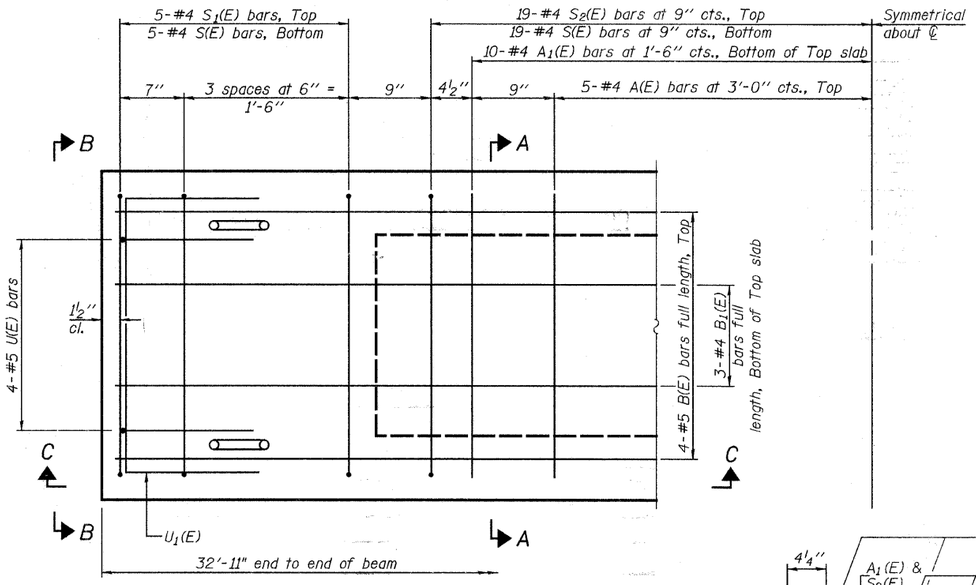
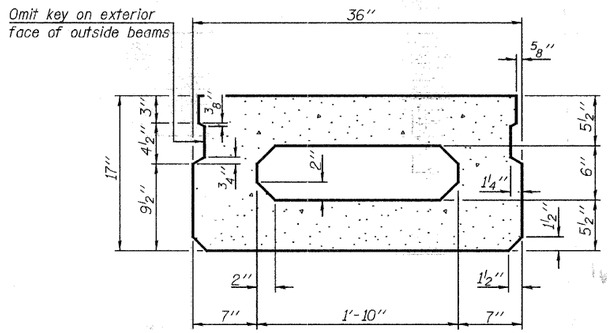
63085

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

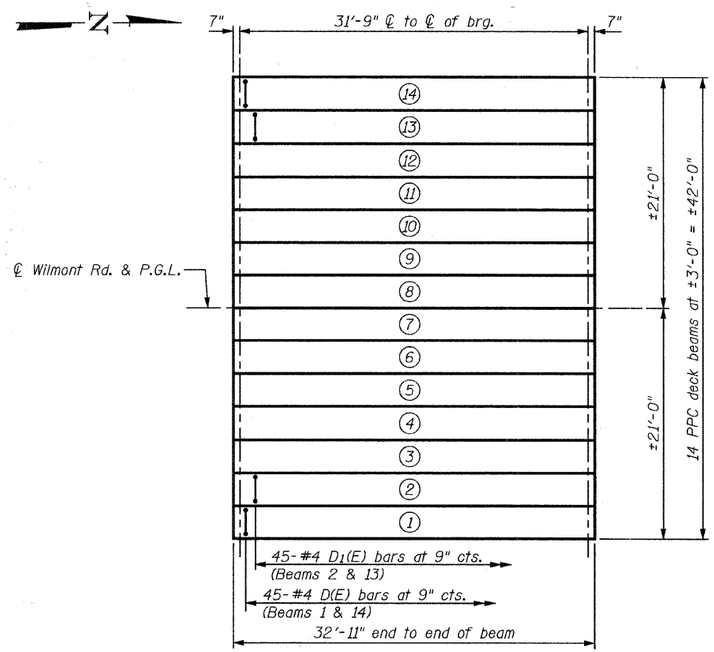


PLAN VIEW

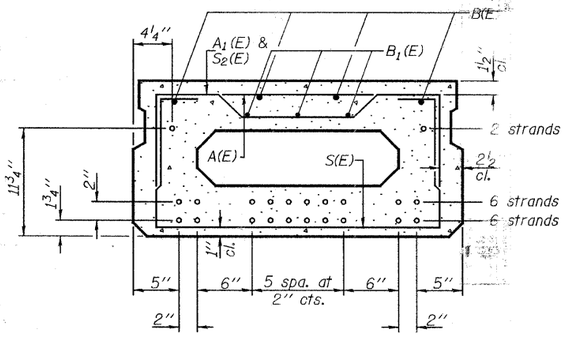
Note: Spacing of S(E) and S_2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION A-A
(Showing dimensions)

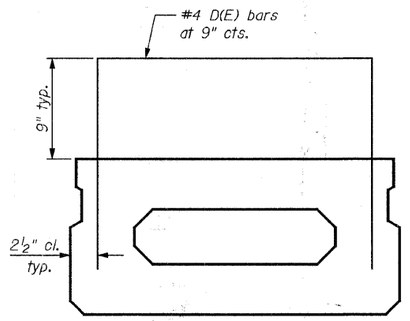


FRAMING PLAN



SECTION A-A
(Showing reinforcement and permissible strand locations.)

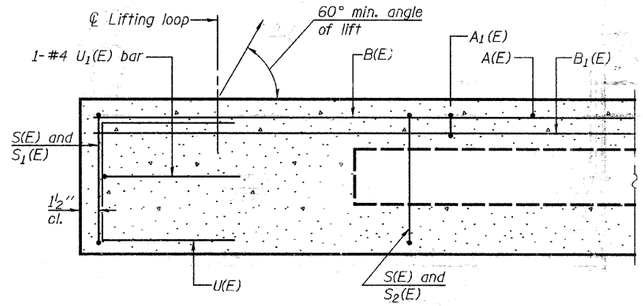
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.



DECK BEAMS 1 & 14
Showing additional reinforcement

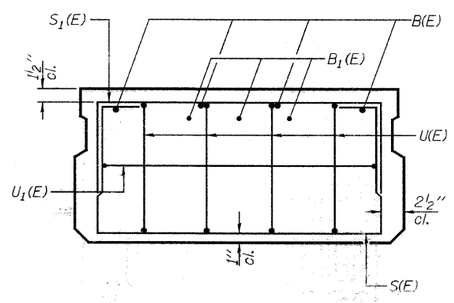
INTERIOR BEAM MOMENT TABLE		0.5 Span
I	(in^4)	13,924
S_b	(in^3)	1,655.6
S_t	(in^3)	1,621.0
ℓ_D	(k/')	0.713
M_{ℓ_D}	('k)	89.9
$s\ell$	(k/')	0.511
$M_{s\ell}$	('k)	64.4
M_{ℓ_L}	('k)	103.6
M_I	('k)	31.0

INTERIOR BEAM REACTION TABLE		Abut.
R_{ℓ_D}	(k)	11.4
$R_{s\ell}$	(k)	8.1
R_{ℓ_L}	(k)	32.5
R_I	(k)	9.8
R_{Total}	(k)	61.8

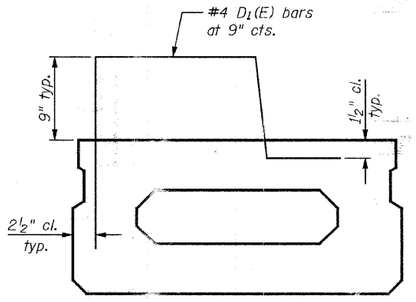


SECTION C-C

Notes:
Work this sheet with Sheet No. 6.



VIEW B-B



DECK BEAMS 2 & 13
Showing additional reinforcement
(Deck Beam 13 shown, Deck Beam 2 opposite hand)

I: Non-composite moment of inertia of beam section ($in.^4$).
S_b: Non-composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
S_t: Non-composite section modulus for the top fiber of the prestressed beam ($in.^3$).
ℓ_D: Un-factored non-composite dead load (kips/ft.).
M_{ℓ_D}: Un-factored moment due to non-composite dead load conservatively taken at 0.5 of the span (kip-ft.).
$s\ell$: Un-factored long-term composite (superimposed) dead load (kips/ft.).
$M_{s\ell}$: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
M_{ℓ_L}: Un-factored live load moment (kip-ft.).
M_I: Un-factored moment due to impact (kip-ft.).

DESIGNED	SCHELBIAN
CHECKED	JBUCHOLC
DRAWN	SCHELBIAN
CHECKED	JBUCHOLC

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PPC DECK BEAM DETAILS
STRUCTURE NO. 049-6151

SHEET NO. 5	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7 SHEETS	2718	08-00081-00-BR	LAKE	26	16
			CONTRACT NO. 63085		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		