#### Elev. 431.30 (Romp J) Elev. 430,00 (Ramp J) Elev. 429.56 (Ramp G) Elev. 427.68 (Ramp G) -Pile : Elev. 431.00 (Ramp J) Elev. 433.00 (Ramp J) Elev. 429.50 (Ramp G) Elev. 431.50 (Ramp G) \_Fant—Pier Pier 2 --- Ganl Elev. 413,25 Pile \_\_\_\_\_IIII Congrete Siopewall. ELEVATION (Typ.) CURVE DATA RAMP G CURVE DATA RAMP J ORIGINAL DESIGN STRESSES CURVE 3 CURVE 4 CURVE 3 CURVE 4 FIELD UNITS PI STA. = 6+71.78 PI STA. = 7+70,12 PI STA. = 11+56.90 PI STA = 11+85 17 1,400 psi (Piers and Superstructure) f'c = 1,000 psi (Substructure w/ Earth Pressure) A = 51° 40' 22" \$\textit{\Delta} = 100\circ 01' 50\circ A = 9° 42' 25" A = 59° 44' 16" D = 16° 22' 13" D = 14° 46' 01" D = 24° 54' 54" D = 18° 35' 25' fy = 20,000 psi (Reinforcement) R = 229.96' R = 350'R = 388' R = 308.20'fy = 20,000 psi (Structural Steel A36) L = 207.40' n = 10L = 611.05' L = 65.74'L = 321.34' N = 75 psi T = 111.35' T = 417.34'T = 32.95'T = 177.00' PCC STA = 5+60.43 PCC STA = 7+67.83 PCC STA = 7+37.17 PC STA = 9+79.89 PCC STA = 7+67.83 PT STA = 13+78.88 PT STA = 8+02.91 0.08% Superelevation 0.08% Superelevation 'Spa. @ 6'-0" € St. Clair Sta. 77+74,98 Ramp G Sta. 8+25,40 Spa. @ 6 1:2 (V:H) Bk. North Abutment € St. Clair Ave. 1:2 (V:H) Sta. 7+49.04 C-5-3-Floor Drain Typ. Profile Grade Line Ramp G

€ St. Clair Sta. 78+15.61

Ramp J Sta. 8+48.11

70'-2"

PLAN

147'-2" Back-to-Back Abutment

1:2 (V;H)

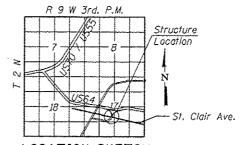
40'-6"

### INDEX OF SHEETS

General Plan & Elevation Deck Repairs Concrete Removal & Replacement Preformed Joint Strip Seal Slab Cross Sections Bearing Details 7-9 Substructure Repairs 10 Abutment Repairs

## TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Sillicone Joint Sealer, 2"	Foot	147
Concrete Removal	Cu. Yd.	16.5
Concrete Superstructure	Cu. Yd.	16.3
Bridge Deck Concrete Sealer	Sq. Ft.	2620
Jack and Remove Existing Bearings	Each	28
Reinforcement Bars. Epoxy Coated	Pound	2810
Preformed Joint Strip Seal	Foot	116
Elastomeric Bearing Assembly, Type I	Each	28
Anchor Bolts, I"	Each	56
Structural Repair of Concrete (Depth <= 5")	Sq. Ft.	338
Waterproofing Membrane System	Sq. Yd.	725
Deck Slab Repair (Full)	Sq. Yd.	2.2
Bituminous Materials (Prime Coat)	Tons	0.3
Hot-Mix Asphalt Surface Course, Mix D, N50	Tons	61.0
Hot-Mix Asphalt Surface Removal, $I_2^{\prime\prime}$	Sq. Yd.	725
Protective Shield	Sq. Yd.	32
Furnishing and Erecting Structural Steel	Pound	4400



#### LOCATION SKETCH



### GENERAL NOTES

- 1. All new structural steel shall conform to AASHTO Classification M270 Gr. 36 unless otherwise noted.
- 2. Fasteners shall be AASHTO MI64 Type 1, mechanically galvanized balts (in painted areas and MI64 Type 3 in unpainted areas). Bolts  $^{7}8$ "\$, holes  $^{15}16$ "\$, unless otherwise noted.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- 5. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existina concrete.
- 6. As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that can not be removed by grinding 4 in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding crocks will be paid for according to Article 109.04 of the Standard Specifications.
- 7. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- 8. Existing reinforcement bars extending into the removal area shall be cleaned. straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
- Joint openings shall be adjusted according to Article 520.04 of the Standard Specs. when the deck is poured at an ambient temperature other than 50° F,
- 10. Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on As-built Plans.
- 11. All structural steel shall be shop painted with the Inorganic zinc rich primer per AASHTO M300, Type 1. Color to match existing. Cost included with Furnishing and Erecting Structural Steel.
- 12. The existing structural steel contains lead. The contractor shall take appropriate precautions to deal with the presence of lead on this project.
- 13. Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provisions "Cleaning & Painting Contact Surface Areas of Existing Steel Structures".
- 14. Work to be completed under Road Closure.

GENERAL PLAN & ELEVATION INTERSTATE 64 (RAMP G & J) OVER ST. CLAIR AVE. F.A.I. RTE. 64 - SEC. 82-2HB-1

> ST. CLAIR COUNTY RAMP J STA. 8+48.11

ST. CLAIR AVE. STA. 78+15.61

# BENTON & ASSOCIATES, INC.

Bk. South Abutment

Bk. South Abutment!

Sta. 8+97.40

Sta. 7+76.02

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1:2 (V:H)

36'-6"

I	FILE NAME = P:\ 1002166-5\ Dosign\	USER NAME =	DESIGNED -	мвн	REVISED -	
I	Plans\ 0820196-76022-		CHECKED -	HLZ	REVISED -	
I	881-GPE.dgn	PLOT SCALE :	DRAWN -	MBH	REVISED -	
ł		PLOT DATE :	CHECKED -	SJH	REVISED -	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

Profile Grade Line

Ramp J

Bk. North Abutment

Sta. 9+24.11

GENERAL PLAN & ELEVATION	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 082-0196 SHEET NO. 1 OF 11 SHEETS		82-2HB-1	ST. CLAIR	208	198
			CONTRACT	NO. 7	6022
		AO DIST. NO. 8 ILLINOIS FED. AT	O PROJECT		