GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts.

Bolts ${}^7_{B}{}'' \phi$, holes ${}^{15}_{16}{}'' \phi$, unless otherwise noted. Calculated weight of Structural Steel = 2,797,340 lbs (M 270 Gr. 50). Calculated weight of Structural Steel = 98,440 lbs (M 270 Gr. 36). No field welding is permitted except as specified in the contract documents. Reinforcement bars designated (E) shall be epoxy coated.

If the Contractor elects to use cantilever forming brackets on the exterior girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior girder at each of these additional bracket locations.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $l_{\mathcal{B}}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Concrete Sealer shall be applied to the abutment seat areas, front faces of backwalls and hatchblocks.

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

The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception of the exterior surface and the bottom of the bottom flange of fascia beams, masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Blue, Munsell No. 10B 3/6.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

When the deck pour is stopped for the day at one or more of the transverse bonded construction joints in the deck pouring sequence as shown, the next pour shall not be made until both of the following are met:

- At least 72 hours shall have elapsed from the end of the previous 1) pour.
- 2) The concrete strength shall have attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.

Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design. Slipforming of parapet is not allowed.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Granular Backfill for Structures	Cu. Yd.		623,3	623.3
Stone Riprap, Class A4	Sq. Yd.		1484	1484
Filter Fabric	Sq. Yd.		1484	1484
Removal of Existing Structures	Each			2
Structure Excavation	Cu. Yd.		472.2	472.2
Cofferdam (Type 2), Location 1	Each		0.5	0.5
Cofferdam Excavation	Cu. Yd.		1023.6	1023.6
Concrete Structures	Cu. Yd.		1168.8	1168.8
Concrete Superstructure	Cu. Yd.	1527		1527
Bridge Deck Grooving	Sq. Yd.	4374		4374
Seal Coat Concrete	Cu. Yd.		305.8	305.8
Protective Coat	Sq. Yd.	5617		5617
Furnishing and Erecting Structural	I Sum	0.57		0.57
Steel	L. Sulli	0.57		0.57
Stud Shear Connectors	Each	10944		10944
Reinforcement Bars, Epoxy Coated	Pound	384030	148980	533010
Bar Splicers	Each		172	172
Furnishing Metal Pile Shells 14''x .312''	Foot		10738	10738
Test Pile Metal Shells	Each		6	6
Driving Piles	Foot		10738	10738
Pile Shoes	Each		244	244
Temporary Soil Retention System	Sq. Ft.		1297	1297
Name Plates	Each	2		2
Preformed Joint Strip Seal	Foot	176		176
Elastomeric Bearing Assembly, Type II	Each	24		24
Anchor Bolts, 1''	Each		48	48
Anchor Bolts, 1 ¹ 2''	Each		24	24
Concrete Sealer	Sq. Ft.		4117	4117
Geocomposite Wall Drain	Sq. Yd.		242	242
Pipe Underdrains for Structures, 4"	Foot		310	310
Drainage Scupper, DS-11	Each	8		8
Form Liner Textured Surface	Sq. Ft.	6424	4618	11042
Staining Concrete Structures	Sq. Ft.	6424	4618	11042



SECTION B-B





Drainage A	Area = 6532.87	' sq. mi.		Ex Pro	isting Low Gro oposed Low Gr	ide Elev. rade Elev.	= 708.59 = 710.4 ;	ft @ Sta. ft @ Sta.	. 491+52 930+62		Stone Riprap, 4 Class A4
Flood		Discharge (cfs)		Waterway Opening (Sq.Ft.)		Natural	Head	Head (ft.)		iter Elev.	
	Main Channel	18052	15916	4353	4720	H.W.E.	Existing	Proposed	Existing	Proposed	
10 - YR	Relief Struc.	7473	9609	2143	2850						
	Total	25525	25525			696.3	0.2	0.1	696.5	696.4	
	Main Channel	23661	20859	5060	55 <i>1</i> 3						4'-0'' Bedding
50-YR	Relief Struc.	10464	13266	2629	3507				-		
(Design)	Total	34125	34125			698.2	0.3	0.2	698.5	698.4	└─ Filter Fabric
	Main Channel	25971	22895	5335	5822						SECTION A-A
100 - YR	Relief Struc.	11719	14795	2819	3764						
	Total	37690	37690			699.0	0.3	0.2	699.3	699.2	
	Main Channel										DECION COOUD ELEVATION TA
Overtopping	Relief Struc.										DESIGN SCOUR ELEVATION TA
	Total										Design Scour Elevations (ft.)
	Main Channel	30162	27412	5911	6465						W Abut Pier E Abut
500-YR	Relief Struc.	15463	18213	3220	4299						0100 698 41 675 12 700 52
	Total	45625	45625			700.5	0.4	0.2	700.9	700.7	0500 608 41 674 30 700 52

WATERWAY INFORMATION

DESIGNED - Nick R. Barnett EXAMINED DATE GENERAL D STATE OF ILLINOIS CHECKED - Frank W. Sharp ENGINEER STRUCTURE NO. 101-0197 (E. DRAWN h.t. duong PASSED REVISED **DEPARTMENT OF TRANSPORTATION** ' Car SHEET NO. 2 OF 5 CHECKED - NRB/FWS/GRA REVISED

INDEX OF SHEETS

1	General Plan & Elevation
2	General Data
3	Stage Construction & Temporary Soil Retention System Details
4	Temporary Concrete Barrier for Stage Construction
5	Footing Layout
6-12	Top of Slab Elevations
13	Top of West Approach Slab Elevation (E.B.)
14	Top of East Approach Slab Elevation (E.B.)
15	Top of West Approach Slab Elevation (W.B.)
16	Top of East Approach Slab Elevation (W.B.)
17	Superstructure (E.B.)
18	Superstructure (W.B.)
19-20	Superstructure Details
21	Bridge Approach Slab Details - West (W.B.); East (E.B.)
22	Bridge Approach Slab Details - East (W.B.); West (E.B.)
23-24	Bridge Approach Slab Details
25	Preformed Joint Strip Seal
26	Drainage Scupper, DS-11
27	Structural Steel
28-29	Structural Steel Details
30	Bearing Details
31-32	West Abutment (E.B.)
33-34	East Abutment (E.B.)
35	Abutment Details (E.B.)
36-37	West Abutment (W.B.)
38-39	East Abutment (W.B.)
40	Abutment Details (W.B.)
41	Pier (E.B.)
42	Pier (W.B.)
43-44	Formliner Details
45	Metal Shell Pile Details
46	Bar Splicer Assembly & Mechanical Splicer Details
47-50	Soil Boring Logs

*Included in the cost of Pipe Underdrains for Structures, 4".

SECTION THRU PILE SUPPORTED STUB ABUTMENT

All drainage system components shall extend to 2'-O'' from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101). Geocomposite wall drains and 4" \$\phi\$ pipe underdrains shall be extended behind the entire abutment cap.

ΑΤΑ		SECTION	SECTION		TOTAL SHEETS	SHEET NO.			
R \ 8. 101_0198 (W/R)	301	3BR & 3BR-	1	WINNEBAGO					
B.) & 101-0138 (W.D.)		CONTRACT NO. 64							
0 SHEETS	ILLINOIS FED. AID PROJECT								