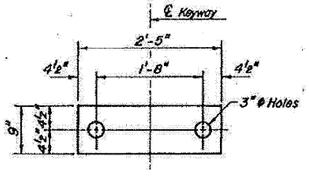
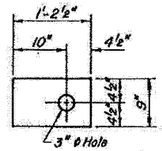
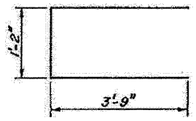


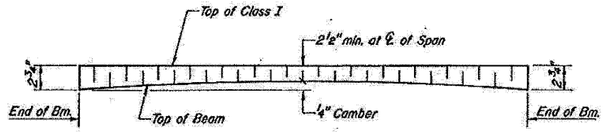
FABRIC BEARING PAD
(Interior)



FABRIC BEARING PAD
(Exterior)



U BAR

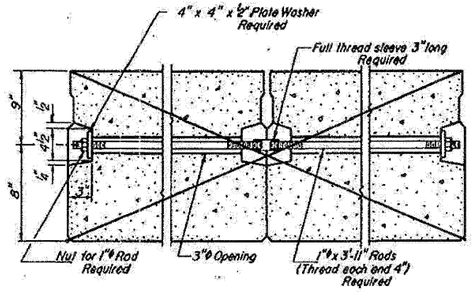


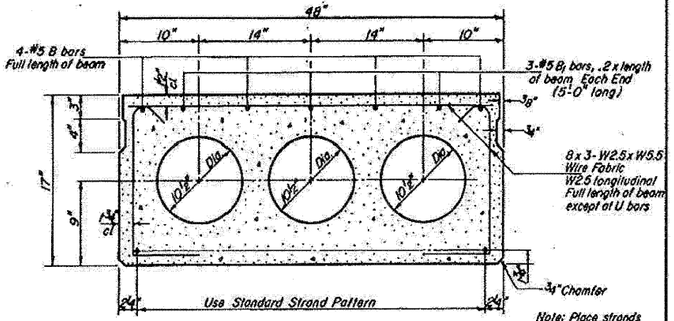
CAMBER DIAGRAM

NOTE:
Omit Keyway on facia side exterior beams.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 587	22BR	BUREAU	24	11
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

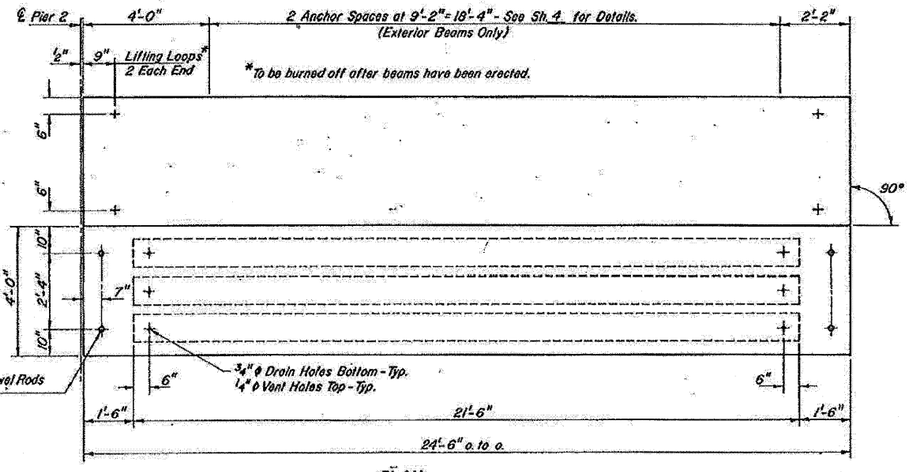
SHEET NO. 3
8 SHEETS



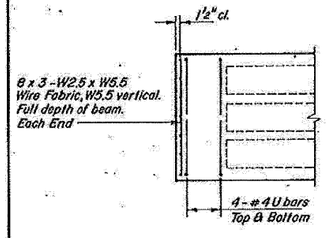


Note: Place strands symmetrically about ℄ of beam.

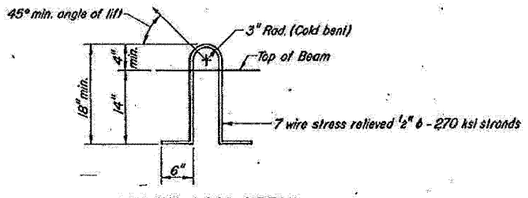
TYPICAL SECTION
5 - ½" ϕ Strands, Each Strand Stressed to 28,900 Lbs.
5 - Strands 1¾" up



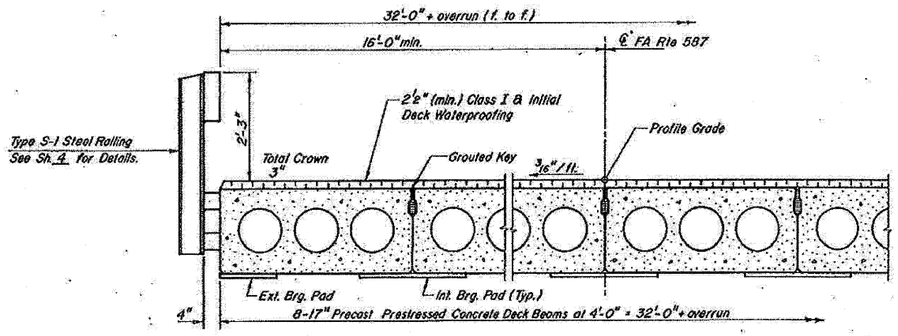
PLAN



END PLAN



LIFTING LOOP DETAIL



PARTIAL CROSS SECTION

NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

Lifting loops shall be ½" diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 21,000 lbs. or 2 - ½" ϕ - 270 ksi strands.

~~The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.~~

Reinforcement bars shall conform to AASHTO: M-31 or M-53, Grade 60.

The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two ½" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

An equal substitution of the low-relaxation strands for the stress-relieved strands will be permitted.

Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sand-blasting the keyway areas between the top of the beam and the bottom edge of the key.

Work this sheet with sheets 5 and 6 of 8.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
Precast Prestressed Concrete Deck Beams (17" Depth)			Sq. Ft.	784

SUPERSTRUCTURE

SPAN 3
FA RTE 587 OVER PIKE CR
SECTION 22BR
BUREAU COUNTY

GREENE & BRADFORD, Ltd.
CONSULTING ENGINEERS
1615 STEVENSON DR. • 217/529-6641 • SPRINGFIELD, ILL.

EXISTING PLANS
FOR INFORMATION ONLY
S.N. 006-0147

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, NOTE BOOK, NO., CADD FILE NAME, BY, DATE

PROFILE: SURVEYED, PLOTTED, ALIGNMENT CHECKED, B.M. NOTED, STRUCTURE NO. & TYPE CHKD, NOTE BOOK, NO., BY, DATE

DELTA ENGINEERING GROUP, LLC
CONSULTING ENGINEERS, CONSTRUCTION MANAGERS, SURVEYORS
115 W. JACKSON BLVD., SUITE 916, CHICAGO, IL 60604

USER NAME = kkhan	DESIGNED DB	REVISED -	
	DRAWN DB	REVISED -	
PLOT SCALE = *SCALE*	CHECKED AS	REVISED -	
PLOT DATE = 10/11/2011	DATE OCTOBER 14, 2011	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN - STRUCTURE

SCALE: NTS | SHEET NO. 45 OF 61 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22 BR)BR	BUREAU	61	45
		CONTRACT NO. 66995		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FILE NAME = g:\zpl01101\cadd sheets\rdwySN-006-0183-45exist-structure.dgn