CONTRACT NO. 78031

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	105BR-3	SALINE	118	101
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

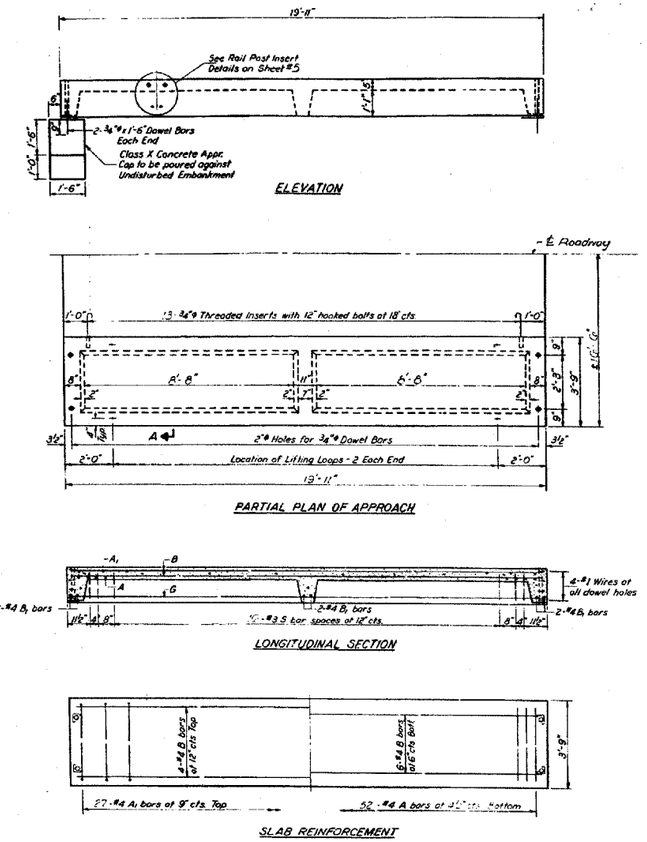
ESCA CONSULTANTS, INC.
CIVIL & STRUCTURAL ENGINEERS
URBANA, ILLINOIS

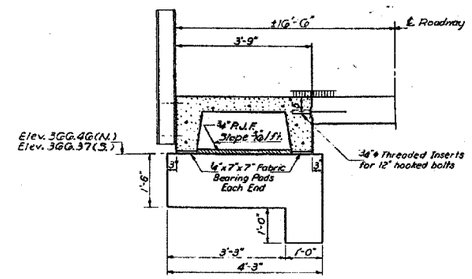
STATE OF ILLINOIS
DIVISION OF HIGHWAYS

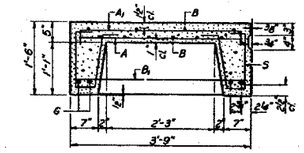
*105(B-DR, B-DR1, B-DR2, B-DR3, B-DR4)

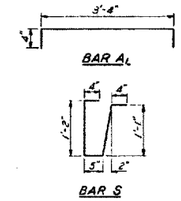
143	#	SALINE	68	35

SHEET NO. 2
7 SHEETS









BAR LIST - ONE UNIT

Reinforcement to be cast into slab

Bar	No	Size	Length	Shape
A	52	#4	3'-3"	
A1	27	#4	4'-0"	
B	10	#4	19'-6"	
B1	6	#4	3'-6"	
G	4	#10	19'-6"	
S	12	#3	3'-4"	

NOTES

Unless otherwise approved by the Engineer, lifting loops shall be ½"φ, 6x19 class wire rope with fiber core and shall have a minimum ultimate strength of 18,700 lbs. Loops shall be burned off after slab has been erected.

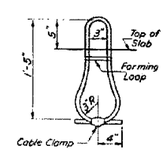
Holes shall be drilled and anchor dowels grouted in place.

Cost of reinforcement and accessories cast into the slab unit, bearing pads, furnishing, drilling for, placing and grouting anchor dowels and ¾"φ hooked bolts is included in Unit bid price for "Precast Concrete Bridge Slab."

The Precast Concrete Bridge Slab shall be erected and aligned with the exterior face of the exterior Deck Beam after Deck Beams are in final position.

BILL OF MATERIAL

Item	Unit	Quantity
Precast Concrete Bridge Slab	Sq. Ft.	299
Class X Concrete	Cu.Yds.	1.6



STRESSES

fc = 4,500 psi
fc = 1,800 psi
fs = 20,000 psi
n = 8

LOADING HS-20

DESIGNED	
CHECKED	
DRAWN	JACOBS
CHECKED	JP

EXAMINED Sept 14 19
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

AP-1 20' Precast Appr Unit (Rt. L) 5-5-71

APPROACH DETAILS

S.B.I. RTE. SEC. 105B-DR-2
SALINE COUNTY
STA. 1574+00

ESCA CONSULTANTS, INC.

DESIGNED BY:	DAJ	02/08
DRAWN BY:	JPC	02/08
CHECKED BY:	MTD	02/08
APPROVED BY:	RDP	04/08

FOR INFORMATION ONLY

EXISTING STRUCTURE PLANS
FAP RTE 869 (IL 34)
SECTION 105BR-3
SALINE COUNTY