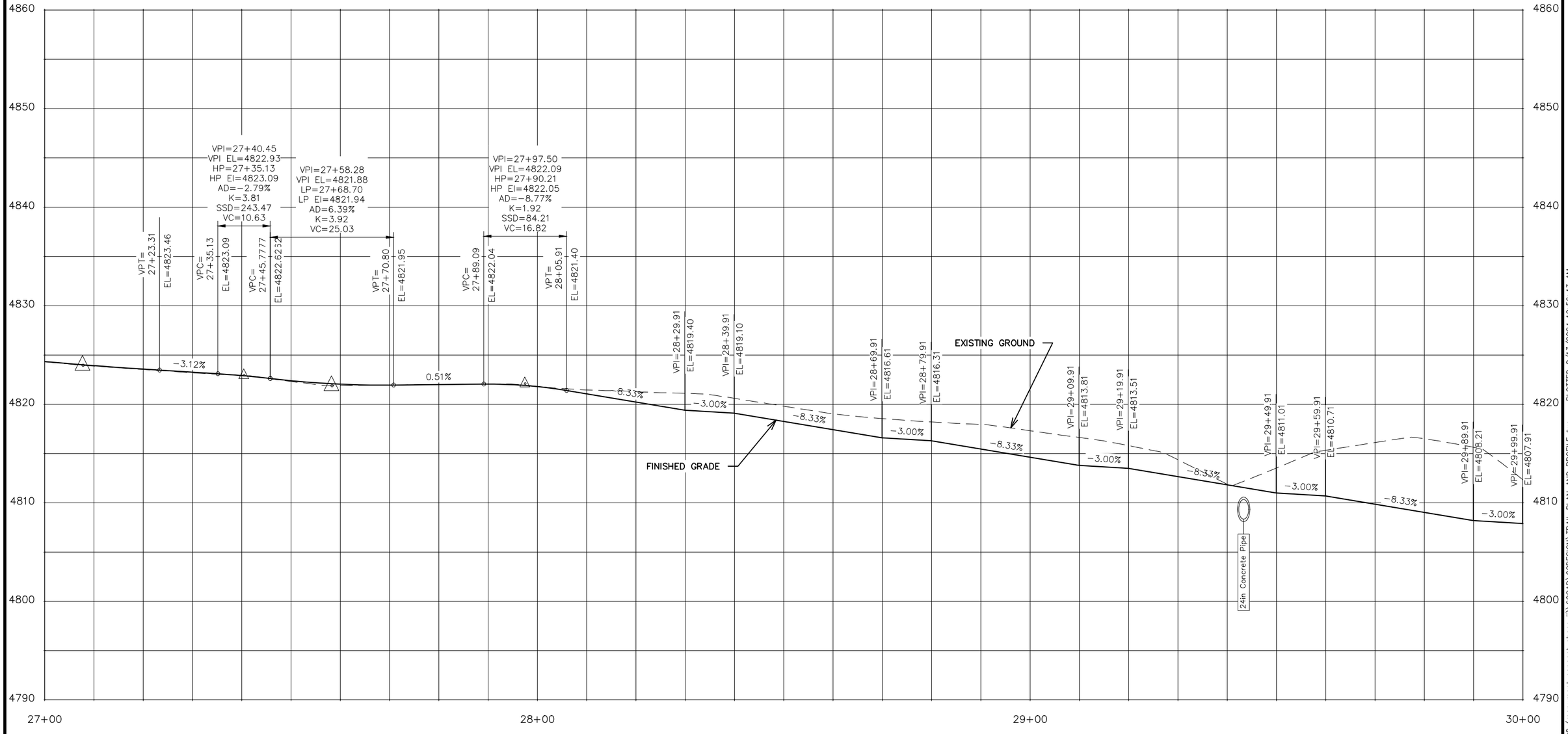

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP10B

24

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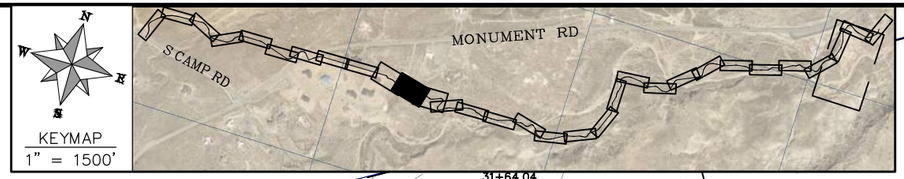

SHEET 23

2945-292-00-112
2332 MONUMENT RD
HUNDTOFT THOMAS J

2945-292-06-002
2312 MONUMENT RD
CITY OF GRAND JUNCTION

29+94.10
N 27637.67
E 75457.12
EL 8.08

29+68.03
N 27639.28
E 75431.69
EL 10.03

29+55.49
N 27635.47
E 75419.75
EL 10.84

CONSTRUCT BIKE PATH PER TYPICAL CROSS SECTION

30+20.18
N 27619.25
E 75474.72
EL 6.22

31+64.04
N 27646.10
E 75573.80
EL 96.37

31+41.80
N 27642.91
E 75553.80
EL 97.69

31+86.28
N 27626.46
E 75578.74
EL 94.52

33+91.47
N 27594.67
E 75703.81
EL 81.01

33+41.87
N 27592.05
E 75654.28
EL 83.69

33+20.51
N 27586.46
E 75633.83
EL 85.47

32+09.95
N 27605.63
E 75567.50
EL 93.08

MATCH LINE

MATCH LINE

R35.00'

R15.00'

R50.00'

R20.00'

R30.00'

R50.00'

Pipe – (6)
SEE SHEET 43
FOR PIPE TABLE

Pipe – (7)
SEE SHEET 43
FOR PIPE TABLE

29+33.23
N 27633.56
E 75397.76
EL 12.40

30+40.19
N 27600.75
E 75482.33
EL 5.09

30+60.99
N 27588.55
E 75498.02
EL 3.35

30+81.80
N 27595.92
E 75516.49
EL 2.15

32+99.15
N 27572.90
E 75617.54
EL 86.71

32+54.55
N 27566.27
E 75577.48
EL 89.89

MFCP /2ALC PLS 38428/
N 27510.9460
E 75606.92
EL 4782.91

2945-292-07-006
2320 STONE CREEK CT
ZAMAN SHAHREAR

SHEET 27

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN
HORIZONTAL: 1" = 20'
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP11A

25

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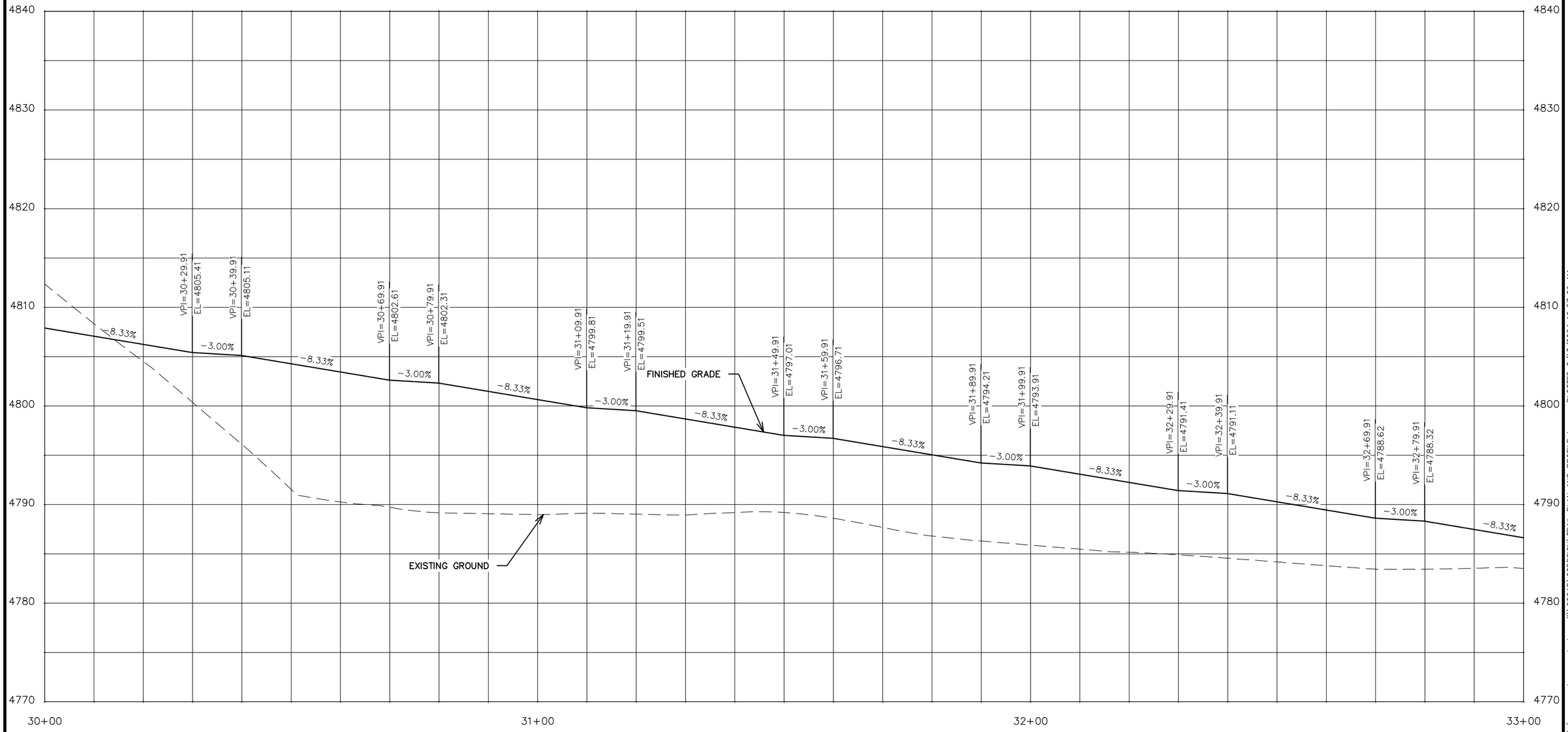

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP11B

26

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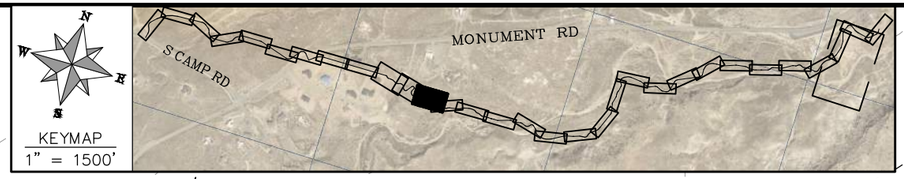

N
W E
S

CONSTRUCT BIKE PATH PER TYPICAL CROSS SECTION

SHEET 25

SHEET 29

33+41.87
N 27592.05
E 75654.28
EL 83.69

33+91.47
N 27594.67
E 75703.81
EL 81.01

34+13.26
N 27591.11
E 75725.13
EL 80.14

34+39.51
N 27581.29
E 75749.48
EL 79.01

34+77.08
N 27581.00
E 75786.17
EL 77.56

34+58.30
N 27577.65
E 75767.80
EL 78.16

34+02.36
N 27594.06
E 75714.67
EL 80.58

33+20.51
N 27586.46
E 75633.83
EL 85.47

32+99.15
N 27572.90
E 75617.54
EL 86.71

35+55.95
N 27609.35
E 75859.76
EL 76.11

35+79.78
N 27604.28
E 75881.63
EL 74.98

36+03.60
N 27582.10
E 75885.01
EL 73.86

36+70.83
N 27521.40
E 75856.13
EL 68.72

36+96.88
N 27497.67
E 75861.12
EL 68.30

37+22.92
N 27496.18
E 75885.32
EL 67.87

R50.00'
R20.00'

MATCH LINE
MATCH LINE

Pipe – (7)
SEE SHEET 43
FOR PIPE TABLE

MFCP /2ALC PLS 38428/
N 27510.9460
E 75606.92
EL 4782.91

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN
HORIZONTAL 1" = 20'
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP12A

27

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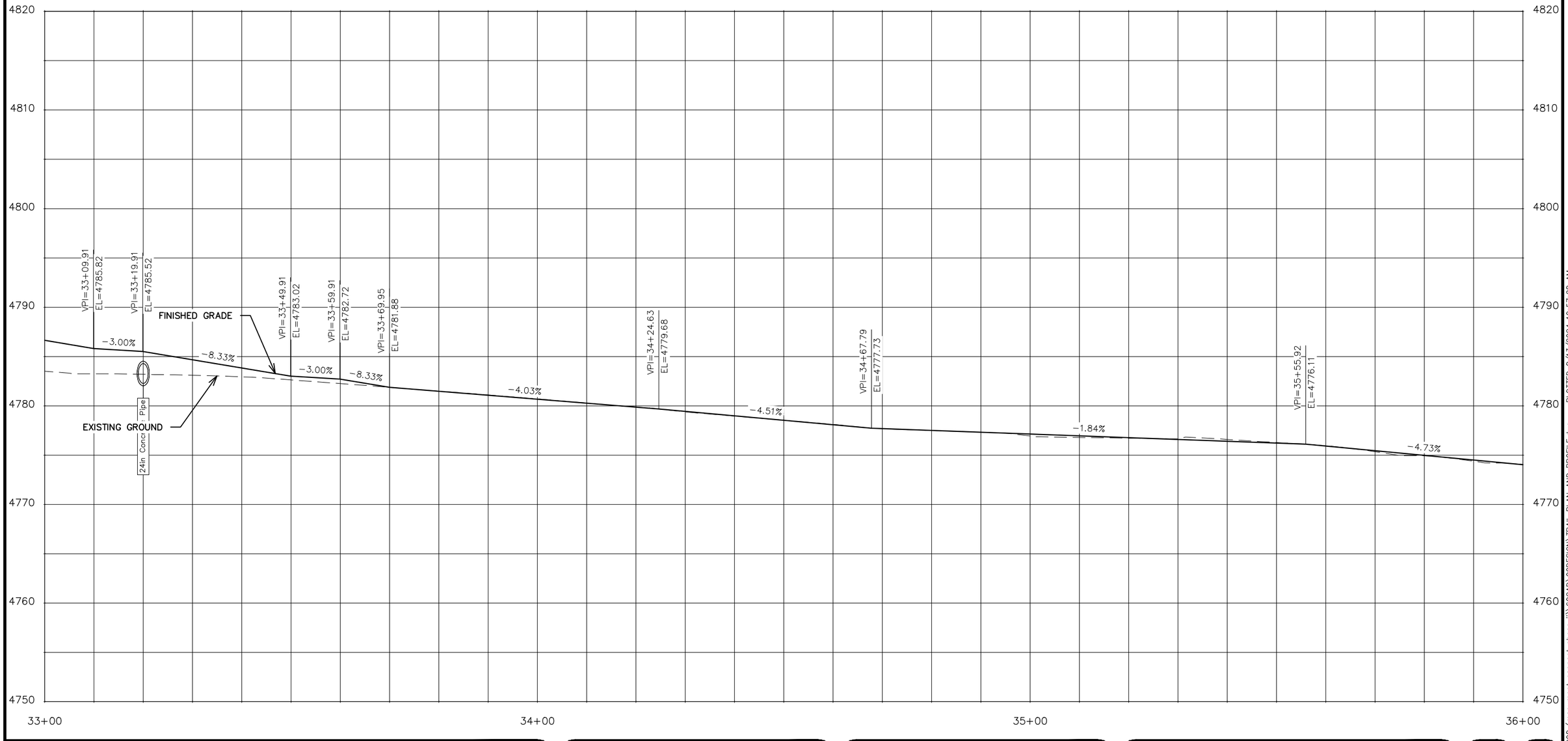

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP12B

28

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MATCH LINE

CONSTRUCT BIKE PATH PER TYPICAL CROSS SECTION

36+70.83
N 27521.40
E 75856.13
EL 68.72

36+96.88
N 27497.67
E 75861.12
EL 68.30

36+03.60
N 27582.10
E 75885.01
EL 73.86

2945-292-06-002
2312 MONUMENT RD
CITY OF GRAND JUNCTION

SHEET 27

SHEET 30

Pipe – (8)
SEE SHEET 43
FOR PIPE TABLE

37+22.92
N 27496.18
E 75885.32
EL 67.87

37+84.25
N 27530.30
E 75936.27
EL 69.15

38+03.56
N 27539.25
E 75953.34
EL 69.90

38+22.87
N 27544.35
E 75971.93
EL 69.86

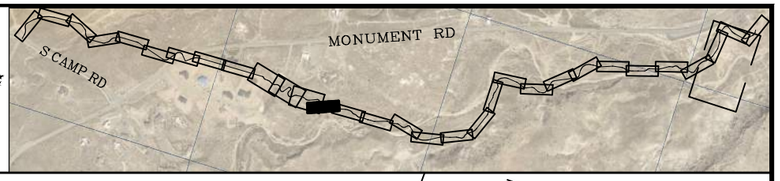
39+16.94
N 27561.43
E 76064.32
EL 67.41

39+37.26
N 27570.54
E 76082.44
EL 66.84

R20.00'
R90.00'
R100.00'

MATCH LINE

KEYMAP
1" = 1500'



VPI=36+03.60
EL=4773.86

VPI=36+71.07
VPI EL=4768.71
LP=36+82.42
LP EL=4768.53
AD=5.99%
K=3.79
VC=22.71

VPC=
36+59.71
EL=4769.57

VPT=
36+82.42
EL=4768.53

VPI=37+43.52
VPI EL=4767.53
LP=37+38.89
LP EL=4767.66
AD=5.60%
K=3.97
VC=22.27

VPC=
37+32.38
EL=4767.72

VPT=
37+54.66
EL=4767.98

VPI=38+13.40
VPI EL=4770.29
HP=38+17.95
HP EL=4769.85
AD=-6.70%
K=7.96
SSD=125.87
VC=53.31

VPC=
37+86.75
EL=4769.24

VPT=
38+40.06
EL=4769.55

-7.64%
-1.63%
3.95%
-2.78%

FINISHED GRADE

EXISTING GROUND

18in Concrete Pipe

4790
4780
4770
4760
4755

36+00
37+00
38+00
39+00

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP13

29

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2945-292-06-002
2312 MONUMENT RD
CITY OF GRAND JUNCTION

SHEET 29

SHEET 31

MATCH LINE

MATCH LINE

39+16.94
N 27561.43
E 76064.32
EL 67.41

39+37.26
N 27570.54
E 76082.44
EL 66.84

39+71.88
N 27583.76
E 76114.26
EL 65.62

39+54.57
N 27578.53
E 76097.78
EL 66.36

CONSTRUCT BIKE PATH PER TYPICAL CROSS SECTION

40+11.22
N 27592.38
E 76152.64
EL 63.69

40+27.83
N 27594.66
E 76169.08
EL 63.22

40+44.45
N 27594.19
E 76185.66
EL 62.76

40+59.66
N 27592.50
E 76200.78
EL 62.34

40+74.24
N 27588.80
E 76214.83
EL 61.94

40+88.83
N 27581.22
E 76227.23
EL 61.53

40+94.42
N 27577.64
E 76231.53
EL 61.38

41+05.61
N 27572.22
E 76241.25
EL 61.06

41+16.80
N 27570.72
E 76252.27
EL 60.44

41+34.23
N 27568.59
E 76269.48
EL 58.95

41+51.65
N 27560.72
E 76284.92
EL 57.88

41+63.08
N 27555.72
E 76295.13
EL 57.59

41+74.51
N 27554.88
E 76306.45
EL 57.30

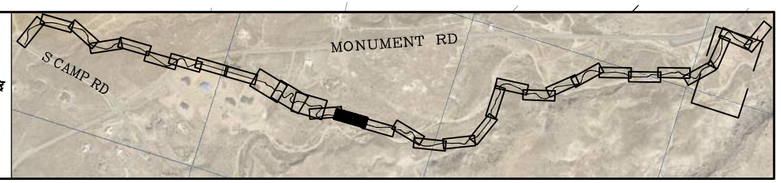
42+11.70
N 27558.54
E 76343.43
EL 56.34

42+08.58
N 27558.67
E 76340.31
EL 56.42

42+05.47
N 27558.47
E 76337.20
EL 56.50

R100.00'
R50.00'
R30.00'

KEYMAP
1" = 1500'



VPI=39+57.44
VPI EL=4766.28
HP=39+34.36
HP EL=4766.92
AD=-2.40%
K=19.26
SSD=300.37
VC=46.15

VPI=40+03.63
VPI EL=4763.89
LP=40+26.76
LP EL=4763.25
AD=2.40%
K=19.26
VC=46.25

VPI=41+11.02
VPI EL=4760.92
HP=41+00.38
HP EL=4761.21
AD=-5.74%
K=3.71
SSD=126.35
VC=21.29

VPI=41+44.87
VPI EL=4758.05
LP=41+55.94
LP EL=4757.77
AD=5.96%
K=3.72
VC=22.13

VPC=
39+34.36
EL=4766.92

VPT=
39+80.51
EL=4765.09

VPC=
VPI=39+
EL=4

VPT=
40+26.76
EL=4763.25

VPC=
VPI=41+00.38
EL=4761.21

VPT=
41+21.67
EL=4760.02

VPC=
41+33.81
EL=4758.98

VPT=
41+55.94
EL=4757.77

FINISHED GRADE

EXISTING GROUND

-2.78%

-8.54%

4790
4780
4770
4760
4750

39+00
40+00
41+00
42+00

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP14

30

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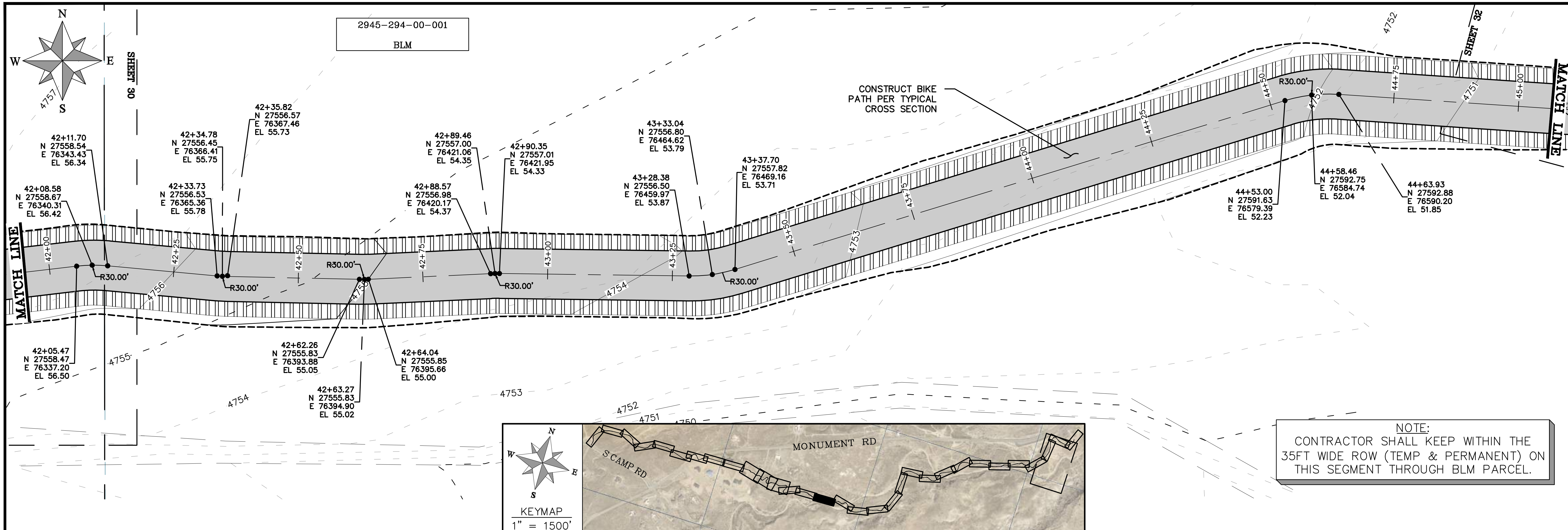
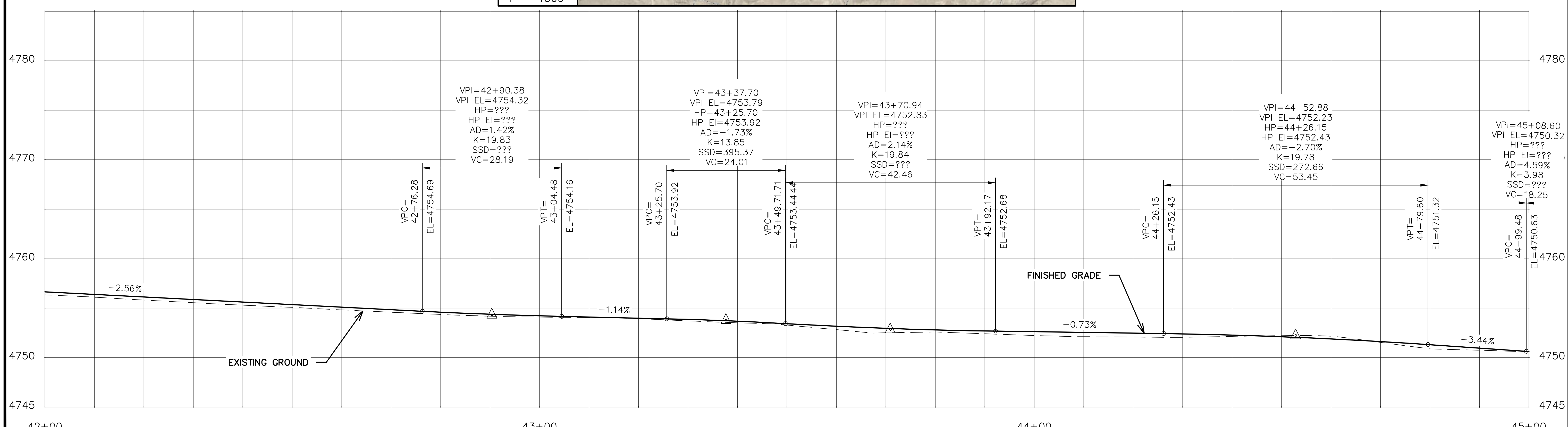


2945-294-00-001
BLM
SHEET 30
SHEET 32
MATCH LINE
MATCH LINE
CONSTRUCT BIKE PATH PER TYPICAL CROSS SECTION
42+11.70 N 27558.54 E 76343.43 EL 56.34
42+08.58 N 27558.67 E 76340.31 EL 56.42
42+05.47 N 27558.47 E 76337.20 EL 56.50
42+34.78 N 27556.45 E 76366.41 EL 55.75
42+33.73 N 27556.53 E 76365.36 EL 55.78
42+35.82 N 27556.57 E 76367.46 EL 55.73
42+62.26 N 27555.83 E 76393.88 EL 55.05
42+63.27 N 27555.83 E 76394.90 EL 55.02
42+64.04 N 27555.85 E 76395.66 EL 55.00
42+89.46 N 27557.00 E 76421.06 EL 54.35
42+88.57 N 27556.98 E 76420.17 EL 54.37
42+90.35 N 27557.01 E 76421.95 EL 54.33
43+33.04 N 27556.80 E 76464.62 EL 53.79
43+28.38 N 27556.50 E 76459.97 EL 53.87
43+37.70 N 27557.82 E 76469.16 EL 53.71
44+53.00 N 27591.63 E 76579.39 EL 52.23
44+58.46 N 27592.75 E 76584.74 EL 52.04
44+63.93 N 27592.88 E 76590.20 EL 51.85
R30.00'
KEYMAP
1" = 1500'
MONUMENT RD
S CAMP RD

NOTE:
CONTRACTOR SHALL KEEP WITHIN THE 35FT WIDE ROW (TEMP & PERMANENT) ON THIS SEGMENT THROUGH BLM PARCEL.



VPI=42+90.38 VPI EL=4754.32 HP=??? HP El=??? AD=1.42% K=19.83 SSD=??? VC=28.19
VPC= 42+76.28 EL=4754.69
VPT= 43+04.48 EL=4754.16
VPI=43+37.70 VPI EL=4753.79 HP=43+25.70 HP El=4753.92 AD=-1.73% K=13.85 SSD=395.37 VC=24.01
VPC= 43+25.70 EL=4753.92
VPC= 43+49.71 EL=4753.44
VPI=43+70.94 VPI EL=4752.83 HP=??? HP El=??? AD=2.14% K=19.84 SSD=??? VC=42.46
VPT= 43+92.17 EL=4752.68
VPI=44+52.88 VPI EL=4752.23 HP=44+26.15 HP El=4752.43 AD=-2.70% K=19.78 SSD=272.66 VC=53.45
VPC= 44+26.15 EL=4752.43
VPT= 44+79.60 EL=4751.32
VPI=45+08.60 VPI EL=4750.32 HP=??? HP El=??? AD=4.59% K=3.98 SSD=??? VC=18.25
VPC= 44+99.48 EL=4750.63
-2.56%
-1.14%
-0.73%
-3.44%
FINISHED GRADE
EXISTING GROUND
4780
4770
4760
4750
4745
42+00
43+00
44+00
45+00

DESCRIPTION	DATE
REVISION △	–
REVISION △	–
REVISION △	–
REVISION △	–

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

SCALES: PLAN & PROFILE — HORIZONTAL: 1" = 20' — VERTICAL: 1" = 5'

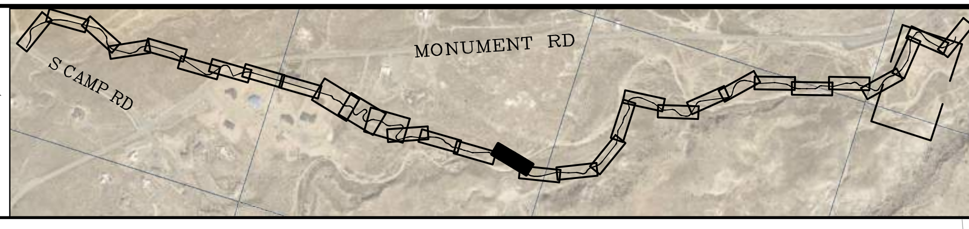
CITY OF Grand Junction COLORADO

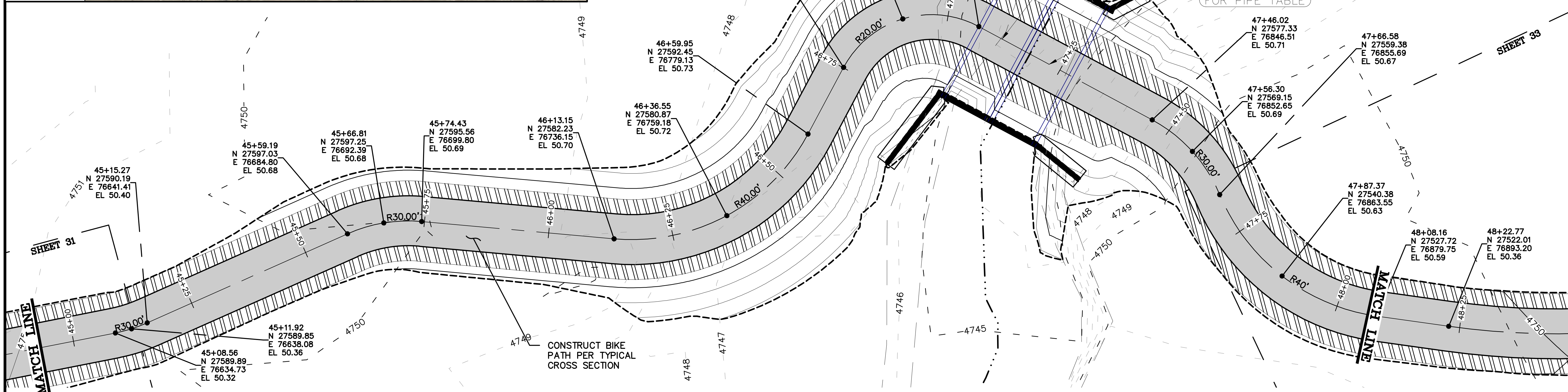
PUBLIC WORKS ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

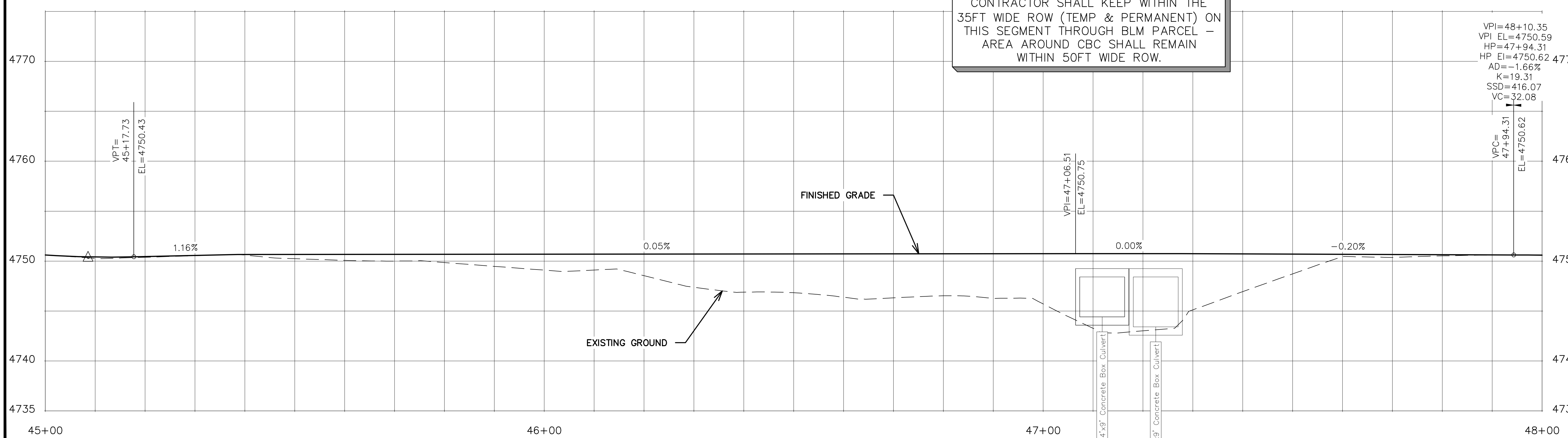
PP15 | 31

n:\EngPro\G2208 (monument connect phase ii)\60CAD\00DESIGN\TRAIL PLAN AND PROFILE.dwg - PLOTTED 8/13/2024 10:58:26 AM





NOTE:
CONTRACTOR SHALL KEEP WITHIN THE 35FT WIDE ROW (TEMP & PERMANENT) ON THIS SEGMENT THROUGH BLM PARCEL – AREA AROUND CBC SHALL REMAIN WITHIN 50FT WIDE ROW.



DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

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

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

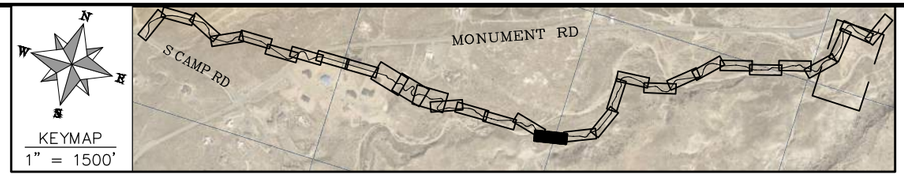
CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP16

n:\EngPro\G2208 (monument connect phase ii)\60CAD\00DESIGN\TRAIL PLAN AND PROFILE.dwg – PLOTTED 8/13/2024 10:58:47 AM



47+87.37
N 27540.38
E 76863.55
EL 50.63

48+08.16
N 27527.72
E 76879.75
EL 50.59

48+22.77
N 27522.01
E 76893.20
EL 50.36

MATCH LINE

R40'

CONSTRUCT BIKE PATH PER TYPICAL CROSS SECTION

49+00.70
N 27510.50
E 76969.45
EL 48.89

49+64.84
N 27529.83
E 77030.12
EL 47.67

50+81.53
N 27587.34
E 77131.66
EL 45.47

R50.00'

51+00.42
N 27594.70
E 77148.93
EL 45.11

MATCH LINE

R155.00'

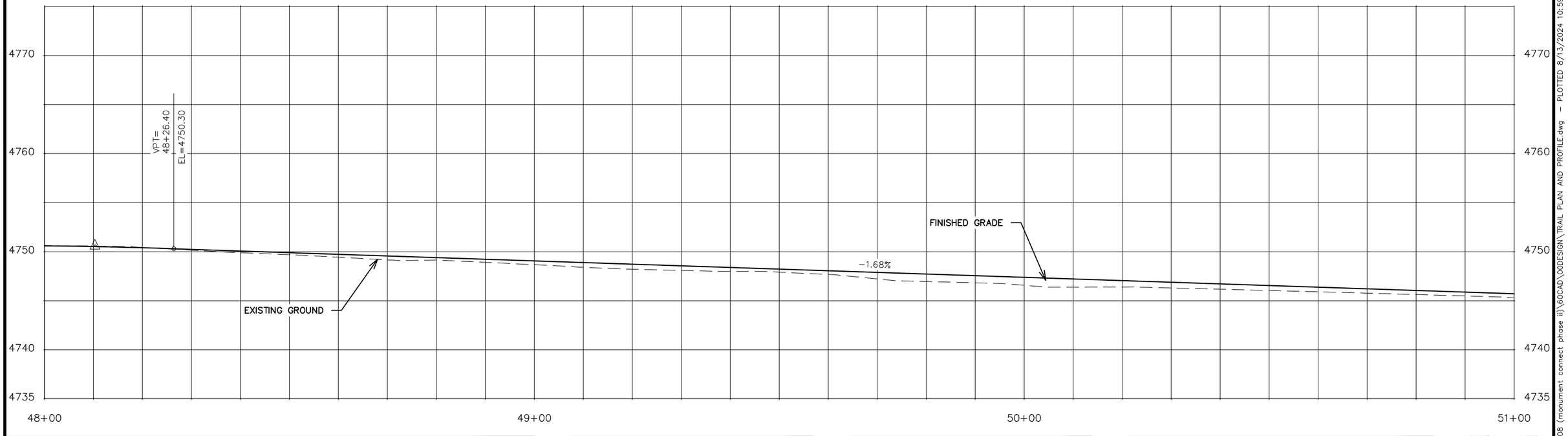
SHEET 32

SHEET 34

2945-294-00-001
BLM

CONTRACTOR TO ADJUST DAYLIGHT GRADING TO AVOID EXISTING DRAINAGE

NOTE:
CONTRACTOR SHALL KEEP WITHIN THE 35FT WIDE ROW (TEMP & PERMANENT) ON THIS SEGMENT THROUGH BLM PARCEL.



DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

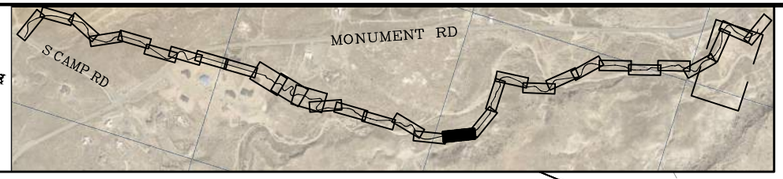
PP17

33

n:\EngProj\g2208 (monument connect phase iii)\60CAD\60DESIGN\TRAIL PLAN AND PROFILE.dwg — PLOTTED 8/13/2024 10:59:07 AM

2945-294-00-001
BLM

KEYMAP
1" = 1500'



2945-291-00-126
CITY OF GRAND JUNCTION

SHEET 35

MATCH LINE

51+00.42
N 27594.70
E 77148.93
EL 45.11

R50.00'

51+78.08
N 27611.23
E 77224.82
EL 45.82

51+82.42
N 27612.36
E 77229.01
EL 45.86

51+86.76
N 27613.64
E 77233.16
EL 45.90

R100.00'

52+45.82
N 27631.10
E 77289.58
EL 46.44

52+65.91
N 27634.53
E 77309.34
EL 46.63

R100.00'

52+86.00
N 27634.12
E 77329.40
EL 46.22

53+30.43
N 27661.22
E 77359.62
EL 45.30

R30.00'

53+08.21
N 27641.86
E 77349.68
EL 45.76

53+63.77
N 27690.67
E 77374.58
EL 44.62

R70.00'

53+97.11
N 27710.07
E 77401.33
EL 43.93

R115.00'

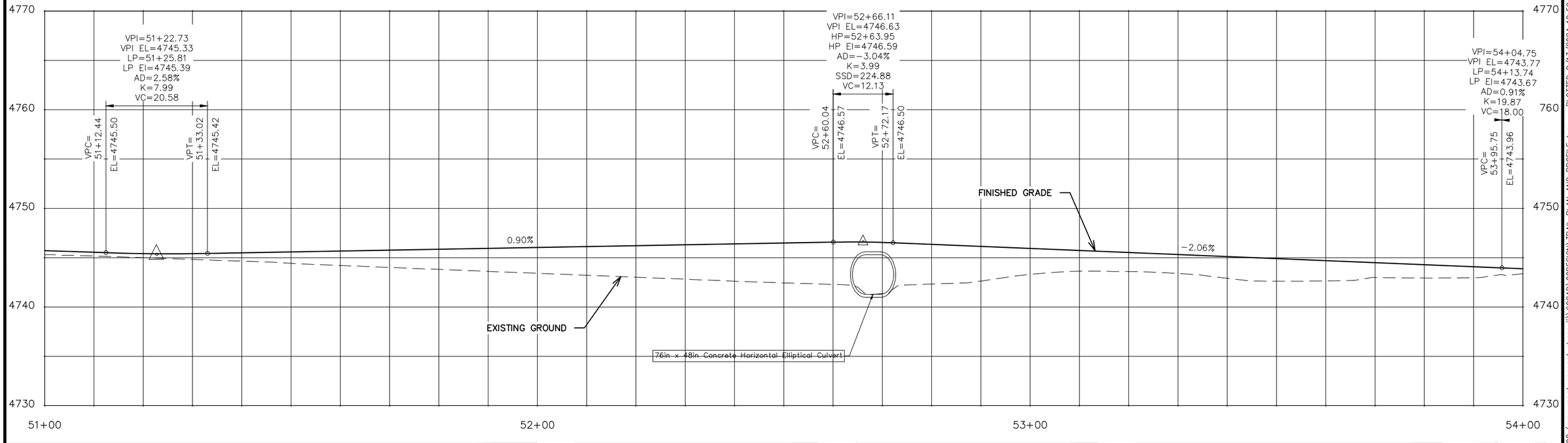
MATCH LINE

CONSTRUCT BIKE PATH PER TYPICAL CROSS SECTION

SHEET 33

NOTE:
CONTRACTOR SHALL KEEP WITHIN THE 35FT WIDE ROW (TEMP & PERMANENT) ON THIS SEGMENT THROUGH BLM PARCEL.

Pipe – (11)
SEE SHEET 43
FOR PIPE TABLE



DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

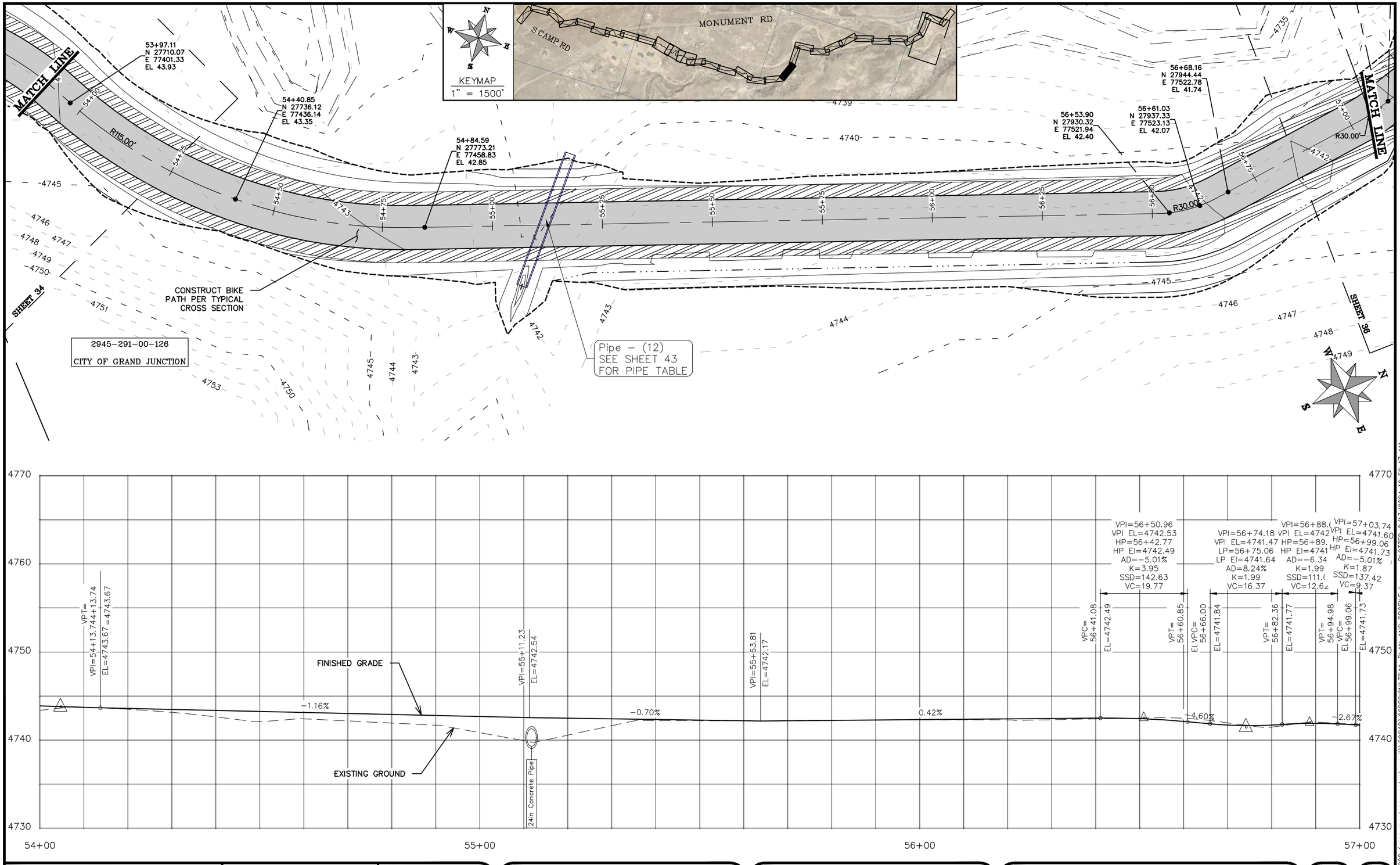
CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP18 | 34

n:\EngProj\g2208 (monument connect phase ii)\60CAD\60DESIGN\TRAIL PLAN AND PROFILE.dwg — PLOTTED 8/13/2024 10:59:27 AM



DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP19

35

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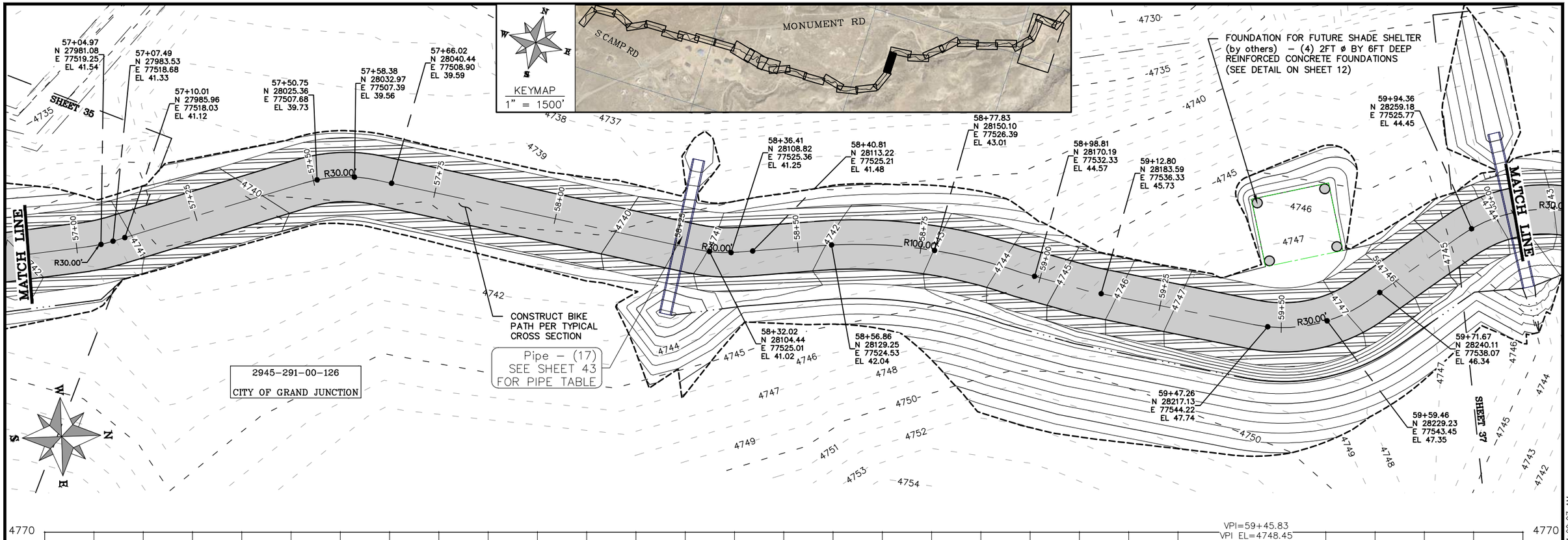

DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP20 | 36

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2945-291-00-126
CITY OF GRAND JUNCTION

2945-291-00-125
2395 MONUMENT RD
CITY OF GRAND JUNCTION

60+88.70
N 28324.92
E 77577.58
EL 36.59

61+33.67
N 28328.62
E 77622.02
EL 32.84

CONSTRUCT BIKE PATH PER TYPICAL CROSS SECTION

62+20.02
N 28318.80
E 77707.82
EL 28.01

62+23.95
N 28318.10
E 77711.68
EL 27.90

62+27.87
N 28316.91
E 77715.41
EL 27.84

60+43.73
N 28302.30
E 77539.15
EL 40.33

60+35.28
N 28296.35
E 77533.15
EL 41.04

60+14.82
N 28279.04
E 77522.93
EL 42.74

R100.00'

R30.00'

R30.00'

Pipe – (18)
SEE SHEET 43
FOR PIPE TABLE

SHEET 36

SHEET 38

MATCH LINE

MATCH LINE

KEYMAP
1" = 1500'

MONUMENT RD

S CAMP RD

FINISHED GRADE

EXISTING GROUND

-8.33%

-5.44%

2.16%

VPI=62+33.20
VPI EL=4727.31
LP=62+45.85
LP EL=4727.77
AD=7.56%
K=7.91
VC=59.74

VPI=63+12.81
VPI EL=4729.04
HP=63+00.88
HP EL=4728.59
AD=-7.37%
K=7.91
SSD=119.35
VC=58.31

VPC=
62+03.33
EL=4728.91

VPT=
62+63.07
EL=4727.96

VPC=
62+83.65
EL=4728.40

4760
4750
4740
4730
4720

60+00
61+00
62+00
63+00

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP21

37

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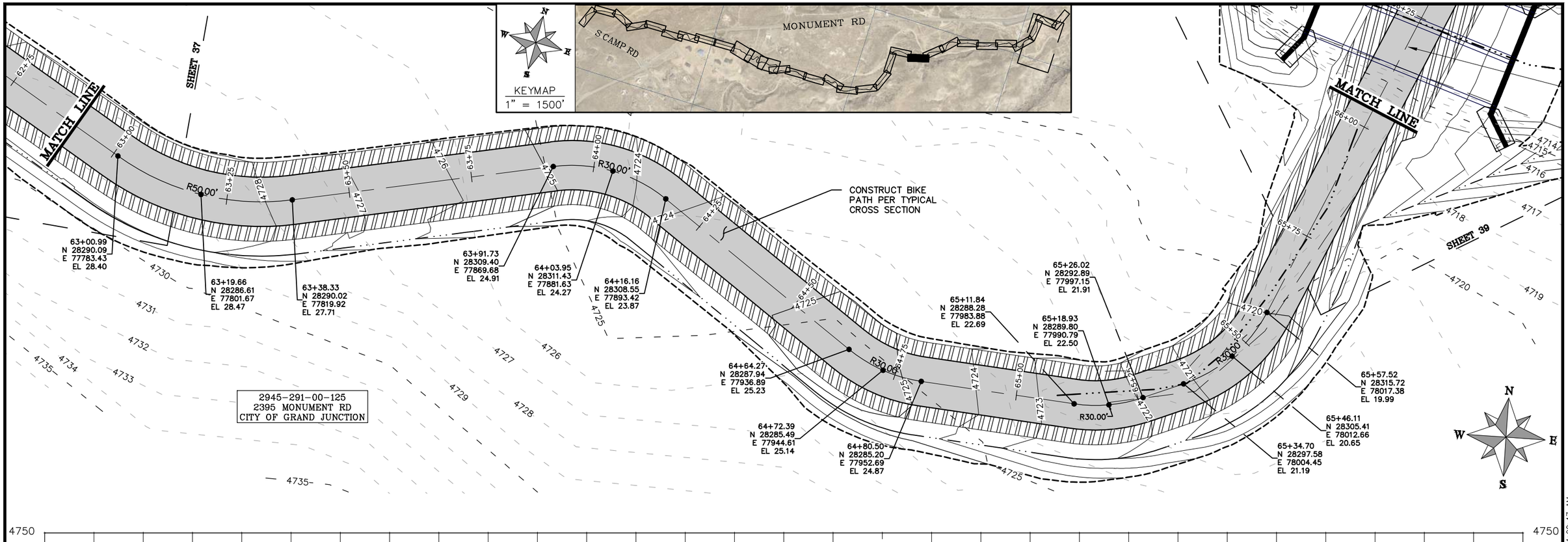

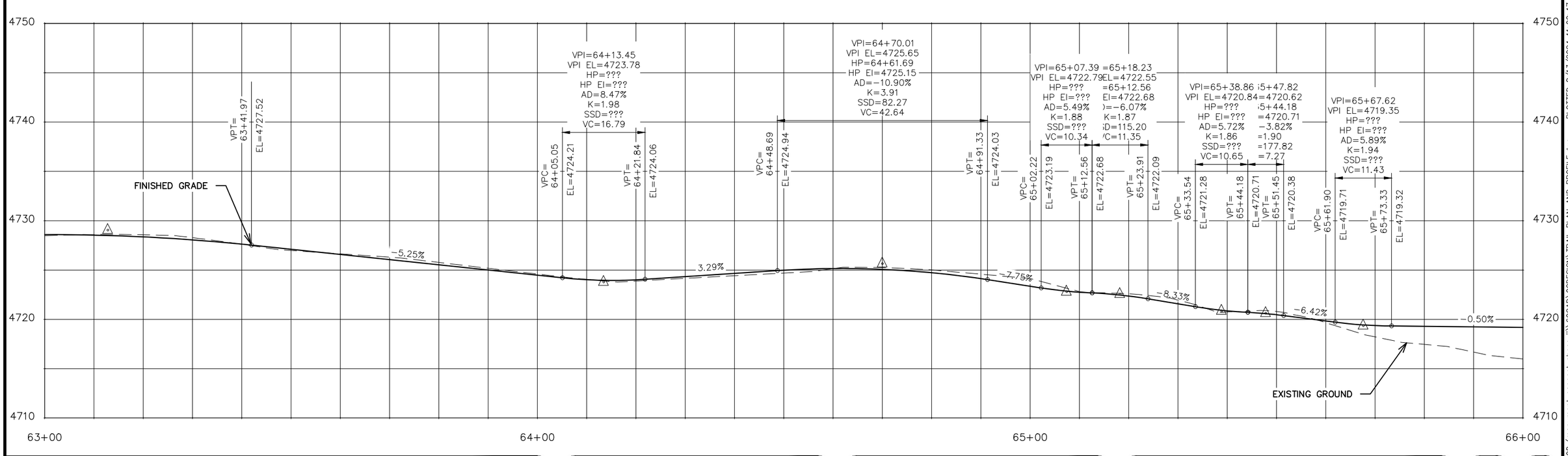

DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP22 | 38

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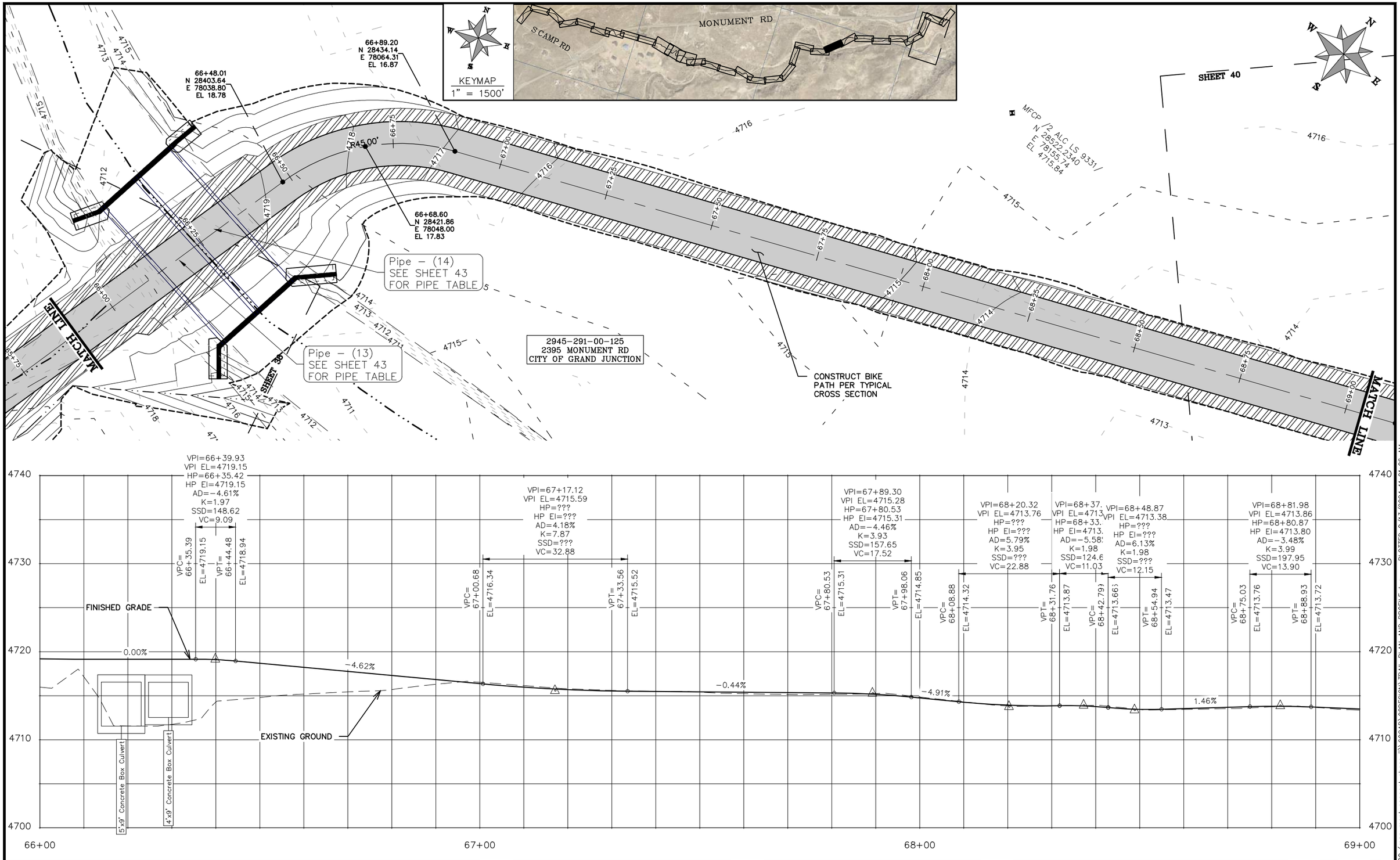

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP23

39

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2945-291-00-125
2395 MONUMENT RD
CITY OF GRAND JUNCTION

69+95.89
N 28601.19
E 78285.62
EL 14.34

R85.00'

70+59.67
N 28659.15
E 78308.45
EL 14.26

71+23.45
N 28685.98
E 78364.68
EL 12.37

69+46.31
N 28551.61
E 78285.62
EL 13.45

69+11.69
N 28524.18
E 78267.76
EL 13.26

R30.00'

69+29.00
N 28535.25
E 78280.76
EL 13.07

CONSTRUCT BIKE PATH PER TYPICAL CROSS SECTION

MATCH LINE

MATCH LINE

SHEET 39

SHEET 41

KEYMAP
1" = 1500'

MONUMENT RD

S CAMP RD

VPI=69+82.98
VPI EL=4714.39
HP=69+87.32
HP EL=4714.37
AD=-2.95%
K=3.99
SSD=231.39
VC=11.74

VPC=69+77.10
EL=4714.24

VPT=69+88.85
EL=4714.37

VPI=70+52.53
VPI EL=4714.50
HP=70+48.26
HP EL=4714.42
AD=-4.37%
K=3.98
SSD=160.72
VC=17.41

VPC=70+43.83
EL=4714.40

VPT=70+61.23
EL=4714.21

-2.02%
2.57%
-0.38%
1.11%
-2.96%

EXISTING GROUND

FINISHED GRADE

69+00
70+00
71+00
72+00

4740
4730
4720
4710
4700

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

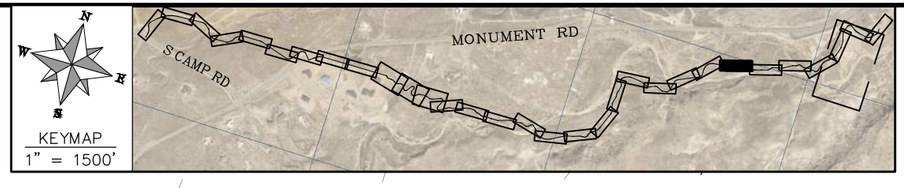
PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP24

40

n:\EngPro\g2208 (monument connect phase iii)\60CAD\60DESIGN\TRAIL PLAN AND PROFILE.dwg — PLOTTED 8/13/2024 11:01:27 AM



SHEET 40

MATCH LINE

SHEET 42

MATCH LINE

72+04.85
N 28687.99
E 78446.00
EL 9.96

72+09.79
N 28688.39
E 78450.92
EL 9.81

72+14.73
N 28689.60
E 78455.70
EL 9.66

73+43.33
N 28731.17
E 78577.40
EL 5.98

73+46.21
N 28731.97
E 78580.17
EL 5.93

73+49.10
N 28732.50
E 78583.00
EL 5.89

74+37.97
N 28744.64
E 78671.04
EL 5.29

74+44.16
N 28744.85
E 78677.22
EL 5.50

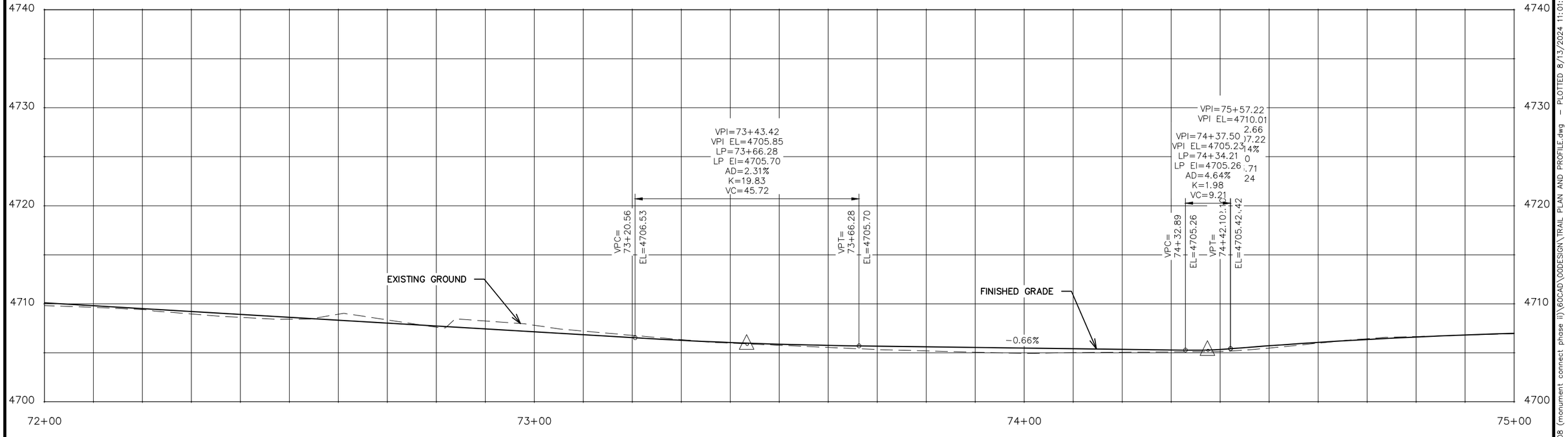
74+50.36
N 28743.79
E 78683.31
EL 5.73

74+66.75
N 28739.32
E 78699.08
EL 6.27

R30.00'

2945-291-00-125
2395 MONUMENT RD
CITY OF GRAND JUNCTION

CONSTRUCT BIKE PATH PER TYPICAL CROSS SECTION



DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP25

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SHEET 41

2945-291-00-125
2395 MONUMENT RD
CITY OF GRAND JUNCTION

MATCH LINE

75+11.11
N 28733.68
E 78742.92
EL 7.12

75+55.47
N 28741.05
E 78786.50
EL 7.11

76+02.36
N 28755.60
E 78831.08
EL 6.15

76+09.18
N 28757.57
E 78837.60
EL 5.93

76+05.77
N 28756.62
E 78834.33
EL 6.04

76+70.29
N 28773.87
E 78896.50
EL 3.05

76+90.35
N 28785.05
E 78912.70
EL 2.64

76+80.32
N 28778.10
E 78905.54
EL 2.60

77+06.94
N 28798.44
E 78922.51
EL 3.08

77+17.82
N 28805.87
E 78930.37
EL 3.02

77+28.70
N 28810.03
E 78940.36
EL 2.69

Pipe - (15)
SEE SHEET 43
FOR PIPE TABLE

R150.00'
R30.00'

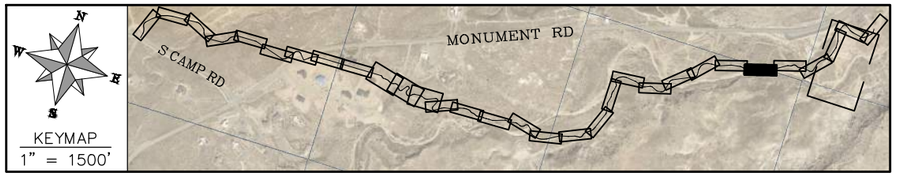
CONSTRUCT BIKE
PATH PER TYPICAL
CROSS SECTION

SHEET 43

MATCH LINE

2945-282-00-001
BLM

NOTE:
CONTRACTOR SHALL KEEP WITHIN THE 22FT WIDE ROW (TEMP & PERMANENT) ON THIS SEGMENT THROUGH BLM PARCEL.



KEYMAP
1" = 1500'

VPI=76+82.64
VPI EL=4702.29
LP=76+84.48
LP EL=4702.55
AD=10.44%
K=1.97
VC=20.61

VPI=77+08.12
VPI EL=4703.38
HP=77+09.92
HP EL=4703.10
AD=-7.63%
K=3.97
SSD=102.25
VC=30.34

VPC=
76+72.34
76+72.34
EL=4702.93
4702.93

VPT=
76+92.95
EL=4702.733

VPT=
77+23.28
EL=4702.87

FINISHED GRADE

EXISTING GROUND

-3.37%

18in Concrete Pipe

75+00
76+00
77+00
78+00

4730
4720
4710
4700
4690

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP26

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NOTE:
CONTRACTOR SHALL KEEP WITHIN THE 22FT WIDE ROW (TEMP & PERMANENT) ON THIS SEGMENT THROUGH BLM PARCEL – AREA AROUND CBC SHALL REMAIN WITHIN 35FT WIDE ROW.

Pipe – (16)
SEE SHEET 43
FOR PIPE TABLE

2945-282-00-001
BLM

SHEET 42

SHEET 44

MATCH LINE

MATCH LINE

78+11.77
N 28827.60
E 79021.55
EL 99.89

78+20.86
N 28830.83
E 79030.01
EL 99.58

78+16.31
N 28828.89
E 79025.90
EL 99.73

79+22.44
N 28880.95
E 79118.36
EL 95.36

79+27.77
N 28883.16
E 79123.21
EL 95.65

79+33.11
N 28884.47
E 79128.37
EL 95.93

79+53.16
N 28887.68
E 79148.17
EL 97.00

79+62.54
N 28890.59
E 79157.04
EL 97.07

79+71.91
N 28896.08
E 79164.59
EL 96.69

79+75.55
N 28898.65
E 79167.16
EL 96.47

79+95.85
N 28907.26
E 79185.13
EL 95.25

80+16.16
N 28902.73
E 79204.52
EL 94.24

80+23.51
N 28898.77
E 79210.72
EL 94.00

80+34.65
N 28894.64
E 79221.00
EL 93.78

80+45.80
N 28894.51
E 79232.07
EL 93.67

80+78.27
N 28900.16
E 79264.05
EL 93.39

80+83.42
N 28900.62
E 79269.18
EL 93.34

80+88.58
N 28900.19
E 79274.32
EL 93.30

R30.00'

CONSTRUCT BIKE PATH PER TYPICAL CROSS SECTION

KEYMAP
1" = 1500'

MONUMENT RD

S CAMP RD

VPI=78+53.89
VPI EL=4698.47
LP=78+57.00
LP EI=4698.46
AD=3.14%
K=1.98
VC=6.23
VPC= 78+50.77
VPT= 78+57.00
EL=4698.46

=78+64.44
EL=4698.48
=78+57.28
EI=4698.46
=-17.71%
<=0.84
D=44.95
C=14.86

VPI=78+79.44
VPI EL=4695.80
LP=78+87.02
LP EI=4695.23
AD=10.91%
K=1.39
VC=15.15
T= 78+71.87+71.87
EL=4697.19
VPC= 78+87.022
EL=4695.233

VPI=79+00.17
VPI EL=4694.17
LP=79+02.87
LP EI=4694.59
AD=13.44%
K=1.96
VC=26.29
VPT= 79+13.31
EL=4694.87

VPI=79+61.00
VPI EL=4697.26
HP=79+59.32
HP EI=4697.10
AD=-8.16%
K=1.99
SSD=89.58
VC=16.19
VPC= 79+52.90
EL=4696.99
VPT= 79+69.10
EL=4696.86

VPI=80+18.52
VPI EL=4693.90
LP=80+38.33
LP EI=4693.74
AD=5.10%
K=7.76
VC=39.60
VPC= 79+98.72
EL=4695.08
VPT= 80+38.33
EL=4693.74

VPI=80+97.44
VPI EL=4693.22
HP=80+89.55
HP EI=4693.29
AD=-1.99%
K=7.93
SSD=341.67
VC=15.79
VPC= 80+89.55
EL=4693.29

FINISHED GRADE

EXISTING GROUND

5.36%

-5.99%

-0.87%

76in x 48in Concrete Horizontal Elliptical Culvert

4720
4710
4700
4690
4680

78+00
79+00
80+00
81+00

DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP27 | 43

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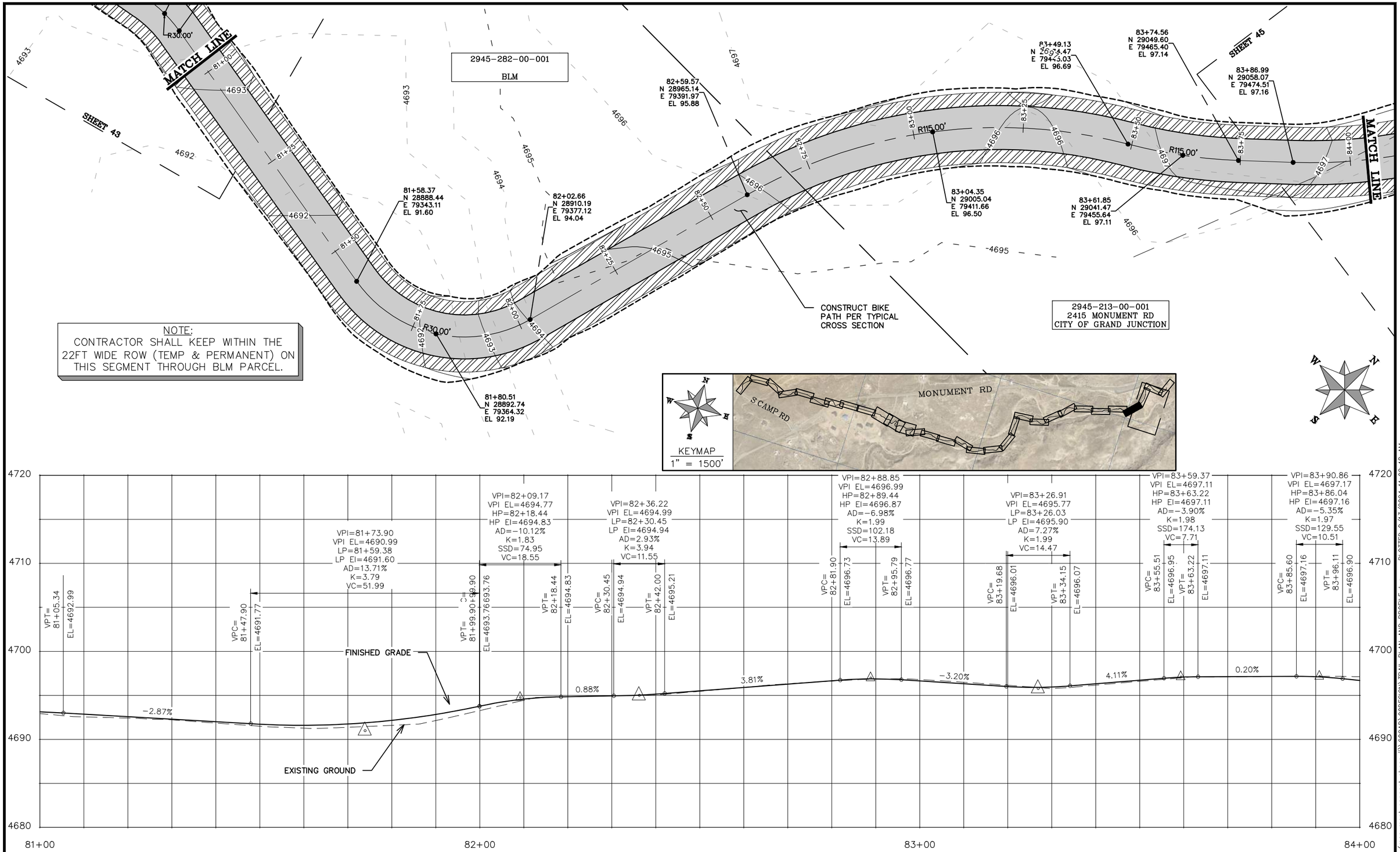

NOTE:
CONTRACTOR SHALL KEEP WITHIN THE 22FT WIDE ROW (TEMP & PERMANENT) ON THIS SEGMENT THROUGH BLM PARCEL.

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

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83+86.99
N 29058.07
E 79474.51
EL 97.16

MATCH LINE

84+15.11
N 29079.53
E 79492.56
EL 96.07

SHEET 44

84+43.22
N 29104.73
E 79504.88
EL 96.23

85+23.22
N 29180.34
E 79531.00
EL 96.45

85+30.24
N 29187.23
E 79532.09
EL 96.55

85+26.73
N 29183.74
E 79531.85
EL 96.50

85+91.59
N 29248.58
E 79530.98
EL 97.96

85+96.09
N 29253.03
E 79530.39
EL 98.13

85+93.84
N 29250.82
E 79530.81
EL 98.04

86+75.90
N 29330.49
E 79511.19
EL 0.73

86+85.38
N 29339.90
E 79510.39
EL 0.93

86+94.86
N 29349.09
E 79512.55
EL 1.13

MATCH LINE

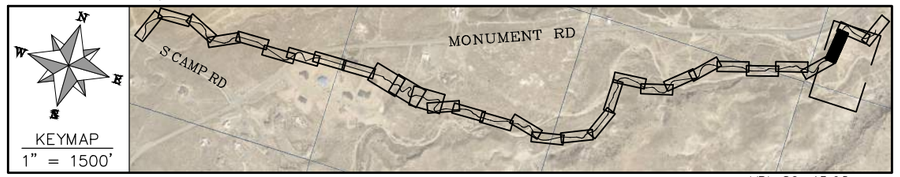
SHEET 46

R115.00'
R20.00'
R30.00'

CONSTRUCT BIKE PATH
(1–FT WIDE CONCRETE 6" THICK w/ 4FT WIDE SHOULDER 12" THICK ON RIGHT SIDE ONLY)

CONSTRUCT BIKE PATH PER TYPICAL CROSS SECTION

2945–213–00–001
2415 MONUMENT RD
CITY OF GRAND JUNCTION



VPI=84+13.37
VPI EL=4696.01
LP=84+17.51
LP EI=4696.06
AD=6.04%
K=1.97
VC=11.91
VPC= 84+07.42
EL=4696.32
VPT= 84+19.33
EL=4696.07

VPI=84+56.57
VPI EL=4696.40
HP=84+66.35
HP EI=4696.28
AD=–1.42%
K=52.29
SSD=503.84
VC=74.48

VPI=85+04.08
VPI EL=4696.15
LP=84+99.06
LP EI=4696.19
AD=2.06%
K=9.99
VC=20.55
VPC= 84+93.81
EL=4696.21
VPT= 85+14.36
EL=4696.31

VPI=85+72.32
VPI EL=4697.20
LP=85+48.83
LP EI=4696.84
AD=2.39%
K=19.64
VC=46.99
VPC= 85+48.83
EL=4696.84
VPT= 85+95.82
EL=4698.12

VPI=86+45.98
VPI EL=4700.09
HP=86+63.36
HP EI=4700.46
AD=–1.78%
K=19.56
SSD=391.22
VC=34.77
VPC= 86+28.59
EL=4699.40
VPT= 86+63.36
EL=4700.46

FINISHED GRADE
EXISTING GROUND
5.16%
1.53%
3.93%

4720
4710
4700
4690
4680

84+00
85+00
86+00
87+00

DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

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2945-213-00-001
2415 MONUMENT RD
CITY OF GRAND JUNCTION

REMOVE AT LEAST 10FT OF EXISTING RAILING TO NEAREST POST

CONSTRUCT BIKE PATH (1-FT WIDE CONCRETE 6" THICK w/ 4FT WIDE SHOULDER 12" THICK ON RIGHT SIDE ONLY)

PRECAST CONCRETE BLOCK RETAINING WALL SYSTEM - REDI-ROCK GRAVITY WALL OR APPROVED EQUAL. SEE SHEET 9-10 FOR PLAN, PROFILE & SECTION.

REMOVE AT LEAST 22FT OF EXISTING RAILING TO NEAREST POST

88+01.62
N 29418.33
E 79573.23
EL 3.62

87+57.43
N 29406.99
E 79536.27
EL 2.75

87+79.52
N 29421.40
E 79552.07
EL 4.05

88+58.32
N 29386.98
E 79620.47
EL 0.00

88+76.86
N 29378.21
E 79636.78
EL 98.84

88+95.41
N 29372.60
E 79654.43
EL 98.15

89+84.45
N 29353.60
E 79741.42
EL 0.48

90+01.34
N 29353.53
E 79758.18
EL 99.43

90+18.23
N 29360.33
E 79773.50
EL 99.29

90+49.26
N 29378.60
E 79798.59
EL 0.79

R25.00'
R100.00'
R40.00'

MATCH LINE
MATCH LINE

SHEET 45
SHEET 47

KEYMAP
1" = 1500'
MONUMENT RD
S CAMP RD

VPI=87+51.41
VPI EL=4702.33
LP=87+42.99
LP EI=4702.16
AD=4.85%
K=3.47
VC=16.83

VPI=87+81.51
VPI EL=4704.34
HP=87+84.63
HP EI=4704.12
AD=-9.89%
K=1.97
SSD=76.92
VC=19.48

VPI=88+19.52
VPI EL=4702.95
HP=88+13.01
HP EI=4703.20
AD=-3.51%
K=3.71
SSD=195.87
VC=13.01

VPI=88+68.99
VPI EL=4699.20
LP=88+74.36
LP EI=4698.95
AD=2.92%
K=3.68
VC=10.74

VPI=88+95.45
VPI EL=4698.01
LP=88+96.86
LP EI=4698.14
AD=7.53%
K=1.99
VC=14.96

VPI=89+16.7
VPI EL=4698.
HP=89+16.4
HP EI=4698.
AD=-6.31%
K=1.99
SSD=111.53
VC=12.58

VPI=89+29.00
VPI EL=4698.25
LP=89+29.51
LP EI=4698.34
AD=6.02%
K=1.99
VC=12.00

VPI=89+47.49
VPI EL=4698.50
LP=89+40.25
LP EI=4698.49
AD=7.54%
K=1.92
VC=14.48

VPI=89+81.74
VPI EL=4701.1C
HP=89+80.20
HP EI=4700.54
AD=-16.95%
K=1.58
SSD=52.57
VC=26.72

VPI=90+04.70
VPI EL=4699.06
LP=90+10.86
LP EI=4699.20
AD=9.92%
K=1.93
VC=19.18

VPC= 87+42.99 EL=4702.16
VPT= 87+59.82 EL=4702.91
VPC= 87+71.77 EL=4703.70
VPT= 87+91.25 EL=4704.01
VPC= 88+13.01 EL=4703.20
VPT= 88+26.03 EL=4702.47
VPC= 88+63.63 EL=4699.59
VPT= 88+74.36 EL=4698.95
VPC= 88+87.97 EL=4698.34
VPT= 89+02.93 EL=4698.23
VPC= 89+10.42 EL=4698.46
VPC= 89+23.00 EL=4698.45
VPT= 89+35.00 EL VPC= 89+40.25 EL=4698.49
VPT= 89+54.73 EL=4699.05
VPC= 89+68.38 EL=4700.10
VPC= 89+95.11 EL=4699.84

FINISHED GRADE
EXISTING GROUND

2.14% 6.64% -3.71% -7.64% -4.52% 3.06% 7.70%

4730 4720 4710 4700 4690

87+00 88+00 89+00 90+00

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP30 | 46

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MATCH LINE

90+01.34
N 29353.53
E 79758.18
EL 99.43

90+18.23
N 29360.33
E 79773.50
EL 99.29

90+49.26
N 29378.60
E 79798.59
EL 0.79

90+55.17
N 29382.35
E 79803.15
EL 1.28

90+89.31
N 29405.56
E 79828.19
EL 2.94

90+52.22
N 29380.41
E 79800.93
EL 1.03

91+29.24
N 29441.44
E 79842.51
EL ???

91+09.28
N 29421.89
E 79839.40
EL 3.38

R40.00'

R50.00'

R45.00'

SHEET 46

PRECAST CONCRETE BLOCK RETAINING WALL SYSTEM – REDI-ROCK GRAVITY WALL OR APPROVED EQUAL. SEE SHEET 9-10 FOR PLAN, PROFILE & SECTION.

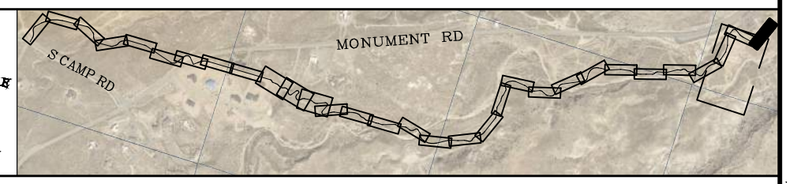
CONTRACTOR TO DOWEL #4 REBAR 12" ON CENTER TO EXISTING TRAIL PRIOR TO POUR OF NEW TRAIL CONCRETE.

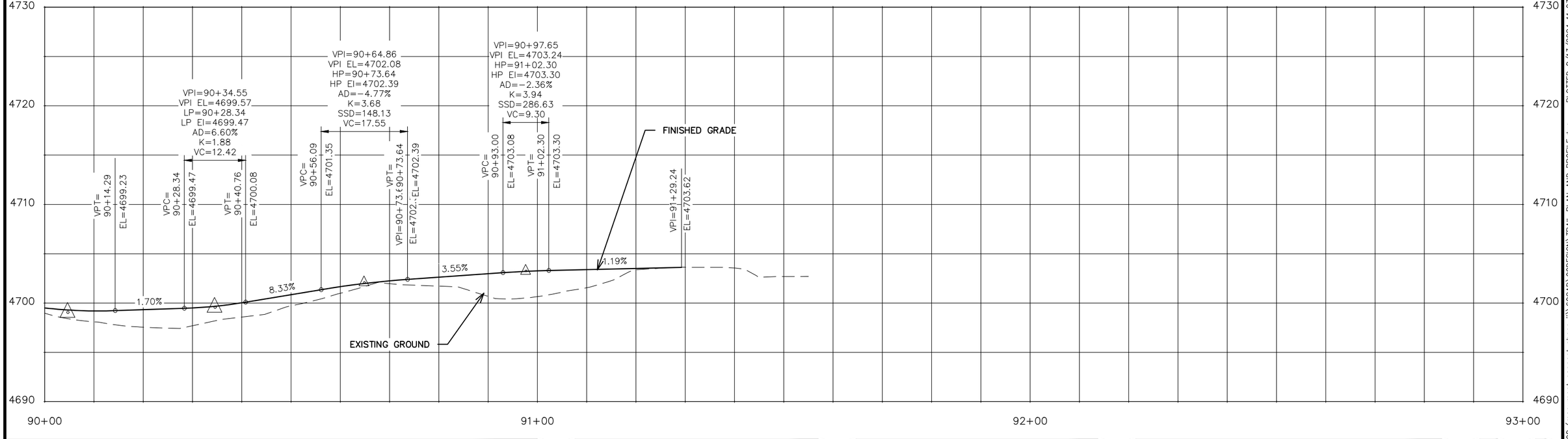
CONSTRUCT BIKE PATH
(1-FT WIDE CONCRETE 6" THICK w/ 4FT WIDE SHOULDER 12" THICK ON RIGHT SIDE ONLY)

CONSTRUCT BIKE PATH PER TYPICAL CROSS SECTION

2945-213-00-001
2415 MONUMENT RD
CITY OF GRAND JUNCTION

KEYMAP
1" = 1500'





DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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APPROVED BY KA DATE 2024

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
TRAIL PLAN AND PROFILE
August 13, 2024

PP31

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	Pipe Table					
	Pipe Name	Size	Length	Slope	Invert In	Invert Out
*	Pipe – (1)	12in Concrete Pipe	24 FT	2.87%	4861.75	4861.07
	Pipe – (2)	48in Concrete Pipe	32 FT	0.50%	4838.20	4838.04
	Pipe – (3)	12in Concrete Pipe	24 FT	2.00%	4839.09	4838.61
	Pipe – (4)	12in Concrete Pipe	24 FT	2.00%	4838.34	4837.86
	Pipe – (5)	12in Concrete Pipe	24 FT	2.00%	4835.60	4835.12
	Pipe – (6)	24in Concrete Pipe	32 FT	0.50%	4808.40	4808.24
	Pipe – (7)	24in Concrete Pipe	24 FT	2.00%	4782.52	4782.04
	Pipe – (8)	18in Concrete Pipe	24 FT	2.00%	4765.62	4765.14
+	Pipe – (9)	4'x9' Concrete Box Culvert	32 FT	2.00%	4744.74	4744.10
+	Pipe – (10)	5'x9' Concrete Box Culvert	32 FT	2.00%	4743.74	4743.10
	Pipe – (11)	76in x 48in Concrete Horizontal Elliptical Culvert	56 FT	0.49%	4741.44	4741.16
*	Pipe – (12)	24in Concrete Pipe	32 FT	3.25%	4739.77	4738.73
+	Pipe – (13)	5'x9' Concrete Box Culvert	42 FT	2.00%	4711.96	4711.12
+	Pipe – (14)	4'x9' Concrete Box Culvert	42 FT	2.00%	4712.96	4712.12
*	Pipe – (15)	18in Concrete Pipe	32 FT	3.47%	4700.77	4699.66
	Pipe – (16)	76in x 48in Concrete Horizontal Elliptical Culvert	56 FT	0.23%	4691.94	4691.81
	Pipe – (17)	24 inch Concrete Pipe	32 FT	1.50%	4737.67	4737.19
	Pipe – (18)	24 inch Concrete Pipe	32 FT	1.00%	4740.05	4739.73

NOTE: * PROVIDE RIPRAP (D_{50} = 12") AT PIPE OUTFALL (INCLIDED IN COST PIPE)

\+ PRECAST CONCRETE BOX CULVERTS PROVIDED BY CITY. CONTRACTOR TO LOAD ON TRUCK AND UNLOAD AT SITE.

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
PIPE TABLE
August 13, 2024

PP32

2945-282-00-001
BLM

2945-213-00-001
2415 MONUMENT RD
CITY OF GRAND JUNCTION

CONSTRUCT 880 LF OF SINGLE-TRACK TRAIL - NATIVE SOIL, 3 FT WIDE, CROSS-SLOPE TO DRAIN.

CONNECT SINGLE-TRACK TRAIL TO SOFT SHOULDER USING MAXIMUM SLOPE OF 11% NATIVE EMBANKMENT MAY BE USED

KEYMAP
1" = 1500'

MONUMENT RD
S CAMP RD

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN
HORIZONTAL: 1" = 50'
0 12.5 25 50

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
SINGLE TRACK PLAN
August 13, 2024

PP33

49

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CONSTRUCTION ACCESS & STAGING AREA

CONCRETE WASHOUT

VEHICLE TRACKING PAD

Pipe – (1)

CHECK DAM (TYP.)

APPROXIMATE LIMITS OF DISTURBANCE

2945-301-13-001
CITY OF GRAND JUNCTION

2945-292-00-125
AZCARRAGA MARTIN

CHECK DAM IN SWALE (TYP.)

APPROXIMATE LIMITS OF DISTURBANCE

CHECK DAM IN SWALE (TYP.)

2945-301-13-001
CITY OF GRAND JUNCTION

DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

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

SCALES:
PLAN
HORIZONTAL: 1" = 20'
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
STORM WATER MANAGEMETN PLAN
July 16, 2024

SW01

60

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2945-292-00-125
AZCARRAGA MARTIN

PERIMETER CONTROL (STRAW WATTLE OR BERM) (TYP.)

CHECK DAM IN SWALE (TYP.)

APPROXIMATE LIMITS OF DISTURBANCE

2945-301-13-001
CITY OF GRAND JUNCTION

PERIMETER CONTROL (STRAW WATTLE OR BERM) (TYP.)

Pipe – (2)

CHECK DAM IN SWALE (TYP.)

2945-292-01-001
CITY OF GRAND JUNCTION

APPROXIMATE LIMITS OF DISTURBANCE

Pipe – (3)

PERIMETER CONTROL (STRAW WATTLE OR BERM) (TYP.)

CHECK DAM IN SWALE (TYP.)

2945-301-13-001
CITY OF GRAND JUNCTION

DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

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

SCALES:
PLAN
HORIZONTAL: 1" = 20'
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
STORM WATER MANAGEMETN PLAN
July 16, 2024

SW02

67

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2945-292-00-125
AZCARRAGA MARTIN

APPROXIMATE LIMITS OF DISTURBANCE

CHECK DAM IN SWALE (TYP.)

2945-292-01-001
CITY OF GRAND JUNCTION

APPROXIMATE LIMITS OF DISTURBANCE

PERIMETER CONTROL (STRAW WATTLE OR BERM) (TYP.)

2945-292-01-001
CITY OF GRAND JUNCTION

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN
HORIZONTAL: 1" = 20'
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
STORM WATER MANAGEMETN PLAN
July 16, 2024

SW03

68

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Pipe – (4)

PERIMETER CONTROL (STRAW WATTLE OR BERM) (TYP.)

Pipe – (5)

APPROXIMATE LIMITS OF DISTURBANCE

2945-292-01-001
CITY OF GRAND JUNCTION

MFCP /1.5ALC PLS 24320/
N 27693.1870
E 74470.60
EL 4838.74

MFCP /2ALC PLS 38428/
N 27655.0950
E 74579.96
EL 4835.54

2945-292-07-001
2310 STONE CREEK CT
MCLEROY ZACHARY KEITH

PERIMETER CONTROL (STRAW WATTLE OR BERM) (TYP.)

2945-292-00-127
CITY OF GRAND JUNCTION

MFCP /2ALC LS 24320 34.35 WC/
N 27692.5850
E 74592.14
EL 4835.66

VEHICLE TRACKING PAD

MFCP /2ALC PLS 38428/
N 27693.3910
E 74623.37
EL 4833.47

2945-292-00-045
2320 MONUMENT RD
ORACLE GALE LLC

APPROXIMATE LIMITS OF DISTURBANCE

MFCP /2ALC PLS 38428/
N 27672.2000
E 74642.81
EL 4830.67

MFCP /1.5 YPC PLS 38428
N 27671.6130
E 74712.73
EL 4827.28

2945-292-07-002
2312 STONE CREEK CT
INGERSOLL ERIC

MFCP /1.5 YPC PLS 38428
N 27670.8800
E 74824.55
EL 4826.50

2945-292-07-001
2310 STONE CREEK CT
MCLEROY ZACHARY KEITH

2945-292-07-003
2314 STONE CREEK CT
JOHNSON JOSHUA

PERIMETER CONTROL (STRAW WATTLE OR BERM) (TYP.)

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN
HORIZONTAL: 1" = 20'
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
STORM WATER MANAGEMETN PLAN
July 16, 2024

SW04

63

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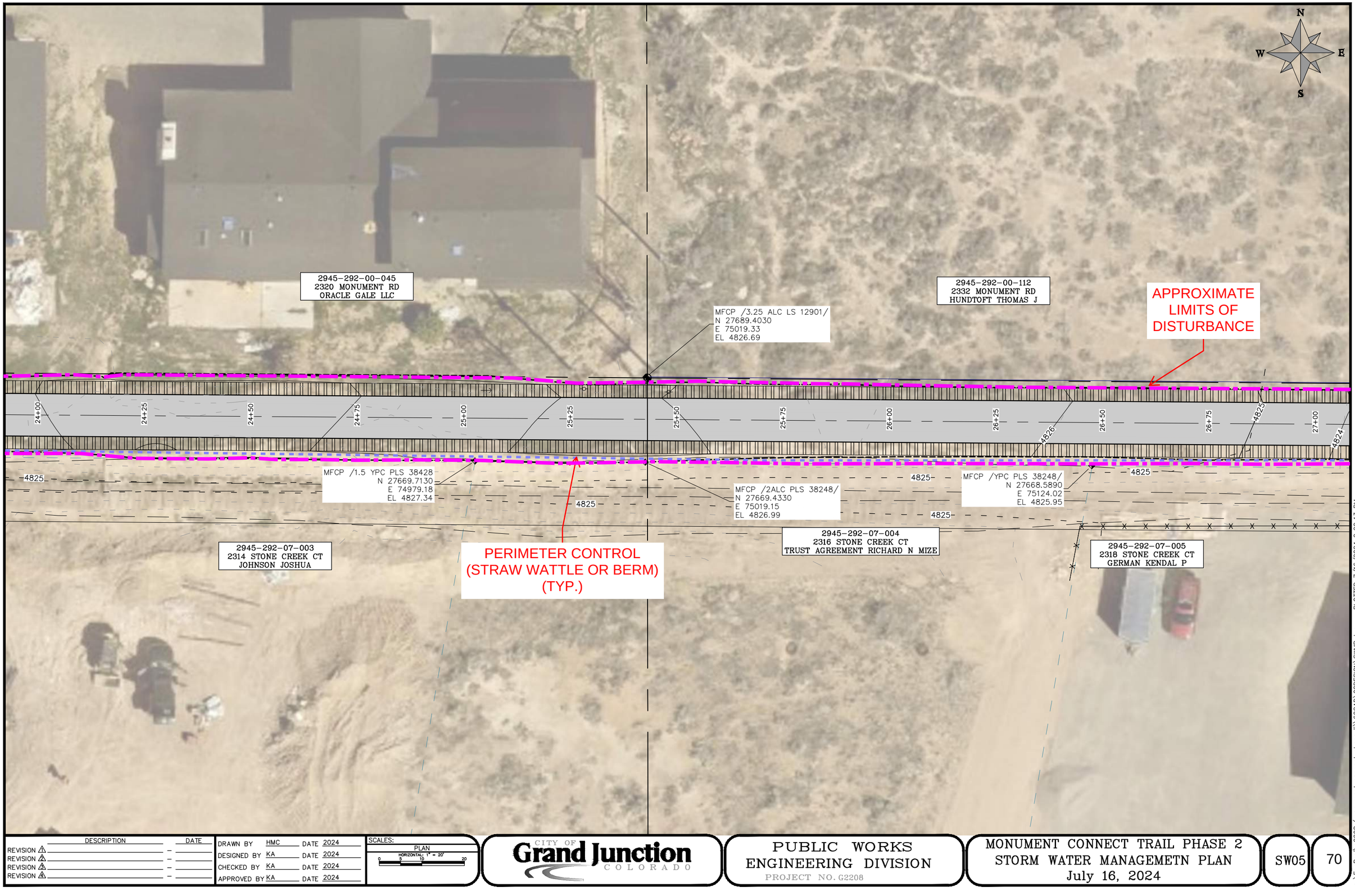

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN
HORIZONTAL 1" = 20'
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
STORM WATER MANAGEMETN PLAN
July 16, 2024

SW05

70

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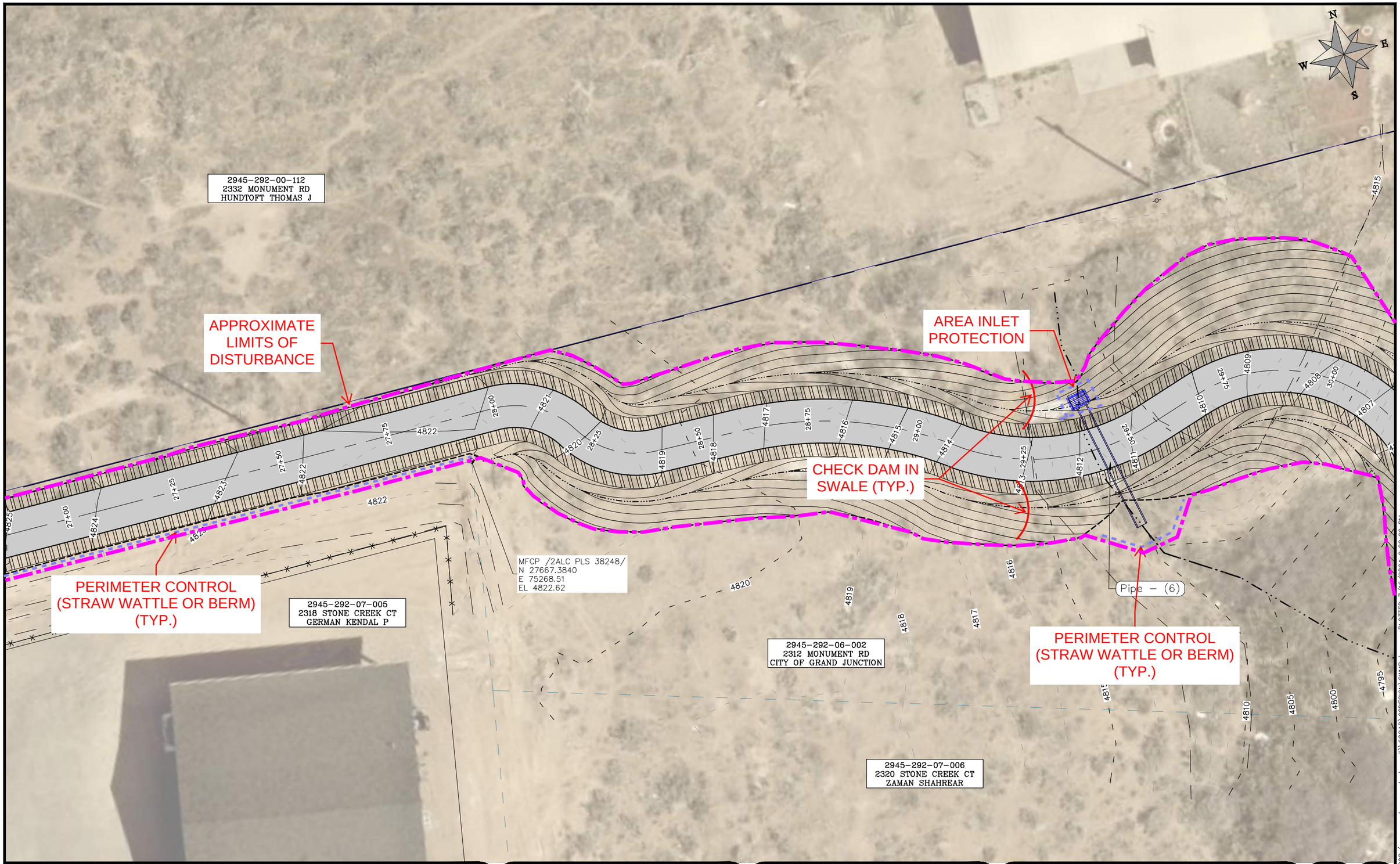

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN
HORIZONTAL 1" = 20'
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
STORM WATER MANAGEMETN PLAN
July 16, 2024

SW06

71

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2945-292-00-126
2328 MONUMENT RD
GRAND JUNCTION GEM & MINERAL CLUB INC

2945-292-00-112
2332 MONUMENT RD
HUNDTOFT THOMAS J

2945-292-06-002
2312 MONUMENT RD
CITY OF GRAND JUNCTION

PERIMETER CONTROL
(STRAW WATTLE OR BERM)
(TYP.)

APPROXIMATE
LIMITS OF
DISTURBANCE

AREA INLET
PROTECTION

CHECK DAM IN
SWALE (TYP.)

CHECK DAM IN
SWALE (TYP.)

Pipe – (7)

Pipe – (6)

PERIMETER CONTROL
(STRAW WATTLE OR BERM)
(TYP.)

MFCP /2ALC PLS 38428/
N 27510.9460
E 75606.92
EL 4782.91

2945-292-07-006
2320 STONE CREEK CT
ZAMAN SHAHREAR

DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

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

SCALES:
PLAN
HORIZONTAL 1" = 20'
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
STORM WATER MANAGEMETN PLAN
July 16, 2024

SW07

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2945-292-06-002
2312 MONUMENT RD
CITY OF GRAND JUNCTION

APPROXIMATE LIMITS OF DISTURBANCE

PERIMETER CONTROL (STRAW WATTLE OR BERM) (TYP.)

PERIMETER CONTROL (STRAW WATTLE OR BERM) (TYP.)

Pipe – (7)

MFCP /2ALC PLS 38428/
N 27510.9460
E 75606.92
EL 4782.91

DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

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

SCALES:
PLAN
HORIZONTAL: 1" = 20'
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
STORM WATER MANAGEMETN PLAN
July 16, 2024

SW08

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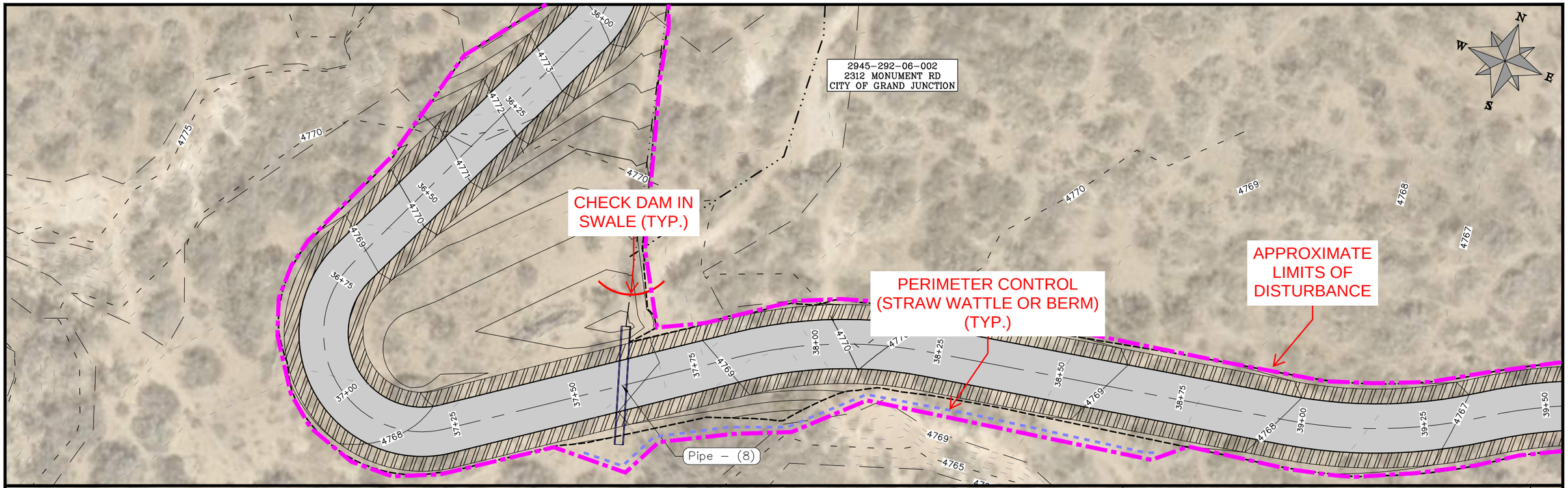

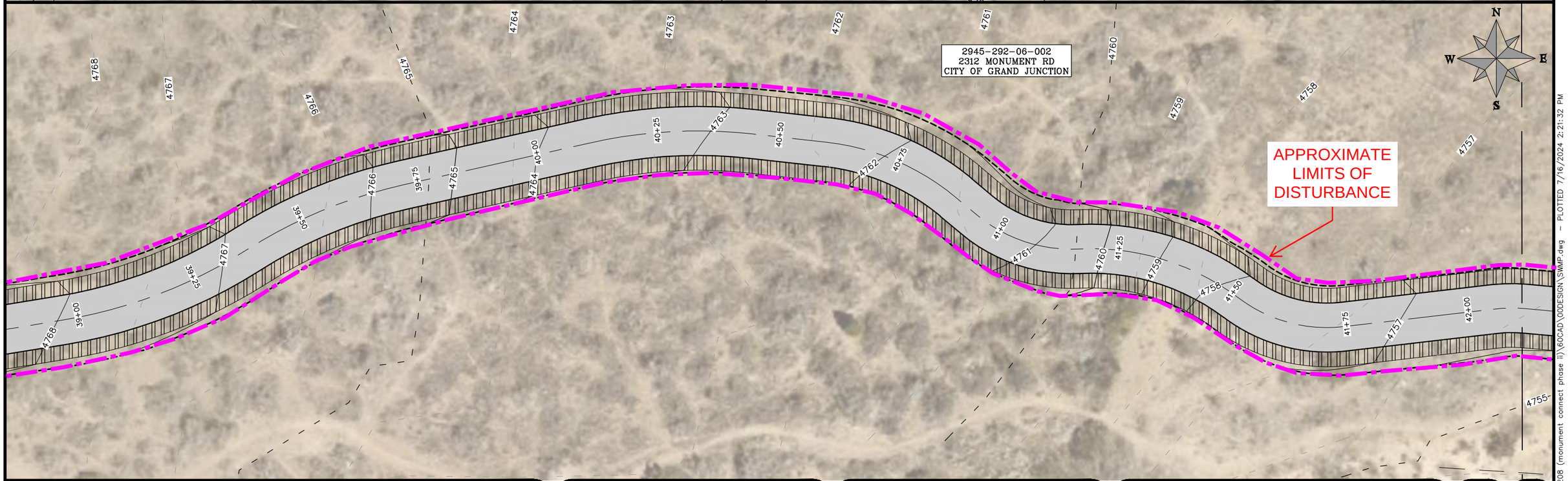

DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

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

SCALES:
PLAN
HORIZONTAL: 1" = 20'
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
STORM WATER MANAGEMETN PLAN
July 16, 2024

SW09

74

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2945-294-00-001
BLM

APPROXIMATE LIMITS OF DISTURBANCE

PERIMETER CONTROL (STRAW WATTLE OR BERM) (TYP.)

2945-294-00-001
BLM

Pipe – (9)

Pipe

APPROXIMATE LIMITS OF DISTURBANCE

PERIMETER CONTROL (STRAW WATTLE OR BERM) (TYP.)

PERIMETER CONTROL (STRAW WATTLE OR BERM) (TYP.)

CHECK DAM IN SWALE (TYP.)

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN
HORIZONTAL 1" = 20'
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
STORM WATER MANAGEMETN PLAN
July 16, 2024

SW10

75

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2945-294-00-001
BLM

APPROXIMATE LIMITS OF DISTURBANCE

PERIMETER CONTROL (STRAW WATTLE OR BERM) (TYP.)

2945-292-00-065
2370 MONUMENT RD
COOPER DAVID

2945-291-00-126
CITY OF GRAND JUNCTION

2945-294-00-001
BLM

APPROXIMATE LIMITS OF DISTURBANCE

PERIMETER CONTROL (STRAW WATTLE OR BERM) (TYP.)

PERIMETER CONTROL (STRAW WATTLE OR BERM) (TYP.)

Pipe – (11)

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES:
PLAN
HORIZONTAL: 1" = 20'
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
STORM WATER MANAGEMETN PLAN
July 16, 2024

SW11

76

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PERIMETER CONTROL (STRAW WATTLE OR BERM) (TYP.)

Pipe – (12)

APPROXIMATE LIMITS OF DISTURBANCE

2945-291-00-126
CITY OF GRAND JUNCTION

PERIMETER CONTROL (STRAW WATTLE OR BERM) (TYP.)

Pipe – (17)

APPROXIMATE LIMITS OF DISTURBANCE

2945-291-00-126
CITY OF GRAND JUNCTION

DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

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

SCALES:
PLAN
HORIZONTAL: 1" = 20'
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
STORM WATER MANAGEMETN PLAN
July 16, 2024

SW12

77

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PERIMETER CONTROL (STRAW WATTLE OR BERM) (TYP.)

2945-291-00-126
CITY OF GRAND JUNCTION

2945-291-00-125
2395 MONUMENT RD
CITY OF GRAND JUNCTION

APPROXIMATE LIMITS OF DISTURBANCE

CHECK DAM IN SWALE (TYP.)

Pipe – (18)

CHECK DAM IN SWALE (TYP.)

APPROXIMATE LIMITS OF DISTURBANCE

2945-291-00-125
2395 MONUMENT RD
CITY OF GRAND JUNCTION

DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

DRAWN BY HMC DATE 2024
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APPROVED BY KA DATE 2024

SCALES:
PLAN
HORIZONTAL: 1" = 20'
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
STORM WATER MANAGEMETN PLAN
July 16, 2024

SW13

78

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PERIMETER CONTROL (STRAW WATTLE OR BERM) (TYP.)

APPROXIMATE LIMITS OF DISTURBANCE

CHECK DAM IN SWALE (TYP.)

Pipe – (13)

Pipe – (14)

2945-291-00-125
2395 MONUMENT RD
CITY OF GRAND JUNCTION

MFOP /2 ALC LS 9331/
N 2852222340
E 781557.74
EL 4715.84

APPROXIMATE LIMITS OF DISTURBANCE

DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

DRAWN BY HMC DATE 2024
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CHECKED BY KA DATE 2024
APPROVED BY KA DATE 2024

SCALES:
PLAN
HORIZONTAL: 1" = 20'
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
STORM WATER MANAGEMETN PLAN
July 16, 2024

SW14

79

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APPROXIMATE LIMITS OF DISTURBANCE

2945-291-00-125
2395 MONUMENT RD
CITY OF GRAND JUNCTION

2945-291-00-125
2395 MONUMENT RD
CITY OF GRAND JUNCTION

Pipe – (15)

APPROXIMATE LIMITS OF DISTURBANCE

PERIMETER CONTROL (STRAW WATTLE OR BERM) (TYP.)

2945-282-00-001
BLM

DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

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

SCALES:
PLAN
HORIZONTAL: 1" = 20'
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
STORM WATER MANAGEMETN PLAN
July 16, 2024

SW15

80

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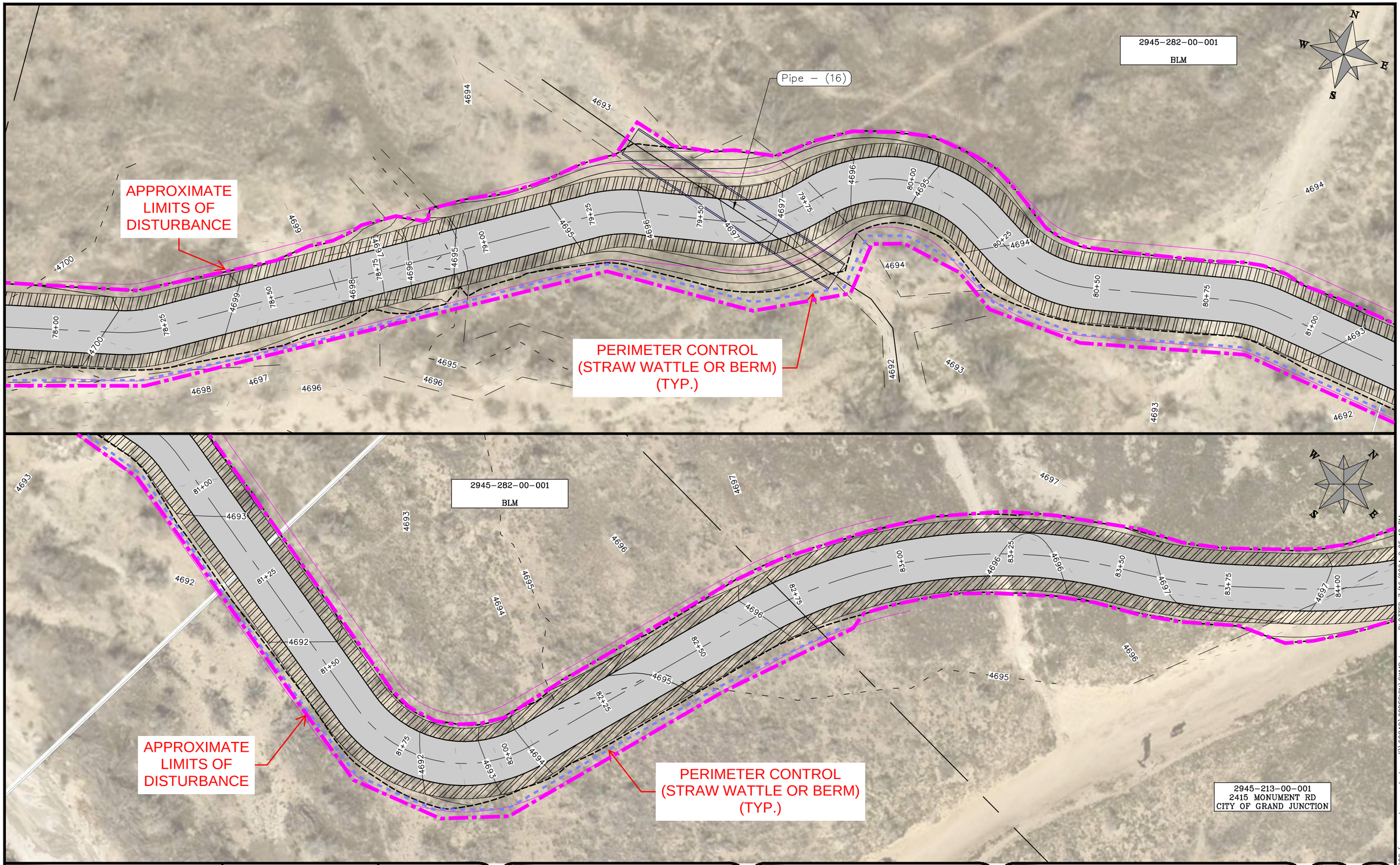

DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

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

SCALES: PLAN HORIZONTAL 1" = 20'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
STORM WATER MANAGEMETN PLAN
July 16, 2024

SW16

81

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APPROXIMATE LIMITS OF DISTURBANCE

2945-213-00-001
2415 MONUMENT RD
CITY OF GRAND JUNCTION

APPROXIMATE LIMITS OF DISTURBANCE

PERIMETER CONTROL (STRAW WATTLE OR BERM) (TYP.)

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

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

SCALES: PLAN HORIZONTAL 1" = 20'

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
STORM WATER MANAGEMETN PLAN
July 16, 2024

SW17

82

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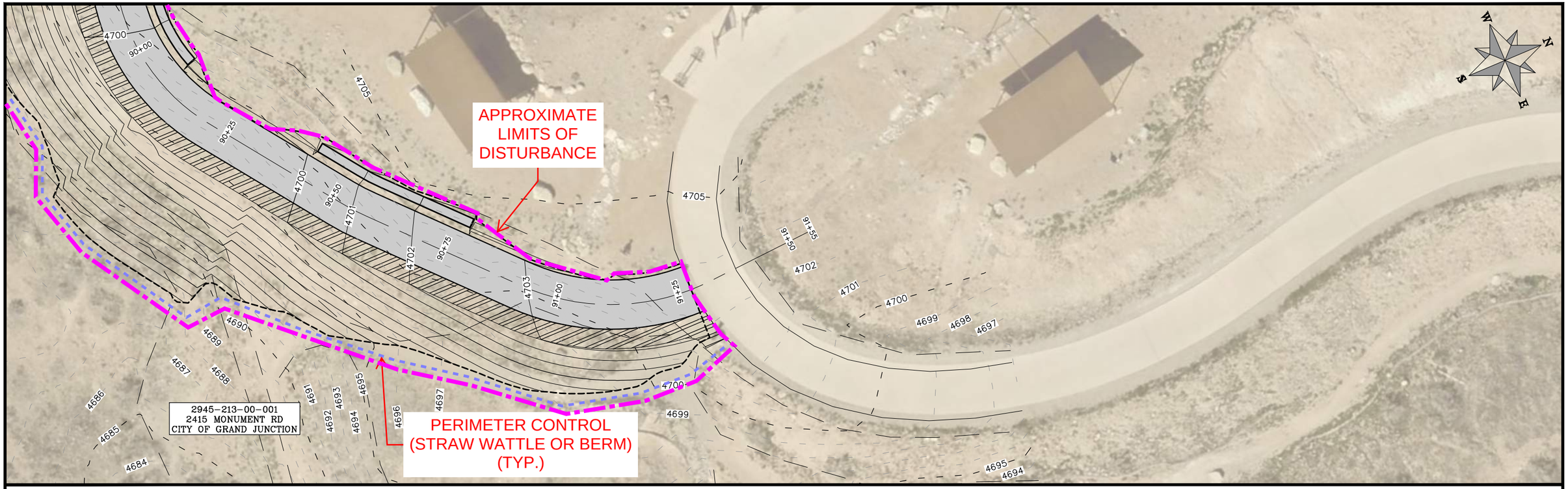

DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

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

SCALES:
PLAN
HORIZONTAL: 1" = 20'
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
STORM WATER MANAGEMETN PLAN
July 16, 2024

SW18

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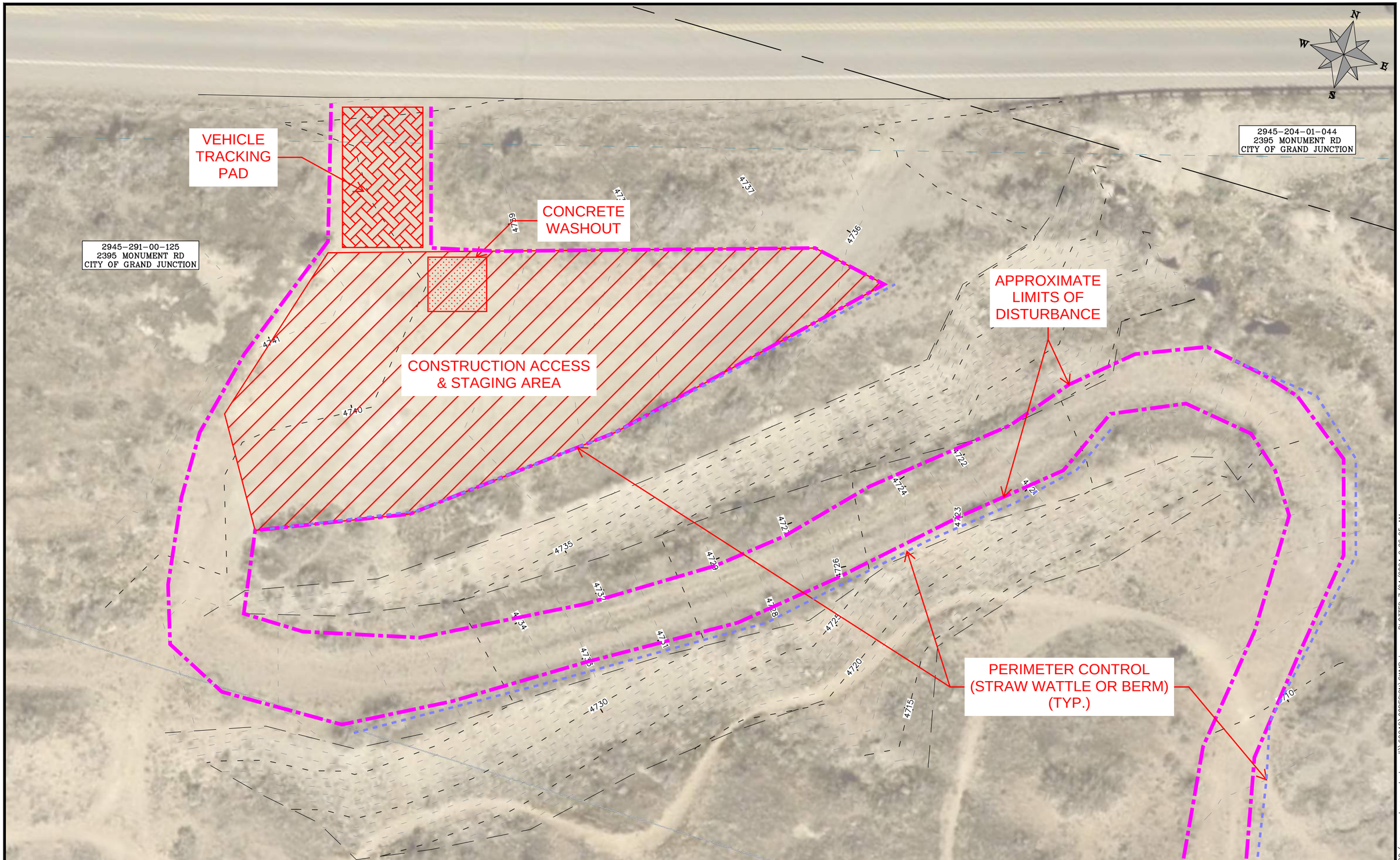

DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

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

SCALES:
PLAN
HORIZONTAL: 1" = 20'
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. G2208

MONUMENT CONNECT TRAIL PHASE 2
STORM WATER MANAGEMENT PLAN
July 24, 2024

SW19 | 78

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