

EXISTING STRUCTURE:

The existing Bridge No. 022-0151, built in 1985 under Section 58VB-R (84), is a single span, simply supported, 14" thick reinforced concrete slab bridge, that is 30'-8" long back to back of abutments and 87'-2" wide out to out of parapets. The Substructure consists of closed abutments and wingwalls at 45° angles. A 1" open joint separates the northern half of the existing bridge from the southern half.

PROPOSED SCOPE OF WORK

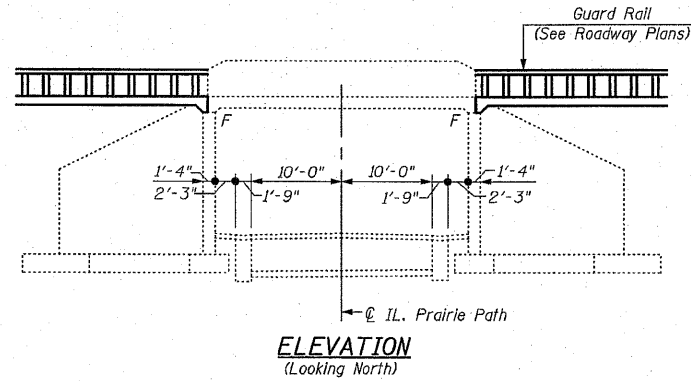
Minor structure repairs are needed for the existing superstructure & substructure.

The entire Longitudinal Joint is to be removed.

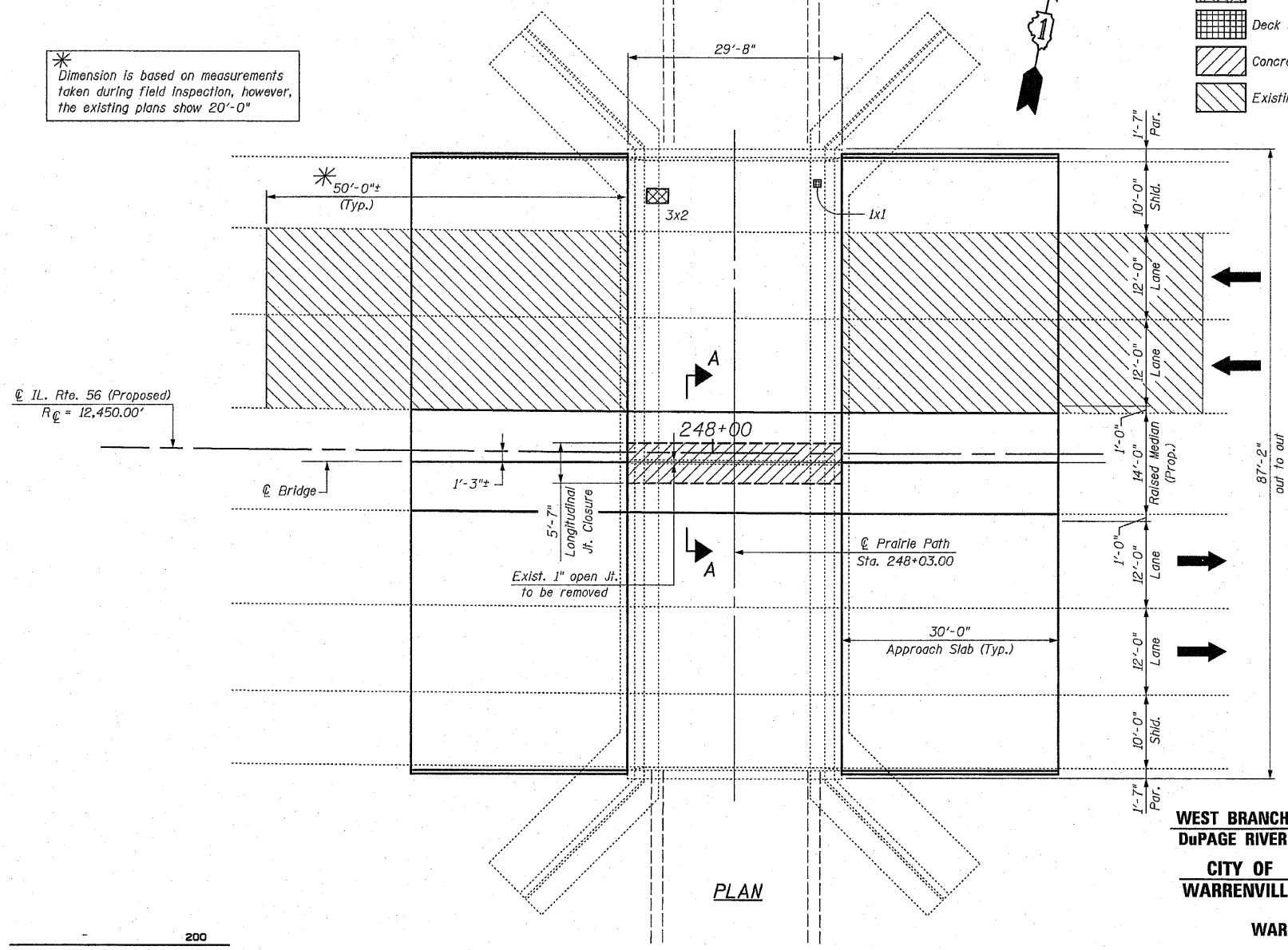
A 14'-0" raised median will be constructed in the center of the bridge.

Scarify bridge deck 1/4 Inch and replace with Bridge Deck Thin Polymer Overlay, 1/4 Inch.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



* Dimension is based on measurements taken during field inspection, however, the existing plans show 20'-0"



LEGEND:

- Deck Slab Repair (Full Depth, Type I)
- Deck Slab Repair (Full Depth, Type II)
- Concrete Removal
- Existing Approach Slab Removal

**DESIGN STRESSES
FIELD UNITS**

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

GENERAL NOTES:

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction 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 scope of the work, however, the contractor will be paid for the quantity actually furnished at the Unit Price bid for the work. Existing Reinforcement Bars extending into the removal areas shall be cleaned, straightened and incorporated into the new construction. Any Reinforcement Bars that are damaged during concrete removal shall be replaced with an approved Bar Splicer or Anchorage System. Reinforcement Bars shall conform to the requirements of A.S.T.M. A-706, Gr. 60. See Special Provisions. Reinforcement Bars designated (E) shall be Epoxy Coated.

INDEX OF SHEETS

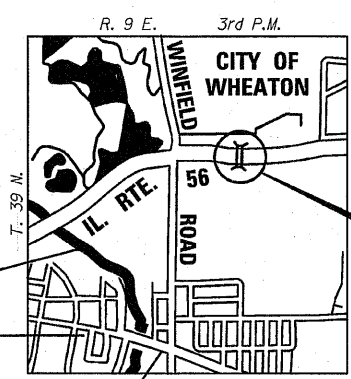
- S1 GENERAL PLAN & ELEVATION
- S2 DECK CROSS SECTION
- S3 BRIDGE APPROACH SLAB DETAILS-I
- S4 BRIDGE APPROACH SLAB DETAILS-II
- S5 ABUTMENT REPAIRS
- S6 BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Reinforcement Bars, Epoxy Coated	Pound	71,370
Concrete Superstructure	Cu. Yd.	286.7
Concrete Structures	Cu. Yd.	53.0
Concrete Removal	Cu. Yd.	8.6
Concrete Bridge Deck Scarification, 1/4 Inch	Sq. Yd.	231
Bridge Deck Thin Polymer Overlay, 1/4 Inch	Sq. Yd.	231
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	1
Structural Repair of Concrete (Depth Greater than 5 Inches)	Sq. Ft.	1
Structural Repair of Concrete (Depth Equal to or less than 5 Inches)	Sq. Ft.	11.0
Approach Slab Removal	Sq. Yd.	267
Bar Splicers	Each	282



Bhadresh N. Shah
BHADRESH N. SHAH 04/23/2010
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS LIC. No. 081-004476
EXPIRES: 11-30-10



LOCATION SKETCH

DESIGNED -	200
CHECKED -	EXAMINED
DRAWN -	PASSED
CHECKED -	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
PHONE: (312)372-2023 FAX: (312)372-5274

SHEET NO. S1	F.A. RTE. 365	SECTION (58&59) WRS-3	COUNTY DuPAGE	TOTAL SHEETS 466	SHEET NO. 250
S6 SHEETS	CONTRACT NO. 62420			ILLINOIS FED. AID PROJECT	