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CITY OF IOWA CITY
UNESCO CITY OF LITERATURE

IOWA RIVER TRAIL BRIDGE REPLACEMENT

IOWA CITY, IOWA

CITY COUNCIL

MAYOR
Bruce Teague

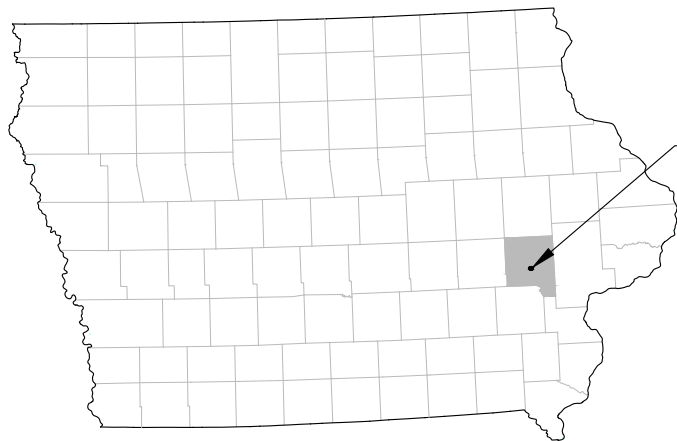
MAYOR PRO TEM
Mazahir Salih

CITY COUNCIL
Megan Alter
Laura Bergus
Andrew Dunn
Shawn Harmsen
Josh Moe

CITY CLERK
Kellie Grace

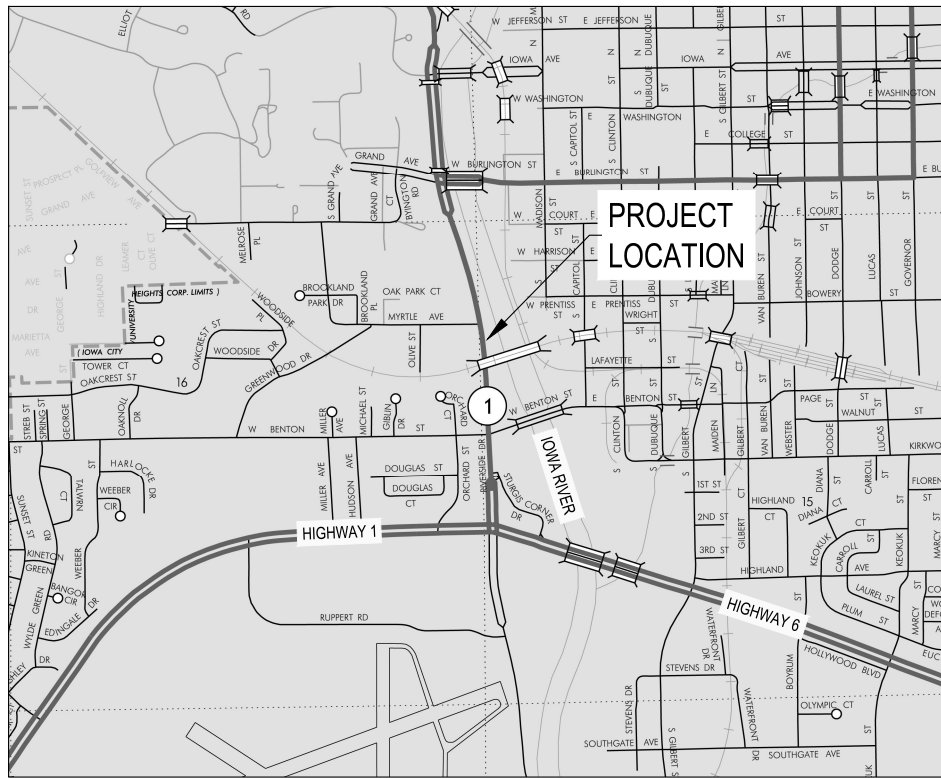
CITY PUBLIC WORKS DIRECTOR
Ron Knoche

REFER TO THE PROPOSAL FORM AND GENERAL NOTES FOR LIST OF APPLICABLE SPECIFICATIONS.



IOWA CITY, IOWA
JOHNSON COUNTY

VICINITY MAP
NOT TO SCALE



LOCATION MAP
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CITY OF IOWA CITY
THIS ENGINEERING DOCUMENT IS RECOMMENDED FOR FILING WITH THE CITY CLERK.

CITY ENGINEER

DATE

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I hereby certify that this engineering document was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Iowa.

Grant F. Finch Lic. No. 19727 Date _____
My license renewal date is December 31, 2025.
Pages or sheets covered by this seal:
ALL EXCEPT V SHEETS

I hereby certify that this engineering document was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Iowa.

Troyer J. Ritter Lic. No. P2442551 Date _____
My license renewal date is December 31, 2025.
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PRELIMINARY
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NO.	REVISION	DATE
B	60% PLANS	05-10-24
A	30% PLANS	01-08-24



PROJECT
IOWA RIVER TRAIL
BRIDGE REPLACEMENT

SHEET TITLE
TITLE SHEET

PROJECT NUMBER:
23184
ISSUED DATE: PRELIMINARY
DRAWN BY: KJB
CHECK BY: JTL
APPROVED BY: GFF

SHEET NUMBER
A.01



2:02:23:184 IA RIVER TRAIL AT CDR\DRAWINGS\23184.A.01.DWG, A.01, 5/10/2024 4:57:51 PM

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2:02:20:18:14 IOWA RIVER TRAIL AT COORAWINGS23184.A.01.DWG, A.02, 5/10/2024 4:52:27 PM

LEGEND

LINETYPES

EXISTING		PROPOSED
—(OE)—	ELECTRIC - OVERHEAD	—OE—
—(E)—	ELECTRIC - UNDERGROUND	—E—
—(FO)—	FIBER OPTIC	—FO—
—(G)—	GAS	—G—
—(HPG)—	GAS - HIGH PRESSURE	—HPG—
—(S)—	SEWER - SANITARY	—S—
—(ST)—	SEWER - STORM	—ST—
—(SD)—	SUBDRAIN	—SD—
—(T)—	TELEPHONE	—T—
—(W)—	WATER	—W—
—○—	FENCE - CHAIN LINK	—○—
—//—	FENCE - WIRE	—//—
—□—	FENCE - WOOD	—□—
—△—	HANDRAIL	—△—
— —	SAFETY RAIL	— —
—	EASEMENT	—
—	PROPERTY LINE	—
— 830 —	CONTOUR	—(830)—
— . . . —	SURFACE WATER	— . . . —
— ~ ~ ~ —	TREE LINE	— ~ ~ ~ —
— — — —	FILTER SOCK	— — — —
— — — —	SILT FENCE	— — — —
— — — —	GRADING LIMITS	— — — —
— — — —	REMOVALS	-XXXXXXXXXXXXXXXXXXXX-

SYMBOLS

⊠	AIR CONDITIONING UNIT	⊠	ELECTRIC METER
⊙	ANCHOR BOLT	⊙	ELECTRIC MANHOLE
⊙	ANTENNA	⊙	FIRE HYDRANT
⊙	BEE HIVE INLET	⊙	FIBER OPTIC BOX
⊙	BUILDING COLUMN	⊙	FIBER OPTIC MANHOLE
⊙	SURVEY BENCHMARK	⊙	GAS METER
⊙	BOLLARD	⊙	GAS VALVE
⊙	CABLE TELEVISION BOX	⊙	GAS MANHOLE
⊙	SIGN	←	GUY WIRE
⊙	CONIFEROUS TREE	⊙	LIGHT POLE
⊙	DECIDUOUS TREE	⊙	POWER POLE
⊙	SHRUB	⊙	TELEPHONE BOX
⊙	ELECTRIC HANDHOLE	⊙	TELEPHONE MANHOLE
		⊙	SANITARY SEWER MANHOLE
		⊙	STORM SEWER MANHOLE
		⊙	WATER VALVE
		⊙	WATER MANHOLE

HATCHES

	HOT MIX ASPHALT PAVEMENT		AGGREGATE SURFACING
	PORTLAND CEMENT CONCRETE PAVEMENT		EARTH
	PAVEMENT REMOVAL		SEEDING
	MULCH		TURF REINFORCED MAT
	DECORATIVE BRICK PAVER		RIP RAP

UTILITY CONTACTS

COMPANY	CONTACT	EMAIL	PHONE NUMBER
IMON COMMUNICATIONS	NATALIE PERKINS	NATALIE.PERKINS@IMON.NET	319-200-6299
MEDIACOM	DARWIN DRISCOLL	DDRISCOLL@MEDIACOMCC.COM	845-204-5742
MIDAMERICAN ELECTRIC	JASON WARREN	JASON.WARREN@MIDAMERICAN.COM	319-341-4425
MIDAMERICAN GAS	STEVEN DACHTLER	STEVEN.DACHTLER@MIDAMERICAN.COM	319-383-8739
UNIVERSITY OF IOWA	CHRIS HATLAND	CHRIS-HATLAND@UIOWA.EDU	319-335-1357

GENERAL NOTES

- CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH CITY STAFF TO AVOID CONFLICTS WITH CITY AND UNIVERSITY OF IOWA EVENTS. NO ADDITIONAL COMPENSATION WILL BE MADE FOR COORDINATING SCHEDULES AROUND EVENTS.
- FLOOD PROTECTION SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. THE CONTRACTOR WILL SATISFY THEMSELVES AS TO THE LEVEL OF FLOOD PROTECTION TO BE INCLUDED ON THE PROJECT. THE OWNER WILL NOT BE RESPONSIBLE FOR COSTS INCURRED TO THE PROJECT AND/OR CONTRACTOR DUE TO FLOODING.

GENERAL UTILITY NOTES

- REFER TO SUDAS 1070 2.07 FOR GENERAL UTILITY NOTES.
- ABANDONED UTILITIES NOT SHOWN ON THE PLANS MAY EXIST WITHIN THE CONSTRUCTION LIMITS. IF ENCOUNTERED, CONTRACTOR SHALL CONFIRM SAID UTILITIES ARE ABANDONED. CONTRACTOR IS RESPONSIBLE FOR REMOVING THESE LINES AS NECESSARY FOR CONSTRUCTION.
- REPAIR ALL FIELD/DRAIN TILES ENCOUNTERED DURING CONSTRUCTION AS SPECIFIED OR AT A MINIMUM TO ALLOW FLOW USING LIKE MATERIAL IN NEW CONDITION WITH CITY APPROVED CONNECTIONS. CONTRACTOR SHALL RECORD EXISTING TYPE, SIZE, LOCATION, AND DEPTH OF ALL FIELD/DRAIN TILES ENCOUNTERED AND REPAIRED DURING CONSTRUCTION. PROVIDE DATA TO THE CITY FOR INCORPORATION INTO RECORD DRAWINGS.

EROSION CONTROL NOTES

- CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL EXISTING AND CONSTRUCTED DRAINAGE CHANNELS AND DRAINAGE STRUCTURES. CONTRACTOR IS LIABLE FOR ALL DAMAGE TO PUBLIC OR PRIVATE PROPERTY CAUSED BY THEIR ACTION OR INACTION IN THE HANDLING OF STORMWATER FLOWS DURING CONSTRUCTION. EXTRA GRADING WORK NECESSARY TO MAINTAIN POSITIVE DRAINAGE WITHIN THE CONSTRUCTION LIMITS IS CONSIDERED INCIDENTAL TO CONSTRUCTION OR RELATED BID ITEMS.

PRELIMINARY
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NO.	REVISION	DATE
B	60% PLANS	05-10-24
A	30% PLANS	01-08-24

Shoemaker Haaland

OWNER

CITY OF IOWA CITY
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PROJECT
IOWA RIVER TRAIL
BRIDGE REPLACEMENT

SHEET TITLE
LEGEND, UTILITY CONTACTS,
AND NOTES

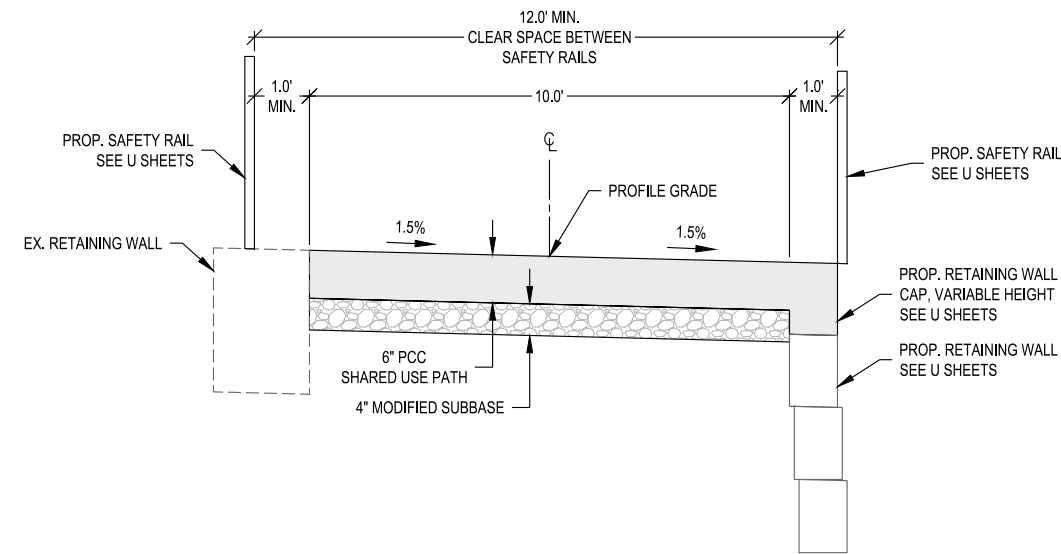
PROJECT NUMBER:
23184
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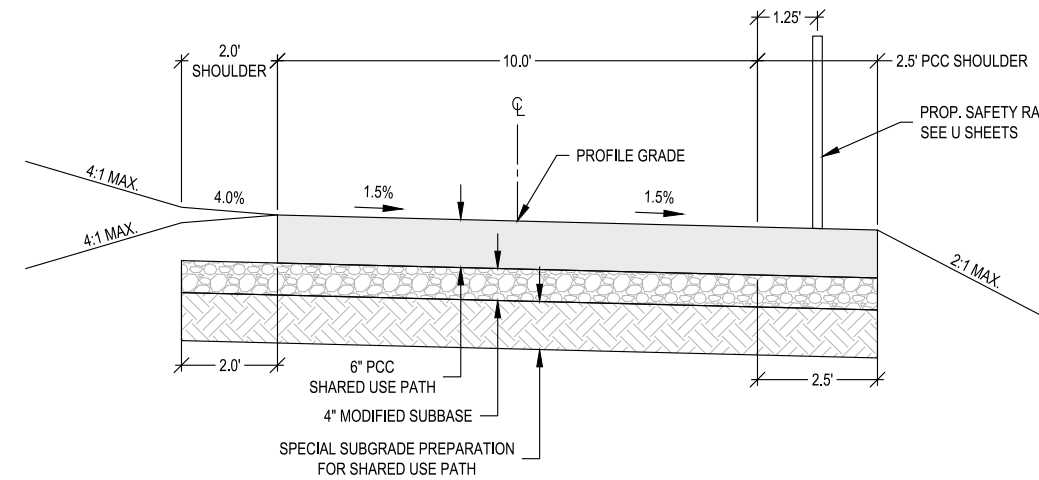
- NOTES:
 1. TRANSVERSE JOINTS: 'C' AT 10' SPACING
 2. TRIM TREES AND VEGETATION TO PROVIDE A MINIMUM 10' VERTICAL CLEARANCE.



TYPICAL CROSS SECTION - IOWA RIVER TRAIL

STA. 503+90.51 TO STA. 504+80.05

1
B.01



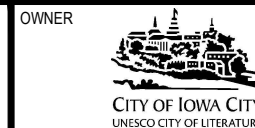
TYPICAL CROSS SECTION - IOWA RIVER TRAIL

STA. 501+54.11 TO STA. 504+06.89
 STA. 504+73.57 TO STA. 505+32.86

2
B.01

PRELIMINARY
 NOT FOR CONSTRUCTION

NO.	REVISION	DATE
B	60% PLANS	05-10-24
A	30% PLANS	01-08-24



OWNER
 PROJECT
 IOWA RIVER TRAIL
 BRIDGE REPLACEMENT

SHEET TITLE
 TYPICAL SECTIONS

PROJECT NUMBER:
23184
 ISSUED DATE: PRELIMINARY
 DRAWN BY: KJB
 CHECK BY: JTL
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2:20:23 PM I:\RIVER TRAIL\AT\CDRAWINGS\23184\B.01.DWG, B.01, 5/10/2024 4:02:20 PM

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2:2023/10/14 RIVER TRAIL AT DOORAWINGS/2184.C01.DWG, C.01, 5/10/2024 5:00:41 PM

Item No.	Item Code	Bid Item	Units	Total Quantity
1	0000-999-A	Structural Steel	LB	4045
2	0000-999-B	Bridge Decking	EA	80
3	2010-C	Clearing and Grubbing	LS	1
4	2010-D-3	Topsoil, Off-site	CY	188
5	2010-E	Excavation, Class 13	CY	55
6	2010-J	Subbase, Modified, 4"	SY	1059.15
7	4020-A-1	Storm Sewer, Trenched, PVC, 6"	LF	12
8	7020-A	Pavement, Asphalt, Base, 1/2", PG 58-28S, ST	TON	159
9	7020-I	Asphalt Pavement Samples and Testing	LS	1
10	7030-A-1	Removal of Sidewalk	SY	14.50
11	7030-A-2	Removal of Shared Use Path	SY	418.04
12	7030-C	Shared Use Path, PCC, 6"	SY	575.18
13	7030-D	Special Subgrade Preparation for Shared Use Path	SY	575.18
14	7030-E	Sidewalk, PCC, 6"	SY	14.50
15	7040-H	Pavement Removal	SY	461.20
16	8030-A	Temporary Traffic Control	LS	1
17	9010-B	Hydraulic Seeding, Seeding, Fertilizing, and Mulching, Type 1	AC	0.18
18	9040-D-1	Filter Sock, 12"	LF	532
19	9040-D-2	Filter Socks, Removal	LF	532
20	9040-J	Rip Rap, Class E	TON	9.16
21	9040-O-1	Stabilized Construction Entrance	SY	278
22	9040-T-1	Inlet Protection Device, Surface-Applied	EA	1
23	9040-T-2	Inlet Protection Device, Maintenance	EA	1
24	9060-E	Removal of Fence	LF	248
25	9071-A	Segmental Block Retaining Wall	SF	895
26	9071-C	Granular Backfill Material	TON	311
27	9080-C	Safety Rail	LF	514
28	10,010-A	Demolition Work	LS	1
29	11,010-A	Construction Survey	LS	1
30	11,020-A	Mobilization	LS	1
31	11,050-A	Concrete Washout	LS	1

Item No.	Item Code	Description
1	0000-999-A	Structural Steel A. Description, materials, method of measurement, and basis of payment shall be per Iowa DOT Standard Specification Section 2408. Suppliers need not be approved by the Iowa DOT.
2	0000-999-B	Bridge Decking A. Includes furnishing and installing hold down bolts as detailed on Sheet V.01.
3	2010-C	Clearing and Grubbing A. Contractor may spray existing vegetation on the river bank as needed. B. Item includes clearing and grubbing for retaining wall repairs. See C Sheets for tabulation and D Sheets for plan.
4	2010-D-3	Topsoil, Off-site A. Item is for all seeded areas.
5	2010-E	Excavation, Class 13 A. Item excludes pavement removals and excavation necessary for bridge removal work included in Item 10,010-A. B. Item includes flowable fill used to fill void below existing trail pavement. See D Sheet for plan.
6	2010-J	Subbase, Modified, 4" A. See B Sheet for typical sections. B. Item is for subbase beneath the shared use path, sidewalk, and asphalt pavement.
7	4020-A-1	Storm Sewer, Trenched, PVC, 6" A. See M Sheet for plan.
8	7020-A	Pavement, Asphalt, Base, 1/2", PG 58-28S, ST A. See D Sheet for plan.
9	7020-I	Asphalt Pavement Samples and Testing A. Contractor is responsible for samples and testing.
10	7030-A-1	Removal of Sidewalk A. See C Sheet for removals plan.
11	7030-A-2	Removal of Shared Use Path A. See C Sheet for removals plan.
12	7030-C	Shared Use Path, PCC, 6" A. See B Sheet for typical section and D Sheet for plan.
13	7030-D	Special Subgrade Preparation for Shared Use Path A. Item is for all new shared use path. See B Sheet for typical section.
14	7030-E	Sidewalk, PCC, 6" A. See D Sheet for plan.
15	7040-H	Pavement Removal A. See C Sheet for removals plan.
16	8030-A	Temporary Traffic Control A. See J Sheet for plan.
17	9010-B	Hydraulic Seeding, Seeding, Fertilizing, and Mulching, Type 1 A. See R Sheet for plan.

Item No.	Item Code	Description
18	9040-D-1	Filter Sock, 12" A. See R Sheet for plan. Item shall be used to properly control erosion and sediment within the project limits.
19	9040-D-2	Filter Socks, Removal
20	9040-J	Rip Rap, Class E A. See R Sheet for plan. Depth shall be 2.0'. B. Item includes engineering fabric to be installed beneath the rip rap.
21	9040-O-1	Stabilized Construction Entrance A. See J Sheet for plan. Item shall only be installed within easement limits as shown on the H Sheet.
22	9040-T-1	Inlet Protection Device, Surface-Applied A. See R Sheet for plan.
23	9040-T-2	Inlet Protection Device, Maintenance
24	9060-E	Removal of Fence A. See C Sheet for removals plan. Item excludes removal of fence within the bridge removal limits.
25	9071-A	Segmental Block Retaining Wall A. See U Sheets for plan, profile, and details. B. Block color shall match the existing blocks. Owner must approve the block selection prior to construction. C. Item includes all backfill material and installation necessary for wall construction. D. Item includes installation of salvaged blocks for retaining wall repairs. Also includes all material furnishing and repairs for retaining wall repairs. E. Leveling pad shall be granular material.
26	9071-C	Granular Backfill Material A. Item is for new retaining wall backfill including below leveling pad.
27	9080-C	Safety Rail A. See D and U Sheets for plan and details. B. Rail shall be galvanized and not painted.
28	10,010-A	Demolition Work A. Item includes removal of existing trail bridge and removal of other items necessary for bridge removal. This includes but is not limited to: abutments, piles, retaining walls, and fence. B. Item includes excavation required to remove the bridge. C. Item includes removal of existing retaining wall at the existing trail bridge and for retaining wall repairs. D. Item includes removal of existing 3"x12" deck planks on the railroad bridge. E. Item includes removal of top of existing concrete wall at Kelly's Auto. See U Sheets.
29	11,010-A	Construction Survey A. Item covers pavement, pavement removals, segmental block retaining wall, safety rail, and rip rap.
30	11,020-A	Mobilization
31	11,050-A	Concrete Washout

PRELIMINARY
NOT FOR CONSTRUCTION

NO.	REVISION	DATE
B	60% PLANS	05-10-24
A	30% PLANS	01-08-24



OWNER
PROJECT
IOWA RIVER TRAIL
BRIDGE REPLACEMENT

SHEET TITLE
QUANTITIES AND
ESTIMATE REFERENCE
INFORMATION

PROJECT NUMBER:
23184
ISSUED DATE: PRELIMINARY
DRAWN BY: KJB
CHECK BY: JTL
APPROVED BY: GFF

SHEET NUMBER
C.01



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2:02:23:18:14: RIVER TRAIL AT DQDRAININGS2184.C01.DWG, C:02, 5/10/2024 5:01:15 PM

STORM SEWER, TRENCHED									
BID ITEM: 4020-A-1									
Number	Pipe	Size	Material	Grade	US Structure	DS Structure	US Flow Line	DS Flow Line	Length (LF)
1	ST P-1	6"	PVC	1.00%	Ex. Pipe	N/A	633.90	633.85	12
TOTAL									12

PAVEMENT, ASPHALT				
BID ITEM: 7020-A				
Number	Start Station	End Station	Side	Area (SY)
1	502+11.04	502+35.85	L	27.89
2	502+08.58	502+20.60	L	412.75
3	504+73.73	505+03.59	L	28.83
TOTAL (SY)				469.47
TOTAL (TON)				159

REMOVAL OF SIDEWALK					
BID ITEM: 7030-A-1					
Number	Start Station	End Station	Side	Width	Area (SY)
1	502+09.44	502+33.69	L	4'	14.50
TOTAL					14.50

REMOVAL OF SHARED USE PATH					
BID ITEM: 7030-A-2					
Number	Location	Start Station	End Station	Side	Area (SY)
1	Between Bridges	501+54.11	504+01.30	B	354.48
2	North of Removed Bridge	504+75.48	505+32.86	B	63.56
TOTAL					418.04

SHARED USE PATH					
BID ITEM: 7030-C					
Number	Start Station	End Station	Side	Width	Area (SY)
1	501+54.11	505+32.86	B	VARIABLE	575.18
TOTAL					575.18

SIDEWALK, PCC, 6"					
BID ITEM: 7030-E					
Number	Start Station	End Station	Side	Width	Area (SY)
1	502+09.44	502+33.69	L	4'	14.50
TOTAL					14.50

PAVEMENT REMOVAL					
BID ITEM: 7040-H					
Number	Location	Start Station	End Station	Side	Area (SY)
1	Dairy Queen Parking Lot	502+11.04	502+35.85	L	27.89
2	Dairy Queen Parking Lot	502+08.58	502+20.60	L	412.75
3	Kelly's Auto Parking Lot	504+73.73	504+97.74	L	20.56
TOTAL					461.20

FILTER SOCK, 12"					
BID ITEMS: 9040-D-1 AND 9040-D-2					
Number	Start Station	Offset	End Station	Offset	Length (FT)
1	501+30.69	161.03' L	501+42.37	10.88' L	171
2	501+41.77	5.20' R	503+89.79	8.73' R	251
3	504+86.49	7.44' R	505+92.92	4.91' R	110
TOTAL					532

RIP RAP, CLASS E				
BID ITEM: 9040-J				
Number	Start Station	End Station	Side	Weight (TON)
1	503+91.14	504+77.97	R	9.16
TOTAL				9.16

INLET PROTECTION DEVICE, SURFACE-APPLIED				
BID ITEMS: 9040-T-1 AND 9040-T-2				
Number	Location	Structure ID	Station	Offset
1	Kelly's Auto	Ex. Intake	504+46.45	9.34' L

REMOVAL OF FENCE					
BID ITEM: 9060-E					
Number	Start Station	Offset	End Station	Offset	Length (FT)
1	501+43.81	5.96' L	501+79.73	8.18' L	35
2	501+62.00	10.08' R	502+07.36	10.20' R	49
3	503+36.28	10.32' R	504+00.81	4.49' R	67
4	504+75.94	4.60' R	505+69.84	8.56' R	97
TOTAL					248

SAFETY RAIL					
BID ITEM: 9080-C					
Number	Start Station	Offset	End Station	Offset	Length (FT)
1	501+44.16	5.80' L	501+79.55	7.00' L	35
2	501+44.23	5.19' R	505+69.84	8.56' R	428
3	504+22.92	6.45' L	504+73.35	6.45' L	51
TOTAL					514

RETAINING WALL REPAIRS						
BID ITEMS: 2010-C, 9071-A, 10,010-A						
Number	Station	Side	Blocks	Cap Blocks	Area (SF)	Notes
1	501+96	R	20	8	24	Tree, vegetation
2	505+10	R	16	9	20.5	Tree, stump
3	505+35	R	20	8	24	Tree, two stumps, vegetation
4	505+59	R	8.5	2.5	9.75	Vegetation
TOTAL					78.25	

PRELIMINARY
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B	60% PLANS	05-10-24
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NO.	REVISION	DATE



OWNER
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BRIDGE REPLACEMENT

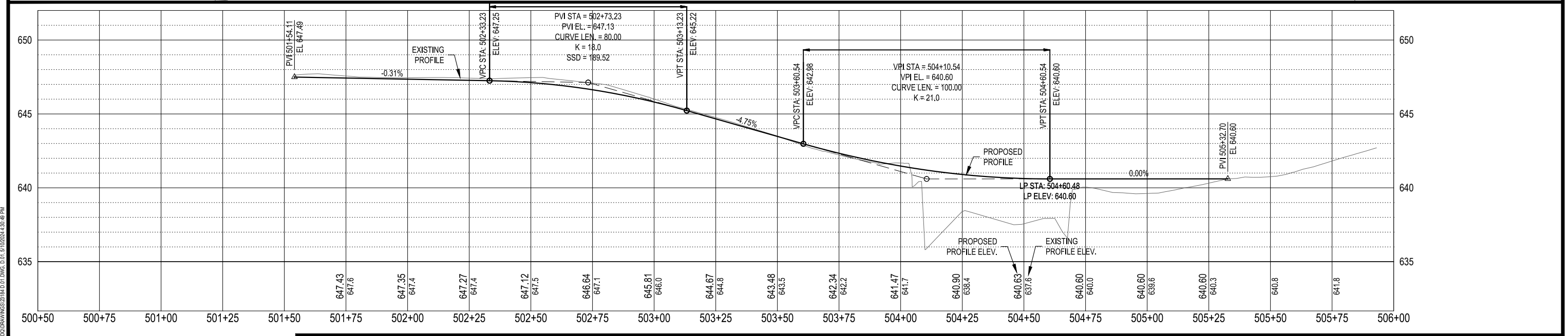
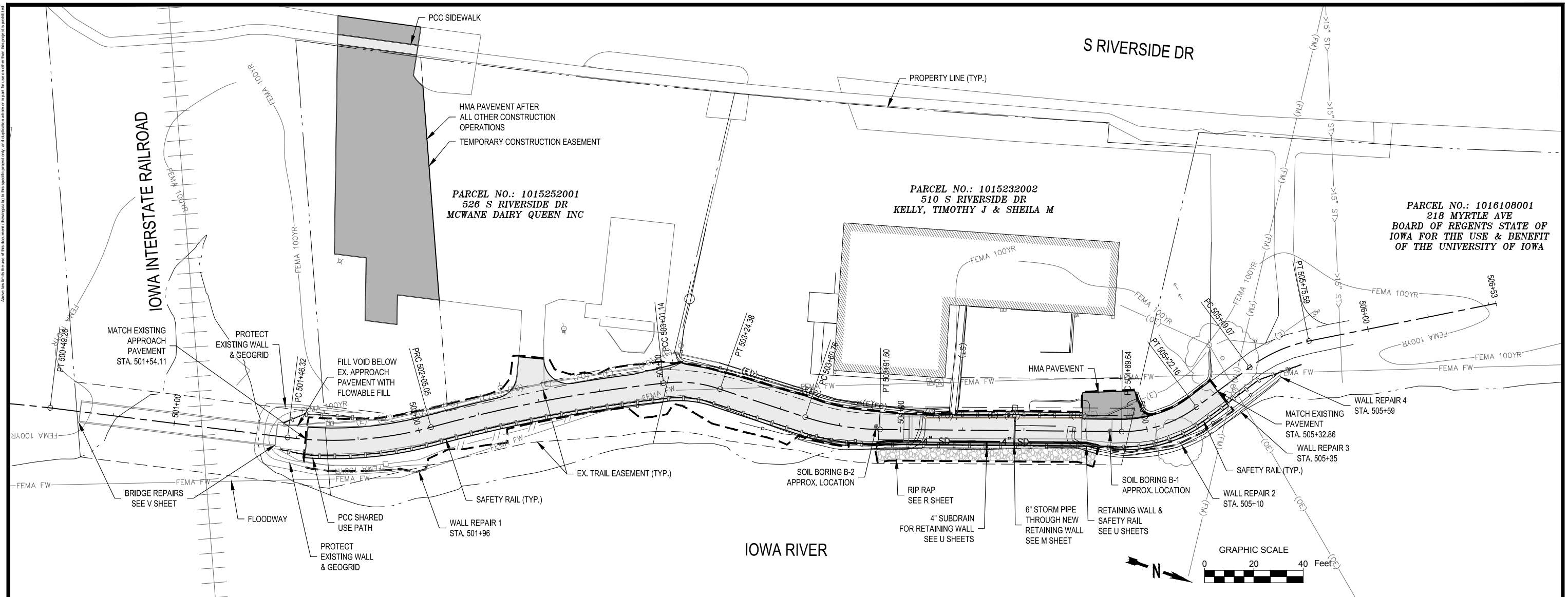
SHEET TITLE
TABULATIONS

PROJECT NUMBER:
23184
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APPROVED BY: GFF

SHEET NUMBER
C.02



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2:20231818-A RIVER TRAIL AT COORAWINGS2184.DWG, D:01, 15/10/2024 4:30:08 PM

PRELIMINARY
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B	60% PLANS	05-10-24
A	30% PLANS	01-08-24



OWNER

 CITY OF IOWA CITY
 UNESCO CITY OF LITERATURE

PROJECT
 IOWA RIVER TRAIL
 BRIDGE REPLACEMENT

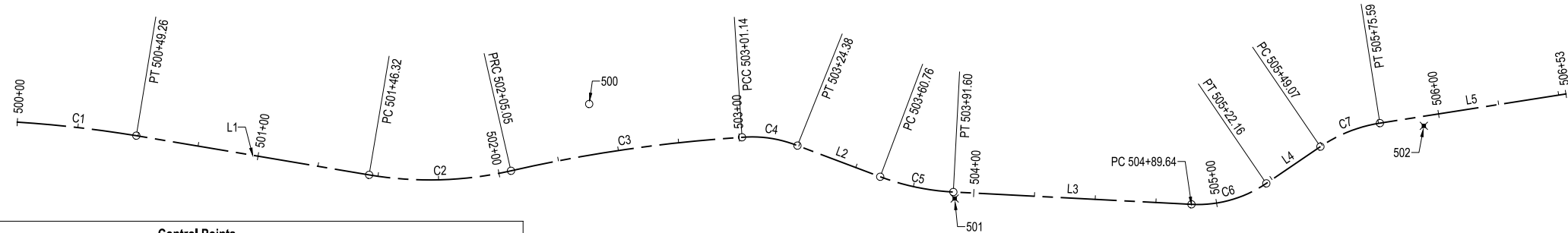
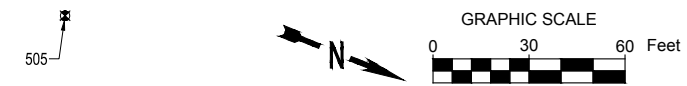
SHEET TITLE
 IOWA RIVER TRAIL
 PLAN AND PROFILE

PROJECT NUMBER:
23184
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SHEET NUMBER
D.01



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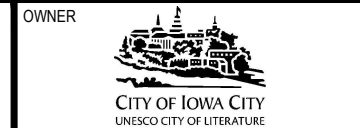
Control Points				
Point No.	Northing	Easting	Elevation	Description
500	608276.739	2176070.085	647.55	SET 5/8" REBAR
501	608431.937	2176066.443	641.60	CUT X
502	608609.334	2175984.980	642.62	CUT X
505	608554.636	2175800.728	651.45	FOUND MAG NAIL

Iowa River Trail																		
Number	Type	Length	Radius	Start Station	End Station	Delta Angle	Chord Length	Chord Direction	Start Direction	End Direction	Mid-Ordinate	External Tangent	External Secant	PI Included Angle	PI Station	Start Point	End Point	PI Point
C1	Curve	49.261'	500.00'	500+00	500+49.26	005.6449 (d)	49.24'	N09° 20' 58.74"W	N12° 10' 19.59"W	N06° 31' 37.90"W	0.61	24.65'	0.61'	174.3551 (d)	500+24.65'	N = 608052.60 E = 2176141.47	N = 608101.18 E = 2176133.47	N = 608076.69 E = 2176136.28
L1	Line	97.056'		500+49.26	501+46.32											N = 608101.18 E = 2176133.47	N = 608197.66 E = 2176122.86	
C2	Curve	58.729'	150.00'	501+46.32	502+05.05	022.4330 (d)	58.35'	N17° 29' 42.98"W	N06° 16' 43.67"W	N28° 42' 42.29"W	2.87	29.75'	2.92'	157.5670 (d)	501+76.06'	N = 608197.66 E = 2176122.86	N = 608253.31 E = 2176105.32	N = 608227.23 E = 2176119.61
C3	Curve	96.092'	598.72'	502+05.05	503+01.14	009.1958 (d)	95.99'	N24° 06' 49.78"W	N28° 42' 42.29"W	N19° 30' 57.27"W	1.93	48.15'	1.93'	170.8042 (d)	502+53.20'	N = 608253.31 E = 2176105.32	N = 608340.93 E = 2176066.10	N = 608295.54 E = 2176082.19
C4	Curve	23.243'	50.00'	503+01.14	503+24.38	026.6343 (d)	23.03'	N07° 19' 24.49"W	N20° 38' 26.17"W	N05° 59' 37.19"E	1.34	11.84'	1.38'	153.3657 (d)	503+12.97'	N = 608340.93 E = 2176066.10	N = 608363.77 E = 2176063.16	N = 608352.00 E = 2176061.93
L2	Line	36.377'		503+24.38	503+60.76											N = 608363.77 E = 2176063.16	N = 608400.02 E = 2176066.20	
C5	Curve	30.841'	100.00'	503+60.76	503+91.60	017.6704 (d)	30.72'	N04° 02' 43.85"W	N04° 47' 22.81"E	N12° 52' 50.51"W	1.19	15.54'	1.20'	162.3296 (d)	503+76.30'	N = 608400.02 E = 2176066.20	N = 608430.66 E = 2176064.03	N = 608415.51 E = 2176067.50
L3	Line	98.037'		503+91.60	504+89.64											N = 608430.66 E = 2176064.03	N = 608526.24 E = 2176042.18	
C6	Curve	32.524'	50.04'	504+89.64	505+22.16	037.2368 (d)	31.95'	N31° 30' 26.36"W	N12° 53' 20.06"W	N50° 07' 32.67"W	2.62	16.86'	2.76'	142.7632 (d)	505+06.50'	N = 608526.24 E = 2176042.18	N = 608553.48 E = 2176025.48	N = 608542.67 E = 2176038.42
L4	Line	26.913'		505+22.16	505+49.07											N = 608553.48 E = 2176025.48	N = 608570.75 E = 2176004.84	
C7	Curve	26.518'	60.00'	505+49.07	505+75.59	025.3231 (d)	26.30'	N37° 25' 57.33"W	N50° 05' 38.92"W	N24° 46' 15.74"W	1.46	13.48'	1.50'	154.6769 (d)	505+62.55'	N = 608570.75 E = 2176004.84	N = 608591.63 E = 2175988.85	N = 608579.39 E = 2175994.50
L5	Line	77.416'		505+75.59	506+53.01											N = 608591.63 E = 2175988.85	N = 608661.92 E = 2175956.41	

2:02:23:18 IA RIVER TRAIL AT COOR DRAWINGS 2/14/24 01:20:00 G.01 5/10/2024 4:12:30 PM

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B	60% PLANS	05-10-24
A	30% PLANS	01-08-24



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PROJECT
IOWA RIVER TRAIL
BRIDGE REPLACEMENT

SHEET TITLE
ALIGNMENT AND CONTROL POINTS

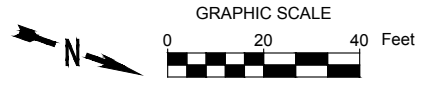
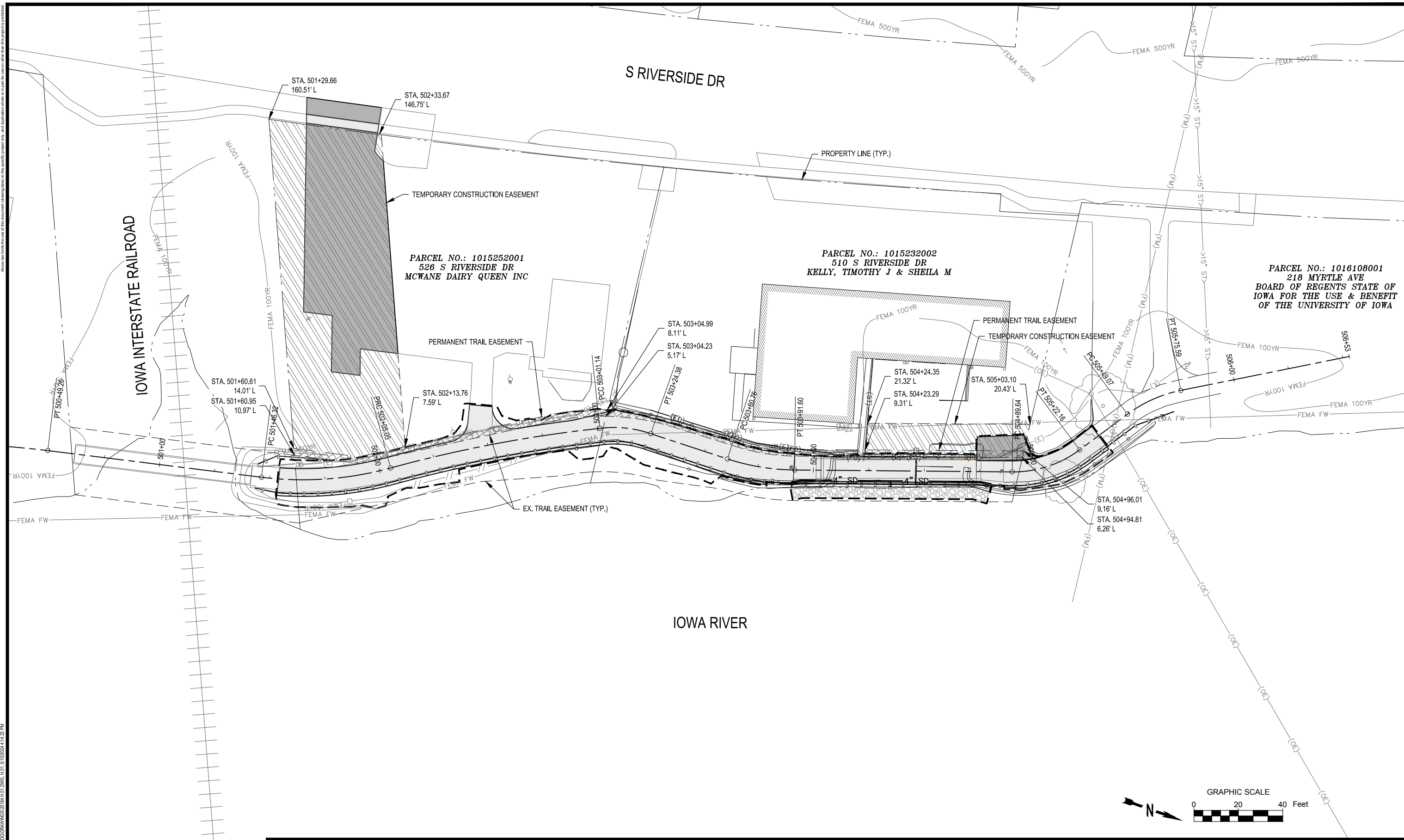
PROJECT NUMBER:
23184
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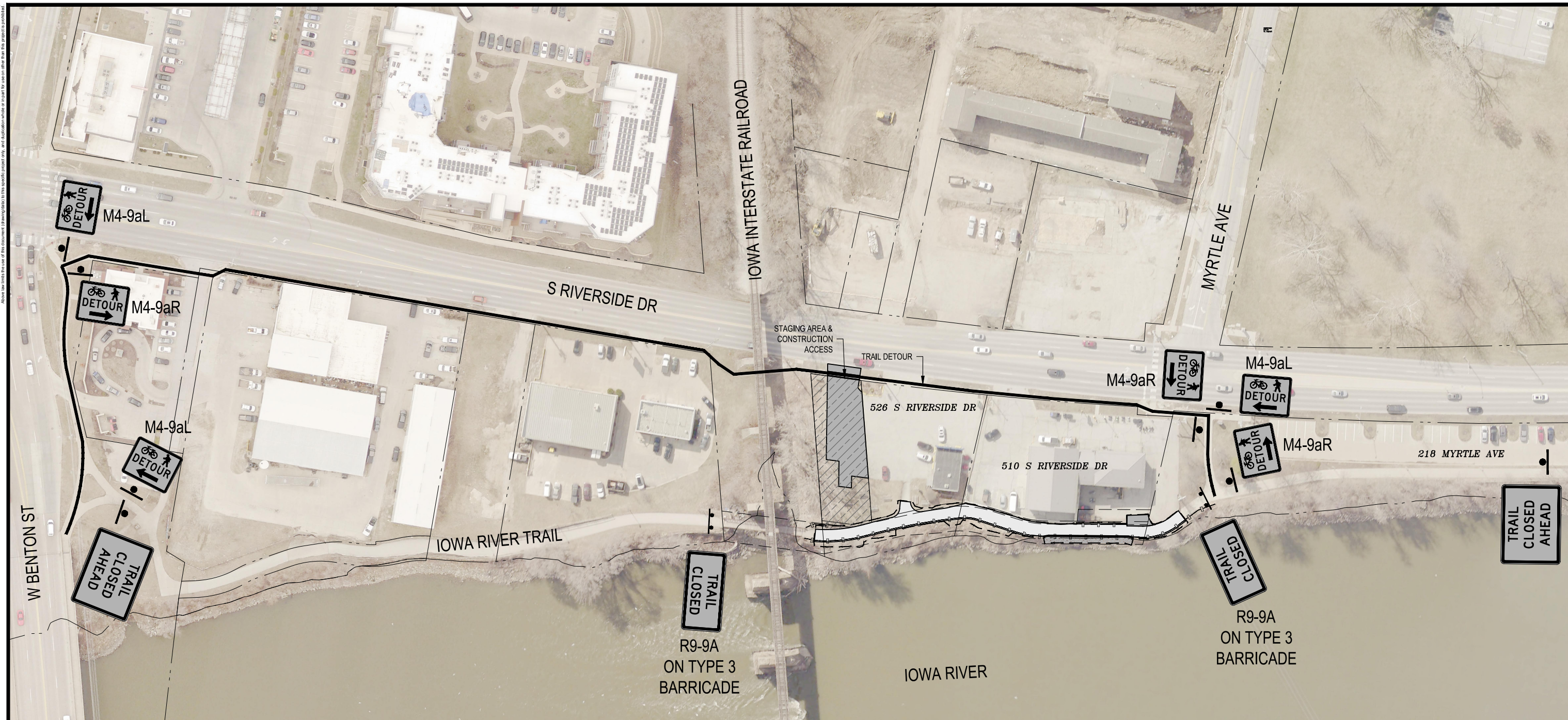
PROJECT
 IOWA RIVER TRAIL
 BRIDGE REPLACEMENT

SHEET TITLE
 RIGHT OF WAY

PROJECT NUMBER:
23184
 ISSUED DATE: PRELIMINARY
 DRAWN BY: KJB
 CHECK BY: JTL
 APPROVED BY: GFF

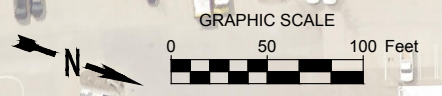
SHEET NUMBER
H.01


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- TRAFFIC CONTROL NOTES:**
- CONTRACTOR SHALL EMPLOY SOUND PRACTICES OF SAFETY AND TRAFFIC CONTROL. THESE METHODS AND PRACTICES SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
 - THE CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL WITH OTHER PROJECTS IN THE AREA.
 - ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.
 - SIGNAGE SHALL BE IN PLACE PRIOR TO CONSTRUCTION.
 - PORTABLE MOUNTINGS FOR WARNING SIGNS MAY BE USED FOR TEMPORARY INSTALLATIONS OF 3 DAYS OR LESS.
 - LONG TERM OR PERMANENT TRAFFIC CONTROL SIGNS THAT CONFLICT WITH SPECIFIC LAYOUTS SHOWN ON THESE PLANS ARE TO BE COVERED AS DIRECTED BY THE PROJECT ENGINEER.
 - THE CITY WILL REMOVE ALL PERMANENT STREET SIGNS CONFLICTING WITH PROPOSED IMPROVEMENTS. CONTRACTOR SHALL PROVIDE MIN. 48 HOUR NOTICE TO CITY WHEN REMOVALS ARE REQUIRED.
 - THE LOCATION FOR STORAGE OF EQUIPMENT BY THE CONTRACTOR DURING NON-WORKING HOURS SHALL BE APPROVED BY THE OWNER. THE CONTRACTOR SHALL PROVIDE A WRITTEN AGREEMENT WITH THE PROPERTY OWNER(S) IF PRIVATE PROPERTY IS USED TO STORE EQUIPMENT.

- STAGING NOTES:**
- CONTRACTOR SHALL COORDINATE OPERATIONS WITH THE CITY OF IOWA CITY.
 - ACCESS TO ALL PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
 - THE IOWA RIVER TRAIL SHALL NOT BE CLOSED AT THE SAME TIME AS ANY PORTION OF THE SIDEWALK ON THE EAST SIDE OF RIVERSIDE DRIVE. CONTRACTOR SHALL STAGE OPERATIONS ACCORDINGLY.
 - PAVEMENT REPLACEMENT AT DAIRY QUEEN (526 S RIVERSIDE DR.) IS DUE TO POTENTIAL DAMAGE FROM CONSTRUCTION ACCESS AND MATERIAL STORAGE. REPLACEMENT MUST OCCUR AFTER OTHER CONSTRUCTION OPERATIONS ARE COMPLETED TO PROVIDE AN UNDAMAGED PARKING LOT SURFACE TO THE PROPERTY OWNER FOLLOWING THE PROJECT'S COMPLETION.
 - THE CONTRACTOR SHALL MOVE ALL EQUIPMENT AND MATERIALS OUTSIDE OF THE FLOODWAY DURING ANY ANTICIPATED DOWNTIME OF 72-HRS OR GREATER IN LENGTH.
 - CONCRETE WASHOUT AND PORTABLE RESTROOM SHALL BE LOCATED OUTSIDE OF THE FLOODWAY.



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NO.	REVISION	DATE
B	60% PLANS	05-10-24
A	30% PLANS	01-08-24



OWNER

 CITY OF IOWA CITY
 UNESCO CITY OF LITERATURE

PROJECT
 IOWA RIVER TRAIL
 BRIDGE REPLACEMENT

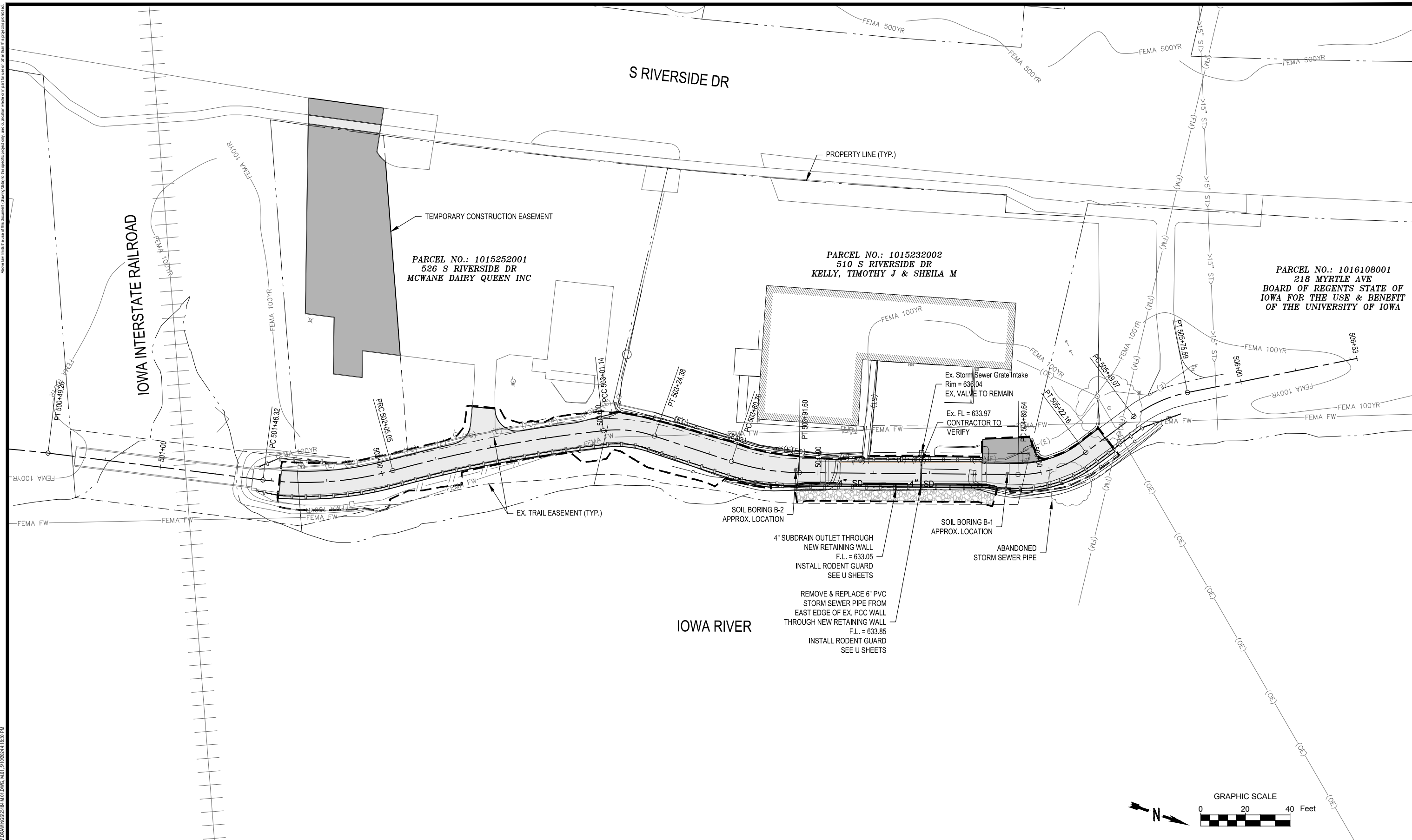
SHEET TITLE
 TRAFFIC CONTROL AND
 STAGING PLAN

PROJECT NUMBER:
23184
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 DRAWN BY: KJB
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 APPROVED BY: GFF

SHEET NUMBER
J.01




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PROJECT
 IOWA RIVER TRAIL
 BRIDGE REPLACEMENT

SHEET TITLE
 STORM SEWER

PROJECT NUMBER:
23184
 ISSUED DATE: PRELIMINARY
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 APPROVED BY: GFF

SHEET NUMBER
M.01


Iowa River Trail Retaining Wall
 510 South Riverside Drive | Iowa City, Iowa
 Terracon Project No. 06235122



Boring Log No. B-1

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 41.6536° Longitude: -91.5399°	Depth (Ft.)	Elevation: 639 (Ft.) +/-	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	Strength Test									
									Test Type	Compressive Strength (tsf)	Strain (%)	Water Content (%)	Dry Unit Weight (pcf)	Percent Fines				
			0.6	638.4														
			0.6 - 2.5	638.4 - 636.5														
			2.5	636.5			16					8.1						
			2.5 - 6.0	636.5 - 633														
			6.0	633			0	2-1-3 N=4				9.6						
			6.0 - 11.0	633 - 628														
			11.0	628			11	4-4-4 N=8				18.2						
			11.0 - 19.0	628 - 620														
			19.0	620			16	4-5-5 N=10				14.6						
			19.0 - 20.5	620 - 618.5														
			20.5	618.5			6	3-2-2 N=4				14.3			11			
			20.5 - 21.0	618.5 - 618.0														
			21.0	618.0			12	SPT = 9-17-50/3"				12.7						
			21.0 - 22.1	618.0 - 616.9								10.6						
			22.1	616.9														

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
 See Supporting Information for explanation of symbols and abbreviations.

Notes
 Elevation Reference: Elevation obtained using IDNR LIDAR Data Elevation Tool
 Classification of rock estimated from disturbed samples. Core samples and petrographic analysis may reveal other rock types.

Water Level Observations
 14" while drilling/sampling
 12" after boring

Drill Rig
 1206 - CME 550X
Hammer Type
 CME Automatic
Driller
 DL
Logged by
 CL
Boring Started
 12-15-2023
Boring Completed
 12-15-2023

Advancement Method
 Hollow Stem Auger

Abandonment Method
 Boring backfilled with auger cuttings upon completion and pavement patched.

Facilities | Environmental | Geotechnical | Materials

Iowa River Trail Retaining Wall
 510 South Riverside Drive | Iowa City, Iowa
 Terracon Project No. 06235122



Boring Log No. B-2

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 41.6534° Longitude: -91.5398°	Depth (Ft.)	Elevation: 639 (Ft.) +/-	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	Strength Test									
									Test Type	Compressive Strength (tsf)	Strain (%)	Water Content (%)	Dry Unit Weight (pcf)	Percent Fines				
			0.3	638.7														
			0.3 - 0.8	638.7 - 638.2														
			0.8	638.2														
			0.8 - 1.8	638.2 - 637.2														
			1.8	637.2														
			1.8 - 2.8	637.2 - 636.2														
			2.8	636.2			13	3-6-4 N=10				19.2			6.8			
			2.8 - 3.5	636.2 - 635.5														
			3.5	635.5			6	UC				2.36			8.9			14.0
			3.5 - 8.5	635.5 - 630.5														
			8.5	630.5			8	1-2-2 N=4							15.4			
			8.5 - 12.0	630.5 - 627														
			12.0	627			8								17.3			117
			12.0 - 19.0	627 - 620														
			19.0	620			14	4-4-5 N=9							2.4			4
			19.0 - 21.0	620 - 617.5														
			21.0	617.5			6	3-1-1 N=2							16.5			
			21.0 - 22.1	617.5 - 616.9														
			22.1	616.9			0.5	SPT = 50/1"										

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
 See Supporting Information for explanation of symbols and abbreviations.

Notes
 Elevation Reference: Elevation obtained using IDNR LIDAR Data Elevation Tool
 Classification of rock estimated from disturbed samples. Core samples and petrographic analysis may reveal other rock types.

Water Level Observations
 17" while drilling/sampling
 13" after boring

Drill Rig
 1206 - CME 550X
Hammer Type
 CME Automatic
Driller
 DL
Logged by
 CL
Boring Started
 12-15-2023
Boring Completed
 12-15-2023

Advancement Method
 Hollow Stem Auger

Abandonment Method
 Boring backfilled with auger cuttings upon completion and pavement patched.

Facilities | Environmental | Geotechnical | Materials

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NO.	REVISION	DATE
B	60% PLANS	05-10-24
A	30% PLANS	01-08-24



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PROJECT
 IOWA RIVER TRAIL
 BRIDGE REPLACEMENT

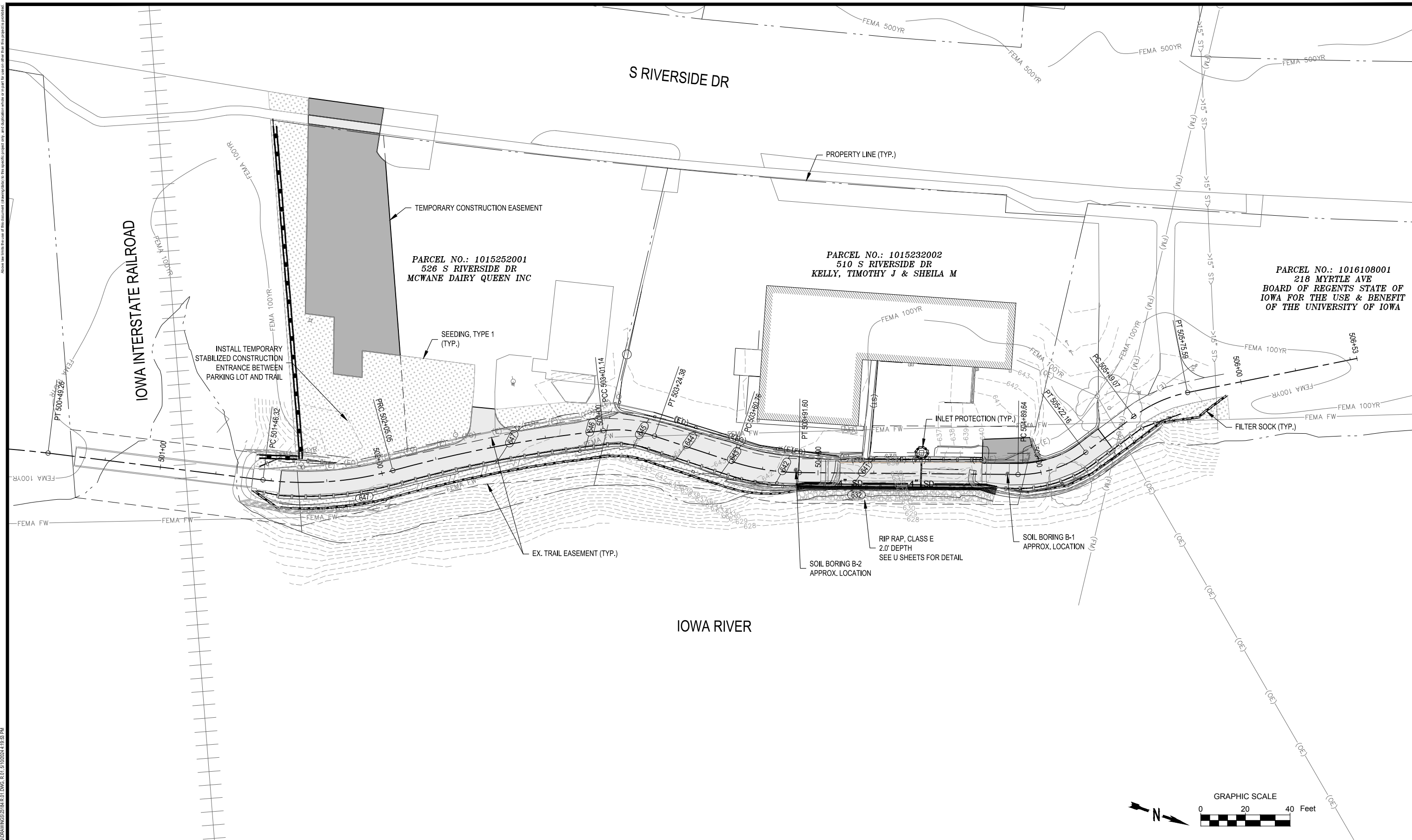
SHEET TITLE
 SOIL BORING LOGS

PROJECT NUMBER:
23184
 ISSUED DATE: PRELIMINARY
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SHEET NUMBER
Q.01

2:02:23 PM IOWA RIVER TRAIL AT C:\DRAWINGS\23184\Q.01.DWG, C:\I:\02024\4:18:58 PM
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PROJECT
 IOWA RIVER TRAIL
 BRIDGE REPLACEMENT

SHEET TITLE
 EROSION CONTROL PLAN

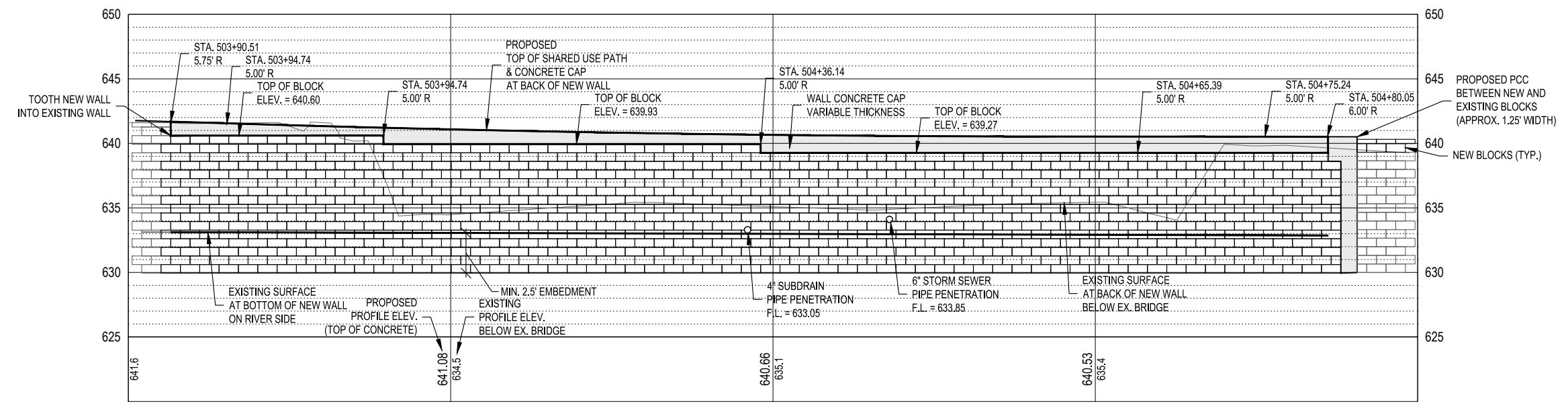
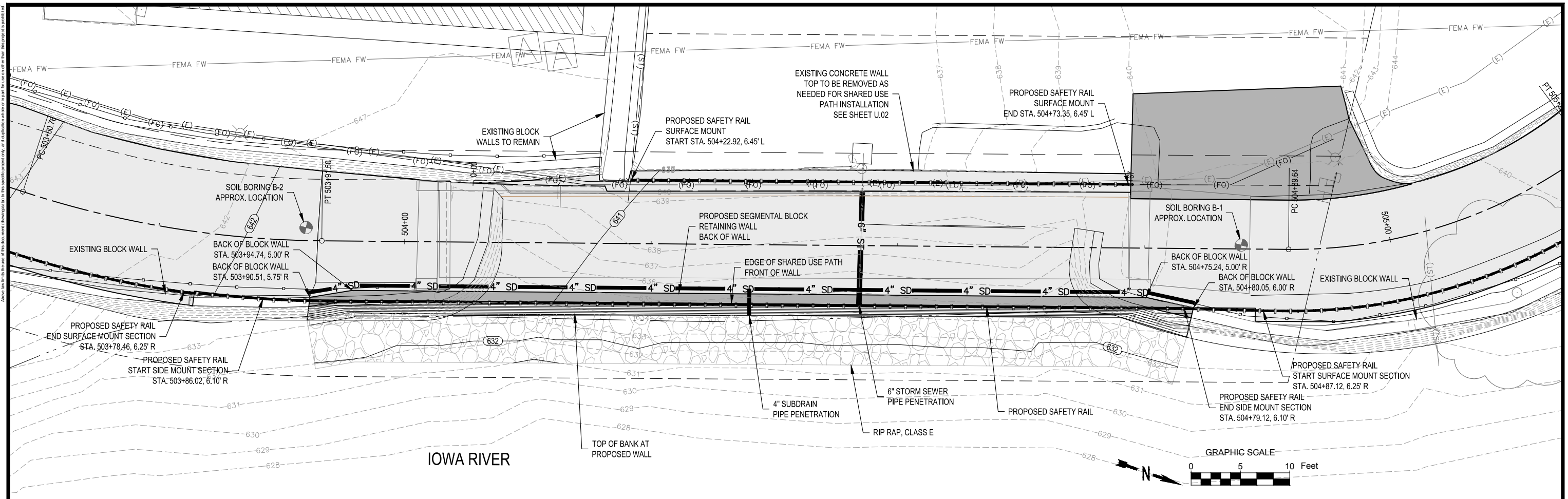
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SHEET NUMBER
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PROJECT
IOWA RIVER TRAIL
BRIDGE REPLACEMENT

SHEET TITLE
RETAINING WALL
PLAN AND PROFILE

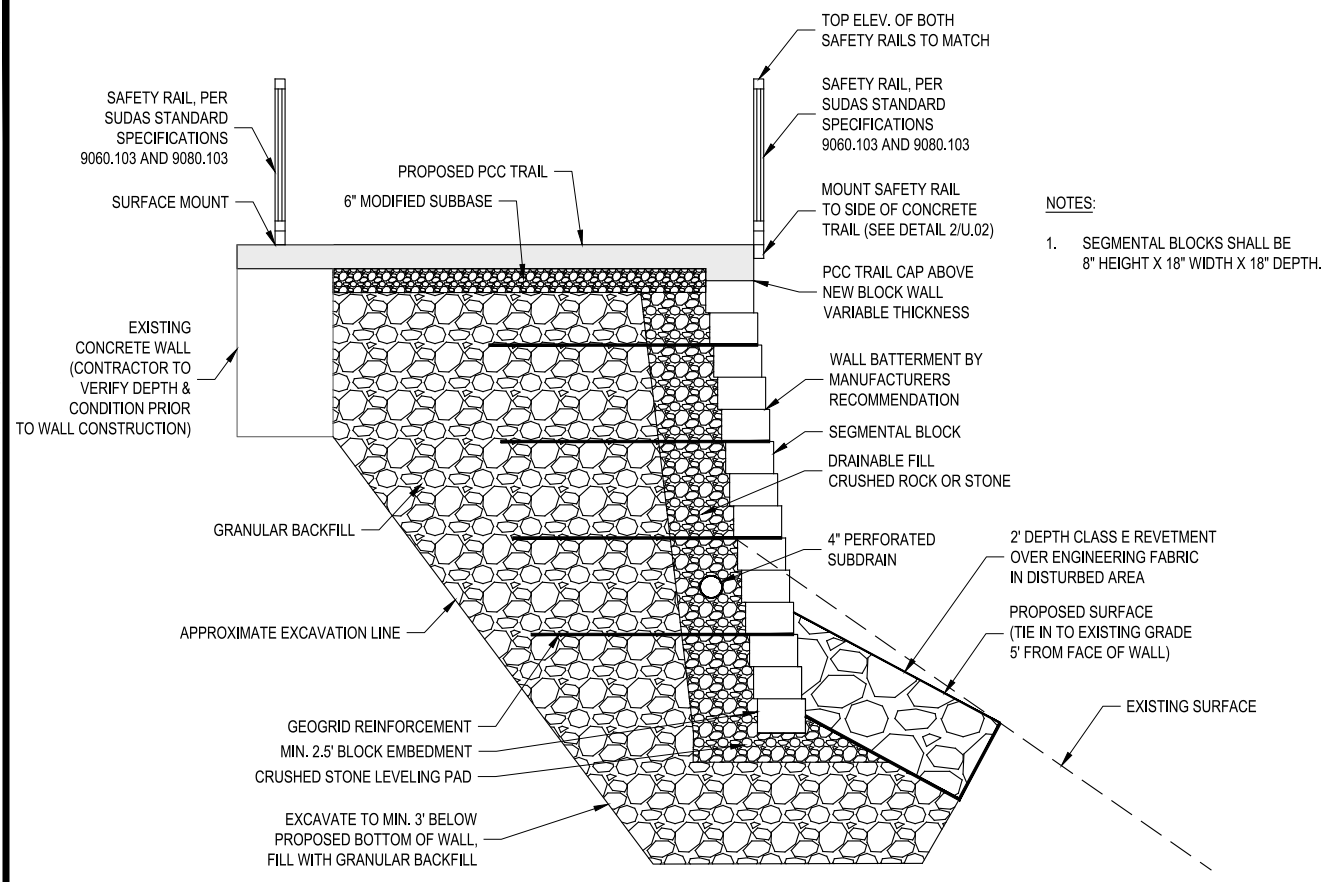
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U.01

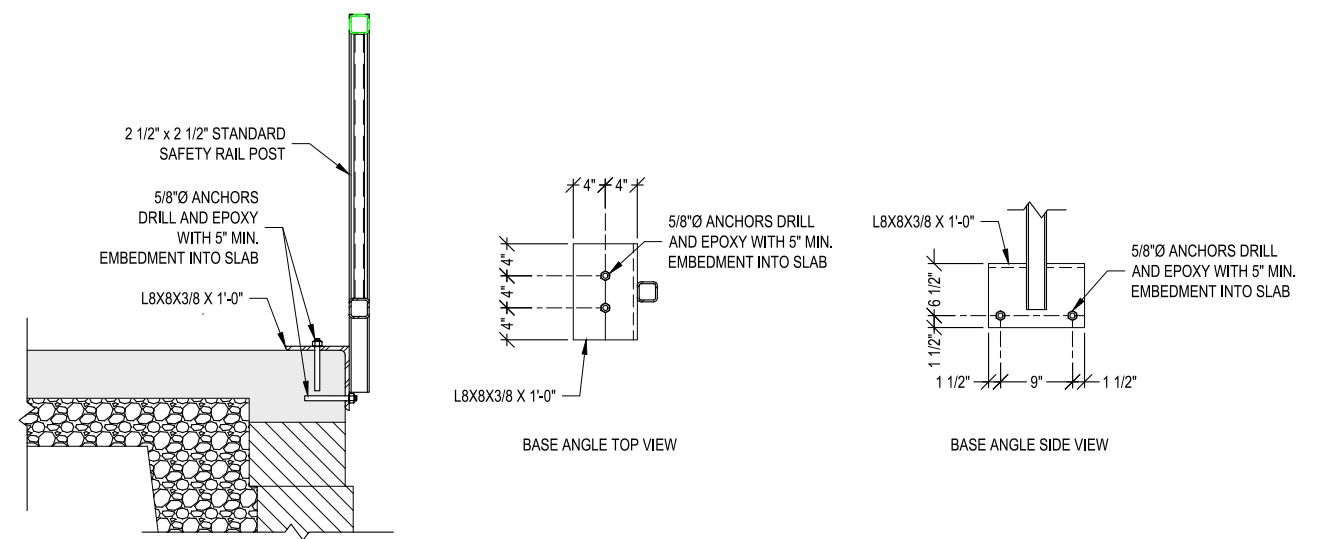


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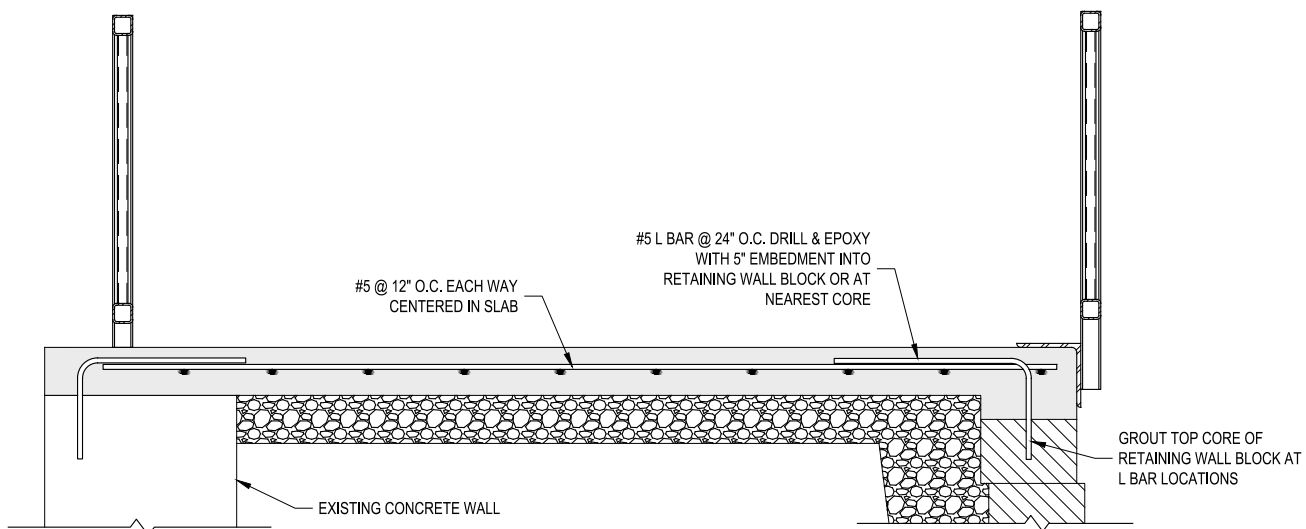


NOTES:
 1. SEGMENTAL BLOCKS SHALL BE 8" HEIGHT X 18" WIDTH X 18" DEPTH.

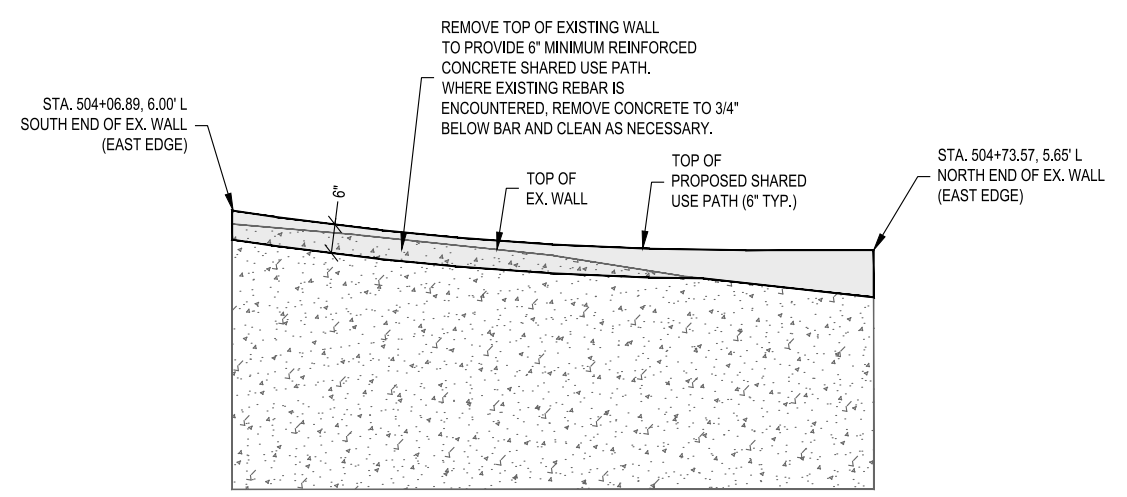
SEGMENTAL BLOCK RETAINING WALL
 NOT TO SCALE
 1
 U.02



SAFETY RAIL SIDE MOUNT
 NOT TO SCALE
 2
 U.02



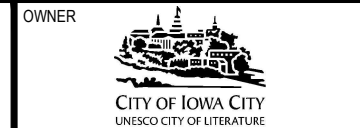
REINFORCED SHARED USE PATH
 NOT TO SCALE
 3
 U.02



SHARED USE PATH OVER EXISTING PCC WALL
 NOT TO SCALE
 4
 U.02

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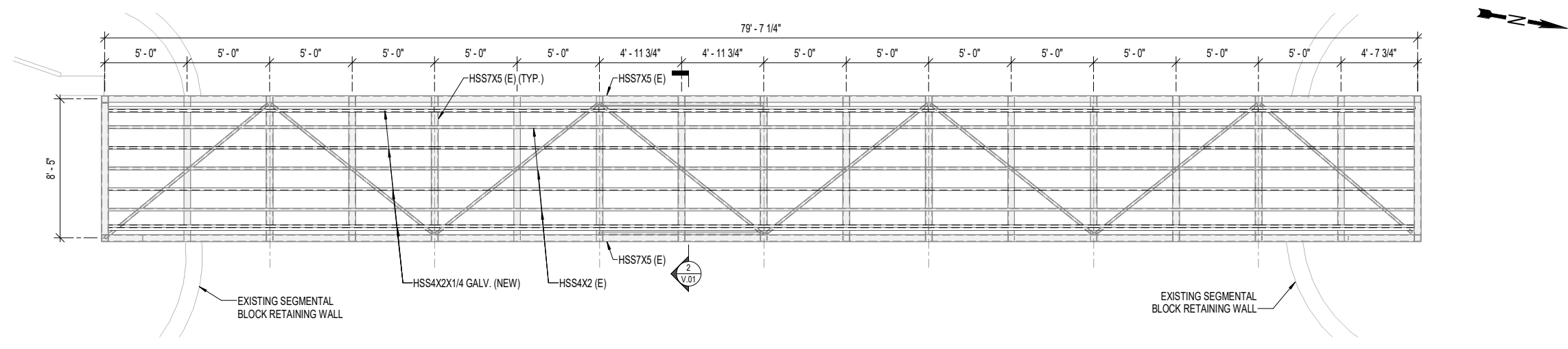
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 PROJECT
 IOWA RIVER TRAIL
 BRIDGE REPLACEMENT

SHEET TITLE
 RETAINING WALL
 DETAILS

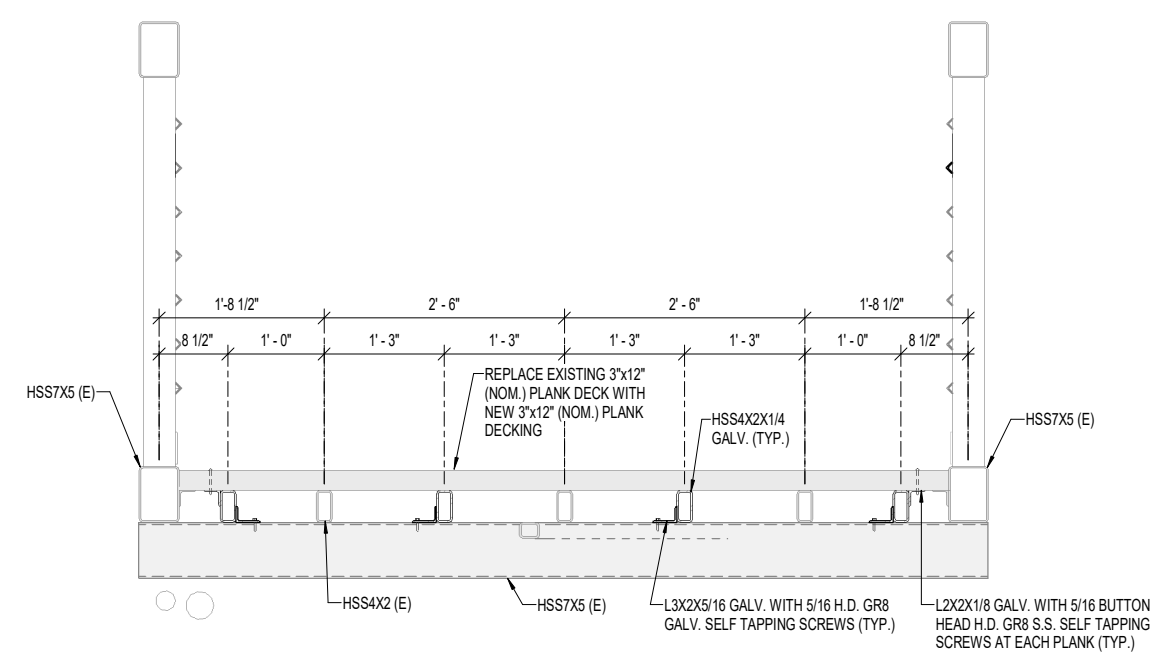
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 23184
 ISSUED DATE: PRELIMINARY
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 CHECK BY: JTL
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SHEET NUMBER
 U.02
 REV

5/10/2024 1:53:37 PM R:\Projects\2023\23184 - Iowa River Ped Bridge DQ_Models\23184.rvt
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1 BRIDGE FLOOR FRAMING PLAN
1/4" = 1'-0"



- NOTES:
1. CONNECTION ANGLE REQUIRED ON EVERY OTHER CROSS MEMBER AND EACH END. WHERE ABUTTING HSS4x2 STRINGERS ARE INSTALLED, ALTERNATE CONNECTION SIDE.
 2. CONTRACTOR OPTION TO PROVIDE 2" GROOVE WELD ON ONE SIDE OF NEW HSS4x2 STRINGERS IN LIEU OF SELF TAPPING SCREWS. WELDING CAN BE COMPLETED AS OUTLINED IN NOTE 1.

2 BRIDGE CROSS SECTION
1" = 1'-0"


STEEL NOTES:

1. ALL STRUCTURAL STEEL EXCEPT AS NOTED, SHALL CONFORM TO ASTM A709 GRADE 50. THE MINIMUM YIELD POINT FOR GRADE 50 STRUCTURAL STEEL IS 50 KSI FOR PLATES 4 INCHES AND UNDER IN THICKNESS AND ALL STRUCTURAL SHAPES. SEE GENERAL NOTES FOR PAINTING.
2. CHARPY V-NOTCH TOUGHNESS REQUIREMENTS IN ACCORDANCE WITH ARTICAL 4152.02 OF THE STANDARD SPECIFICATIONS APPLY TO ALL CROSS FRAMES AND CCONNECTION STIFFENERS AT CROSS FRAMES.
3. ALL STEEL TO BE HOT DIP GALVANIZED PER IOWA D.O.T. STANDARDS.
4. DECK NOTES:
CITY TO MARK EXISTING BOARDS TO SALVAGED PRIOR TO START OF CONSTRUCTION. CONTRACTOR TO SALVAGE AND DELIVER BOARDS TO CITY.
DECK TO BE 3" NOMINAL DOUGLAS FIR SELECT, STRUCTURAL, TREATED. ROUGH SIDE SHALL BE PLACED UP.

PRELIMINARY
NOT FOR CONSTRUCTION

NO.	REVISION	DATE
B	60% PLANS	05-10-24
A	30% PLANS	01-08-24


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PROJECT
 IOWA RIVER TRAIL
 BRIDGE REPLACEMENT

SHEET TITLE
 BRIDGE REPAIR PLAN & DETAILS

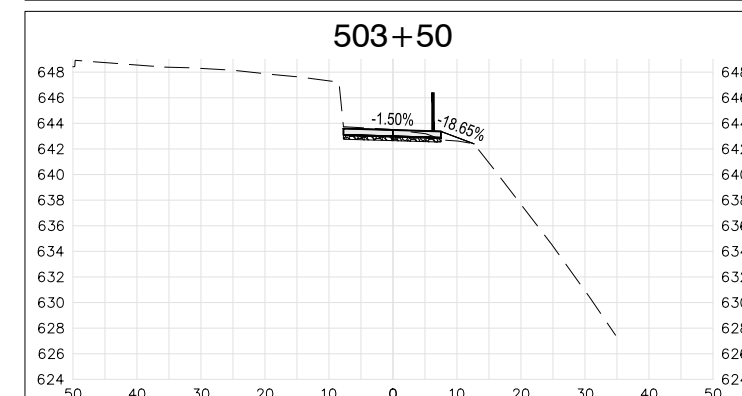
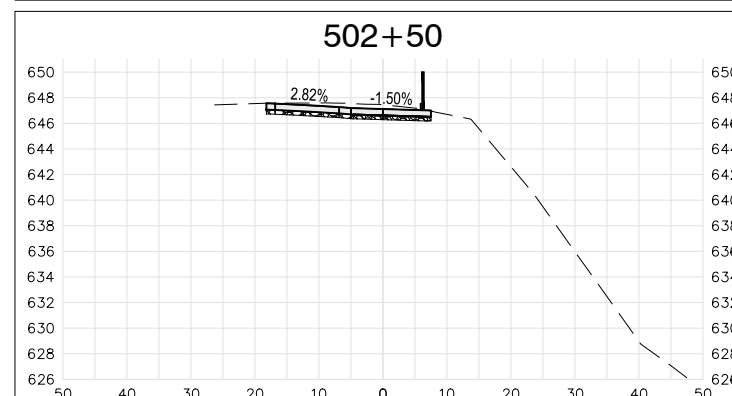
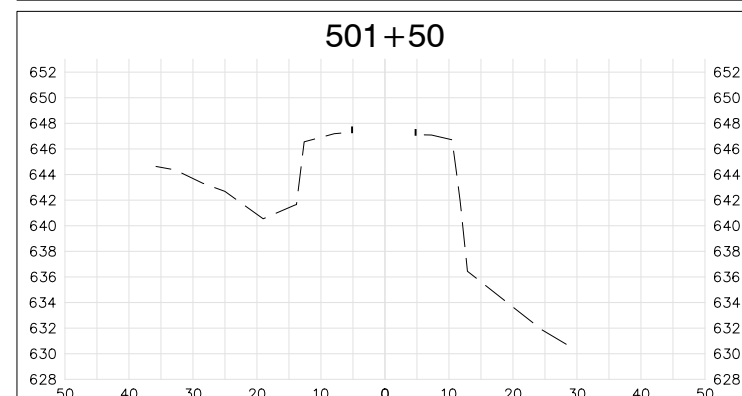
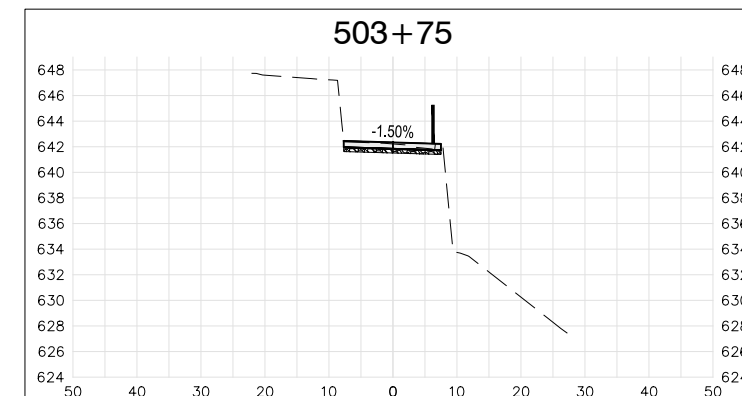
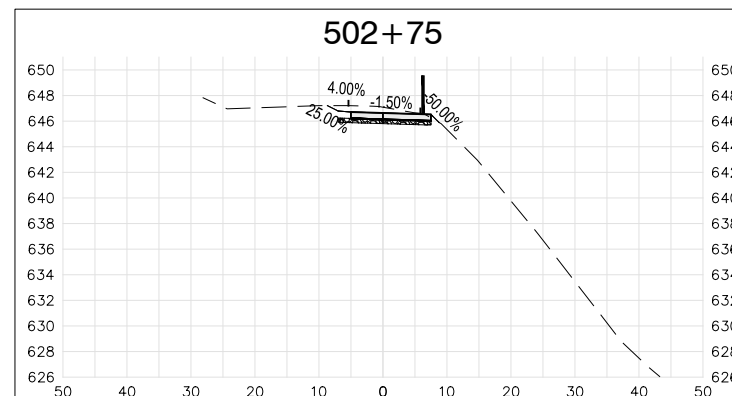
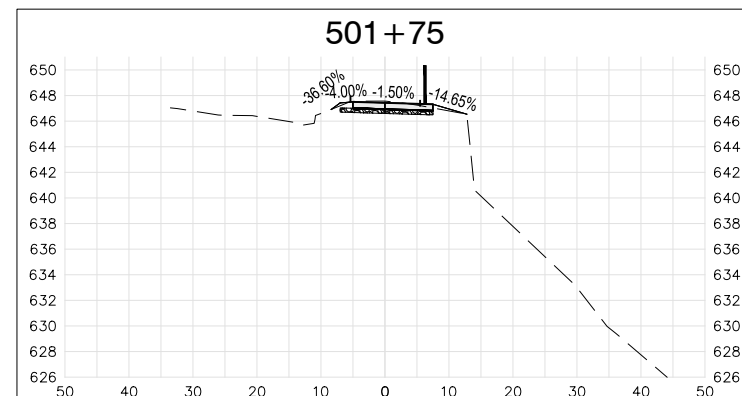
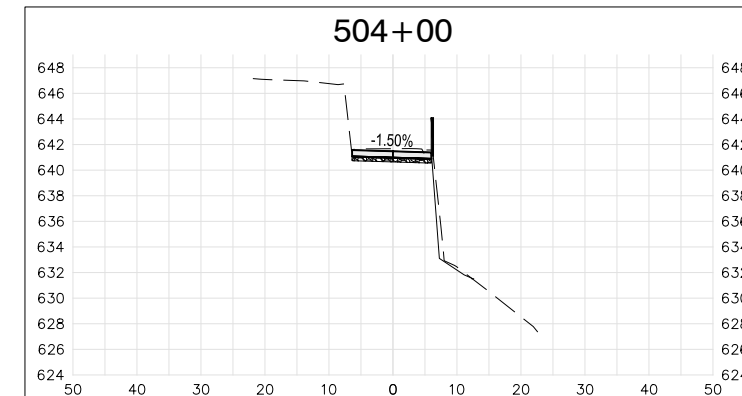
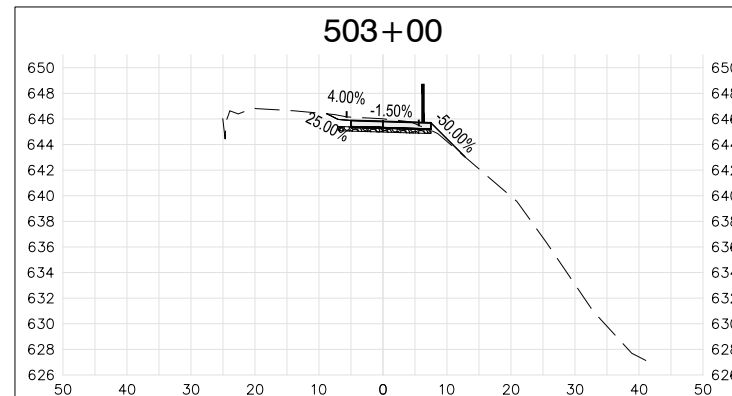
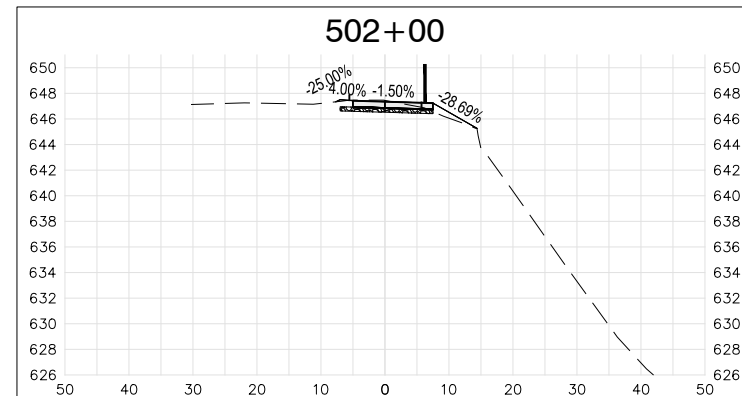
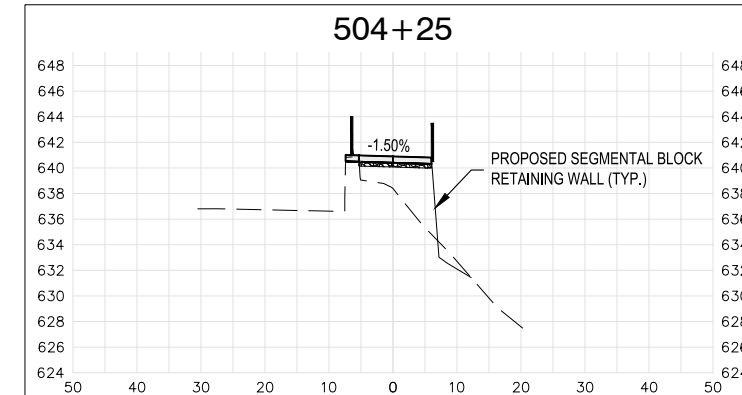
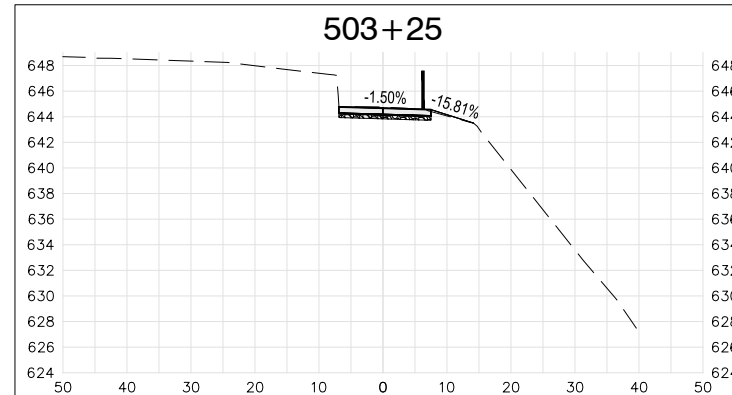
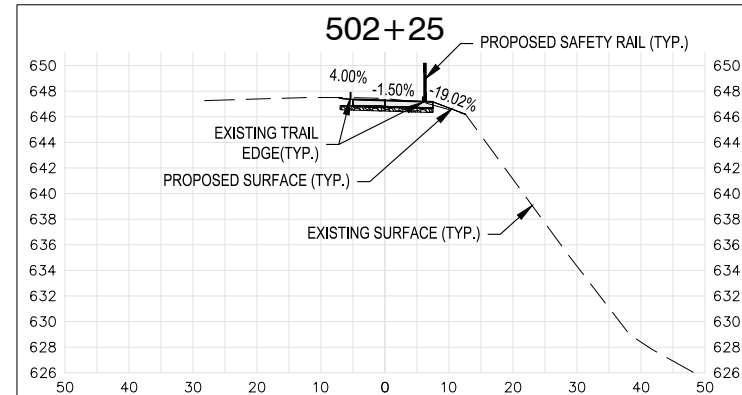
PROJECT NUMBER	23184
DATE	PRELIMINARY
DRAWN	DAA
CHKD	TJR
APPROV.	TJR

SHEET NUMBER
V.01



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2:02:33 PM IA RIVER TRAIL AT COOR DRAWINGS 2/18/14 WJL 5:10:25 PM



PRELIMINARY
 NOT FOR CONSTRUCTION

NO.	REVISION	DATE
B	60% PLANS	05-10-24
A	30% PLANS	01-08-24



OWNER
 PROJECT
 IOWA RIVER TRAIL
 BRIDGE REPLACEMENT

SHEET TITLE
 IOWA RIVER TRAIL
 CROSS-SECTIONS

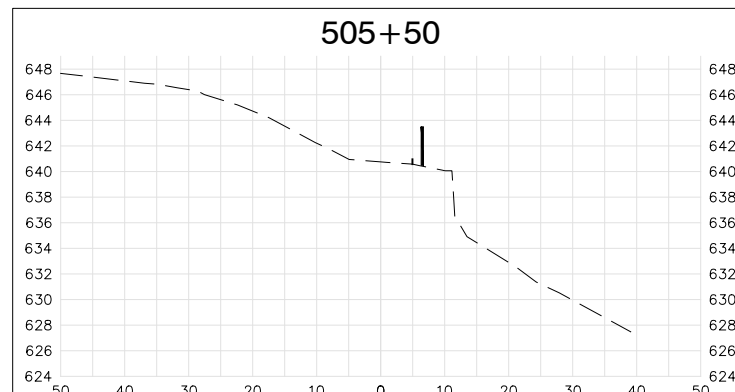
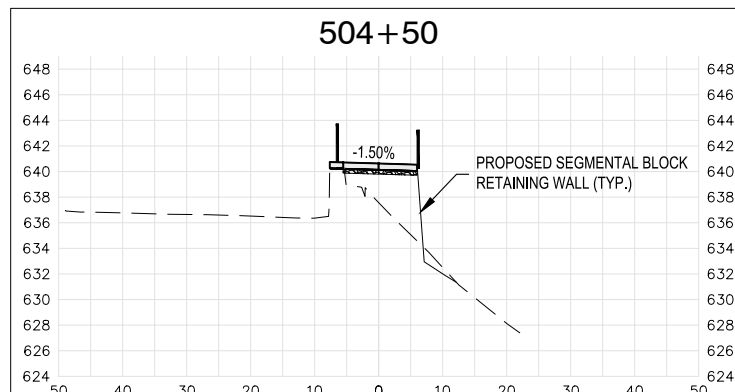
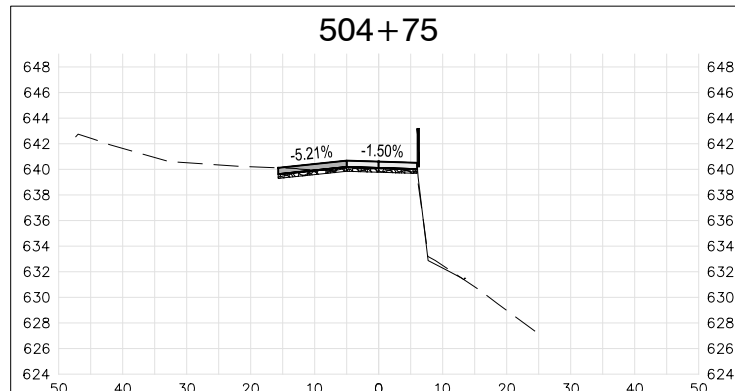
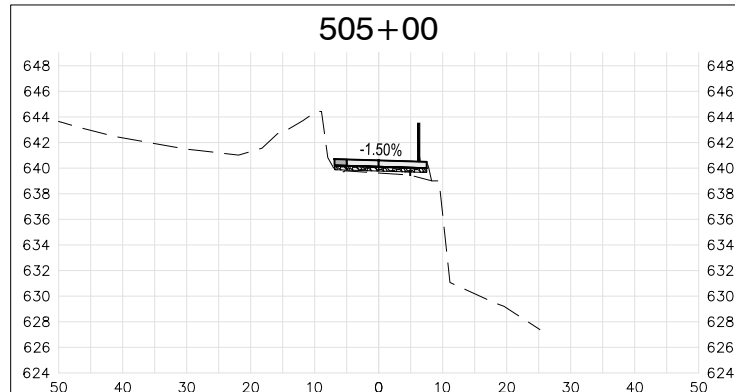
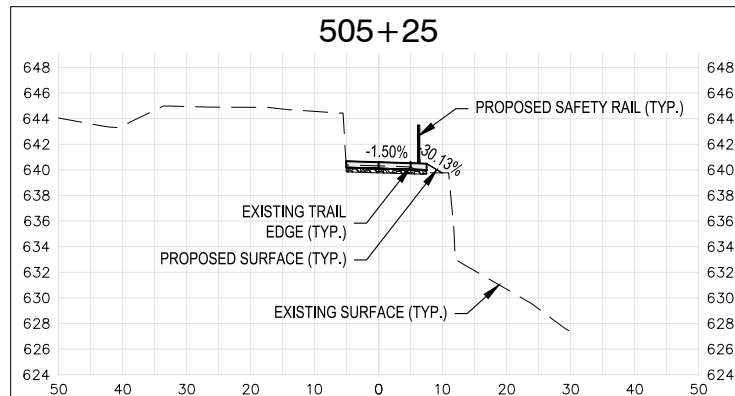
PROJECT NUMBER:
23184
 ISSUED DATE: PRELIMINARY
 DRAWN BY: KJB
 CHECK BY: JTL
 APPROVED BY: GFF

SHEET NUMBER
W.01



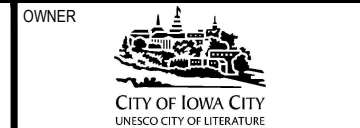
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2:20:23 PM IA RIVER TRAIL AT COORDINATES 23184.W.02.DWG, W.02, 5/10/2024, 4:23:06 PM



PRELIMINARY
NOT FOR CONSTRUCTION

NO.	REVISION	DATE
B	60% PLANS	05-10-24
A	30% PLANS	01-08-24



OWNER
PROJECT
IOWA RIVER TRAIL
BRIDGE REPLACEMENT

SHEET TITLE
IOWA RIVER TRAIL
CROSS-SECTIONS

PROJECT NUMBER:
23184
ISSUED DATE: PRELIMINARY
DRAWN BY: KJB
CHECK BY: JTL
APPROVED BY: GFF

SHEET NUMBER
W.02
REV