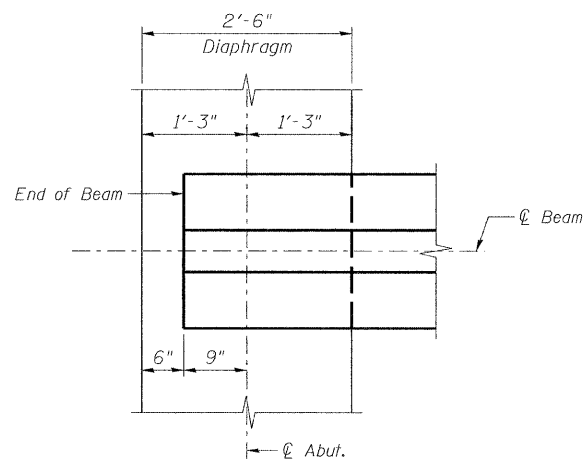
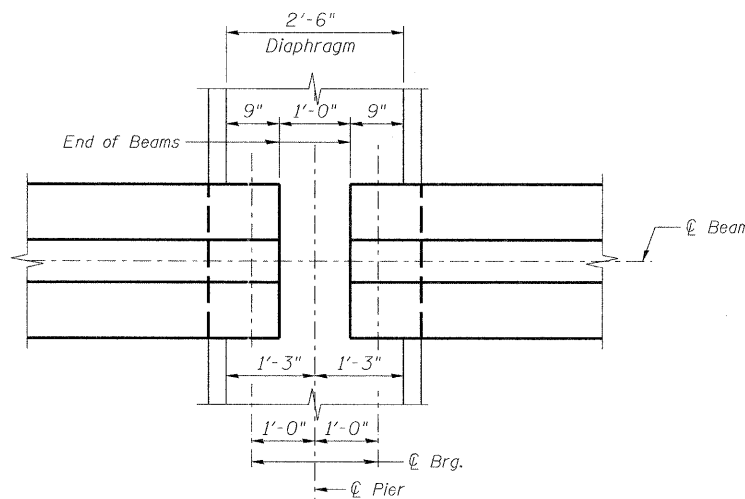


PLAN



DETAIL A



DETAIL B

		0.4 Sp. 1 0.6 Sp. 3	Pier 1 or 2	0.5 Sp. 2
I	(in ⁴)	90,955	-	90,955
I'	(in ⁴)	301,142	-	301,142
S_b	(in ³)	5,153	-	5,153
S_b'	(in ³)	9,150	-	9,150
S_t	(in ³)	3,735	-	3,735
S_t'	(in ³)	33,129	-	33,129
$DC1$	(k/')	1.17	-	1.17
M_{DC1}	(k)	167	-	625
$DC2$	(k/')	0.15	0.15	0.15
M_{DC2}	(k)	5	43	36
DW	(k/')	0.30	0.30	0.30
M_{DW}	(k)	10	87	73
$M_L + IM$	(k)	401	552	544

		Abut.	Pier 1 Span 1 Pier 2 Span 3	Pier 1 Span 2 Pier 2 Span 2
R_{DC1}	(k)	20.3	20.3	38.4
* R_{DC2}	(k)	1.4	4.6	4.6
* R_{DW}	(k)	2.9	9.1	9.1
* $R_L + IM$	(k)	60.5	62.9	62.9
R_{Total}	(k)	85.1	96.9	115.0

* The total R_{DC2} , R_{DW} and $R_L + IM$ are assumed to be distributed evenly to each bearing line at a pier regardless of the span ratios. The bearing design at a pier is based on the maximum reactions of either span.

- I : Non-composite moment of inertia of beam section (in⁴).
- I' : Composite moment of inertia of beam section (in⁴).
- S_b : Non-composite section modulus for the bottom fiber of the prestressed beam (in³).
- S_b' : Composite section modulus for the bottom fiber of the prestressed beam (in³).
- S_t : Non-composite section modulus for the top fiber of the prestressed beam (in³).
- S_t' : Composite section modulus for the top fiber of the prestressed beam (in³).
- $DC1$: Un-factored non-composite dead load (kips/ft.).
- M_{DC1} : Un-factored moment due to non-composite dead load (kip-ft.).
- $DC2$: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- M_{DC2} : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW : Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- M_{DW} : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- $M_L + IM$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

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FILE NAME =
#588225.66A20_016.FrmpLn.dgn

USER NAME = akeaschall
DESIGNED - JLS
CHECKED - AJK
DRAWN - RMG
CHECKED - HMA
PLOT SCALE =
PLOT DATE = 10/20/2011

REVISIED -
REVISIED -
REVISIED -
REVISIED -

DESIGNED - JLS
CHECKED - AJK
DRAWN - RMG
CHECKED - HMA

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN
STRUCTURE NO. 050-0255
SHEET NO. S16 OF S35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
68	(3)BR-3	LASALLE	63	29
CONTRACT NO. 66A20			ILLINOIS FED. AID PROJECT	

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