GENERAL NOTES

Fasteners shall be High Strength bolts $\frac{7}{8}$"ϕ, open holes $\frac{15}{16}$"ϕ, unless otherwise noted.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

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 existing concrete.

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 cannot be removed by grinding $\frac{1}{4}$ inch 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 cracks will be paid for according to Article 109.04 of the Standard Specifications.

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.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior and exterior steel surfaces shall be blue, Munsell No. 10B 3/6. See Special Provision for "Cleaning and Painting New Metal Structures".

Concrete Sealer shall be applied to the top of East and West Abutment bearing seats and the top of Pier cap tie beams and Pedestals at Piers 4, 8, and 11.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the ambient temperature varies from 50°F.

If the analysis submitted to the Contractor for the jacking/temporary support system to be used shows temporary stiffeners are required to prevent web crippling or buckling, the stiffeners shall be steel and bolted to the web. If stiffeners are not required, hardwood timbers shall be installed tightly between the top and bottom flange to prevent flange rotation.

Existing structural steel in contact with new structural steel shall only be cleaned and painted as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

The Contractor shall remove and replace existing bolts and nuts in the truss satisfying the requirements for corroded bolts and nuts as stated in the special provision BOLT REPLACEMENT. Contractor shall allow for 250 bolt replacements over and above those shown in the plans, the location of which shall be determined by the Contractor to conform with the special provision and/or as determined by the Engineer.

The areas to be Metallized per "Field Thermal Spraying (Metallizing) Structural Steel No. 1 & No. 2" shall be 10' either side of expansion joints at Piers 4, 8 & 11, at FB 15 & 15' on the truss, and 10' into the approach span at the east and west abutments.

Work shown in these plans shall be accomplished using structure crossovers. See Traffic Control Staging Sections for staging layout.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Hot-Mix Asphalt Wearing Surface Removal, Deck	Sq. Yd.	29,961		29,961
Concrete Removal	Cu. Yd.	187.0		187.0
Floor Drains	Each	380		380
Concrete Superstructure	Cu. Yd.	219.5		219.5
Bridge Deck Grooving	Sq. Yd.	28,509		28,509
Protective Coat****	Sq. Yd.	5,698		5,698
Furnishing and Erecting Structural Steel	Pound	9,590		9,590
Floor Drain Extension	Each	389		389
Jack and Remove Existing Bearings	Each	24		24
Structural Steel Repair	Pound	20,500		20,500
Containment and Disposal of Lead Paint Cleaning Residues No.1	L. Sum	1		1
Containment and Disposal of Lead Paint Cleaning Residues No.2	L. Sum	1		1
Reinforcement Bars, Epoxy Coated	Pound	45,300		45,300
Finger Plate Expansion Joint, 3"	Foot	78.0		78.0
Fabric Reinforced Elastomeric Trough	Foot	395		395
Preformed Joint Strip Seal	Foot	738		738
Anchor Bolts, $1\frac{1}{2}$"	Each		96	96
Concrete Sealer	Sq. Ft.		1,719	1,719
Plug Existing Deck Drains	Each	1,331		1,331
Bridge Deck Latex Concrete Overlay, $2\frac{1}{4}$"	Sq. Yd.	29,520		29,520
Cleaning and Painting Exposed Rebar**	Sq. Ft.	82		82
Field Thermal Spraying (Metallizing) Structural Steel No.1	L. Sum	1		1
Field Thermal Spraying (Metallizing) Structural Steel No.2	L. Sum	1		1
Bolt Replacement	Each	340		340
Structural Repair of Concrete (Depth Equal To or Less Than 5 in.)	Sq. Ft.	73***	2,798	2,871
Remove and Reinstall Finger Plate Joint	Each	8		8
High Load Multi-Rotation Bearings, Guided Expansion, 450K	Each	4		4
High Load Multi-Rotation Bearings, Guided Expansion, 550K	Each	20		20
Mechanical Splicers	Each	2,000		2,000
Deck Slab Repair (Partial)*	Sq. Yd.	55.3		55.3
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	102.0		102.0
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	27.7		27.7
Bridge Deck Scarification, $\frac{3}{4}$"	Sq. Yd.	29,961		29,961

* For information only. Cost of this work is included with Bridge Deck Scarification, $\frac{3}{4}$" and Bridge Deck Latex Concrete Overlay, $2\frac{1}{4}$".

Deck Slab Repair Quantities (Non-Deck Drain repairs) are shown for Eastbound Structure. A similar quantity is assumed for the Westbound Structure which shall be verified by the Contractor. Repair areas shown are assumed to be approximately 75% DECK SLAB REPAIR (PARTIAL) & 25% DECK SLAB REPAIR (FULL DEPTH, TYPE II).

**Locations at underside of Deck overhangs (soffit) on approach spans. Quantities are approximate and Contractor shall verify in field.

***Locations at Parapets. Quantities are approximate and Contractor shall verify in field.

****Protective Coat to be applied to the face and top of concrete parapets (existing and new concrete) and shall not be applied to new Concrete Overlay.

All new structural steel shall conform to AASHTO Classification M-270 GR. 36 unless otherwise noted.

The Contractor shall submit Structural Assessment Report(s) as required for the Contractor's means and methods of construction. See Special Provisions.

The Contractor shall retain the services of an engineering firm, prequalified in the IDOT consultant selection category of Highway Bridges (Complex), for preparation of the Structural Assessment Report. Contractor's pre-approval shall not be applicable for this project. See Special Provision.

Inventory and Operating Ratings and Live Load Restrictions are provided for information only. Inventory and Operating Ratings are based on HS loading and configuration. Live Load Restrictions are based on Illinois legal loads and configurations. The Ratings and Live Load Restrictions are not necessarily representative of capacities to support the Contractor's equipment.

CURRENT RATINGS ON FILE FOR EXISTING STRUCTURES

Inventory: HS 22.2
Operating: HS 33.9
Live Load Restrictions: No

INDEX OF SHEETS

FILE NAME =	USER NAME =	DESIGNED - BTO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, BILL OF MATERIAL, & INDEX OF SHEETS STRUCTURE NO. 090-0108 & 090-0109
		CHECKED - JAN	REVISED -		
	PLOT SCALE =	DRAWN - BTO	REVISED -		SHEET NO. 2 OF 65 SHEETS
	PLOT DATE =	CHECKED - JAN	REVISED -		

F.A.I. RTE.	SECTION	COUNT	TOTAL SHEETS	SHEET NO.
474		PEORIA & TAZEWELL		36
		CONTRACT NO. 68069		
		ILLINOIS FED. AID PROJECT		