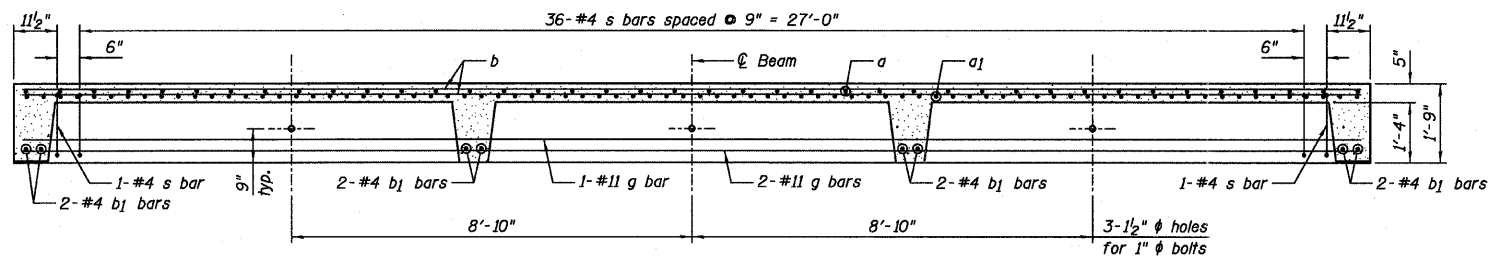
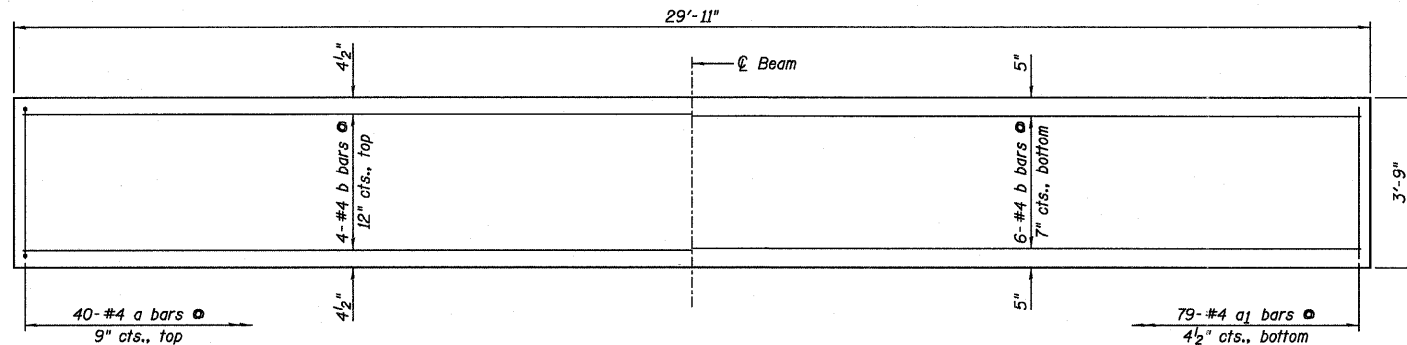


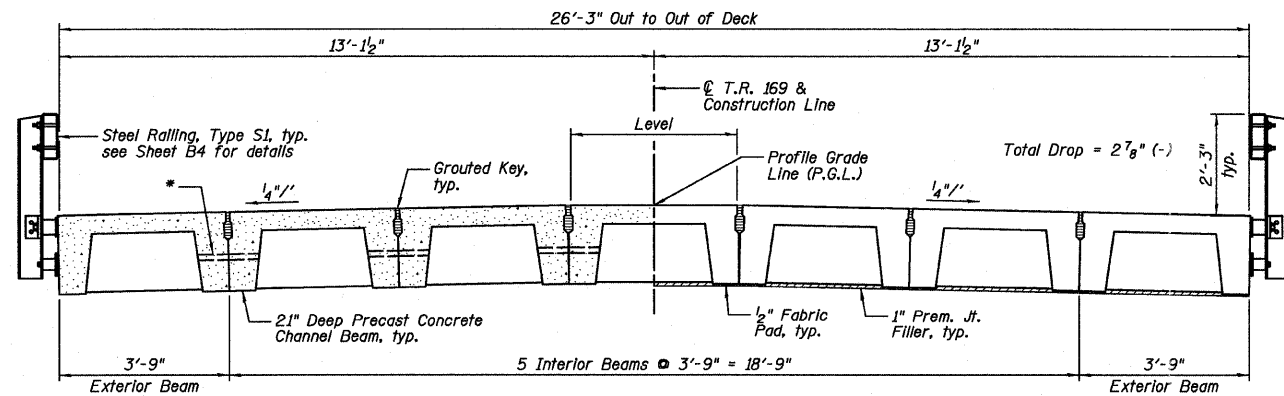
PLAN



LONGITUDINAL SECTION



SLAB REINFORCEMENT PLAN

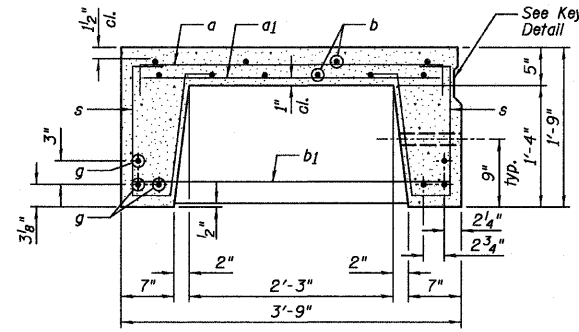


HALF SECTION

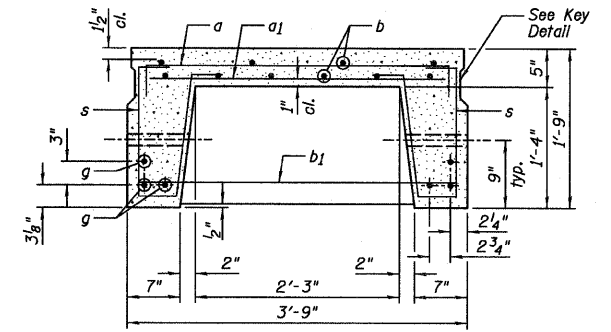
CROSS SECTION

(Looking East @ ϕ of Bridge)

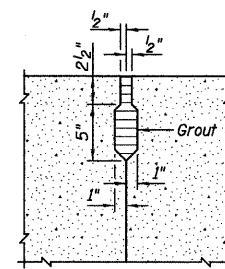
*1 1/2" ϕ hole for 1" ϕ x 18" bolts with bevel washers under head and nut, typ. Assemblies shall be hot dipped galvanized in accordance with AASHTO Designation M232.



SECTION THRU EXTERIOR BEAM

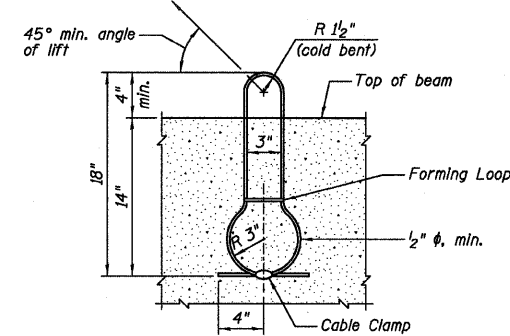


SECTION THRU INTERIOR BEAM



KEY DETAIL

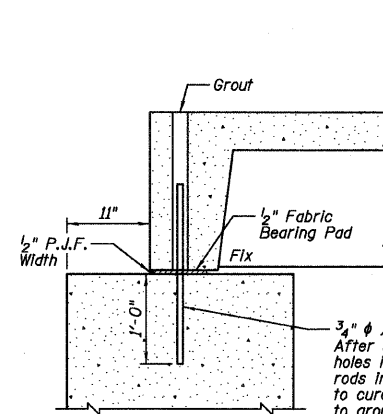
Longitudinal shear keys shall be packed with a flowable non-shrink grout. See Article 504.06 of the Standard Specifications.



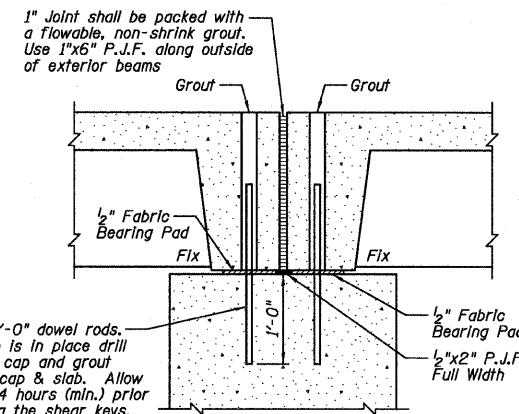
LIFTING LOOP DETAIL

BILL OF MATERIAL - PRECAST SLAB
For information of supplier of precast slab units only.

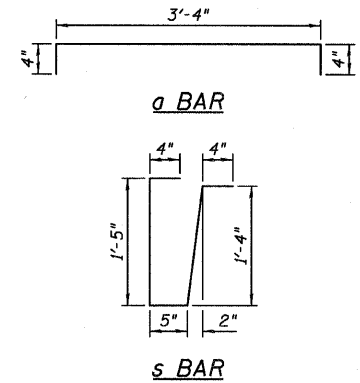
Bar	No.	Size	Length	Shape	
a	40	#4	4'-0"	□	
a1	79	#4	3'-3"	□	
b	10	#4	29'-6"	□	
b1	8	#4	3'-6"	□	
g	6	#11	29'-6"	□	
s	78	#3	3'-10"	□	
Item				Unit	Quantity
Class PC Concrete				Cu. Yd.	4.1
Reinforcement Bars				Pound	1,547
Total Weight				Pound	16,605



ABUTMENT CONNECTION



PIER CONNECTION

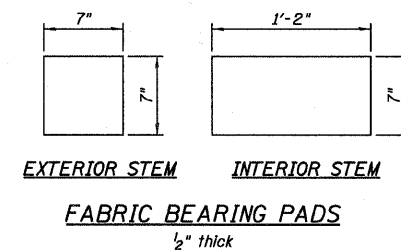


BILL OF MATERIAL

Item	Unit	Quantity
Precast Concrete Bridge Slab	Sq. Ft.	2,356

NOTES:

- 1.) Cost of reinforcement and accessories cast into slab unit, of bearing pads, furnishing drilling for, placing and grouting anchor dowels and of grouting longitudinal shear keys and transverse joints is included in the unit bid price for "Precast Concrete Bridge Slab".
- 2.) The surface of the member shall not deviate more than 1/1200 of the full length of the member from a straight line connecting the two end points on the member surfaces.
- 3.) The units shall remain on the bottom supporting forms until the concrete has attained a compressive strength of not less than 3,500 psi.
- 4.) Tack welding of stirrups to the bottom longitudinal reinforcement bars will not be permitted except as otherwise authorized in writing by the Engineer.
- 5.) Unless otherwise approved by the Engineer, lifting loops shall be 6x25 class wire rope with fiber core and shall have a minimum ultimate strength of 21,000 lbs. Loops shall be burned off after beams have been erected.
- 6.) All transverse tie assemblies (nuts, bolts and washers) shall be hot dipped galvanized in accordance with AASHTO M232.
- 7.) After beams have been erected, holes for the dowel anchors shall be drilled into the substructure and the anchor dowels shall be grouted in place, and allowed to cure a minimum of 24 hours prior to grouting of shear keys.



Farnsworth GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

DESIGNED - CEE	REVISED
CHECKED - JML	REVISED
DRAWN - DJM	REVISED
DATE - 02/06/12	CHECKED - MSW

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BRIDGE SLAB

SHEET NO. B3 OF 9 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
169	09-20110-02-BR	LIVINGSTON	17	8
				CONTRACT NO. 87496

ILLINOIS FED. AID PROJECT