ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 1517	03-00247-00-BR	KANE	121	85
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

CONTRACT #83867

SHEET NO. SE-2
SE-27 SHEETS

GENERAL NOTES

Fasteners shall be high strength bolts.
Bolts $^{7}/_{8}$" ϕ, open holes $^{15}/_{16}$" ϕ, unless otherwise noted.

Calculated weight of Structural Steel = 284,339 lbs.

Field welding of construction accessories will not be permitted to beams.

Anchor bolts shall be set before bolting diaphragms over supports.

The structural steel bearing plates of the Elastomeric Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50

The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams and all splice plate material except fill plates.

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322, Grade 60.

Backfill shall be placed behind the abutment after the superstructure has been poured and the falsework removed. See Article 502.10 of the Standard Specifications.

The back face of closed abutments and their wingwalls shall be waterproofed according to Article 503.18 of the Standard Specifications.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

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.

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 requirements are met:

1. At least 72 hours shall have elapsed from the end of the previous pour.

2. The concrete strength shall have attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3,500 psi.

All construction joints shall be bonded.

Excavation behind existing abutment walls shall be done before removing the existing superstructure. The Contractor shall sawcut the existing abutments at the stage removal line before Stage I Removal.

The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR permit number NE2006043 which was issued for the permanent construction.

The organic zinc rich primer / epoxy / urethane paint system shall be used for painting of new structural steel except where otherwised noted. The entire system shall be shop applied, with exception the that masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat shall be gray, Munsell No. 5B 7/1. See special provision for "Cleaning and Painting New Metal Structures".

The information shown in these plans concerning the type and location of utilities is not guaranteed to be accurate or all-inclusive. The Contractor is responsible for making his own determination as to the existence of type, size and location of all underground and overhead utilities as may be necessary to avoid conflict with construction operations and/or damage to the utility.

During Phase I, the Contractor shall maintain sidewalk access and lighting on the south side. During Phase II, the new lighting on the north side shall be operational and new sidewalk accessible.

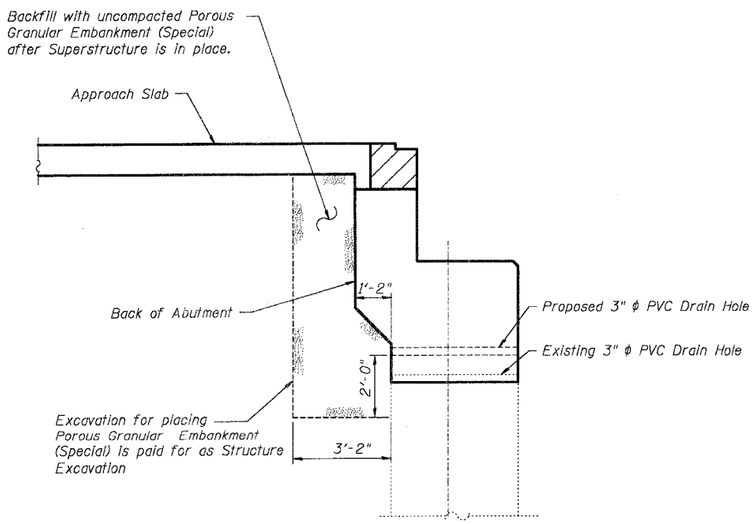
TOTAL BILL OF MATERIAL - 045-6008

	ITEM	UNIT	TOTAL
*	Porous Granular Embankment (Special)	Cu. Yd.	106
*	Removal of Existing Superstructures, No. 2	Each	1
	Concrete Removal	Cu. Yd.	98.9
	Structure Excavation	Cu. Yd.	106
	Concrete Structures	Cu. Yd.	214.6
	Concrete Superstructure	Cu. Yd.	359.7
	Bridge Deck Grooving	Sq. Yd.	792
*	Protective Coat	Sq. Yd.	1,371
	Elastomeric Bearing Assembly, Type I	Each	20
	Structural Repair of Concrete (Depth Equal To Or Less Than 5 In.)	Sq. Ft.	22.5
	Furnishing and Erecting Structural Steel	L. Sum	0.34
	Stud Shear Connectors	Each	4,680
	Reinforcement Bars, Epoxy Coated	Pound	100,240
	Name Plates	Each	1
	Bridge Seat Sealer	Sq. Ft.	482
	Epoxy Crack Sealing	Foot	18
*	Bridge Joint System (Expansion), 1"	Foot	152.7
	Drainage Scuppers, DS-11	Each	8
	Parapet Railing	Foot	148
*	Bicycle Railing, Special	Foot	170
	Bar Splicers	Each	715

*Indicates Item Requires a Special Provision.

INDEX OF STRUCTURE SHEETS - 045-6008

SE-1	GENERAL PLAN & ELEVATION
SE-2	GENERAL NOTES, INDEX & QUANTITES
SE-3	STAGE CONSTRUCTION DETAILS
SE-4	TEMPORARY CONCRETE BARRIER
SE-5	TOP OF DECK ELEVATIONS (1 of 5)
SE-6	TOP OF DECK ELEVATIONS (2 of 5)
SE-7	TOP OF DECK ELEVATIONS (3 of 5)
SE-8	TOP OF DECK ELEVATIONS (4 of 5)
SE-9	TOP OF DECK ELEVATIONS (5 of 5)
SE-10	DECK PLAN & CROSS SECTION
SE-11	SUPERSTRUCTURE DETAILS I
SE-12	SUPERSTRUCTURE DETAILS II
SE-13	SUPERSTRUCTURE DETAILS III
SE-14	SUPERSTRUCTURE DETAILS IV
SE-15	STRIP SEAL EXPANSION JOINTS
SE-16	DRAINAGE SCUPPER, DS-11
SE-17	BRIDGE RAILING DETAILS
SE-18	STEEL FRAMING PLAN
SE-19	STEEL FRAMING DETAILS
SE-20	BEARING DETAILS
SE-21	ANCHOR BOLT DETAILS
SE-22	BAR SPLICER DETAILS
SE-23	WEST ABUTMENT PLAN & ELEVATION
SE-24	WEST ABUTMENT DETAILS
SE-25	EAST ABUTMENT PLAN & ELEVATION
SE-26	EAST ABUTMENT DETAILS
SE-27	PIER 1 DETAILS



ABUTMENT DRAINAGE DETAIL

DESIGNED	AEU
CHECKED	RGD
DRAWN	WJH
CHECKED	NRF

SMITH ENGINEERING CONSULTANTS, INC.
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540 SUMMIT, SUITE A
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REVISIONS	
NAME	DATE

CITY OF AURORA

GENERAL NOTES, INDEX & QUANTITIES
ILLINOIS AVENUE
OVER THE FOX RIVER
SECTION NO. 03-00247-00-BR
KANE COUNTY
STRUCTURE NO. 045-6008

DATE 7-28-2006

COMPANY NAME, ETC. PH.
PROJECT CONTACT: #PROJECT_CONTACT1
DATE: #DATE#
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