

**BRIDGE DECK SECTION**  
(Showing Protective Coat Limits)

BUILT: 200. BY  
LASALLE COUNTY  
SEC. 01-00590-00-BR  
F.A.U. RT. 6145  
STATION 21+75.75  
STR. NO. 050-8023  
LOADING HS20

**NAME PLATE**  
(See Std. 515001)

**BRIDGE PLANS  
INDEX TO SHEETS**

SHEET #'s	DESCRIPTION
1	General Plan
2	General Plan Details
3	Top of Slab Elevations and Deck Pouring Sequence
4 & 5	Top of Slab Elevations
6	Superstructure
7 - 11	Superstructure Details
12	Structural Steel Framing Plan
13	Structural Steel Details
14-16	Bearing Details
17	Abutment and Wall Details
18	West Abutment
19	East Abutment
20	Pier 1 Details
21	Pier 2 Details
22	Bridge Fence Railing
23	Parapet Railing
24	Anchor Bolt Details
25	Bar Splicer Assembly
26-27	Preformed Joint System
28	Neoprene Expansion Joint
29	Bridge Approach Pavement (Special)
30-41	Boring Logs

**GENERAL NOTES**

Calculated weight of Structural Steel = 499,840 lbs. (AASHTO M270, Grade 50W).  
 The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.  
 All structural steel shall be AASHTO M 270 Grade 50W (except expansion joint plates and attached bars which shall be AASHTO M 270 Grade 50).  
 Expansion joint plates and attached bars shall be shop painted with the inorganic zinc rich primer.

The structural steel bearing plates of the Elastomeric Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50W.  
 The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are tension flanges, web and all splice plate material except fill plates.  
 Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.

The contractor shall drive four (4) steel test piles in permanent locations, one at the east abutment, one at the west abutment, one at pier #1, and one at pier #2, as directed by the Engineer before ordering the remainder of piles.

Fasteners shall be high strength bolts (AASHTO M 164, Type 3 in unpainted areas and mechanically galvanized AASHTO M 164, Type 1 or 2 in painted areas). Bolts 1/2" φ, open holes 5/16" φ, unless otherwise noted.

Field welding of construction accessories will not be permitted to beams.  
 Anchor bolts shall be set before bolting diaphragms over supports.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/8" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims. For Type I Elastomeric Bearings, two 1/8" adjusting shims shall be provided for each bearing and placed as detailed.

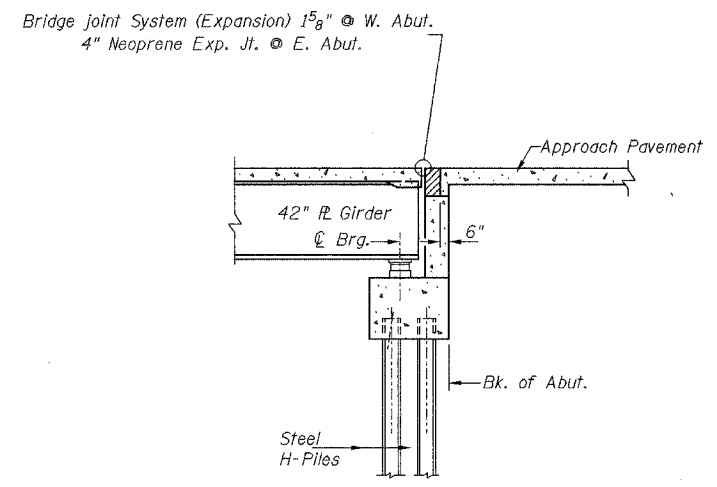
Bridge Seat Sealer shall be applied to the seat area of the abutments and piers.

AASHTO M 270 Grade 50W structural steel shall only be painted, for a distance of three times the depth of the beams or girders (but not exceeding 10 feet) each way from the deck joints and each way from centerline of piers. The exterior face and bottom flange of the outside girders shall be painted the full length of bridge. All structural steel shall be cleaned as specified in the special provision for "Surface Preparation and Painting Requirements for Weathering Steel".

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 shall be Reddish Brown, Munsell No. 2.5YR 3/4. See Special Provisions for "Cleaning and Painting New Metal Structures".

All construction joints shall be bonded.

The sidewalk surface of the bridge shall be finished according to Article 503.17(d) of the Standard Specifications. Sidewalk elevations and profile shall be adjusted to comply with the Illinois Accessibility Code (ADA) requirements. Cost included with Concrete Superstructure.



**SECTION THRU ABUTMENT**  
@ Rt. L's

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	L SUM			1
Concrete Superstructure	CU YD	554.0		554.0
Concrete Structures	CU YD		260.5	260.5
Reinforcement Bars, Epoxy Coated	POUND	125,510	36,050	161,560
Furnishing and Erecting Structural Steel	L SUM	1		1
Neoprene Expansion Joint (4")	FOOT	39		39
Bridge Joint System (Expansion) 1 1/2"	FOOT	39		39
Protective Coat	SQ YD	2,090		2,090
Stud Shear Connectors	EACH	4,590		4,590
Elastomeric Bearing Assembly, Type I	EACH	6		6
Elastomeric Bearing Assembly, Type II	EACH	6		6
Floating Bearings, Guided Expansion 350 k	EACH	6		6
Floating Bearings, Fixed 350 k	EACH	6		6
Structure Excavation	CU YD		125	125
Name Plates	EACH	1		1
Furnishing Steel Piles HP 12x53	FOOT		2,368	2,368
Driving Steel Piles	FOOT		2,368	2,368
Test Pile Steel HP 12x53	EACH		4	4
Bridge Seat Sealer	SQ FT		535	535
Bar Splicers	EACH	832	76	908
Bridge Fence Railing	FOOT	380		380
Parapet Railing	FOOT	380		380
Bridge Deck Grooving	SQ YD	1,188		1,188

DESIGNED	JOH
CHECKED	BRT
DRAWN	TD
CHECKED	JOH

**GENERAL PLAN DETAILS  
FAU ROUTE 6145 OVER  
BNSF RAILROAD  
SECTION 01-00590-00-BR (COUNTY)  
LASALLE COUNTY  
STATION 21+75.75  
STR. NO. 050-8023**

**HUTCHISON ENGINEERING, INC.  
JACKSONVILLE & JOLIET, ILLINOIS  
Date: 3 /10 /2006**