

PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% ITEP / 20% LOCAL		
				0028		
				URBAN		
52000110	PREFORMED JOINT STRIP SEAL	FOOT	77	77		
52200100	FURNISHING SOLDIER PILES (HP SECTION)	FOOT	3253	3253		
52200200	DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU FT	14643	14643		
52200250	UNTREATED TIMBER LAGGING	SQ FT	440 438	440 438		
52200255	TREATED TIMBER LAGGING	SQ FT	6759	6759		
52200900	CONCRETE STRUCTURES (RETAINING WALL)	CU YD	91.2	91.2		
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2	2		
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	222	222		
55100500	STORM SEWER REMOVAL 12"	FOOT	35	35		
* 56109210	WATER VALVES TO BE ADJUSTED	EACH	4	4		
* 56400400	FIRE HYDRANTS TO BE RELOCATED	EACH	3	3		
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	727 754	727 754		
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	171.9	171.9		
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	986	986		
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3		

* SPECIALTY ITEM



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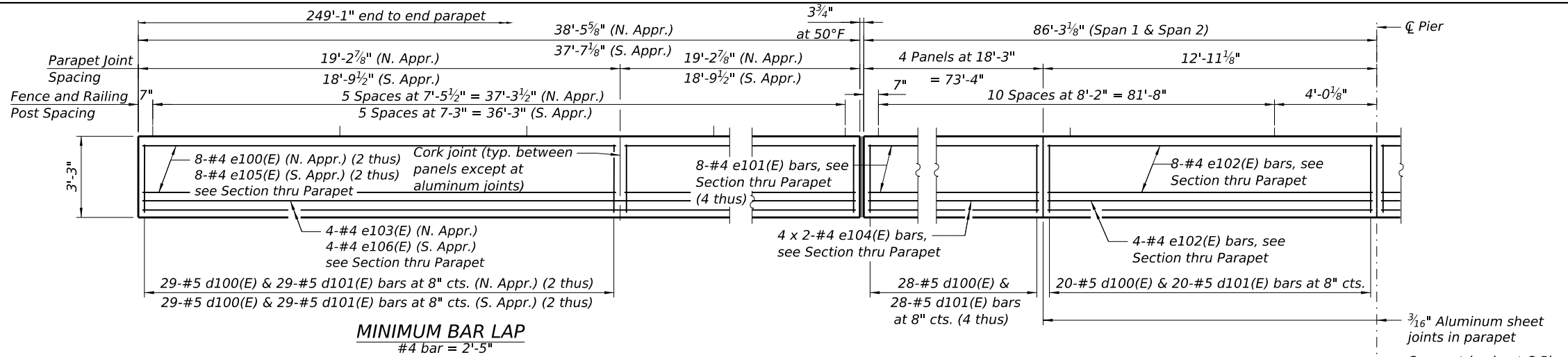
FILE NAME: = 438900-SHT-SOQ.dgn	DESIGNED - ZE	REVISED - 10/24/2025
MODEL: = SOQ Sheet 4 [Sheet]	DRAWN - ZE	REVISED -
PLOT SCALE = 0.1666663377 in.	CHECKED - EM	REVISED -
PLOT DATE = 9/12/2025 2:36:09 PM	DATE - AUGUST 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

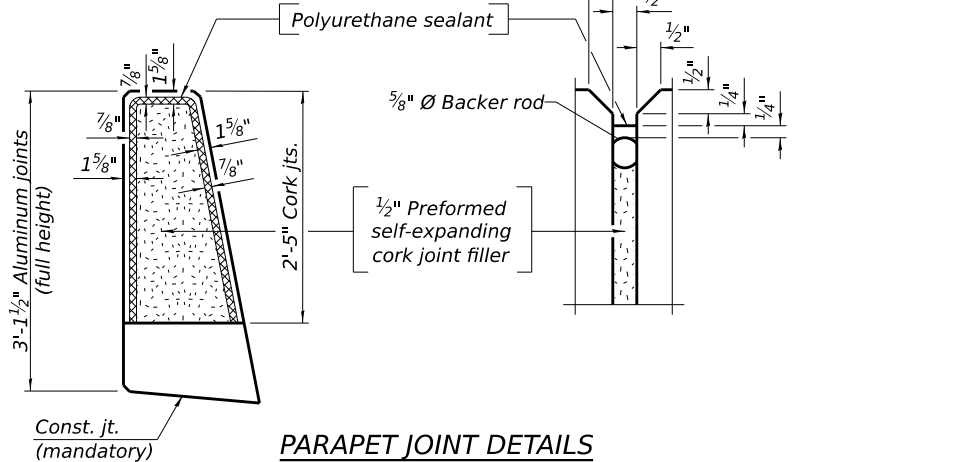
SUMMARY OF QUANTITIES

SCALE: 1"=20' SHEET 4 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5834	23-00291-00-BT	ROCK ISLAND	184	6
		CONTRACT NO. 85785		
		ILLINOIS FED. AID PROJECT		



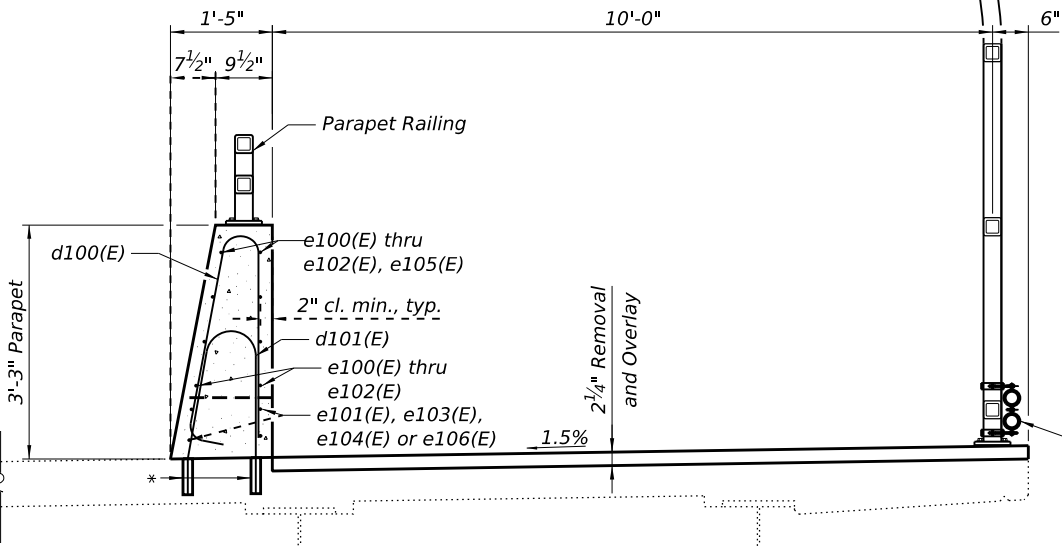
INSIDE ELEVATION OF PARAPET
(Measured along front face of parapet)



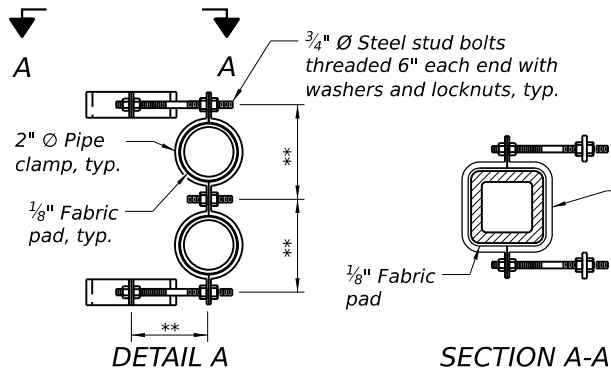
PARAPET JOINT DETAILS

Notes:
The 3/16" aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated with 5 mils of either bitumen paint or epoxy paint to minimize reaction with wet concrete.
The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
The clamping device for 2" conduits shall be galvanized according to AASHTO M 232. Cost of clamping device included with Conduit Attached to Structure.
Bicycle Railing, Curved and Parapet Railings shall be galvanized. See Sheet 6 of 8.

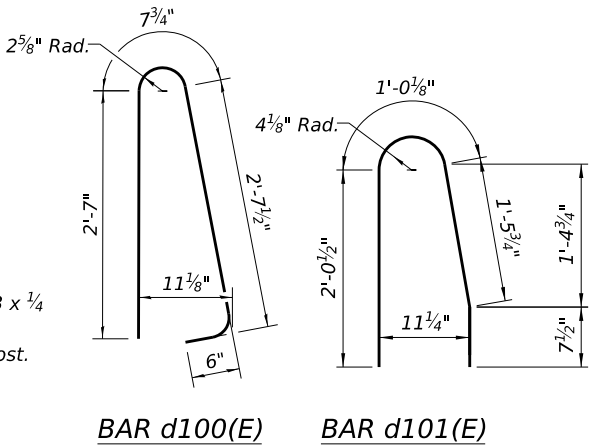
2 - 2" Ø Galvanized Steel Conduits for future use supported at each bicycle railing post, see Detail A. Include pipe end caps on each end of bridge.



* Drill and set #5 d101(E) bar according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6". Contractor shall take all necessary precautions to prevent drilled hole interference with deck reinforcement bars. Locate longitudinal bars to miss drilled locations. Locate drilled holes to miss transverse bars in deck.



** Dimension as required for pipe clamp



BAR d100(E)

BAR d101(E)

SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a100(E)	24	#5	37'-5"	—
d100(E)	380	#5	6'-5"	⏏
d101(E)	380	#5	5'-2"	⏏
e100(E)	16	#4	18'-11"	—
e101(E)	64	#4	17'-11"	—
e102(E)	16	#4	12'-7"	—
e103(E)	4	#4	38'-2"	—
e104(E)	16	#4	39'-0"	—
e105(E)	16	#4	18'-4"	—
e106(E)	4	#4	37'-4"	—
Concrete Superstructure			Cu. Yds.	44.6
Protective Coat			Sq. Yd.	114
Reinforcement Bars, Epoxy Coated			Pound	7,440
Conduit Attached to Structure, 2" Dia. Galvanized Steel			Foot	498
Bridge Deck Latex Concrete Overlay, 2 1/4"			Sq. Yds.	291
Bridge Deck Scarification, 2 1/4"			Sq. Yds.	291

Bars indicated thus 4 x 2-#4 etc. indicates 4 line of bars with 2 lengths per line.



USER NAME	Denise Herrera	DESIGNED	DRC	REVISED	10/24/2025
PLOT SCALE	N/A	DRAWN	DRC	REVISED	
PLOT DATE	10/27/2025 - 7:42:22 AM	CHECKED	JTH/DH	REVISED	
		DATE	SEPTEMBER 2024	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS - 1
STRUCTURE NO. 081-0107

SHEET 3 OF 8 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5834	23-00291-00-BT	ROCK ISLAND	184	92
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

BENCHMARK

Survey marker on top of parapet at NW corner of bridge
S.N. 081-0107. Sta. 49+04+62,
Offset 18.57' Rt., Elev 699.62

SEISMIC DATA

Sismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec (SD1) = 0.087g
Design Spectral Acceleration at 0.2 sec (SDS) = 0.127g
Soil Site Class = D

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (Structural Steel)

EXISTING STRUCTURE

None

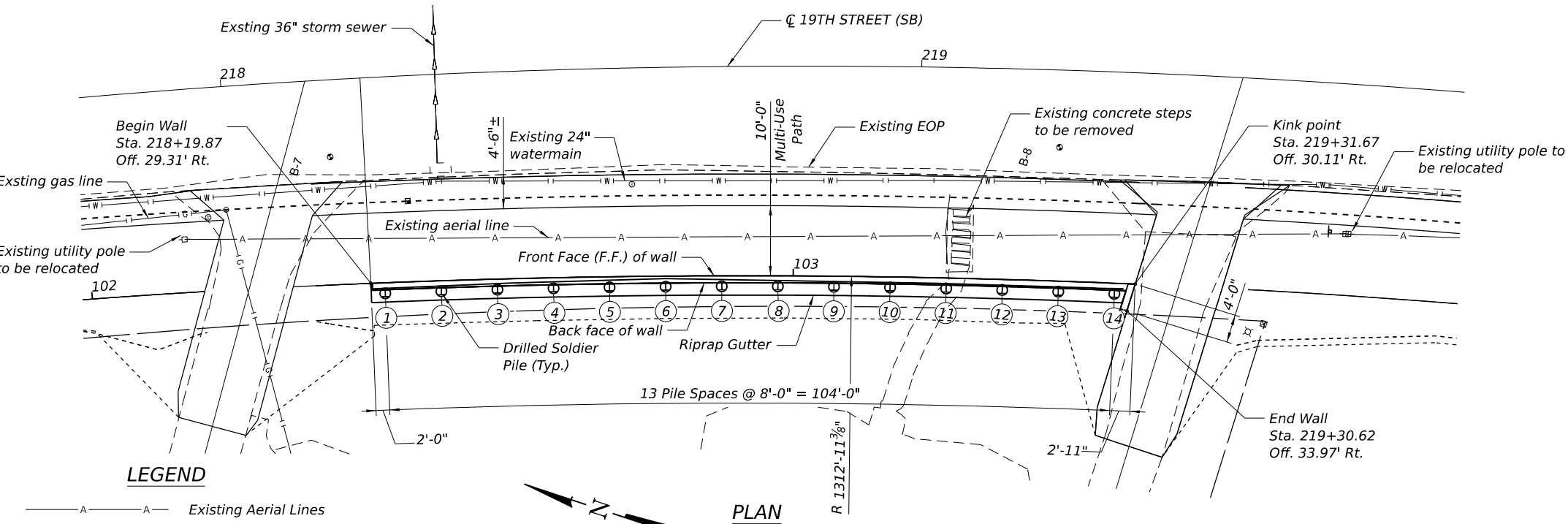
DESIGN SPECIFICATIONS

2024 AASHTO LRFD Bridge Design
Specifications, 10th Edition

HORIZONTAL CURVE DATA

EX CURVE 19th Street (SB)
PI STA = 221+30.47
Δ = 60°04'53" (RT)
D = 04°48'53"
R = 1,190.00'
T = 688.17'
L = 1247.86'
E = 184.66'
e =
PC STA = 214+42.30
PT STA = 226+90.15

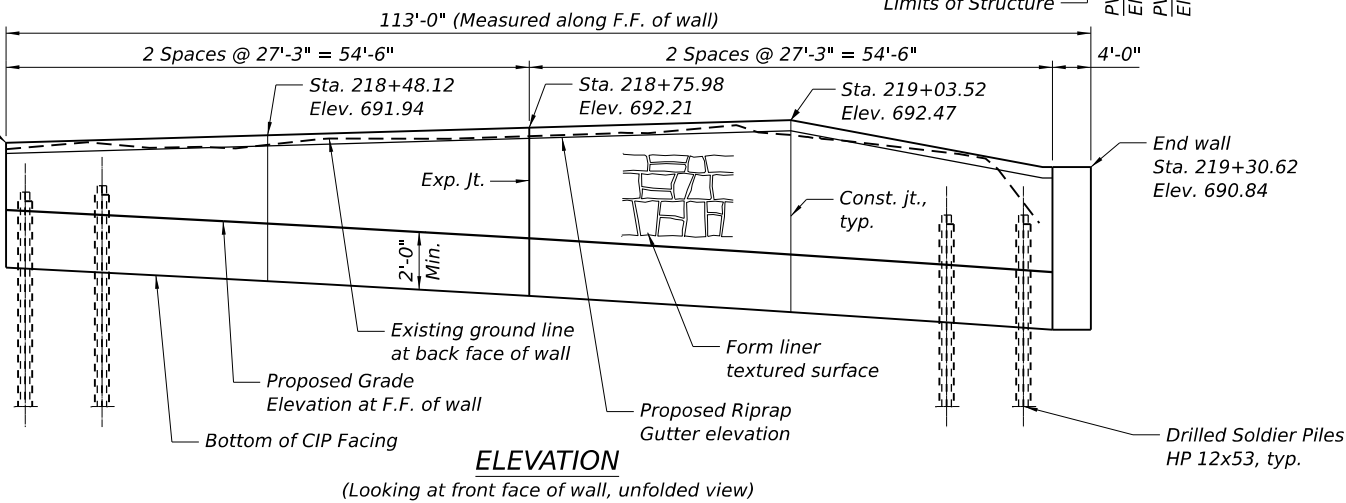
PR CURVE Multi-Use Path
PI STA = 102+91.12
Δ = 06°35'56" (RT)
D = 04°21'50"
R = 1,312.95'
T = 75.69'
L = 151.22
E = 2.18'
e =
PC STA = 102+15.42
PT STA = 103+66.64



LEGEND

- Existing Aerial Lines
- Existing Storm Sewer
- Existing Watermain
- Proposed Curb
- Proposed Construction Limits
- Proposed Temporary Easement Limits

PLAN



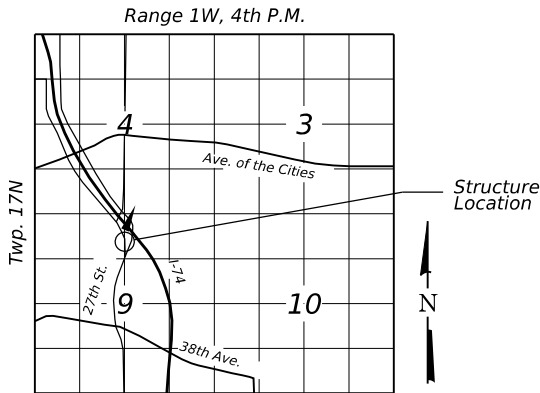
ELEVATION

(Looking at front face of wall, unfolded view)

PROPOSED PROFILE GRADE
(Along Multi-Use Path)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	34
Concrete Encasement	Cu. Yd.	19.6
Form Liner Textured Surface	Sq. Ft.	676
Stud Shear Connectors	Each	124
Reinforcement Bars, Epoxy Coated	Pound	1,970
Furnishing Soldier Piles (HP Section)	Foot	223
Drilling and Setting Piles (In Soil)	Cu. Ft.	723
Untreated Timber Lagging	Sq. Ft.	110.438
Concrete Structures (Retaining Wall)	Cu. Yd.	25.8
Geocomposite Wall Drain	Sq. Yd.	1.936
Controlled Low-Strength Material	Cu. Yd.	6.0
Pipe Underdrains For Structures 4"	Foot	109



LOCATION SKETCH

GENERAL PLAN & ELEVATION

RETAINING WALL 1

ALONG 19TH ST SOUTHBOUND

F.A.U. RTE. 5834 - SECTION 23-00291-00-BT

ROCK ISLAND COUNTY

STATION 218+19.97 TO STATION 219+31.67

STRUCTURE NO. 081-W001

NOTES

- Wall Stations and Offsets are given to the front face of the wall and are measured from the centerline of 19th Street.
- Horizontal dimensions measured along front face of precast panels.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 081-W001

SHEET 1 OF 5 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5834	23-00291-00-BT	ROCK ISLAND	184	98
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

CMT

USER NAME = Denise Herrera	DESIGNED - DRC	REVISED - 10/24/2025
PLOT SCALE = 0.16666633" / in.	DRAWN - DRC	REVISED -
PLOT DATE = 10/27/2025 - 1:16:55 PM	CHECKED - JTH/DH	REVISED -
	DATE - AUGUST 2025	REVISED -

BENCHMARK

Survey marker on top of
parapet at NW corner of bridge
S.N. 081-0107. Sta. 49+04.62,
Offset 18.57' Rt., Elev 699.62

SEISMIC DATA

Sismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec (SD1) = 0.087g
Design Spectral Acceleration at 0.2 sec (SDS) = 0.127g
Soil Site Class = D

EXISTING STRUCTURE

None

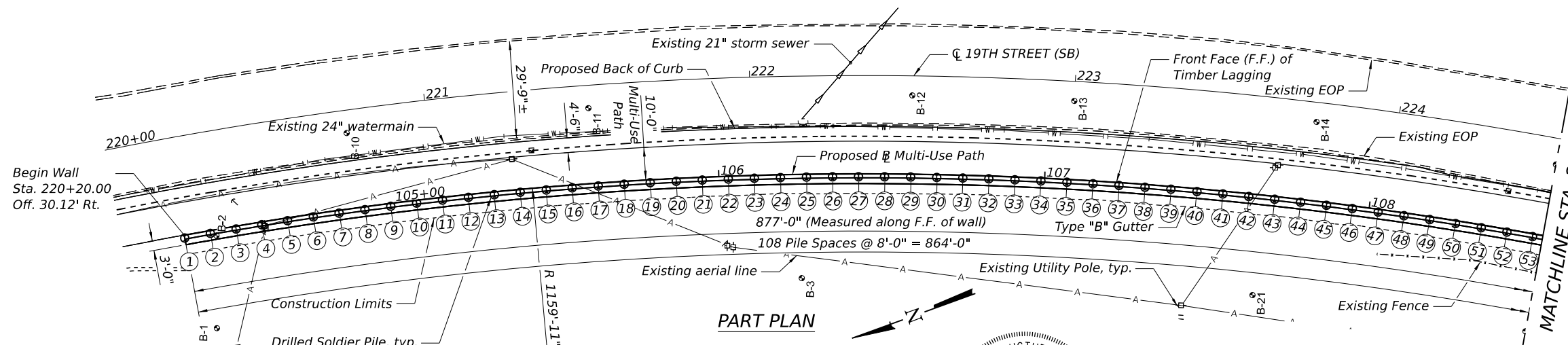
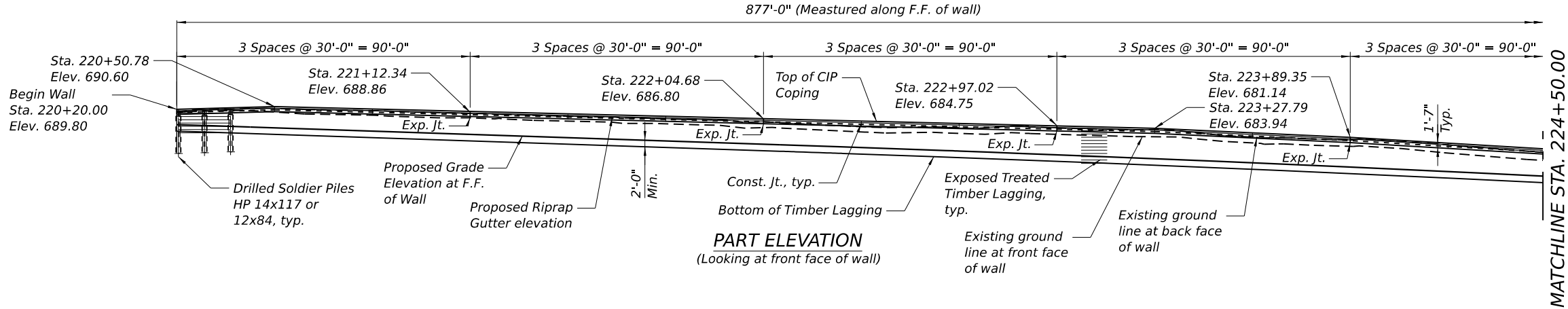
DESIGN SPECIFICATIONS

2024 AASHTO LRFD Bridge Design
Specifications, 10th Edition

DESIGN STRESSES

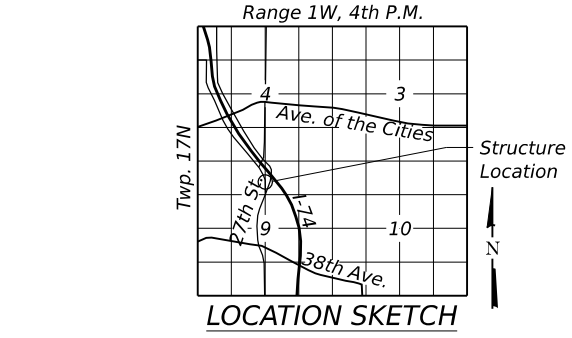
FIELD UNITS

$f_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (Structural Steel)



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	477
Concrete Encasement	Cu. Yd.	335.7
Reinforcement Bars, Epoxy Coated	Pound	6,070
Furnishing Soldier Piles (HP Section)	Foot	3,030
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	13,920
Treated Timber Lagging	Sq. Ft.	6,759
Concrete Structures (Retaining Wall)	Cu. Yd.	65.4
Geocomposite Wall Drain	Sq. Yd.	5468.718
Pipe Underdrains For Structures 4"	Foot	877



GENERAL PLAN & ELEVATION
RETAINING WALL 2
ALONG 19TH ST SOUTHBOUND
F.A.U. RTE. 5834 - SECTION 23-00291-00-BT
ROCK ISLAND COUNTY
STATION 220+20.00 TO STATION 229+14.24
STRUCTURE NO. 081-W003

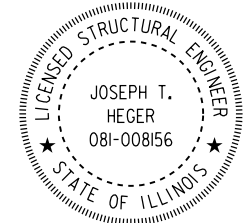
LEGEND

- Existing Aerial Lines
- Existing Storm Sewer
- Existing Watermain
- Proposed Curb
- Proposed Construction Limits

HORIZONTAL CURVE DATA

EX CURVE 19th Street (SB)
PI STA = 221+30.47
 $\Delta = 60^\circ 04' 53''$ (RT)
 $D = 04^\circ 48' 53''$
 $R = 1,190.00'$
 $T = 688.17'$
 $L = 1247.86'$
 $E = 184.66'$
 $e =$
PC STA = 214+42.30
PT STA = 226+90.15

PR CURVE Multi-Use Path
PI STA = 107+33.64
 $\Delta = 35^\circ 06' 55''$ (RT)
 $D = 04^\circ 56' 23''$
 $R = 1,159.92'$
 $T = 367.00'$
 $L = 710.89'$
 $E = 56.68'$
 $e =$
PC STA = 103+66.64
PT STA = 110+77.53



NOTES

- Wall Stations and Offsets are given to the front face of the wall and are measured from the centerline of 19th Street (SB).
- Horizontal dimensions measured along front face of Timber Lagging.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 081-W003

SHEET 1 OF 23 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5834	23-00291-00-BT	ROCK ISLAND	184	103
CONTRACT NO.				



USER NAME = Denise Herrera	DESIGNED - DRC	REvised - 10/24/2025
PLOT SCALE = 0.16666633' / in.	DRAWN - DRC	REvised -
PLOT DATE = 10/27/2025 - 1:10:44 PM	CHECKED - JTH/DH	REvised -
	DATE - AUGUST 2025	REvised -