STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

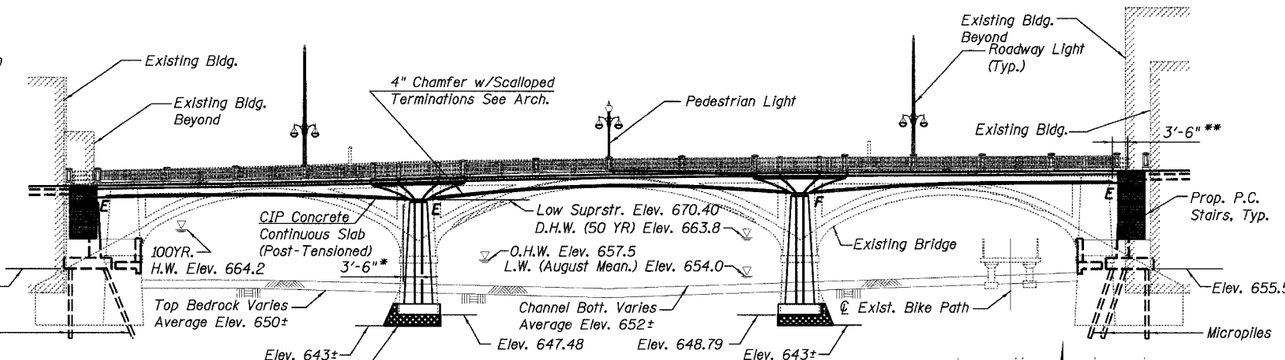
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 1441	00-00059-00-BR	KANE	154	72
FED. ROAD DIST. NO. ?	ILLINOIS	FED. AID PROJECT-		

SHEET NO. S1 of S52 SHEETS

Contract # 83869

- B.M.#3 - Chiseled '+' on the sidewalk at the NW corner of Wilson Street and River Street Elev. 680.11
- Existing Structure- The existing structure, number 045-6050, is a three-span cast-in-place steel reinforced concrete filled spandrel arch built in 1911. The total length of the bridge back to back of abutments is 274'±. Individual spans measure 68'±, 88'± and 68'±. The out-to-out deck dimension is 62'-4"±. The abutments are steel reinforced concrete counterfort type and piers are steel reinforced concrete. The abutments and piers are supported on spread footings resting on bedrock. Traffic to be maintined utilizing staged construction.
- Salvage existing roadway lights, monument at NW corner of bridge and portions of the existing abutments.

License Expires: 11/30/2006
Current Date: 9/28/2006



ELEVATION
(Looking North)

* 4" Chamfer Termination to ℄ Pier (Typ.), See Arch.
** 4" Chamfer Termination to End of Deck Slab (Typ.), See Arch.

HIGHWAY CLASSIFICATION
Wilson Street
Functional Class: Minor Arterial
ADT: 24,600 (2004); 34,000 (2030)
DHV: 3400
Design Speed: 30 m.p.h.
Posted Speed: 25 m.p.h.

LOADING HS20-44

DESIGN SPECIFICATIONS
AASHTO 17th Edition (2002)

DESIGN STRESSES

CONC. DECK SLAB
f'_c = 6000 psi (HPC)
f_y = 60,000 psi (reinforcement)
f'_s = 270,000 psi (0.6" ϕ low relaxation)

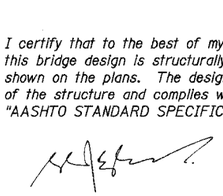
CONC. PIER
f'_c = 3500 psi
f_y = 60,000 psi (reinforcement)
f'_s = 270,000 psi (0.6" ϕ low relaxation)

REINFORCED CONCRETE
f'_c = 3500 psi
f_y = 60,000 psi (reinforcement)

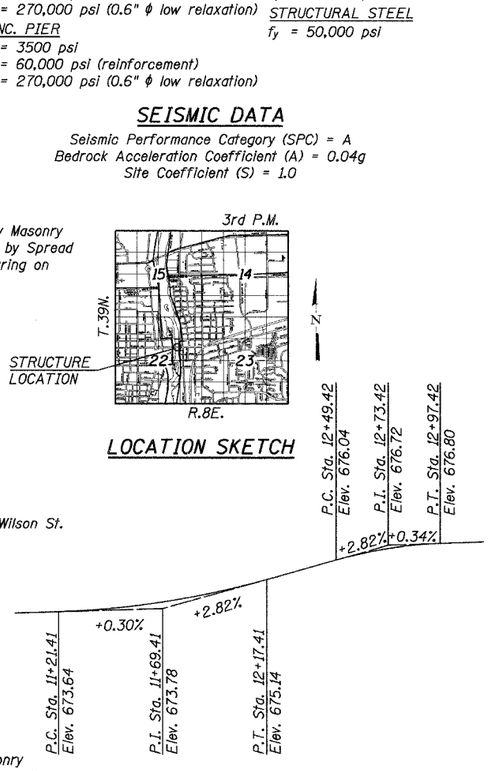
STRUCTURAL STEEL
f_y = 50,000 psi

SEISMIC DATA
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.04g
Site Coefficient (S) = 1.0

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of the structure and complies with requirements of the current "AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES"



PLAN



LOCATION SKETCH

PROPOSED PROFILE GRADE LINE
(Along ℄ Wilson St.)

DESIGNED	DWH
CHECKED	RWC
DRAWN	EF
CHECKED	RWC

FOX RIVER
BUILT 2007 BY
CITY OF BATAVIA
KANE COUNTY
LOADING HS20
STR. NO. 045-6051

Note: For Mounting See Sheet No. 83

NAME PLATE
See Std. 515001

LEGEND
Soil Boring, see Sheet No's. 122 and 123

WATERWAY INFORMATION

Drainage Area = 1629 sq. mi. — Low Grade Elev. 672.9 @ Sta. 9+62

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	8500	1674	1674	661.3	0.2	0.1	661.5	661.4
Design	50	12500	2125	2176	663.7	0.2	0.1	663.9	663.8
Base	100	13500	2196	2265	664.1	0.2	0.1	664.3	664.2
Overtopping	--	--	--	--	--	--	--	--	--
Max. Calc.	500	17630	2468	2622	665.7	0.4	0.2	666.1	665.9

NOTES
1. For typical bridge cross section, see Sheet No. 74.
2. For existing and proposed utilities, see Civil Plans.
3. For Benchmark's, Alignment and Ties, see Sheet No. 13.

LOCHNER
H.W. LOCHNER, INC., CHICAGO, ILLINOIS

GENERAL PLAN & ELEVATION
WILSON ST OVER FOX RIVER
SECTION 00-00059-00-BR
KANE COUNTY
STRUCTURE NO. 045-6051