

ELEVATION OF BEAM AT PIER





shall be 0.153 sq. in.



BAR GI

PLAN OF BEAM AT PIER





PI-4-36D 1-28-11	
SEC Group, Inc.	
An Hild Green Company 420 N. Frond Stenet, Mohenny, L. 20056-2180 L 5153.85 (778 J. 4 153.385, 1781 www.waggruppinc.com Mohenny, L. Yorkulla, L. Yorkulla, L. Yokay, J.	
PB Americas, Inc.	USER NAME = whood
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NAME: SEC GROUP INC. CONTACT: Robert G. Dovies ILLINOIS DEPARTMENI

E	 MoHenry, IL -Yorkville, IL -New Lenox, IL -Chicago, IL 						
COMPANY NAME: PRUJECT CONTAC CLENT: DATE PLOTTED: DATE PLOTTED: FILE NAME: PLOT DRIVER: PLOT DRIVER:	PB Americas, Inc.	USER NAME = whood	DESIGNED - MGH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PRESTRESSED BEAM DETAIL STRUCTURE NO. 047-	
	230 WEST MONROE STREET,		CHECKED - SSM	REVISED -			
		PLOT SCALE =	DRAWN - RCB	REVISED -			
	CHICAGO, IL. 60606	PLOT DATE = 10/14/2011	CHECKED - RGD	REVISED -		SHEET NO. S-24 OF S-43 SH	
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<u>NOTES</u>

Inserts for ${}^{3}_{4}$ " ϕ 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 l_2'' and the nominal cross-sectional area

Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions). A minimum $2l_2'' \phi$ lifting pin shall be used to engage the lifting loops during handling. Tilt G_6 bars when necessary to maintain 1_2^{l} 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 G₆ 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 G₆ bar assemblies shall not be released from the fabricator until they have attained 45 days of age or older.





BAR G2



BILL OF MATERIAL

Item	Unit	• Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 36″	Ft.	709

ILS – 36″ 12SU 7–0051		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		14BR-1	KENDALL	429	274
			CONTRACT	NO. 6	6985
SHEETS	ILLINOIS FED. AID PROJECT				