## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



Notes: Fasteners shall be high strength bolts.  ${}^3_4{}^{\prime\prime}$   $\phi$ , open holes  ${}^{l5}_{l6}{}^{\prime\prime}$ . Details other than those shown are allowed subject to approval of the Engineer. All inserts shall be galvanized in accordance with AASHTO M232. Remove temporary bracing after falsework for deck is removed and fill inserts with  ${}^{3}_{4}$ "  $\phi$  bolts galvanized in accordance with AASHTO M232. For insert locations see sheets 13 and 14 of 31. Temporary bracing, inserts, and all associated hardware are included with "Furnishing and Erecting Precast Prestressed Concrete Bulb-T Beams, 72".



		INTERIOR BEAM REACTION TABLE - SERVICE						
			W. Abut.	Pier 1 Span 1	Pier 1 Span 2	Pier 2 Span 2	Pier 2 Span 3	E. Abut.
	R DL	(k)	86.9	86.9	91.4	91.4	66.4	66.4
*	R SDL	(k)	21.5	32.3	32.3	27.0	27.0	15.4
*	R 4	(k)	34.6	32.7	32.7	29.9	29.9	33.6
*	R Imp	(k)	6.9	6.5	6.5	6.3	6.3	7.7
	R Total	(k)	149.9	158.4	162.9	154.6	129.6	123.1

I and I' are the moment of inertia and composite moment of inertia of the beam section.

 $S_b$  and  $S_b'$  are the non-composite and composite section

modulus for the bottom fiber of the prestressed beam.

St and St' are the non-composite and composite section

modulus for the top fiber of the prestressed beam. M D is the moment due to dead loads on the non-composite prestressed

beam. It is conservatively calculated at 0.5 of the span.

 $M \subseteq \mathcal{D}$  is the moment due to dead loads on the composite section.

 $\underline{ML}$  is the moment due to live load on the composite section.  $\underline{M}$  (Imp) is the moment due to live load impact on the composite section.

\*The total R SDL, R 4 and R Imp are assumed to be distributed evenly to each bearing line at a pier regardless of the span ratios.



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DESIGNED	M.D.S.	February 3, 2006
CHECKED	S.M.R.	EXAMINED Thomas & Domagalifei)
DRAWN	W.D.C.	PASSED Ralph E. anderson
CHECKED	M.D.S./S.M.R.	ENJINEER OF BRIDGES AND STRUCTURES

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## TEMPORARY BRACING



DETAIL B

FRAMING DETAILS F.A.P. ROUTE 627 - SECTION (1)BR LASALLE COUNTY STATION 26+61.50 STRUCTURE NO. 050-0242

 $\overline{{}^{3}_{4}}^{\prime\prime} \phi$  H.S. Bolts typ. (Field drill holes in