

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

1. Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts 7/8-in. ϕ , holes 15/16-in. ϕ , unless otherwise noted.
2. Calculated weight of Structural Steel =
Grade 50 = 4,418,700 lbs **
Grade 36 = 405,950 lbs **
3. 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 that the exterior surfaces and bottom of the bottom flange of the fascia beams, masked off connection surfaces, and field installed fasteners, all of which shall be touched up and finish coated 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 Reddish Brown - Munsell No 2.5YR 3/4. See Special Provision for *Cleaning and Painting New Metal Structures*.
4. No field welding is permitted except as specified in the contract documents.
5. Anchor bolts shall be set before bolting diaphragms and cross frames over supports.
6. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.
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. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
9. Concrete Sealer shall be applied to the designated areas of the new bridge seats at C Abutments 1 and 4, Pier 3 of Ramps and the East and West Abutments of Ramps.
10. Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

11. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
12. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using approved bar splicer or anchorage system. Cost included to "Concrete Removal".
13. SB denotes Southbound I-55
NB denotes Eastbound I-55
NF denotes Near Face
FF denotes Far Face.
14. Reinforcement bars designated (E) shall be epoxy coated.
15. If the Contractor elects to use cantilever forming brackets on the exterior beams or 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 beam at each of these additional bracket locations.
16. The Contractor shall retain the services on 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.
Current Ratings on File for Existing Structure
Inventory: HS 27.1
Operating: HS 41.8
Live Load Restrictions: No

Inventory and Operating Ratings and Live Load Restrictions are provided for information only. Inventory and Operating Ratings are based on HS loading and configurations. 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 Contractors Equipment.
17. Slipforming of the parapets is not allowed.

** Structural steel furnished under a separate contract shall be erected under pay item Erecting Structural Steel. The listed weights include structural steel framing comprised of girders, diaphragms, fill plates, connection plates, bolts and steel extensions.

TOTAL BILL OF MATERIAL

ITEM	UNIT	MAINLINE		
		SUPER	SUB	TOTAL
REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1
CONCRETE REMOVAL	CU YD		1,489.5	1,489.5
REMOVAL OF EXISTING SUB-STRUCTURES - ABUTMENT TYPE 1	EACH		4	4
REMOVAL OF EXISTING SUB-STRUCTURES - ABUTMENT TYPE 2	EACH		2	2
REMOVAL OF EXISTING SUB-STRUCTURES - PIER	EACH		19	19
BRIDGE RAIL REMOVAL	FOOT	3150		3150
PROTECTIVE SHIELD	SQ YD	1681.1		1681.1
STRUCTURE EXCAVATION	CU YD		3,967.3	3,967.3
CONCRETE STRUCTURES	CU YD	59.0	4,423.1	4,482.1
CONCRETE SUPERSTRUCTURE	CU YD	3,515.1		3,515.1
BRIDGE DECK GROOVING	SQ YD	9439		9439
PROTECTIVE COAT	SQ YD	11418		11418
ERECTING STRUCTURAL STEEL	L SUM	0.81		0.81
STUD SHEAR CONNECTORS	EACH	47,410		47,410
REINFORCEMENT BARS, EPOXY COATED	POUND	877,380	637,190	1,514,570
BAR SPLICERS	EACH	2637	62	2699
FURNISHING METAL SHELL PILES 12"X 0.250"	FOOT		38,018	38,018
DRIVING PILES	FOOT		38,018	38,018
TEST PILE METAL SHELLS	EACH		18	18
TEMPORARY SHEET PILING	SQ FT		13,566	13,566
NAME PLATES	EACH	1		1
CONCRETE SEALER	SQ FT		41,371	41,371
FIELD MEASUREMENTS	L SUM		0.30	0.30
DRAINAGE SCUPPERS, DS-12	EACH	16		16
STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5")	SQ FT		40	40
MODULAR EXPANSION JOINT-SWIVEL 6" (ERECT ONLY)	FOOT	186		186
HIGH LOAD MULTI-ROTATIONAL BEARINGS, FIXED, 250K (ERECT ONLY)	EACH	20		20
HIGH LOAD MULTI-ROTATIONAL BEARINGS, FIXED, 500K (ERECT ONLY)	EACH	2		2
HIGH LOAD MULTI-ROTATIONAL BEARINGS, GUIDED EXPANSION, 150K (ERECT ONLY)	EACH	40		40
ERECTING HIGH LOAD MULTI-ROTATIONAL BEARINGS, GUIDED EXPANSION, 250K	EACH	40		40
HIGH LOAD MULTI-ROTATIONAL BEARINGS, GUIDED EXPANSION, 350K (ERECT ONLY)	EACH	4		4
HIGH LOAD MULTI-ROTATIONAL BEARINGS, GUIDED EXPANSION, 900K (ERECT ONLY)	EACH	4		4
HIGH LOAD MULTI-ROTATIONAL BEARINGS, NON-GUIDED EXPANSION, 150K (ERECT ONLY)	EACH	34		34
HIGH LOAD MULTI-ROTATIONAL BEARINGS, NON-GUIDED EXPANSION, 800K (ERECT ONLY)	EACH	4		4
HIGH LOAD MULTI-ROTATIONAL BEARINGS, NON-GUIDED EXPANSION, 1500K (ERECT ONLY)	EACH	4		4
DRAINAGE SYSTEM	L SUM	0.28		0.28
ANCHOR BOLTS, 1"	EACH	268		268
ANCHOR BOLTS, 1 1/2"	EACH	36		36
ANCHOR BOLTS, 2"	EACH	16		16
DECK SLAB REPAIR (PARTIAL)	SQ YD	20		20
DECK SLAB REPAIR (FULL DEPTH, TYPE 1)	SQ YD	20		20
PILE EXTRACTION	EACH		86	86
MECHANICAL SPLICERS	EACH		308	308
ALUMINUM RAILING, TYPE L	FOOT	257.5		257.5
ANCHOR BOLTS, 1 1/4"	EACH	8		8
DRAINAGE SCUPPERS, DS-33	EACH	6		6
PREFORMED JOINT STRIP SEAL	FOOT	350		350
BRACED EXCAVATION	CU YD		323	323

**GEN. NOTES & BILL OF MATERIALS
STRUCTURE NO. 016-0724**

TYLIN INTERNATIONAL	DESIGNED -	REVISIONS		SHEET NO. 2	F.A.I RTE. 55	SECTION 0711.2R & 1011.1BR	COUNTY COOK	TOTAL SHEETS 741	SHEET NO. 326
	CHECKED - AMD,	NAME	DATE						
	DRAWN -								
	CHECKED - AMD,								
DATE - 03/25/2011				239 SHEETS	CONTRACT NO. 60999				
					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				