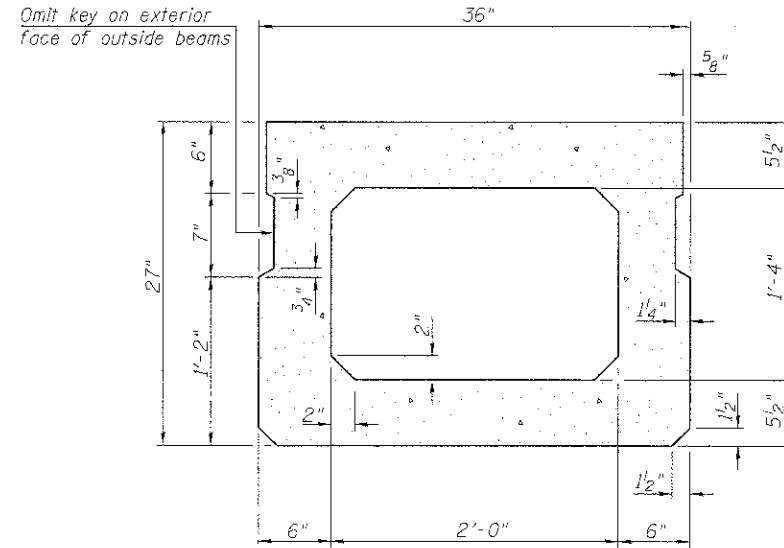
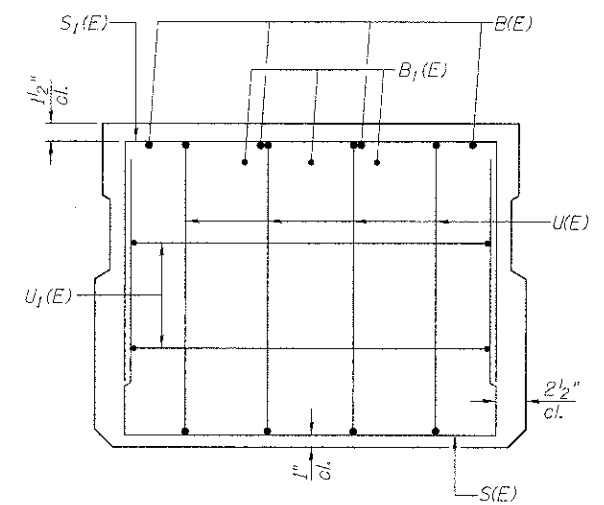


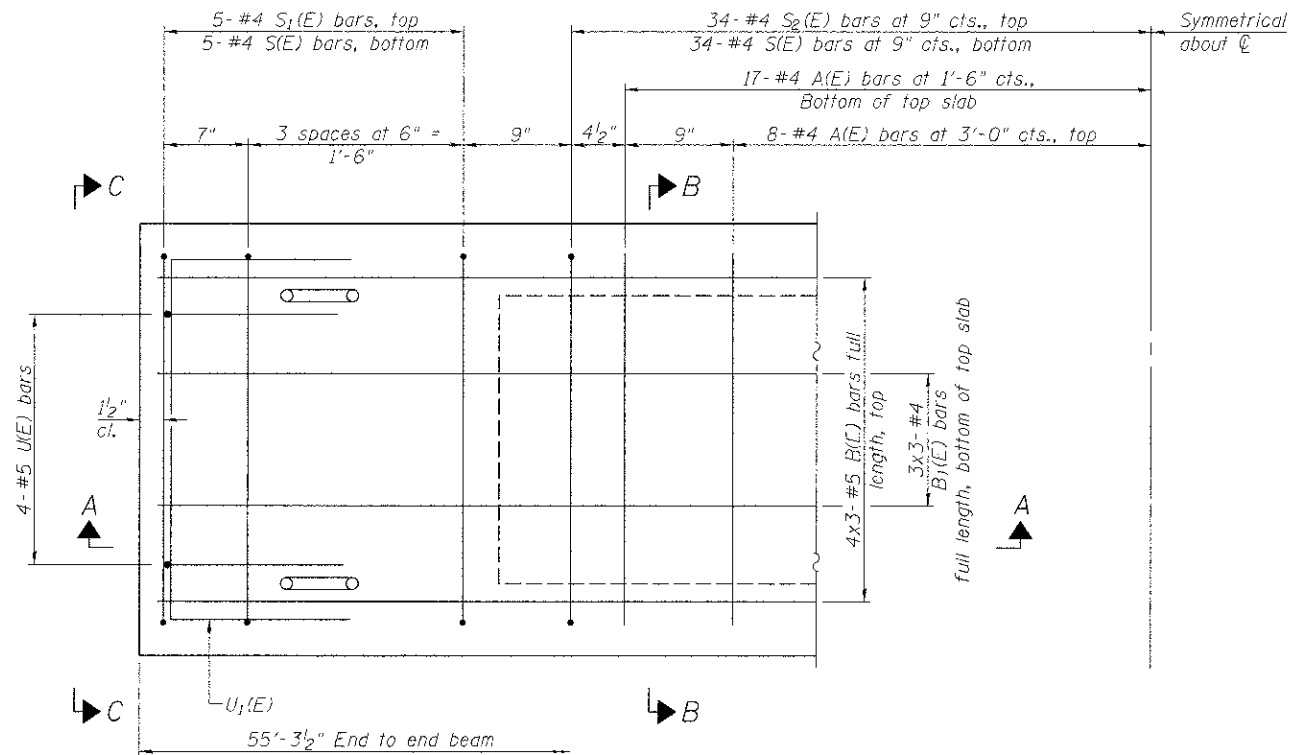
SECTION A-A



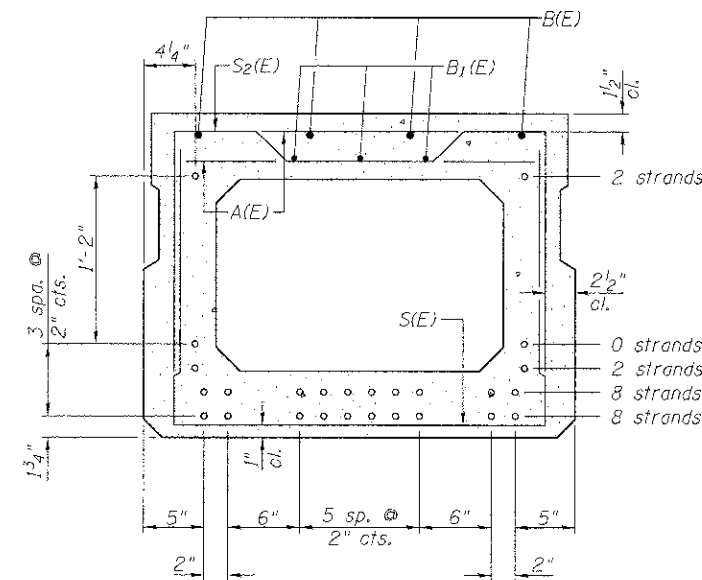
SECTION B-B
(Showing dimensions)



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.

DESIGN STRESSES

$f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f_{pu} = 270,000$ psi (1/2" low lax. strands)
 $f_{pbt} = 201,960$ psi (1/2" low lax. strands)

BAR LIST

ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	50	#4	2'-7"	—
B(E)	12	#5	20'-2"	—
B1(E)	9	#4	19'-10"	—
D(E)	14	#4	2'-9"	┌┐
S(E)	78	#4	6'-5"	┌┐
S1(E)	10	#4	5'-11"	┌┐
S2(E)	68	#4	6'-2"	┌┐
U(E)	8	#5	4'-6"	┌┐
U1(E)	4	#4	5'-0"	┌┐

Note:
 See Sheet 11 of 27 for additional details and Bill of Material.
 Bars indicated thus 4x3-#5 ect. indicates 4 lines of bars with 3 lengths per line.
 See Sheet 5 of 27 for D(E) bar bend diagram.

MINIMUM BAR LAP

#4 bar = 2'-0"
 #5 bar = 2'-6"

Note: 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.

FILE NAME = s:\proj\GBR0 - BGR\15042A\07\mchros\cccd sheets\Struct\1\056-3192-63666-010-BE.dgn

PD-2736-0

7-1-10

STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200
 IDPR NO. 184-001273

USER NAME = brianf
 PLOT SCALE =
 PLOT DATE = 8/23/2012

DESIGNED RRD
 CHECKED AJS
 DRAWN BJF
 CHECKED RRD

REVISED -
 REVISED -
 REVISED -
 REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION
HILL ROAD BRIDGE OVER
NORTH BRANCH NIPPERSINK CREEK

27" x 36" PPC DECK BEAM
STRUCTURE NO. 056-3192

SHEET NO. 10 OF 27 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	77	40

CONTRACT NO. 63666
 ILLINOIS FED. AID PROJECT