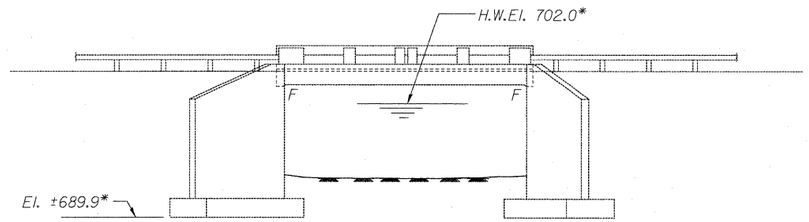
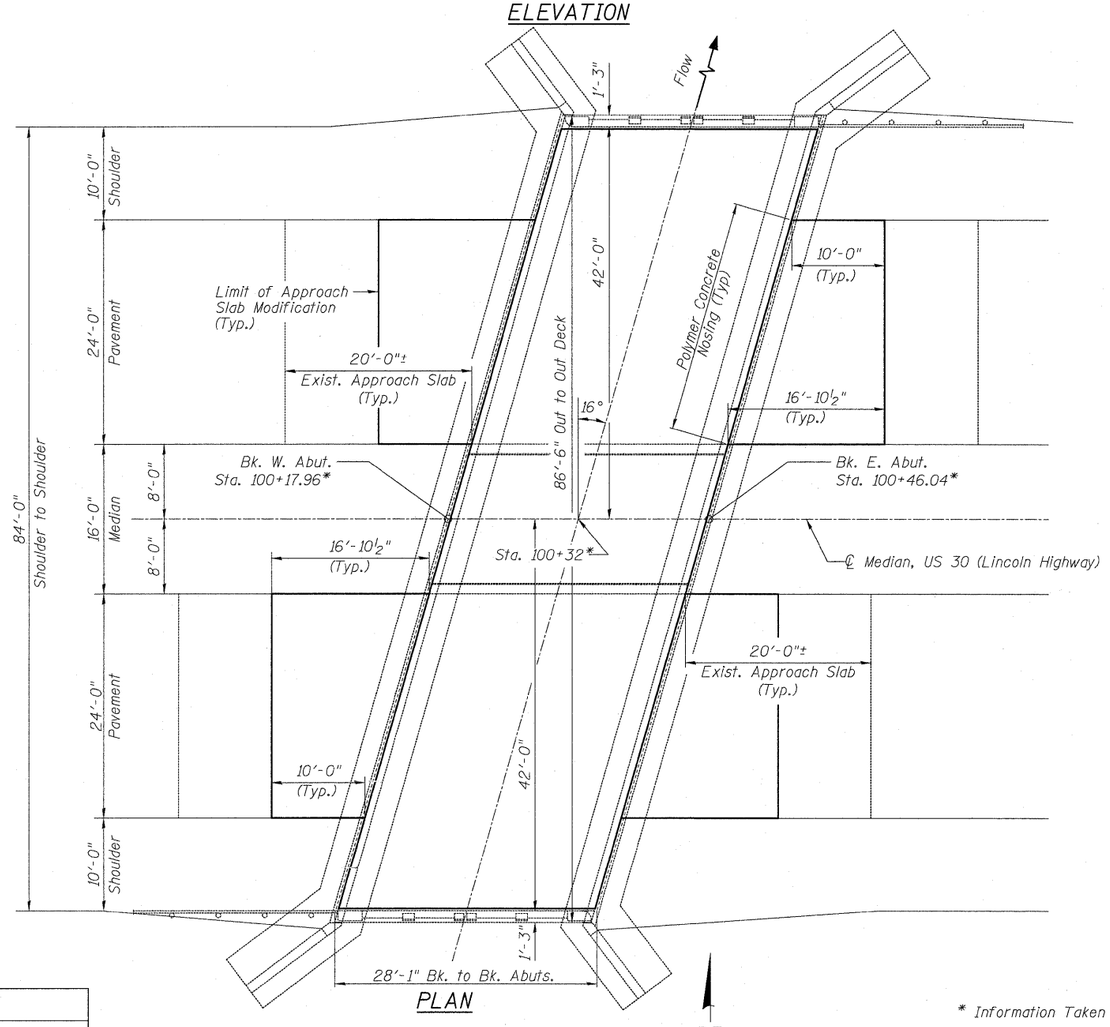
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Existing Structure: SN 016-0286, built in 1954 as FA Rte. 23, Section 22, 23-R-1 and widened in 1968 as a single span Reinforced Concrete slab. The structure measures 86'-6" Out to Out Deck and 28'-1" Bk. to Bk. Abutments. The substructure consists of Reinforced Concrete closed abutments. Traffic is to be maintained utilizing stage construction.



ELEVATION



PLAN

SCOPE OF WORK

1. Remove HMA Overlay, 2"±.
2. Hydro-scarify ½ inch slab surface.
3. Structural Repairs of Concrete to parapets and substructures.
4. Full and Partial Depth Slab repairs.
5. Eliminate longitudinal joint in median.
6. 2½" inch latex concrete overlay.
7. Overlay approaches to account for change in deck elevation.

INDEX OF SHEETS

S1 - General Plan & Elevation
S2 - Stage Construction Details
S3 - Temporary Concrete Barrier
S4 - Bridge Deck Patching Plan
S5 - Parapet Repair Details
S6 - Abutments Repairs
S7 - Approach Slab Modification & Median Joint Elimination Details

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.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications, 17th Edition. 1

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi

LAST DELAMINATION SURVEY

October 2009

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	154	-	154
Hot-Mix Asphalt Surface Removal, 2"	Sq. Yd.	144	-	144
Concrete Removal	Cu. Yd.	14	-	14
Concrete Superstructure	Cu. Yd.	14	-	14
Reinforcement Bars, Epoxy Coated	Pound	2,650	-	2,650
Bridge Deck Hydro-scarification ½"	Sq. Yd.	213	-	213
Bridge Deck Grooving	Sq. Yd.	201	-	201
Protective Coat	Sq. Yd.	218	-	218
Bridge Deck Latex Concrete Overlay, 2½"	Sq. Yd.	213	-	213
Structural Repair of Concrete (Depth equal to or less 5 inches)	Sq. Ft.	40	14	54
Structural Repair of Concrete (Depth greater than 5 inches)	Sq. Ft.	-	83	83
Deck Slab Repair (Full Depth Type II)	Sq. Yd.	9	-	9
Hot-Mix Asphalt Surface Course, Mix "D", N-70, 1"	Tons	13	-	13
Leveling Binder (Machine Method), IL9.5, N-70, 1"	Tons	12	-	12
Polymer Concrete	Cu. Ft.	7	-	7

THEODORE P. GEORGAS
081-004609
REGISTERED STRUCTURAL ENGINEER
STATE OF ILLINOIS

3-26-10
Theodore P. Georgas — Date
Licensed Structural Engineer
State of Illinois 081-4609
Expires 11/30/2010

* Information Taken from 1967 Exist. Plans.

GENERAL PLAN & ELEVATION
FAP 353/US 30 (LINCOLN HIGHWAY)
OVER BUTTERFIELD CREEK
COOK COUNTY
STATION 100+32.00
STRUCTURE NO. 016-0286

DESIGNED	JPM				
CHECKED	TG				
DRAWN	MPS				
CHECKED	JPM, TG				

Primera
100 S. WACKER DRIVE SUITE 700 . CHICAGO IL 60606 . P:312-606-0910 F:312-606-0415

SHEET NO. S1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S7 SHEETS	353	23 R-B-I	COOK	20	9
			CONTRACT NO. 60J43		
		ILLINOIS	FED. AID PROJECT		