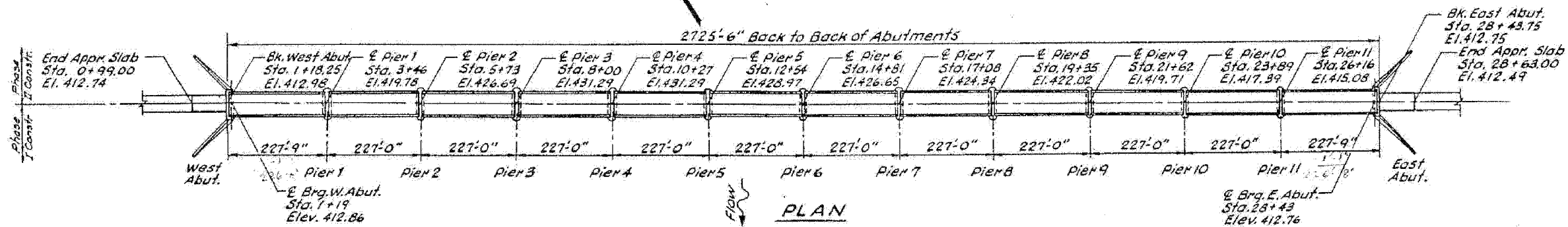
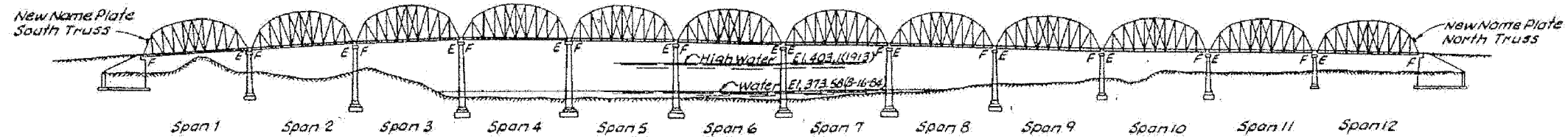


ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 827	12Z-3, 12BR	WABASH, IL GIBSON, IN	158	143
STA.		TO STA.		
F.H.W.A. REGION		ILLINOIS PROJECT		

Existing Structure: Built in 1932. Consists of 12 thru-truss spans with a concrete deck on concrete piers and abutments.
Structure #093-0014
Existing Dimensions: 2725'-6" End to End, 26'-10" Out to Out
Bench Mark: See Sheet 3.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 827	12Z-3, 12BR	WABASH, IL GIBSON, IN	158	143



This is an alteration plan. For details of existing bridge see original plans by State of Illinois, Division of Highways and shop detail plans by Vincennes Bridge Co.

GENERAL NOTES (BRIDGE)

FASTENERS SHALL BE HIGH STRENGTH BOLTS 7/8" DIAMETER, OPEN HOLES 15/16" DIAMETER, UNLESS OTHERWISE NOTED.

THE BASIC LEAD SILICO CHROMATE PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF NEW STRUCTURAL STEEL.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

NEW REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31 OR M-53 GRADE 60.

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 BID FOR THE WORK.

THE COST OF DRILLING THE HOLES AND GROUTING IN THE REINFORCEMENT BARS DETAILED SHALL BE INCIDENTAL TO THE COST OF REINFORCEMENT BARS.

ALL EXISTING STRUCTURAL STEEL SHALL BE CLEANED BY METHOD 1 AND PAINTED WITH THE BASIC LEAD SILICO CHROMATE PAINT SYSTEM.

THE TOTAL ESTIMATED AMOUNT OF STRUCTURAL STEEL TO BE CLEANED AND PAINTED IS 2701 TONS.

TOTAL BILL OF MATERIAL			
ITEM	UNITS	SUPER.	SUBTR. TOTAL
RYLET REPLACEMENT	EACH	3,300	3,300
DRAINAGE SCUPPERS	EACH	480	480
JACKING AND CRIBBING	EACH	24	24
NEOPRENE EXPANSION JOINT 4"	LIN. FT.	240	240
REINFORCED NEOPRENE EXPANSION JOINT TREATMENT	LIN. FT.	23	23
PREFORMED JOINT SEAL 2 1/2"	LIN. FT.	48	48
EPDXY CRACK SEALING	LIN. FT.	1,100	1,100
EPDXY MORTAR REPAIR	CU. FT.	30	30
REMOVAL OF EXISTING CONCRETE DECK	L. SUM	1	1**
CONCRETE REMOVAL	CU. YD.	1	1
REMOVE EXPANSION BEARINGS	EACH	24	24
PROTECTIVE COAT	SQ. YD.	7,150	7,150
CLASS 2 CONCRETE	CU. YD.	1,462.1	1,462.1
STRUCTURAL STEEL REPAIR	LB.	402,370	402,370*
STUD SHEAR CONNECTORS	EACH	36,000	36,000
200 TON EXPANSION BEARING	EACH	24	24
CLEANING AND PAINTING STEEL BRIDGE	L. SUM	1	1
REINFORCEMENT BARS	LB.	110	110
REINFORCEMENT BARS (EPDXY COATED)	LB.	252,740	252,740
STEEL RAILING, TYPE T-1	LIN. FT.	5,400	5,400
NAME PLATES	EACH	2	2
Bridge Neutral Removal	CU. YD.	5450	5450

* CALCULATED WEIGHT OF STRUCTURAL STEEL REMOVED = 402,370 LBS. (INCIDENTAL TO STRUCTURAL STEEL REPAIR)
** INCLUDES APPROXIMATELY 1,345 CU. YD. CONCRETE DECK REMOVAL AND 82,100 LBS. OF CAST STEEL EXPANSION JOINT CASTINGS

STATION 14+81
RECONSTRUCTED 1982 BY
STATE OF ILLINOIS
F.A. RT. 827 SEC. 12Z-3, 12BR
F.A. PROJ. BHF-827(2)
LOADING H520
STR. NO. 093-0014

NAME PLATE
For Details See Std. 2113

STAGING INFORMATION

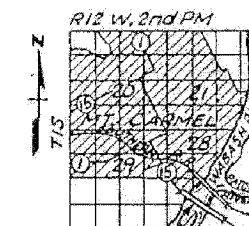
ONE LANE TRAFFIC SHALL BE MAINTAINED THROUGHOUT THE REMOVAL AND REPLACEMENT OF THE CONCRETE DECK AND THE REHABILITATION AND PAINTING OF THE STRUCTURAL STEEL EXCEPT AS NOTED. SEE STAGE CONSTRUCTION DETAILS ON SHEETS 5 & 6.

DESIGN STRESSSES
(NEW CONSTRUCTION)
f_c = 3,500 psi
f_y = 60,000 psi (REINFORCEMENT)
f_t = 18,150 psi (STRUCTURAL STEEL EXISTING)
f_t = 20,000 psi (STRUCTURAL STEEL NEW)

DESIGN SPECIFICATIONS
1983 AASHTO & 1984 INTERMS.

DESIGN LOADING
H520-44 (REHABILITATED BRIDGE)

ALLOW 254/50 FT. FOR FUTURE WEARING SURFACE.



LOCATION SKETCH

FOR INFORMATION ONLY

MT. CARMEL BRIDGE OVER
WABASH RIVER
GENERAL PLAN AND ELEVATION
FA ROUTE 827 (IL 15) SECTION (HB142) BR
WABASH COUNTY

APPROVED
FOR STRUCTURAL ADEQUACY (GIL)

James J. Rayburn
Member of Bridges and Structures



Robert O. Amble

HAZELBET & ZODAL
CONSULTING ENGINEERS
FILE NO.
DRAWN BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]