

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

B.M. - 27 Elev. 424.14 (DOT B.M., PG. 42 Point Mark on Conc. Base of NW Corner Fence Post of Fence, W. of Operating Engineers Bldg., S. of 1270.
T.B.M. - Elev. 453.53 Chiseled \square Top NE corner Concrete Guardrail E.B.L. 1270 Bridge over Engineer Road.
Existing Structure:
Tie to $\&$ FAI 270 Sta. 335+33.21 Sec. 60-316 & 60-317 Elev. 444.99 (A)
Built in 1962. Structure No. 060-0044 EB, 60-0045 WB
Superstructure 3 Units - Unit 1 39'-6" Simple Span,
Unit 2 20'-4" 7/8" Cantilever + 13'-1" 15/16" Span
+ 20'-4" 7/8" Cantilever Continuous over Piers - Unit 3
65'-7 1/16" Simple Span; All Non-Composite.
Substructure 4 Column Trapezoidal Piers.
Superstructure to be completely Removed, New Plate Girders Installed, and Structure widened, Traffic to be Maintained Utilizing Stage Construction.
Elevations noted (A) have been adjusted from existing bridge drawings to match 1994 Survey Datum. These elevations are approximate only.

STATION 335+83.97
REBUILT 1994 BY
STATE OF ILLINOIS
F.A.I. 270 SEC. 60-316Y
PROJECT NO. ACIM-ACBIL-270-6(R)2.0
LOADING HS20 & ALT.
STR. NO. 060-0044

NAME PLATE
(Eastbound lanes)
See Std. 211.3
Note: Existing name plate shall be cleaned and relocated next to the new Name Plate. Cost incidental to "Name Plates".
-0.46028

PROFILE GRADE
(Along $\&$ Eastbound Roadway)
Sta. 334+00.00 Elevation 455.35
Sta. 337+25.00 Elevation 456.62

25 L.F. Temporary Sheet Piling
Top Elev. 455.81
Bott. Elev. 426.81

Design Specifications
AASHTO 1992, 1993 and 1994 Interim Guide Specification for Horizontally Curved Highway Bridge, 1993 and Salonic Retrofit per FHWA Report No. FHWA/RD-83/007

Loading HS 20-44 & Alt. Military
Allow 25% sq. ft. For Future Wearing Surface

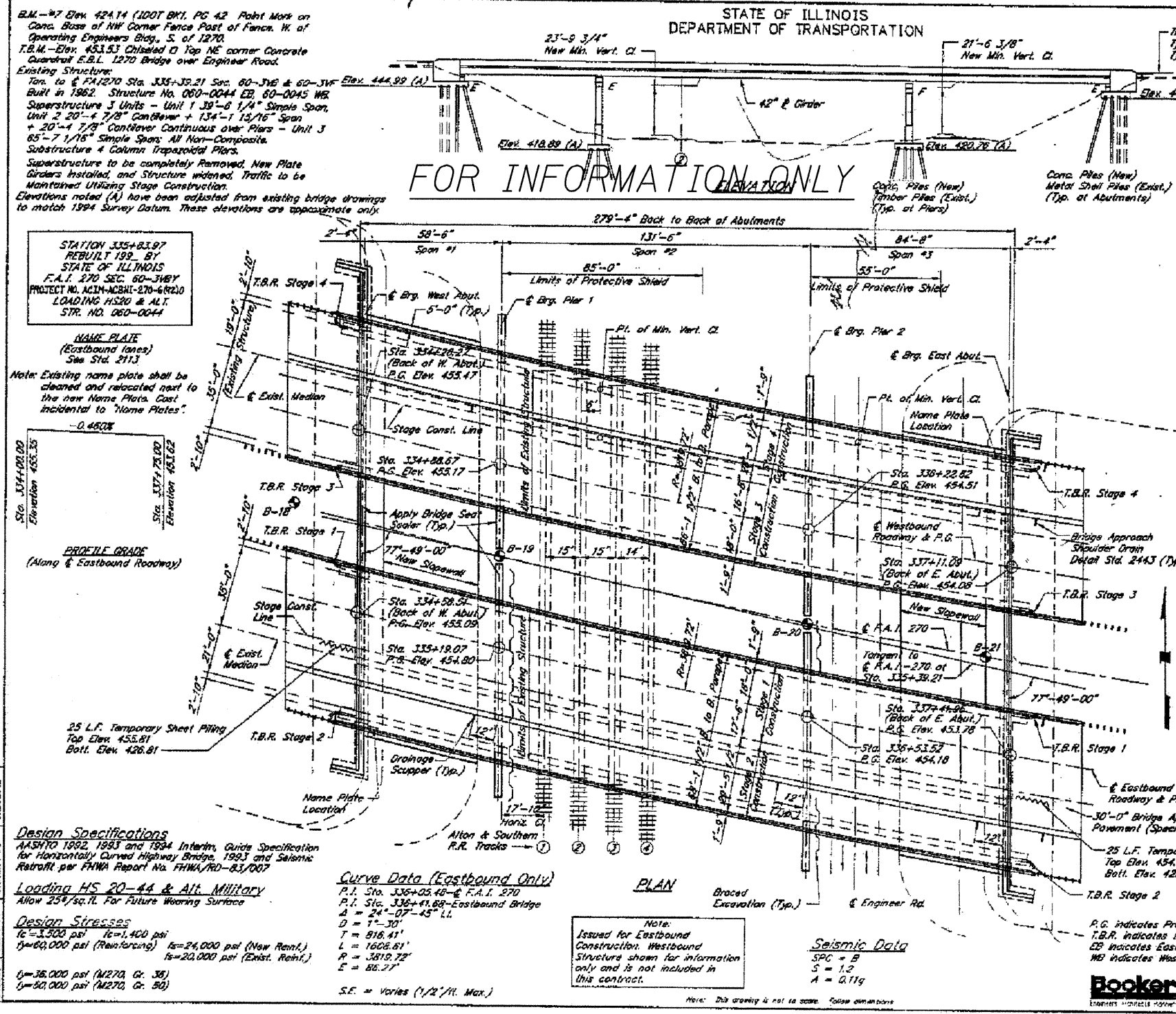
Design Stresses
fc = 3,500 psi (c=1,400 psi)
fs = 60,000 psi (Reinforcing) fs = 24,000 psi (New Reinf.)
fs = 38,000 psi (A270 Gr. 36)
fs = 50,000 psi (A270 Gr. 50)
fs = 20,000 psi (Exist. Reinf.)
E = 29,000,000 psi
S.E. = varies (1/2" / ft. Max.)

Curve Data (Eastbound Only)
P.I. Sta. 336+05.48 - $\&$ F.A.I. 270
P.I. Sta. 336+41.88 - Eastbound Bridge
 $\Delta = 24^{\circ} 07' 45''$ L.L.
D = 1'-30"
T = 816.41'
L = 1606.81'
P = 3819.72'
E = 86.27'

Note:
Issued for Eastbound Construction. Westbound Structure shown for information only and is not included in this contract.

Seismic Data
SPC = B
S = 1.2
A = 0.11g

FOR INFORMATION ONLY

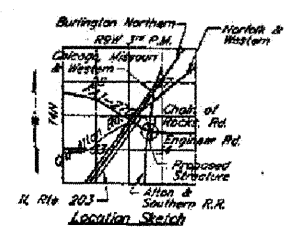


F.A.I. RT. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	D-8 BRIDGE	MADISON	12	7

BILL OF MATERIAL (Eastbound only)

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	-	84.8	84.8
Protective Shield	Sq. Yd.	885	-	885
Removal of Existing Superstructure	Each	1	-	1
Structure Excavation	Cu. Yd.	-	555	555
Brood Excavation	Cu. Yd.	-	273	273
Membrane Expansion Joint 2 1/2"	Foot	88	-	88
Preformed Joint Spool 4"	Foot	64	-	64
Concrete Superstructure	Cu. Yd.	588.3	-	588.3
Concrete Structures	Cu. Yd.	-	539.5	539.5
Protective Goot	Sq. Yd.	462	-	462
Elastomeric Bearing Assembly Type I	Each	9	-	9
Elast. Brg. Assm. Type I (Special)	Each	9	-	9
Elastomeric Bearing Assembly Type III	Each	9	-	9
Structural Steel	L.S.	1	-	1
Stud Shear Connectors	Each	5,805	-	5,805
Reinforcement Bars, Epoxy Coated	Pounds	162,590	84,650	247,240
Furnishing Concrete Piles	Foot	-	3,960	3,960
Driving Concrete Piles	Foot	-	3,960	3,960
Test Concrete Piles	Each	-	2	2
Temporary Sheet Piling	Sq. Ft.	-	1450	1450
Name Plates	Each	1	-	1
Drainage Scaupers	Each	3	-	3
Stage Wall (4")	Sq. Yd.	-	653	653
Stage Wall Slurry Pumping	Cu. Yd.	-	13	13
Stage Wall Removal	Sq. Yd.	-	52	52
Bridge Seat Sealer	Sq. Ft.	-	910	910
Bridge Deck Grooving	Sq. Yd.	-	1964	1964
Formed Concrete Repair (Depth=3")	Sq. Ft.	-	222	222
Bitum. Conc. Surf. Removal (Asbestos)	Sq. Yd.	-	614	614
Bar Splicers	Each	2,090	36	2,146

* Quantity Includes Top and Inside Surfaces of Parapets and Median Barrier Only.



GENERAL PLAN & ELEVATION
F.A.I. RT 270-SEC. 60-316Y
OVER ENGINEER RD. & R.R.
MADISON COUNTY
STA. 335+83.97
STRUCTURE NO. 060-0044 (E.B.)

DESIGNED	AYV
CHECKED	JAU
DRAWN	AYV
CHECKED	JAU

EXAMINED	March 5, 2010
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 5	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OF 10 SHEETS	FAI 270	D-8 Bridge Cleaning 2010-1	MADISON	12	7
			CONTRACT NO. 76D45		
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	