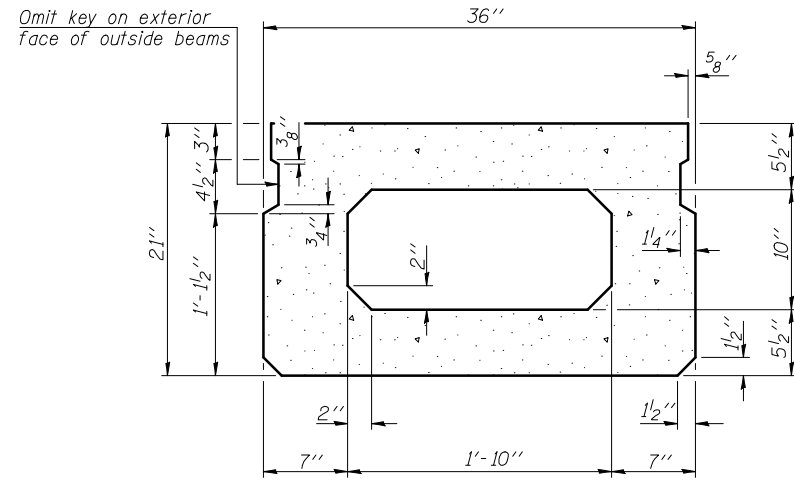
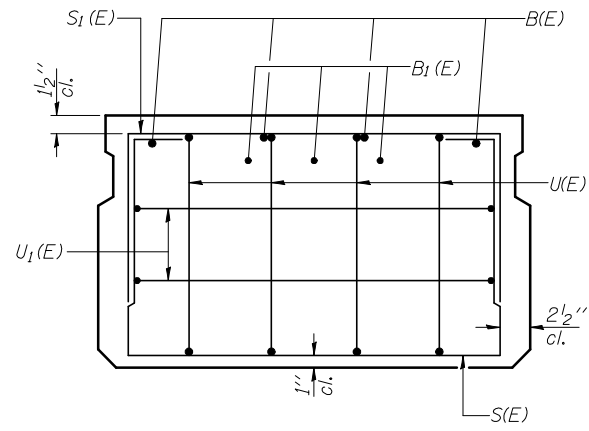


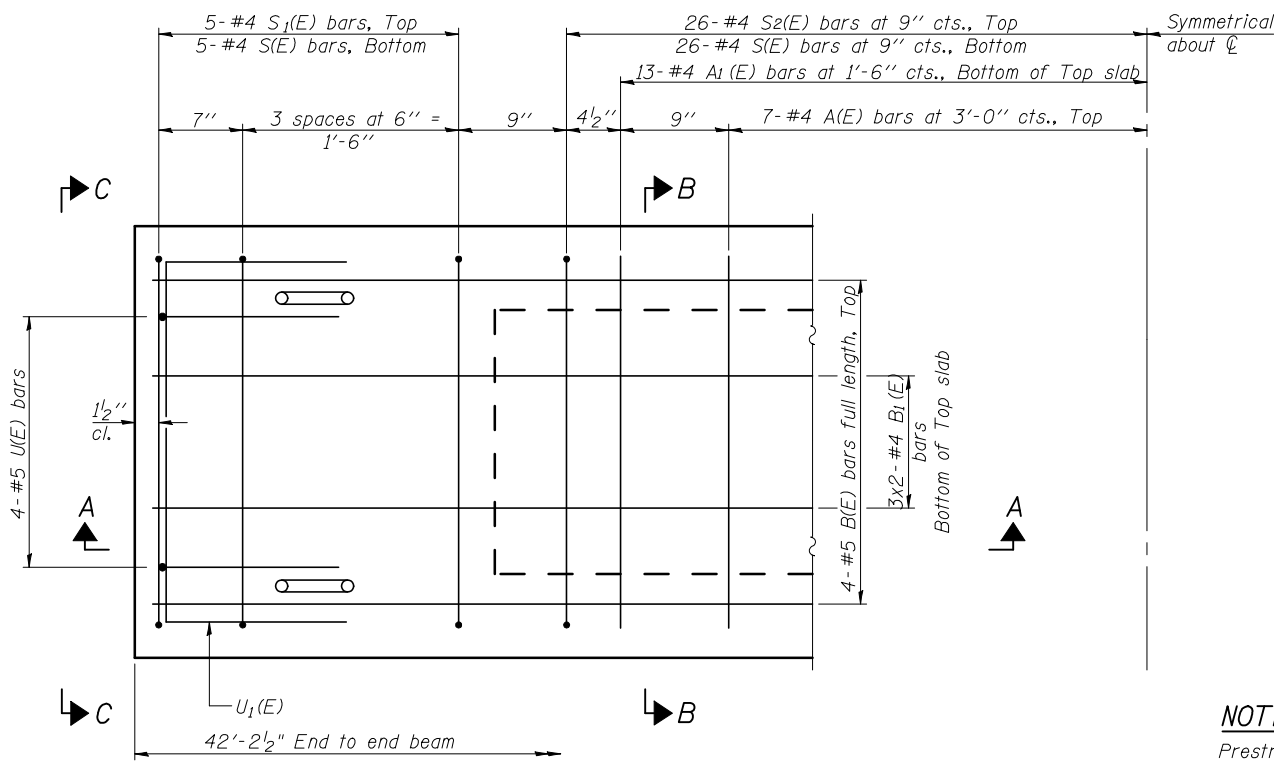
SECTION A-A



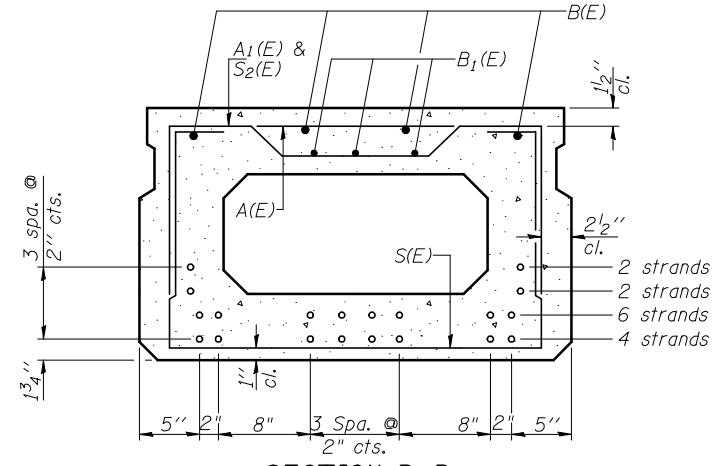
SECTION B-B
(Showing dimensions)



VIEW C-C

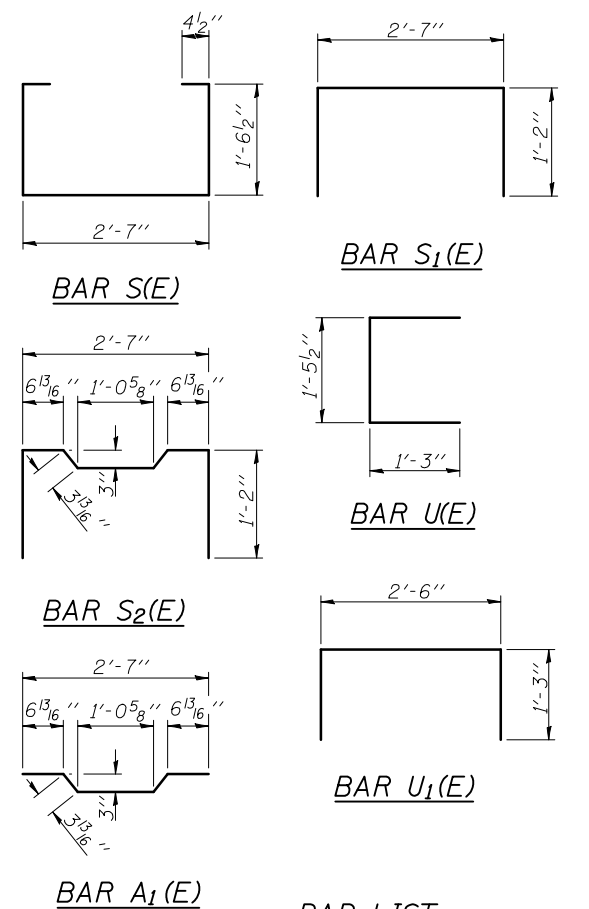


PLAN VIEW



SECTION B-B
(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.



BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	13	#4	2'-7"	—
A1(E)	25	#4	2'-10"	—
B(E)	4	#5	41'-11"	—
B1(E)	6	#4	22'-0"	—
D(E)	84	#4	2'-9"	□
S(E)	61	#4	6'-5"	□
S1(E)	10	#4	4'-11"	□
S2(E)	51	#4	5'-2"	□
U(E)	8	#5	4'-0"	□
U1(E)	4	#4	5'-0"	□

Notes: Spacing of S(E) and S2(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.

Bars indicated thus 3x2-#4 cts. indicates 3 lines of bars with 2 lengths per line.

MINIMUM BAR LAP
#4 bar = 2'-0"
#5 bar = 2'-6"

NOTES

- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- The 1" φ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
- Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- A minimum 2 1/2" φ lifting pin shall be used to engage the lifting loops during handling.
- Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
- Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.
- Pier dowel rod spacings adjusted to miss existing anchor rods.
- See sheet 8 of 15 for additional details and Bill of Material.
- See sheet 8 of 15 for detail and location of D(E)

BLANK, WESSELINK, COOK & ASSOCIATES ENGINEERS - CONSULTANTS DECATUR, ILLINOIS

DESIGN FIRM NO. 184000894

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21x36 PPC DECK BEAM
STRUCTURE NO. 023-0025

SHEET NO. 7 OF 15 SHEETS

FILE NAME =	USER NAME =	DESIGNED <i>PBB</i>	REVISED -
		CHECKED <i>RJC/SAL</i>	REVISED -
		DRAWN <i>MLO</i>	REVISED -
		CHECKED <i>PBB</i>	REVISED -

PLOT SCALE =	DRAWN <i>MLO</i>	REVISED -
PLOT DATE =	CHECKED <i>PBB</i>	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	150BR-1	EDGAR	48	24
CONTRACT NO. 70609				
ILLINOIS FED. AID PROJECT				