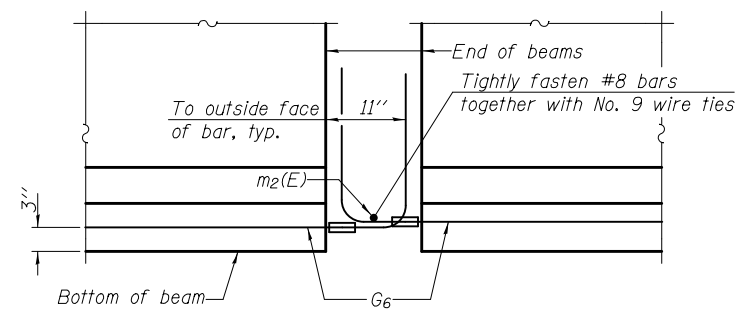
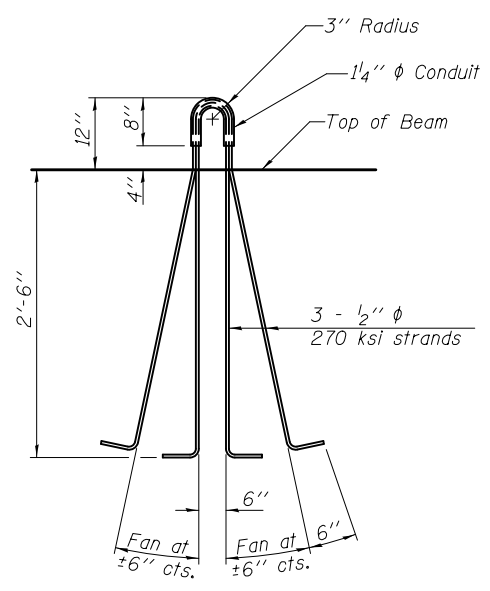


**NOTES**

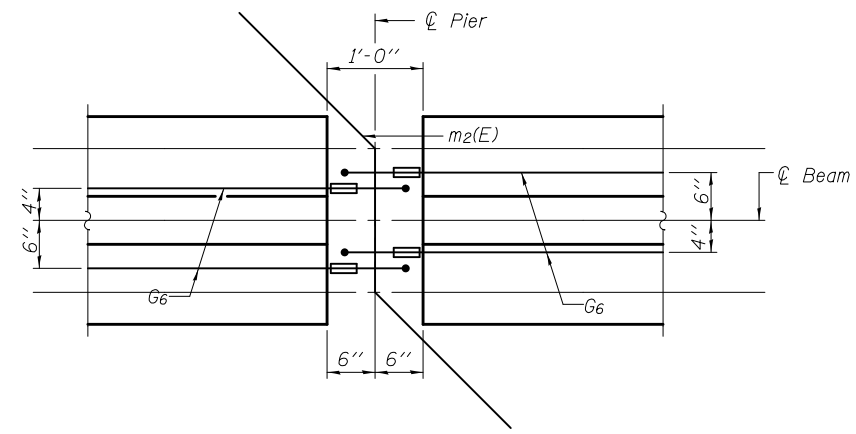
Inserts for  $\frac{3}{4}$ "  $\phi$  threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams.  
 Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be  $\frac{1}{2}$ " and the nominal cross-sectional area shall be 0.153 sq. in.  
 Reinforcement bars shall conform to ASTM A 706, Grade 60.  
 A minimum  $2\frac{1}{2}$ "  $\phi$  lifting pin shall be used to engage the lifting loops during handling. Tilt  $G_6$  bars when necessary to maintain  $\frac{1}{2}$ " clearance.  
 The top and bottom plates shall be AASHTO M270 Grade 50.  
 The bottom plates shall be galvanized according to AASHTO M111. Top plates and threaded rods need not be galvanized.  
 Threaded rods shall be ASTM F 1554 Grade 55.  
 The  $G_6$  bar assembly shall be capable of developing 125 percent of the yield strength of the grade 60 reinforcement bar components. The assembly shall allow completion of the splice without turning of the hook bar. The hook bar shall be threaded such that the entire coupler can be threaded onto the hook bar.  
 Beams requiring  $G_6$  bar assemblies shall not be released from the fabricator until they have attained 45 days of age or older.



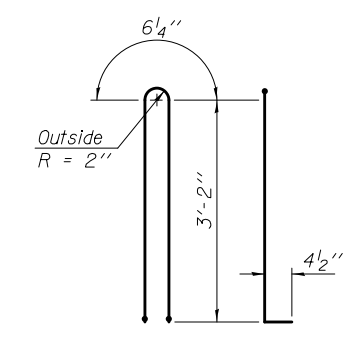
**ELEVATION OF BEAM AT PIER**



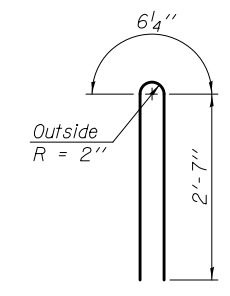
**LIFTING LOOP DETAIL**



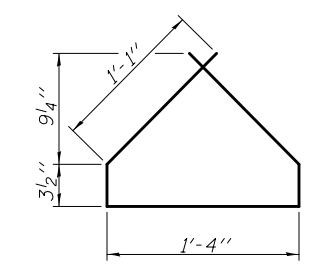
**PLAN OF BEAM AT PIER**



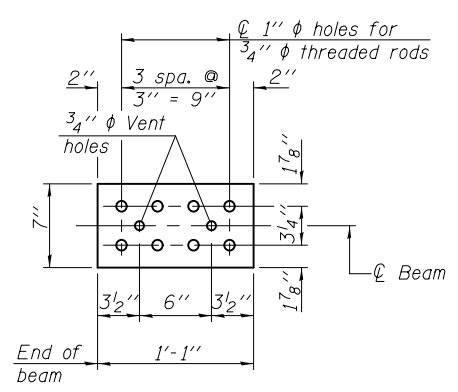
**BAR G1**



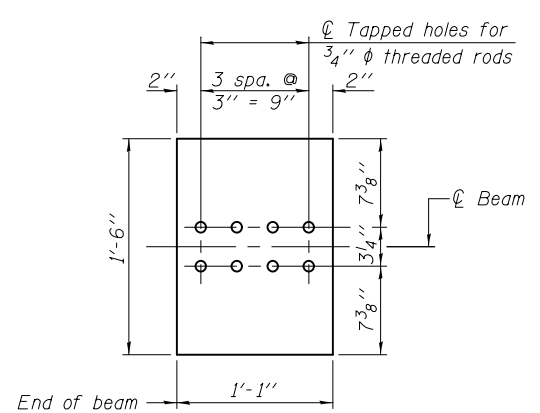
**BAR G2**



**BAR G4**

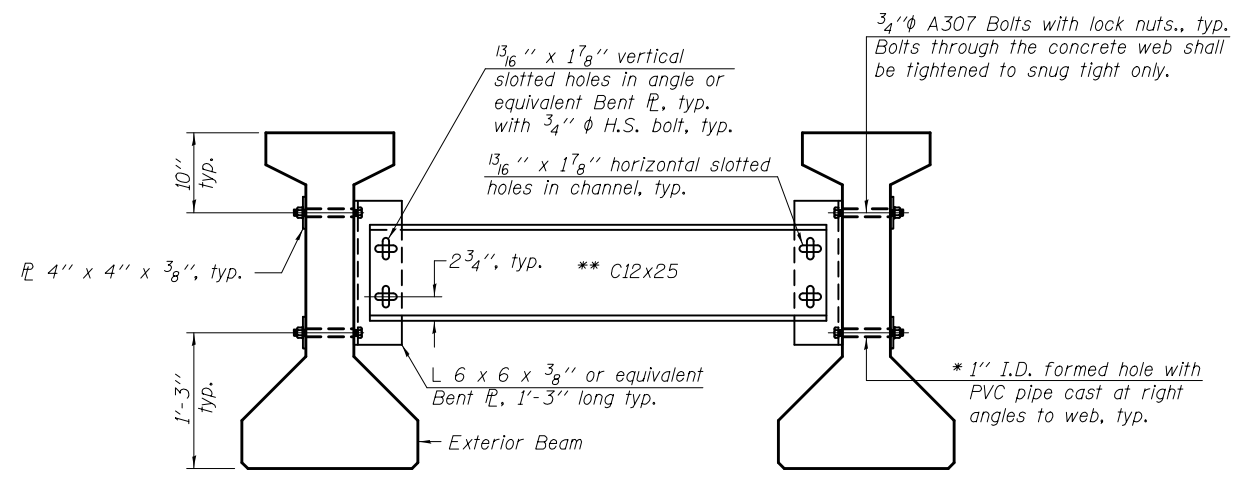


**TOP PLATE**



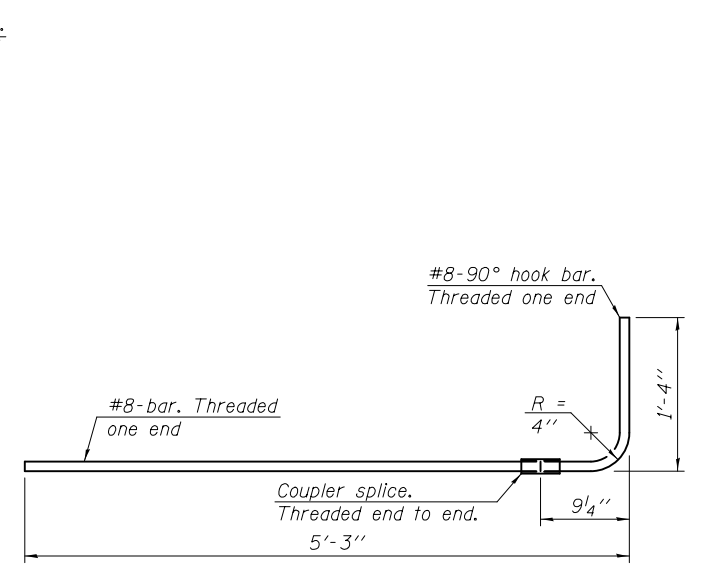
**BOTTOM PLATE**

See bearing details for pintle hole locations when required.



**Notes:**  
 All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.  
 Two hardened washers are required for each set of oversized holes.  
 All holes shall be  $\frac{15}{16}$ "  $\phi$  unless otherwise noted.  
 $\frac{5}{16}$ " x 3" x 3" plate washers are required over all slotted holes.  
 All bolts shall be galvanized according to AASHTO M232.  
 Bracing shall be installed as beams are erected and tightened as soon as possible during erection.  
 Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete I-Beams.

**PERMANENT BRACING DETAILS FOR 36" PPC I-BEAMS**



**G6 BAR ASSEMBLY**

**BILL OF MATERIAL**

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 36"	Ft.	718.5

PI-4-36D 1-28-11

DESIGNED - MARK D. SHAFFER	EXAMINED - <i>James F. J...</i>	DATE - JANUARY 24, 2014
CHECKED - STEPHEN M. RYAN	PASSED - <i>Carl...</i>	REVISOR
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISOR
CHECKED - F.T. / G.R.A.		

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**36" PPC I-BEAM DETAILS STRUCTURE NO. 100 - 0081**

SHEET NO. 18 OF 26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588	39B-2	WILLIAMSON	224	111
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78277	