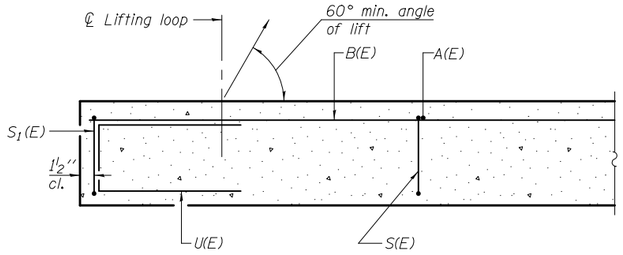
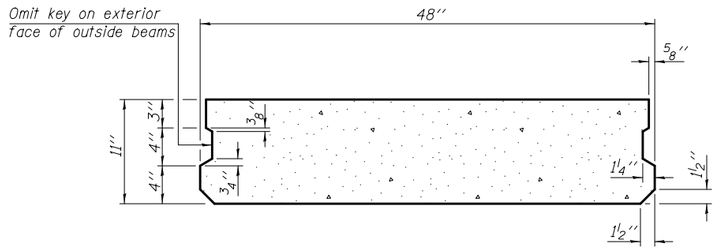
CELL / MODEL NAME	DESCRIPTION	DATE
PD-1148-0	11 x 48 inch deck beam, no skew	1/28/2016
PD-1148-L	11 x 48 inch deck beam, ahead left	1/28/2016
PD-1148-R	11 x 48 inch deck beam, ahead right	1/28/2016
PD-1152-0	11 x 52 inch deck beam, no skew	6/1/2016
PD-1152-L	11 x 52 inch deck beam, ahead left	1/28/2016
PD-1152-R	11 x 52 inch deck beam, ahead right	6/1/2016
PD-1736-0	17 x 36 inch deck beam, no skew	6/1/2016
PD-1736-0D	17 x 36 inch deck beam details, no skew	1/28/2016
PD-1736-L	17 x 36 inch deck beam, ahead left	6/1/2016
PD-1736-LD	17 x 36 inch deck beam details, ahead left	6/1/2016
PD-1736-R	17 x 36 inch deck beam, ahead right	6/1/2016
PD-1736-RD	17 x 36 inch deck beam details, ahead right	6/1/2016
PD-1748-0	17 x 48 inch deck beam, no skew	6/1/2016
PD-1748-0D	17 x 48 inch deck beam details, no skew	1/28/2016
PD-1748-L	17 x 48 inch deck beam, ahead left	6/1/2016
PD-1748-LD	17 x 48 inch deck beam details, ahead left	6/1/2016
PD-1748-R	17 x 48 inch deck beam, ahead right	6/1/2016
PD-1748-RD	17 x 48 inch deck beam details, ahead right	6/1/2016
PD-2136-0	21 x 36 inch deck beam, no skew	6/1/2016
PD-2136-0D	21 x 36 inch deck beam details, no skew	1/28/2016
PD-2136-L	21 x 36 inch deck beam, ahead left	6/1/2016
PD-2136-LD	21 x 36 inch deck beam details, ahead left	1/28/2016
PD-2136-R	21 x 36 inch deck beam, ahead right	6/1/2016
PD-2136-RD	21 x 36 inch deck beam details, ahead right	1/28/2016
PD-2148-0	21 x 48 inch deck beam, no skew	6/1/2016
PD-2148-0D	21 x 48 inch deck beam details, no skew	1/28/2016
PD-2148-L	21 x 48 inch deck beam, ahead left	6/1/2016
PD-2148-LD	21 x 48 inch deck beam details, ahead left	1/28/2016
PD-2148-R	21 x 48 inch deck beam, ahead right	6/1/2016
PD-2148-RD	21 x 48 inch deck beam details, ahead right	6/1/2016
PD-2736-0	27 x 36 inch deck beam, no skew	6/1/2016
PD-2736-0D	27 x 36 inch deck beam details, no skew	6/1/2016
PD-2736-L	27 x 36 inch deck beam, ahead left	6/1/2016
PD-2736-LD	27 x 36 inch deck beam details, ahead left	6/1/2016
PD-2736-R	27 x 36 inch deck beam, ahead right	6/1/2016
PD-2736-RD	27 x 36 inch deck beam details, ahead right	6/1/2016

CELL / MODEL NAME	DESCRIPTION	DATE
PD-2748-0	27 x 48 inch deck beam, no skew	6/1/2016
PD-2748-0D	27 x 48 inch deck beam details, no skew	6/1/2016
PD-2748-L	27 x 48 inch deck beam, ahead left	6/1/2016
PD-2748-LD	27 x 48 inch deck beam details, ahead left	6/1/2016
PD-2748-R	27 x 48 inch deck beam, ahead right	6/1/2016
PD-2748-RD	27 x 48 inch deck beam details, ahead right	6/1/2016
PD-3336-0	33 x 36 inch deck beam, no skew	6/8/2015
PD-3336-0D	33 x 36 inch deck beam details, no skew	1/28/2016
PD-3336-L	33 x 36 inch deck beam, ahead left	6/8/2015
PD-3336-LD	33 x 36 inch deck beam details, ahead left	1/28/2016
PD-3336-R	33 x 36 inch deck beam, ahead right	6/8/2015
PD-3336-RD	33 x 36 inch deck beam details, ahead right	1/28/2016
PD-3348-0	33 x 48 inch deck beam, no skew	6/8/2015
PD-3348-0D	33 x 48 inch deck beam details, no skew	1/28/2016
PD-3348-L	33 x 48 inch deck beam, ahead left	6/8/2015
PD-3348-LD	33 x 48 inch deck beam details, ahead left	1/28/2016
PD-3348-R	33 x 48 inch deck beam, ahead right	6/8/2015
PD-3348-RD	33 x 48 inch deck beam details, ahead right	1/28/2016
PD-4236-0	42 x 36 inch deck beam, no skew	6/8/2015
PD-4236-0D	42 x 36 inch deck beam details, no skew	1/28/2016
PD-4236-L	42 x 36 inch deck beam, ahead left	6/8/2015
PD-4236-LD	42 x 36 inch deck beam details, ahead left	1/28/2016
PD-4236-R	42 x 36 inch deck beam, ahead right	6/8/2015
PD-4236-RD	42 x 36 inch deck beam details, ahead right	1/28/2016
PD-4248-0	42 x 48 inch deck beam, no skew	6/8/2015
PD-4248-0D	42 x 48 inch deck beam details, no skew	1/28/2016
PD-4248-L	42 x 48 inch deck beam, ahead left	6/8/2015
PD-4248-LD	42 x 48 inch deck beam details, ahead left1	1/28/2016
PD-4248-R	42 x 48 inch deck beam, ahead right	6/8/2015
PD-4248-RD	42 x 48 inch deck beam details, ahead right	1/28/2016
PDS-11-M-F-0	11" bm super multi span F shape, no skew	6/8/2015
PDS-11-M-F-D	11" bm super multi span F shape details	6/8/2015
PDS-11-M-F-L	11" bm super multi span F shape, ahead left	6/8/2015
PDS-11-M-F-R	11" bm super multi span F shape, ahead right	6/8/2015
PDS-11-S-F-0	11" bm super simple span F shape, no skew	6/8/2015
PDS-11-S-F-D	11" bm super simple span F shape details	6/8/2015

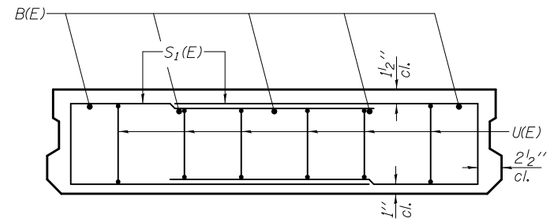
CELL / MODEL NAME	DESCRIPTION	DATE
PDS-11-S-F-L	11" bm super simple span F shape, ahead left	6/8/2015
PDS-11-S-F-R	11" bm super simple span F shape, ahead right	6/8/2015
PDS-HMA-11-M-T1-0	11" bm super multi span 6" curb & T-1 Rail, no skew	1/27/2012
PDS-HMA-11-M-T1-D	11" bm super multi span 6" curb & T-1 Rail details	6/8/2015
PDS-HMA-11-M-T1-L	11" bm super multi span 6" curb & T-1 Rail, ahead left	1/27/2012
PDS-HMA-11-M-T1-R	11" bm super multi span 6" curb & T-1 Rail, ahead right	6/8/2015
PDS-HMA-11-S-T1-0	11" bm super simple span 6" curb & T-1 Rail, no skew	7/1/2010
PDS-HMA-11-S-T1-D	11" bm super simple span 6" curb & T-1 Rail details	6/8/2015
PDS-HMA-11-S-T1-L	11" bm super simple span 6" curb & T-1 Rail, ahead left	7/1/2010
PDS-HMA-11-S-T1-R	11" bm super simple span 6" curb & T-1 Rail, ahead right	7/1/2010
PDS-HMA-M-R34-0	17" thru 42" bm super multi span R34 rail (HMA), no skew	7/1/2010
PDS-HMA-M-R34-L	17" thru 42" bm super multi span R34 rail (HMA), ahead left	7/1/2010
PDS-HMA-M-R34-R	17" thru 42" bm super multi span R34 rail (HMA), ahead right	7/1/2010
PDS-HMA-S-R34-0	17" thru 42" bm super simple span R34 rail (HMA), no skew	7/1/2010
PDS-HMA-S-R34-L	17" thru 42" bm super simple span R34 rail (HMA), ahead left	7/1/2010
PDS-HMA-S-R34-R	17" thru 42" bm super simple span R34 rail (HMA), ahead right	7/1/2010
PDS-M-F-0	17" thru 42" bm super multi span F shape, no skew	6/8/2015
PDS-M-F-D	17" thru 42" bm super multi span F shape details	6/8/2015
PDS-M-F-L	17" thru 42" bm super multi span F shape, ahead left	6/8/2015
PDS-M-F-R	17" thru 42" bm super multi span F shape, ahead right	6/8/2015
PDS-M-R34-0	17" thru 42" bm super multi span R34 rail, no skew	6/8/2015
PDS-M-R34-D	17" thru 42" bm super multi span R34 rail details	1/27/2012
PDS-M-R34-L	17" thru 42" bm super multi span R34 rail, ahead left	6/8/2015
PDS-M-R34-R	17" thru 42" bm super multi span R34 rail, ahead right	6/8/2015
PDS-S-F-0	17" thru 42" bm super simple span F shape, no skew	6/8/2015
PDS-S-F-D	17" thru 42" bm super simple span F shape details	6/8/2015
PDS-S-F-L	17" thru 42" bm super simple span F shape, ahead left	6/8/2015
PDS-S-F-R	17" thru 42" bm super simple span F shape, ahead right	6/8/2015
PDS-S-R34-0	17" thru 42" bm super simple span R34 rail, no skew	6/8/2015
PDS-S-R34-D	17" thru 42" bm super simple span R34 rail details	1/27/2012
PDS-S-R34-L	17" thru 42" bm super simple span R34 rail, ahead left	6/8/2015
PDS-S-R34-R	17" thru 42" bm super simple span R34 rail, ahead right	6/8/2015



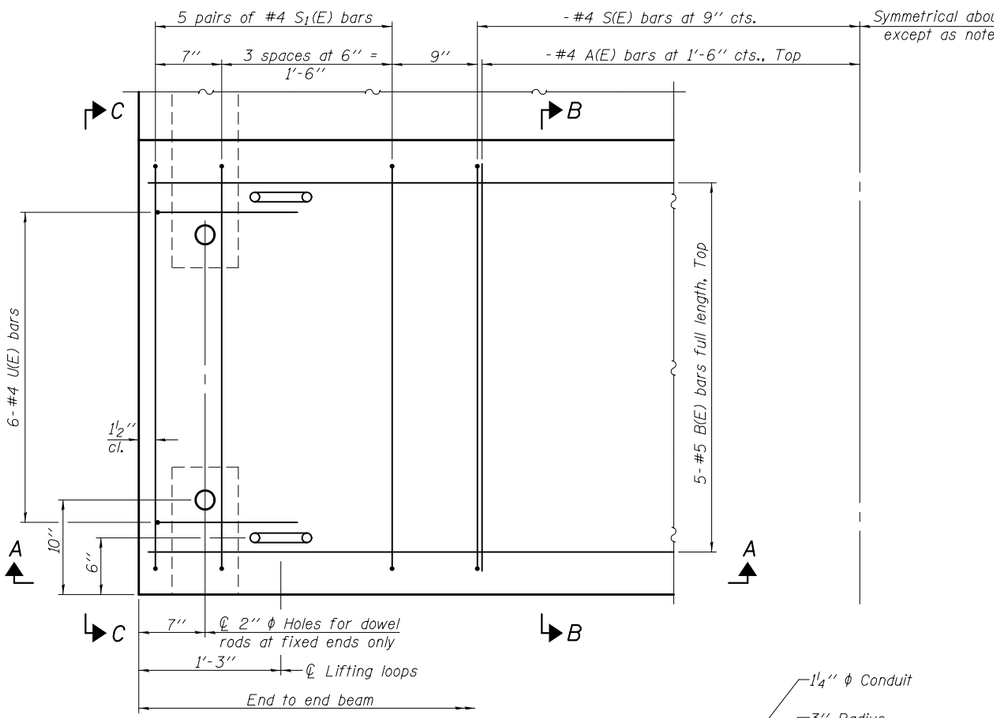
SECTION A-A



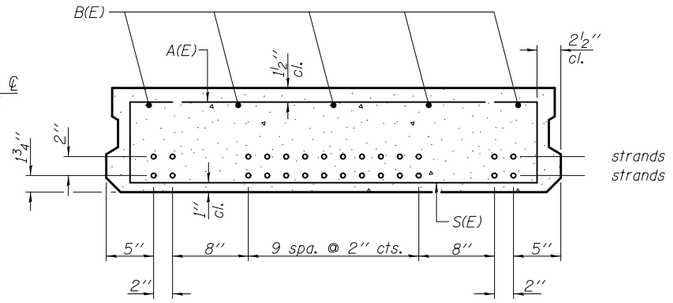
SECTION B-B
(Showing dimensions)



VIEW C-C

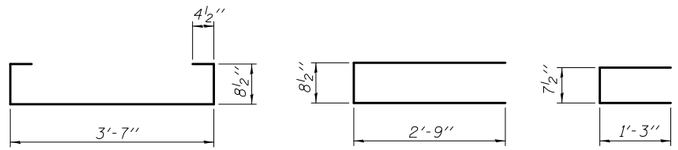


PLAN VIEW

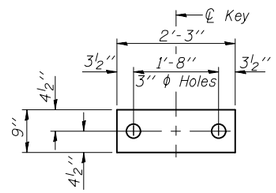


SECTION B-B
(Showing reinforcement and permissible strand locations)

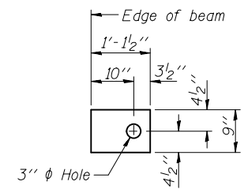
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.



BAR S(E) BAR S_1(E) BAR U(E)



FABRIC BEARING PAD
(Interior)



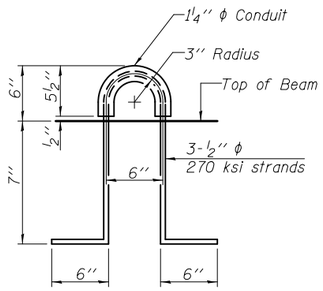
FABRIC BEARING PAD
(Exterior)

FIXED

Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	3'-7"	—
B(E)	5	#5		—
S(E)		#4	5'-9"	⌋
S_1(E)	20	#4	6'-3"	⊏
U(E)	12	#4	3'-2"	⊏



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (11" depth)	Sq. Ft.	

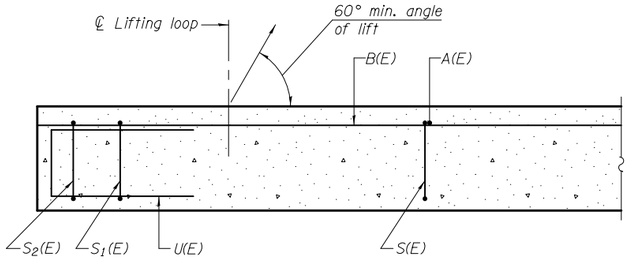
PD-1148-0 1-28-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

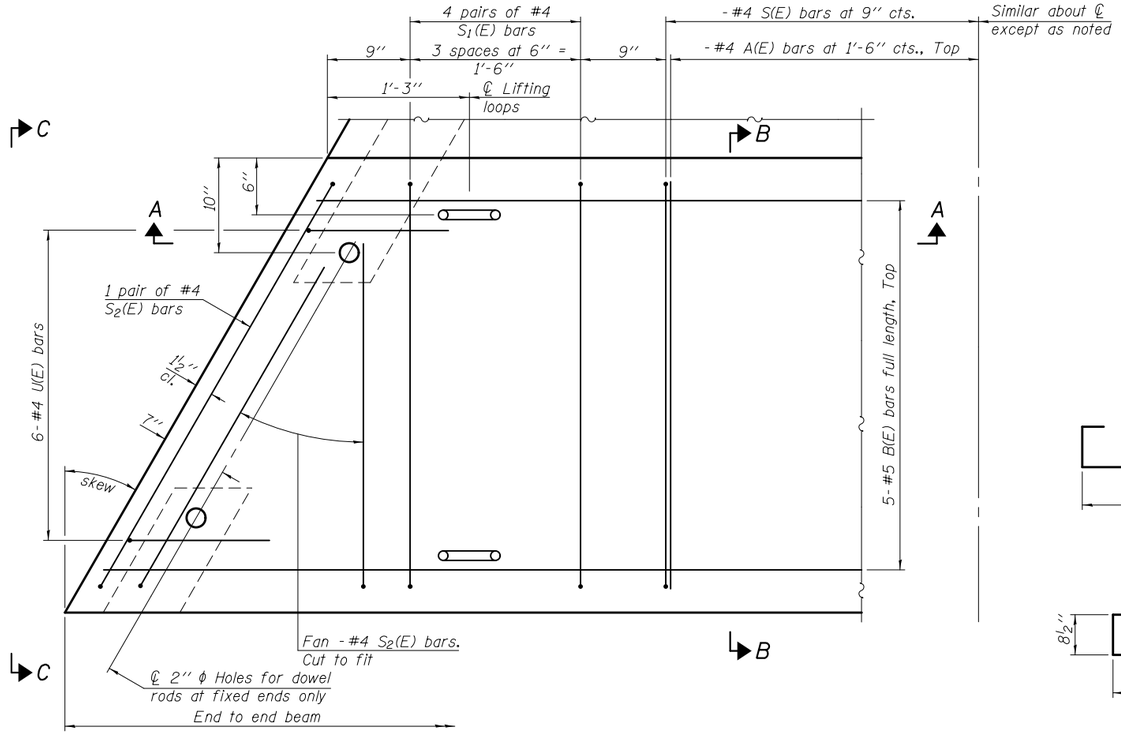
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

11" x 48" PPC DECK BEAM
STRUCTURE NO.

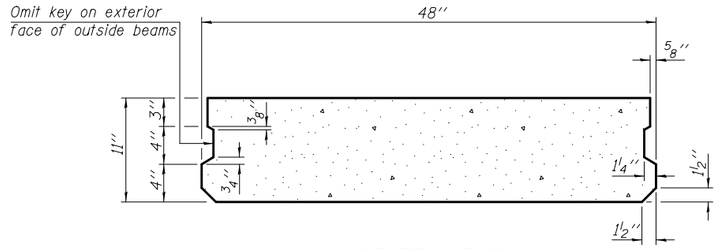
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



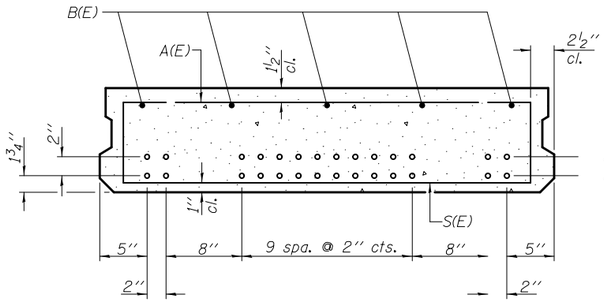
SECTION A-A



PLAN VIEW

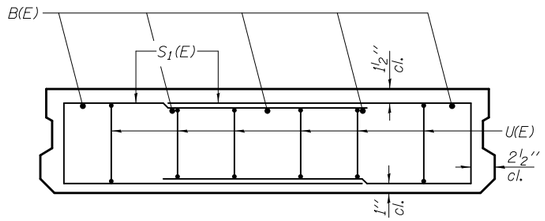


SECTION B-B
(Showing dimensions)

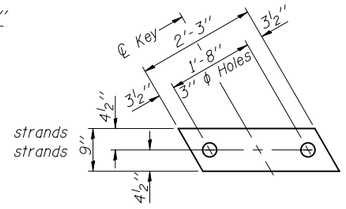


SECTION B-B
(Showing reinforcement and permissible strand locations)

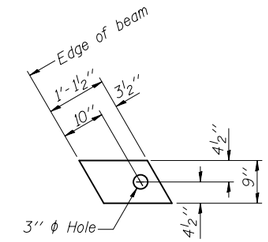
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.



VIEW C-C



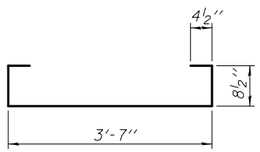
FABRIC BEARING PAD
(Interior)



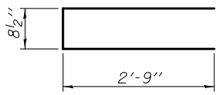
FABRIC BEARING PAD
(Exterior)

FIXED

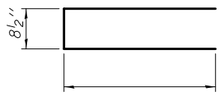
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



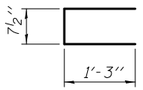
BAR S(E)



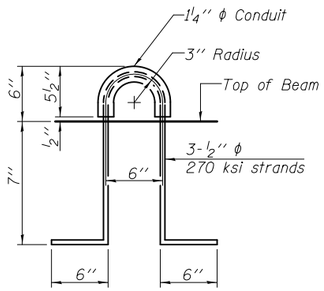
BAR $S_1(E)$



BAR $S_2(E)$



BAR U(E)



LIFTING LOOP DETAIL

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	3'-7"	—
B(E)	5	#5		—
S(E)		#4	5'-9"	⊔
$S_1(E)$	16	#4	6'-3"	⊏⊐
$S_2(E)$		#4		⊏⊐
U(E)	12	#4	3'-2"	⊏

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (11" depth)	Sq. Ft.	

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

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Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

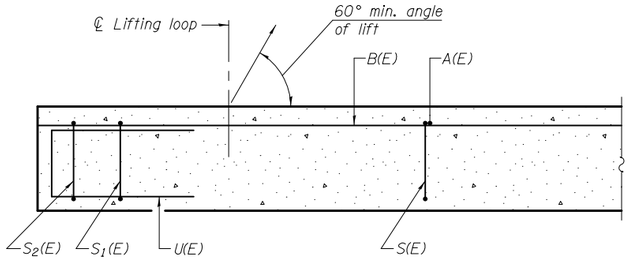
PD-1148-L 1-28-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

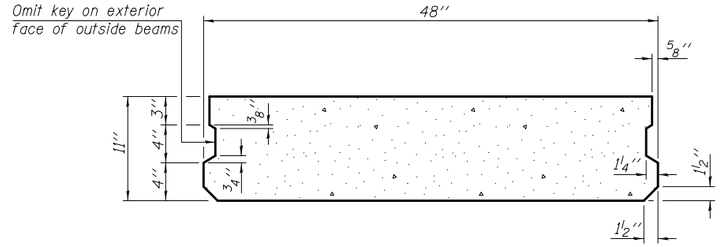
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

11" x 48" PPC DECK BEAM
STRUCTURE NO.

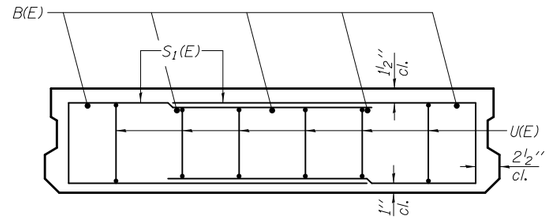
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



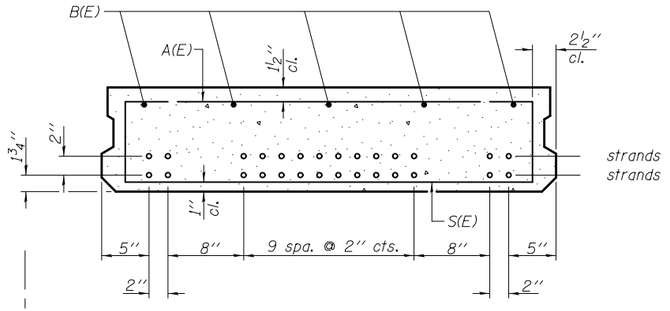
SECTION A-A



SECTION B-B
(Showing dimensions)

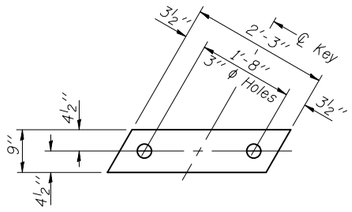


VIEW C-C

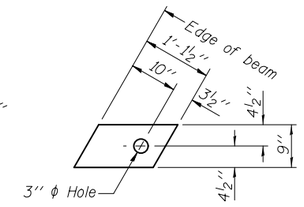


SECTION B-B
(Showing reinforcement and permissible strand locations)

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



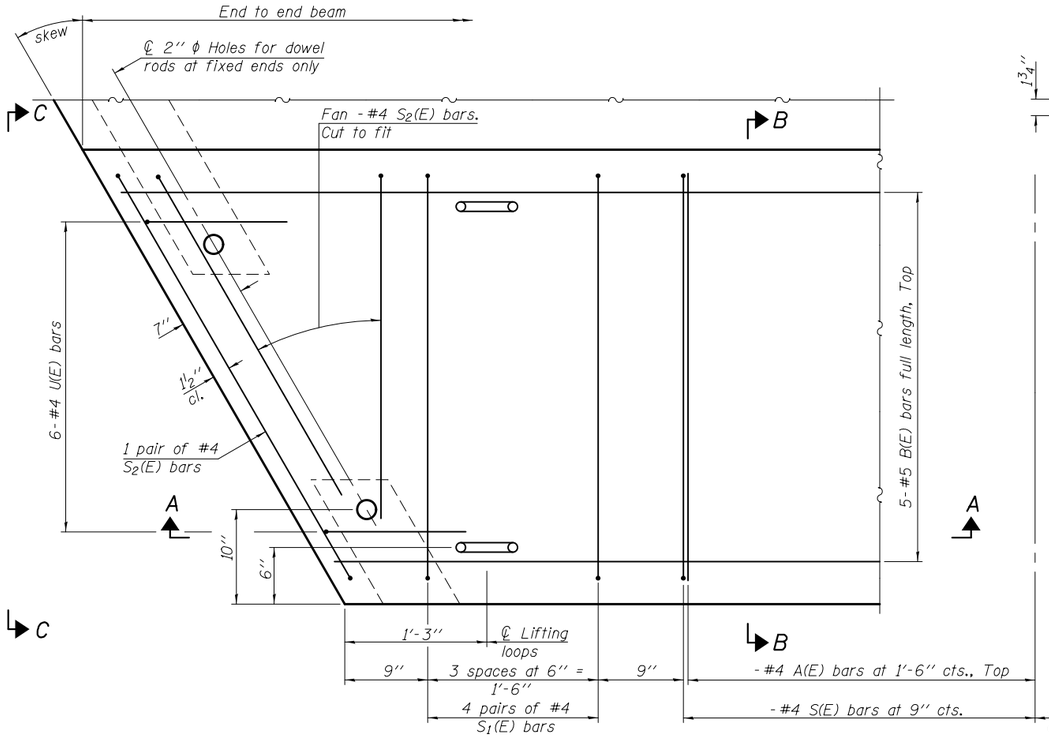
FABRIC BEARING PAD
(Interior)



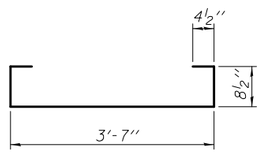
FABRIC BEARING PAD
(Exterior)

FIXED

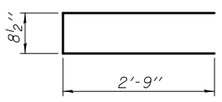
Notes:
All bearing pads shall be 1″ thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



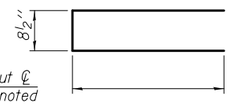
PLAN VIEW



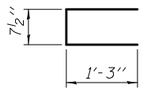
BAR S(E)



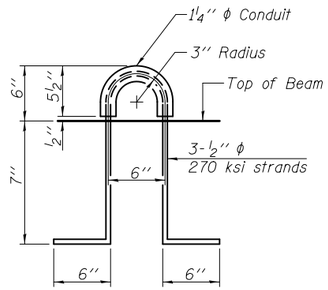
BAR S1(E)



BAR S2(E)



BAR U(E)



LIFTING LOOP DETAIL

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	3′-7″	—
B(E)	5	#5		—
S(E)		#4	5′-9″	⊔
S1(E)	16	#4	6′-3″	⊏⊐
S2(E)		#4		⊏⊐
U(E)	12	#4	3′-2″	⊏

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (11″ depth)	Sq. Ft.	

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½″ and the nominal cross-sectional area shall be 0.153 sq. in.

Two ⅛″ fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½″ ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

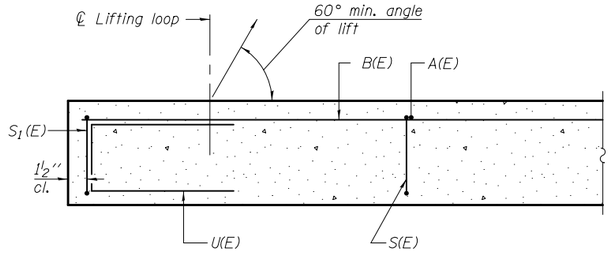
PD-1148-R 1-28-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

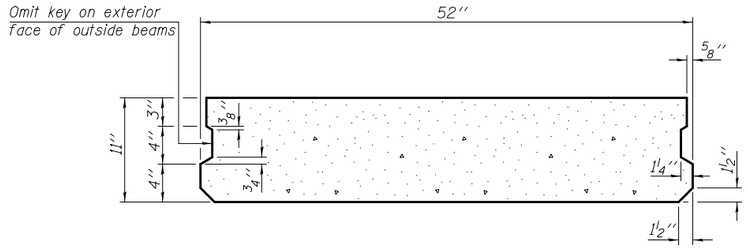
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

11″ x 48″ PPC DECK BEAM
STRUCTURE NO.

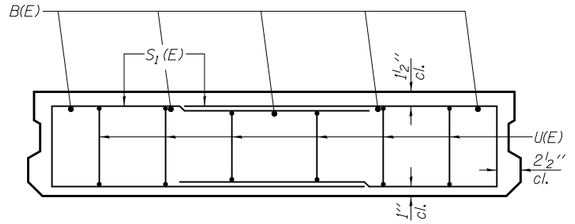
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



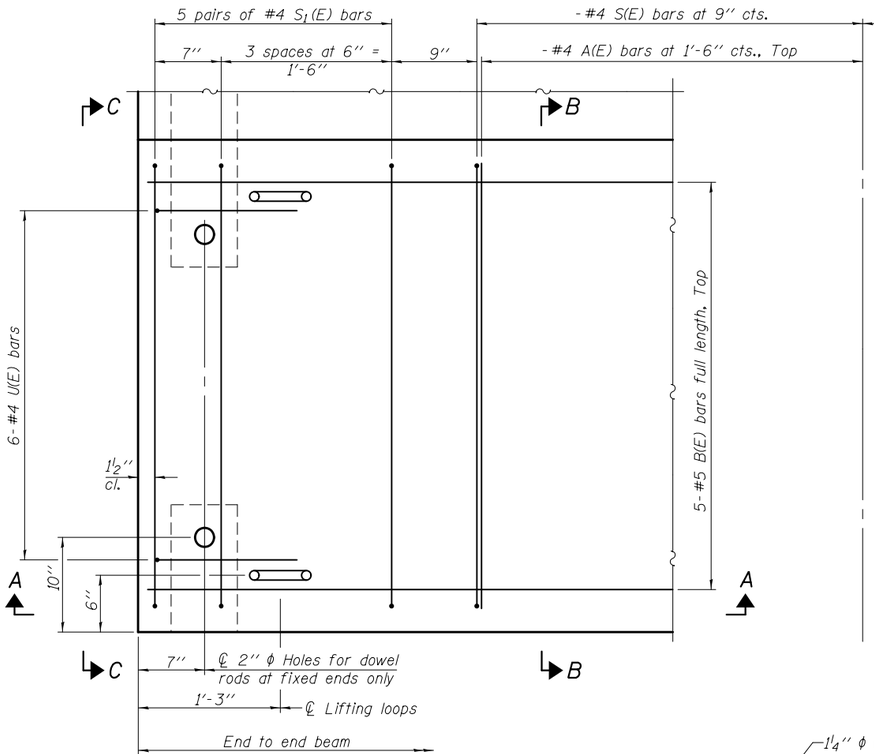
SECTION A-A



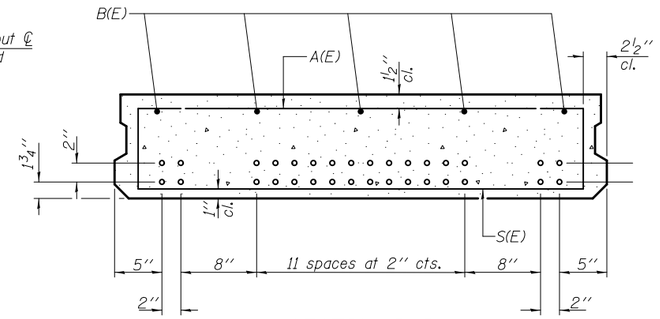
SECTION B-B
(Showing dimensions)



VIEW C-C

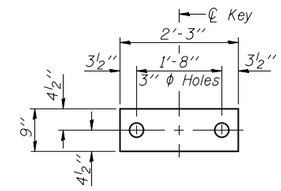


PLAN VIEW

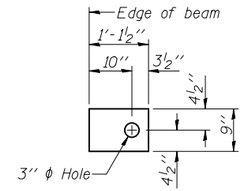


SECTION B-B
(Showing reinforcement and permissible strand locations)

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



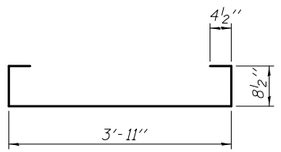
FABRIC BEARING PAD
(Interior)



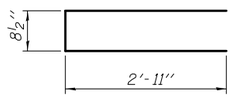
FABRIC BEARING PAD
(Exterior)

FIXED

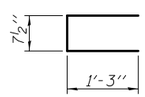
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



BAR S(E)



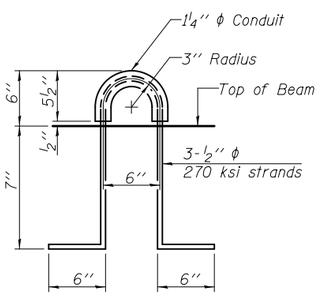
BAR S1(E)



BAR U(E)

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	3'-11"	—
B(E)	5	#5		—
S(E)		#4	6'-1"	⊔
S1(E)	20	#4	6'-7"	⊏⊐
U(E)	12	#4	3'-2"	⊏



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (11" depth)	Sq. Ft.	

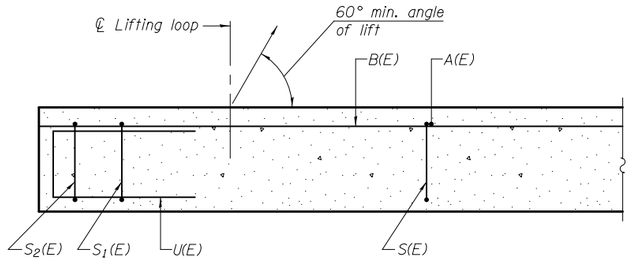
PD-1152-0 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

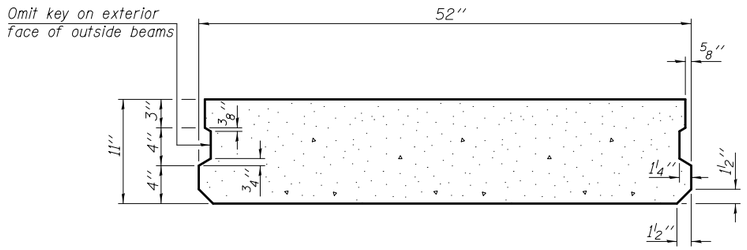
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

11" x 52" PPC DECK BEAM
STRUCTURE NO.

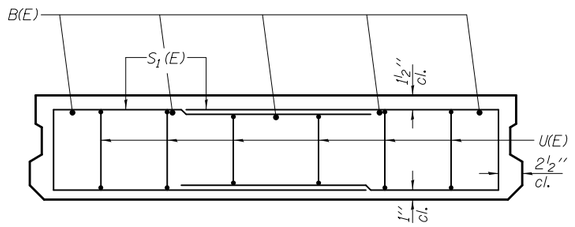
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



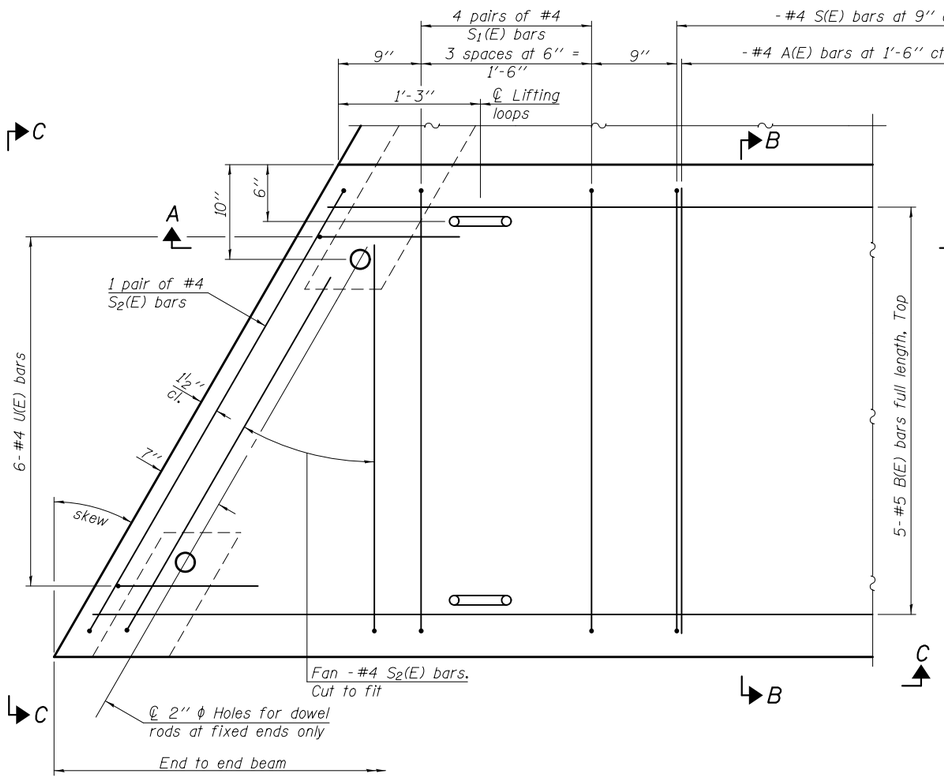
SECTION A-A



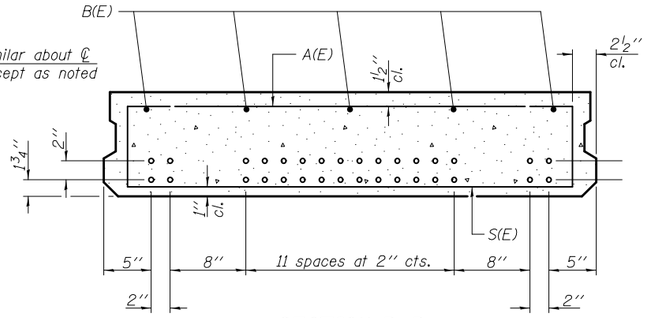
SECTION B-B
(Showing dimensions)



VIEW C-C

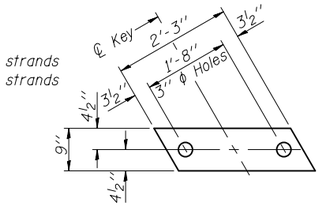


PLAN VIEW

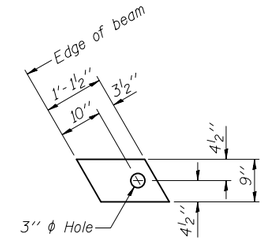


SECTION B-B
(Showing reinforcement and permissible strand locations)

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



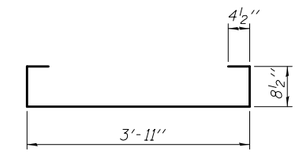
FABRIC BEARING PAD
(Interior)



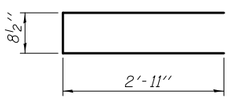
FABRIC BEARING PAD
(Exterior)

FIXED

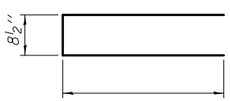
Notes:
All bearing pads shall be 1″ thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



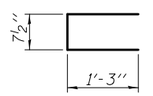
BAR S(E)



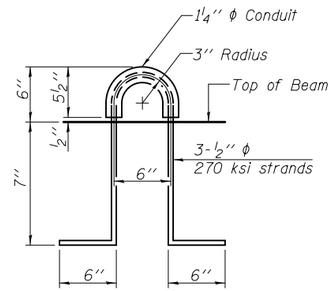
BAR $S_1(E)$



BAR $S_2(E)$



BAR U(E)



LIFTING LOOP DETAIL

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	3′-11″	—
B(E)	5	#5		—
S(E)		#4	6′-1″	⌊_⌋
$S_1(E)$	16	#4	6′-7″	⊏⊐
$S_2(E)$		#4		⊏⊐
U(E)	12	#4	3′-2″	⊏⊐

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (11″ depth)	Sq. Ft.	

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.

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)(10) and 1021.07 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.

PD-1152-L 1-28-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

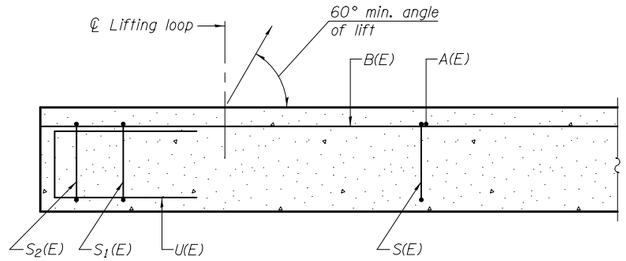
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

11″ x 52″ PPC DECK BEAM
STRUCTURE NO.

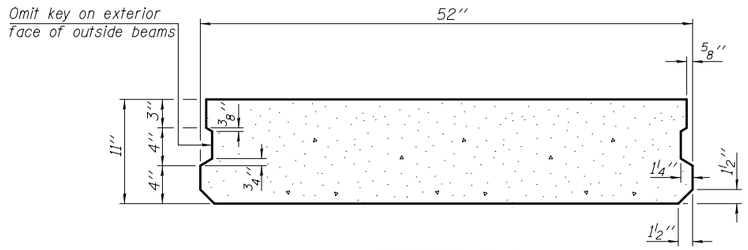
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

CONTRACT NO.

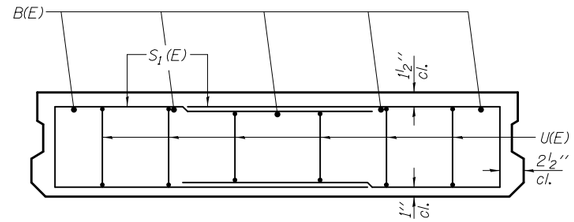
ILLINOIS FED. AID PROJECT



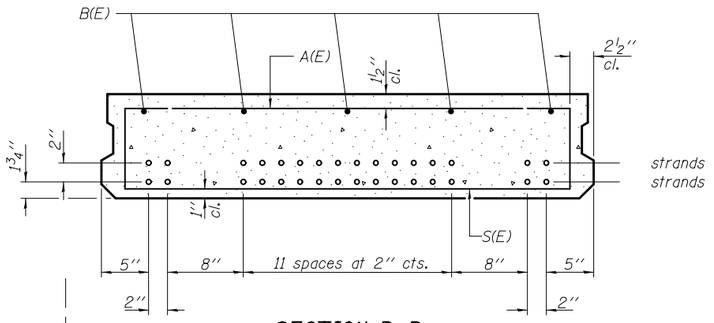
SECTION A-A



SECTION B-B
(Showing dimensions)

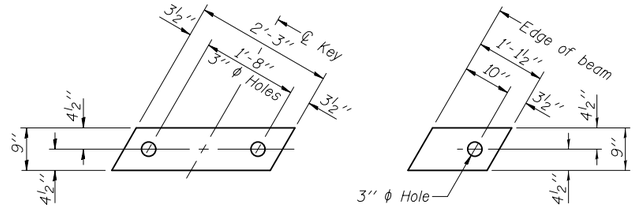


VIEW C-C



SECTION B-B
(Showing reinforcement and permissible strand locations)

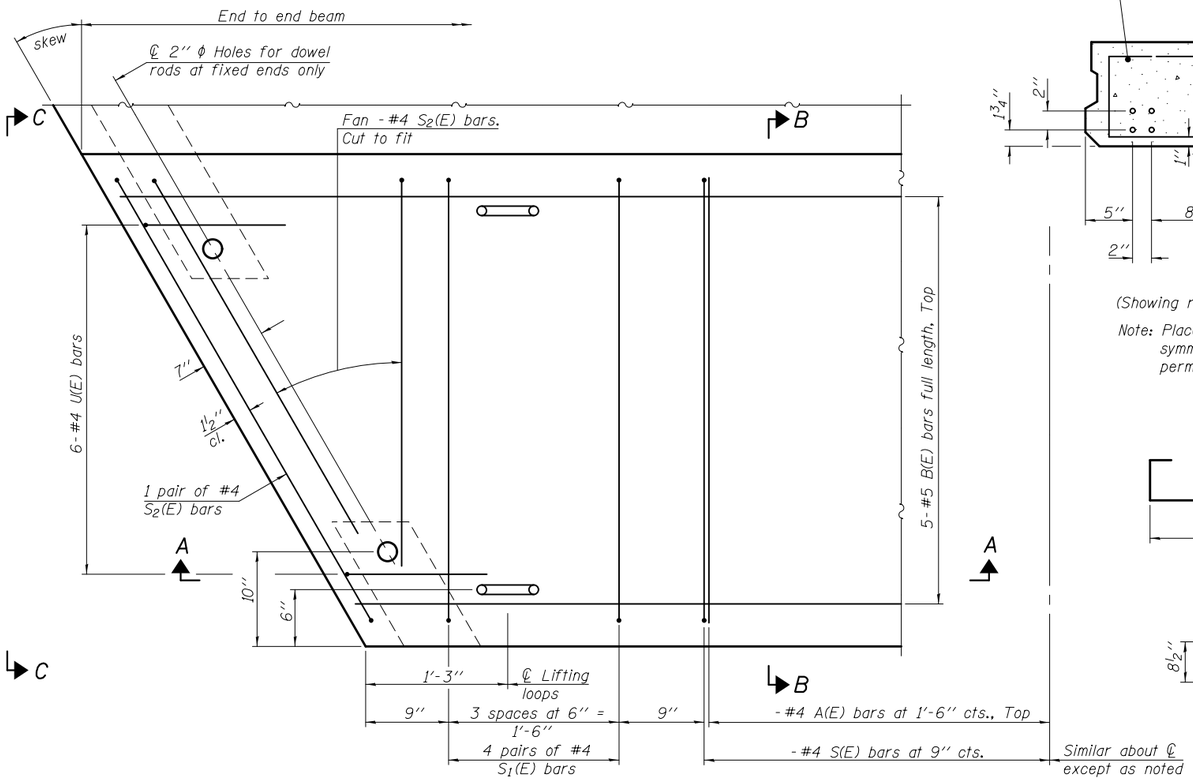
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.



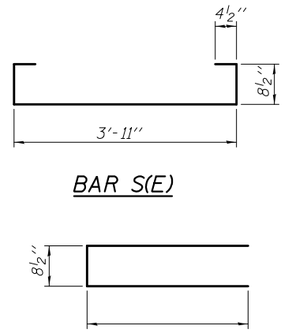
FABRIC BEARING PAD (Interior) FABRIC BEARING PAD (Exterior)

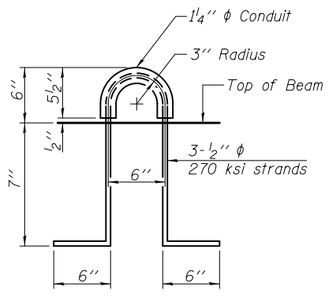
FIXED

Notes:
All bearing pads shall be 1″ thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



PLAN VIEW





LIFTING LOOP DETAIL

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	3′-11″	—
B(E)	5	#5		—
S(E)		#4	6′-1″	⊔
S1(E)	16	#4	6′-7″	⊏⊐
S2(E)		#4		⊏⊐
U(E)	12	#4	3′-2″	⊏⊐

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (11″ depth)	Sq. Ft.	

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½″ and the nominal cross-sectional area shall be 0.153 sq. in.

Two ⅛″ fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½″ ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

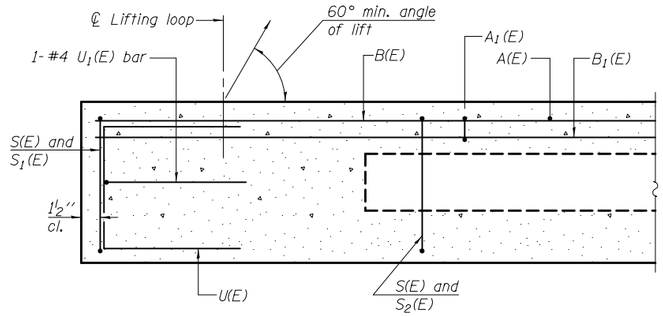
Compressive strength of prestressed concrete, f′c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f′ci, shall be 5000 psi.

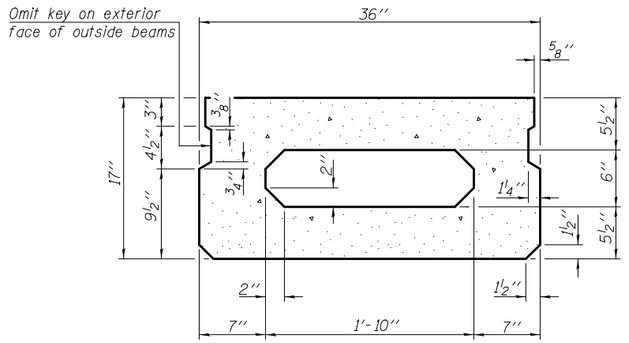
PD-1152-R 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	11″ x 52″ PPC DECK BEAM STRUCTURE NO.
		CHECKED -	REVISED -		
	PLOT SCALE =	DRAWN -	REVISED -		
	PLOT DATE =	CHECKED -	REVISED -		

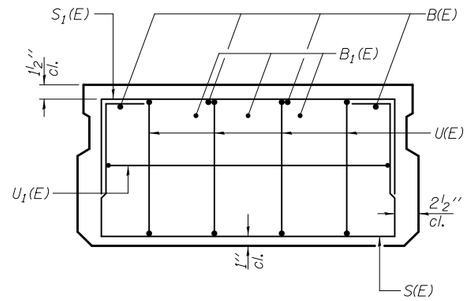
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



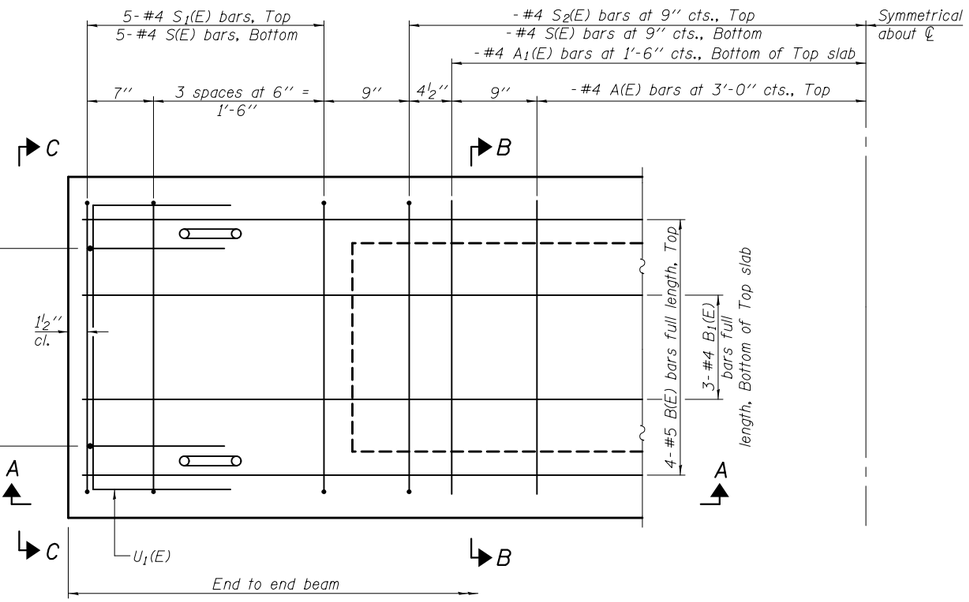
SECTION A-A



SECTION B-B
(Showing dimensions)

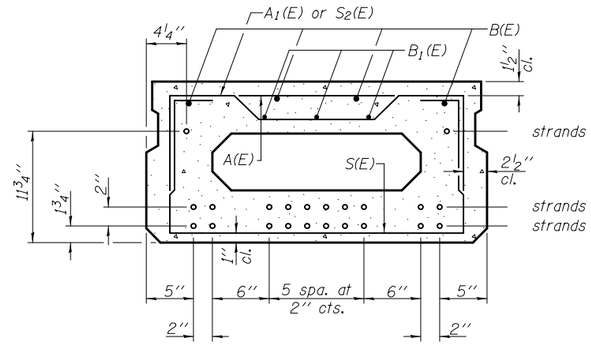


VIEW C-C



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 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.

MINIMUM BAR LAP
#4 bar = 1'-11"
#5 bar = 2'-6"

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	2'-7"	—
$A_1(E)$		#4	2'-10"	⌒
B(E)		#5		—
$B_1(E)$		#4		—
S(E)		#4	5'-9"	⊔
$S_1(E)$	10	#4	4'-3"	⊓
$S_2(E)$		#4	4'-6"	⊓
U(E)	8	#5	3'-8"	⊏
$U_1(E)$	2	#4	5'-0"	⊓

Note: See sheet of for additional details and Bill of Material.

PD-1736-0 06-01-16

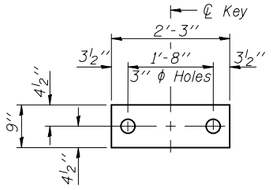
FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

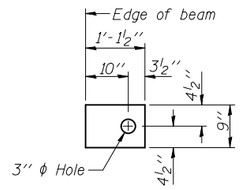
17" x 36" PPC DECK BEAM
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

CONTRACT NO.
ILLINOIS FED. AID PROJECT



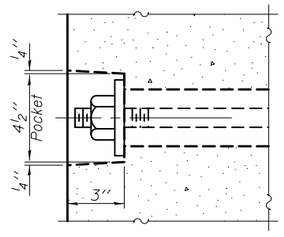
FABRIC BEARING PAD
(Interior)



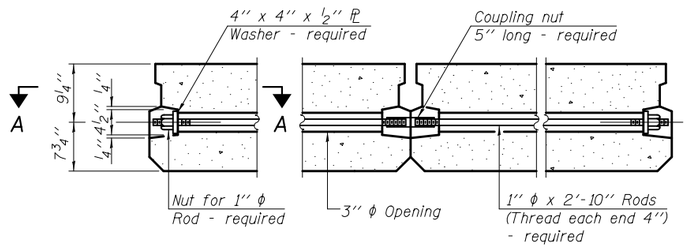
FABRIC BEARING PAD
(Exterior)

FIXED

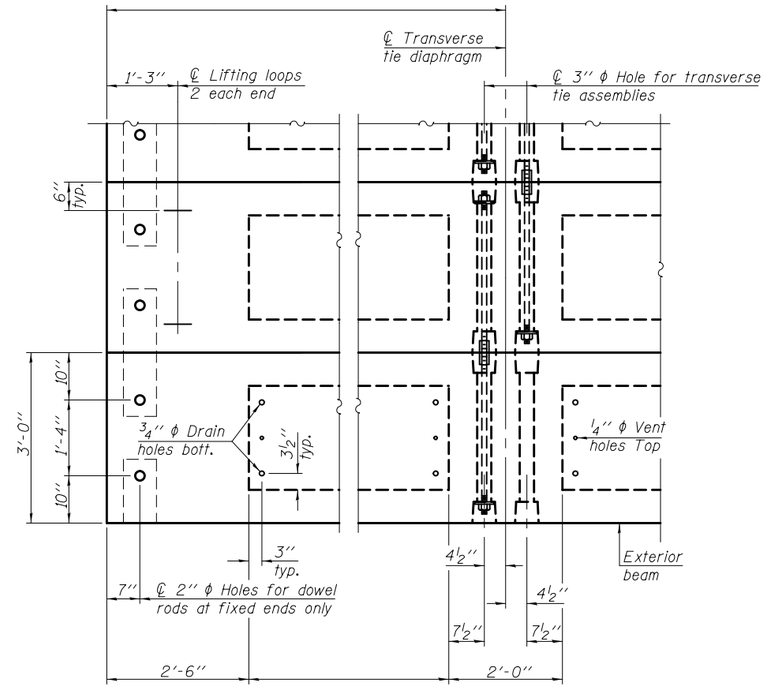
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

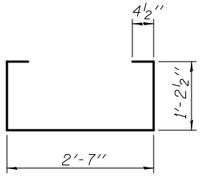


TYPICAL TRANSVERSE TIE ASSEMBLY

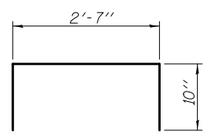


PLAN VIEW

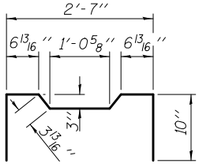
Note: Connect beams in pairs with the
transverse tie configuration shown.



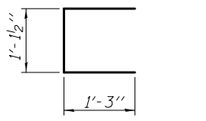
BAR S(E)



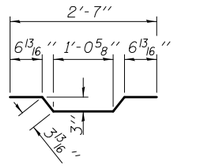
BAR S1(E)



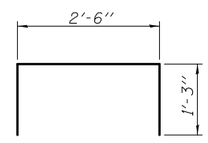
BAR S2(E)



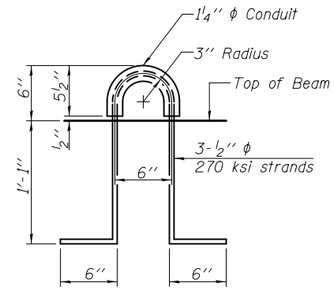
BAR U(E)



BAR A1(E)



BAR U1(E)



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

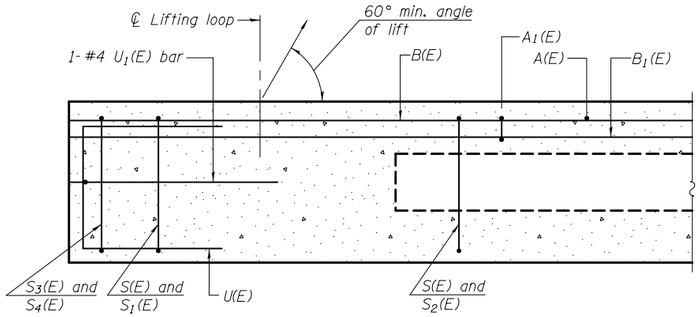
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

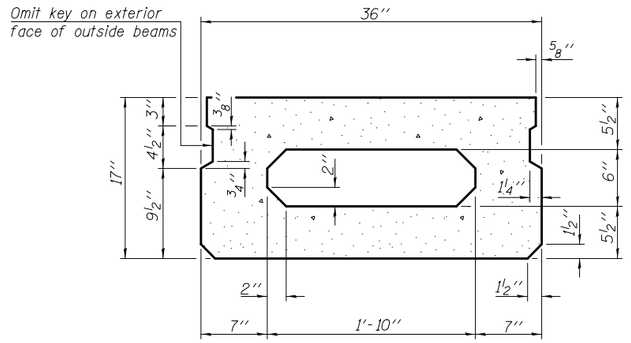
Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	

PD-1736-0D 1-28-16

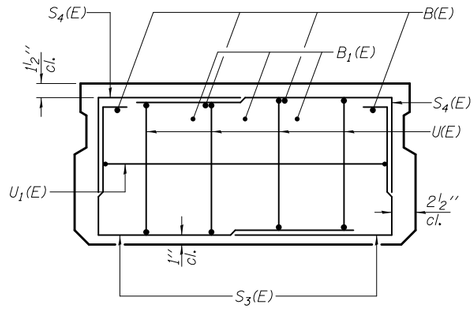
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	17" x 36" PPC DECK BEAM DETAILS STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -					
	PLOT SCALE =	DRAWN -	REVISED -					CONTRACT NO.
	PLOT DATE =	CHECKED -	REVISED -					ILLINOIS FED. AID PROJECT



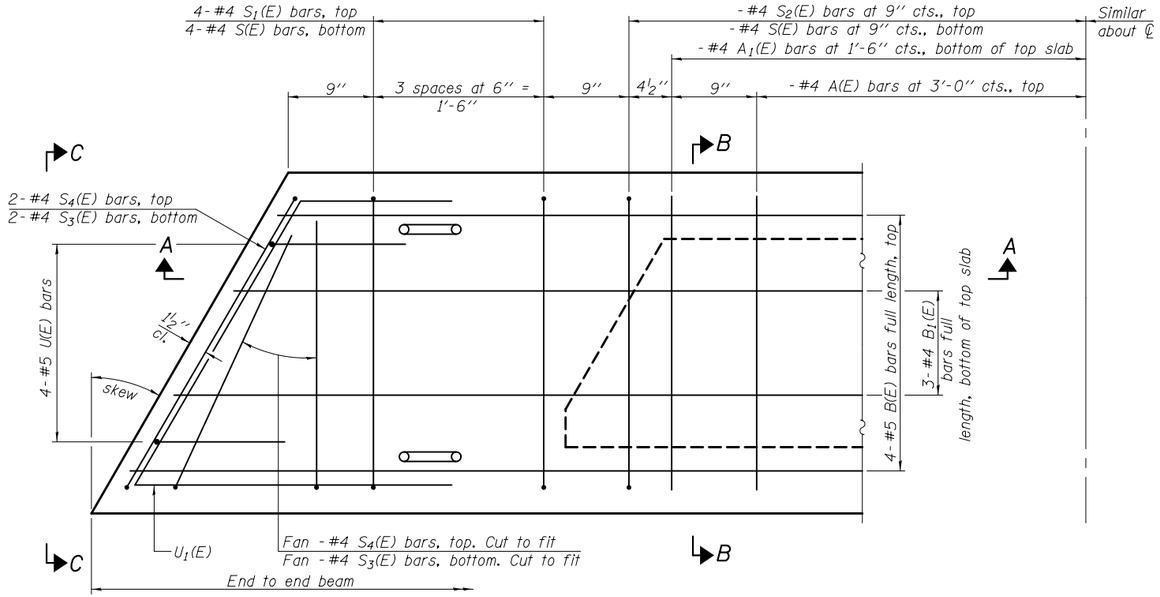
SECTION A-A



SECTION B-B
(Showing dimensions)

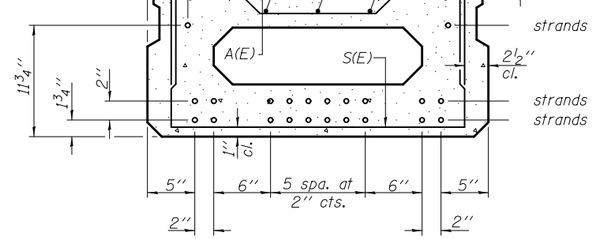


VIEW C-C



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 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.

MINIMUM BAR LAP
#4 bar = 1'-11''
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BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	2'-7''	—
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B(E)		#5		—
$B_1(E)$		#4		—
S(E)		#4	5'-9''	⊔
$S_1(E)$	8	#4	4'-3''	⊓
$S_2(E)$		#4	4'-6''	⊓
$S_3(E)$		#4		⊔
$S_4(E)$		#4		⊔
U(E)	8	#5	3'-8''	⊏
$U_1(E)$	2	#4		⊏

Note: See sheet of for additional details and Bill of Material.

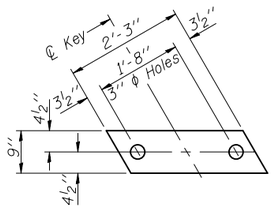
PD-1736-L 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

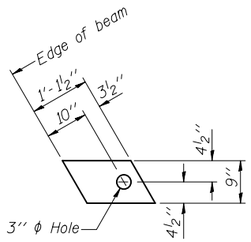
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

17'' x 36'' PPC DECK BEAM
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

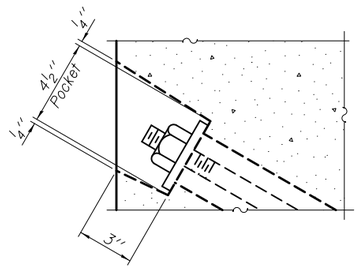


FABRIC BEARING PAD
(Interior)

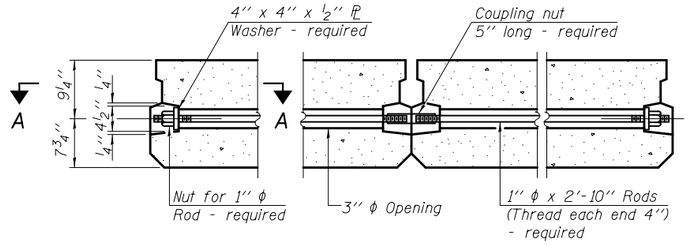


FABRIC BEARING PAD
(Exterior)

FIXED

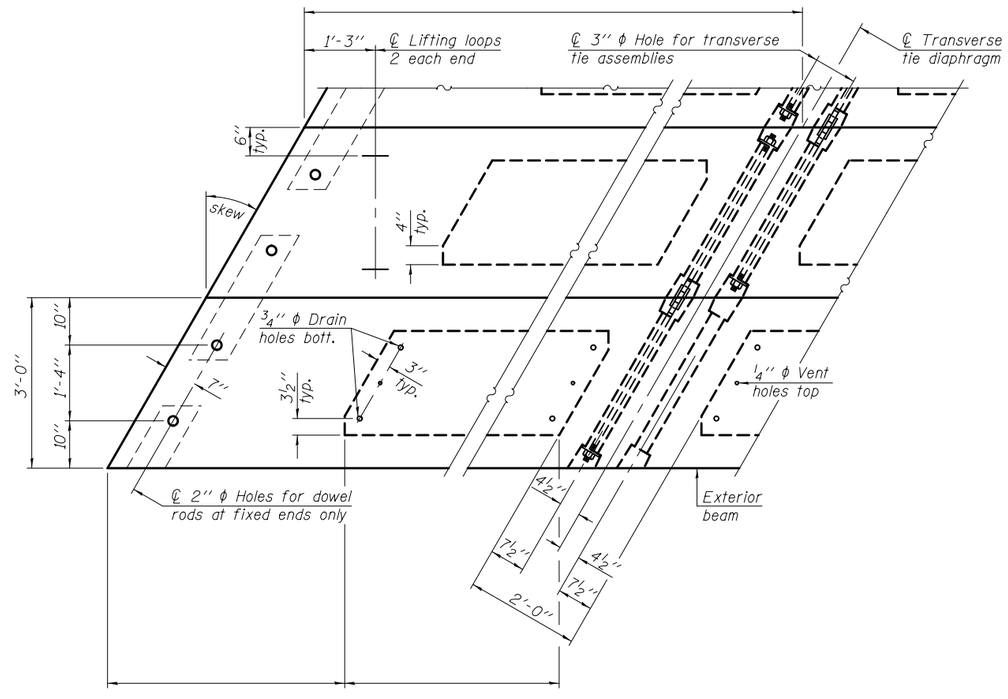


SECTION A-A



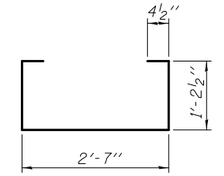
TYPICAL TRANSVERSE TIE ASSEMBLY

Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.

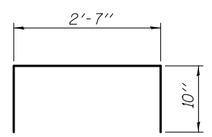


PLAN VIEW

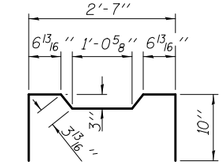
Note: Connect beams in pairs with the transverse tie configuration shown.



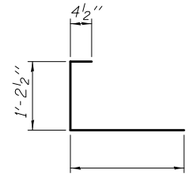
BAR S(E)



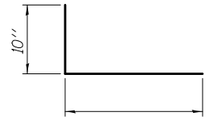
BAR S_1(E)



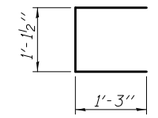
BAR S_2(E)



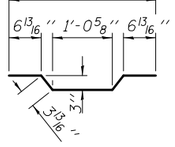
BAR S_3(E)



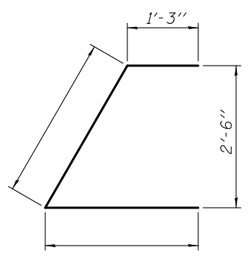
BAR S_4(E)



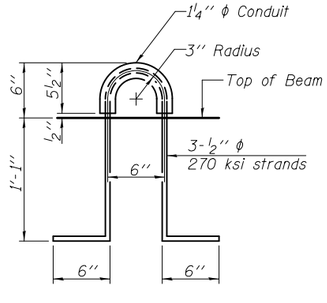
BAR U(E)



BAR A_1(E)



BAR U_1(E)



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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.

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Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	

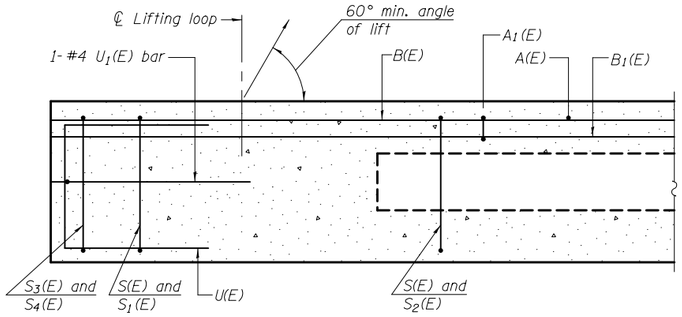
PD-1736-LD 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

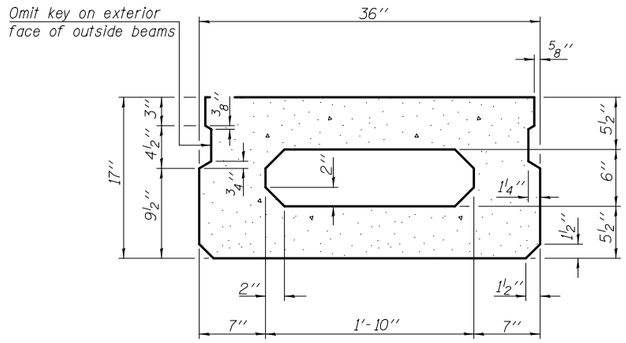
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

17" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO.

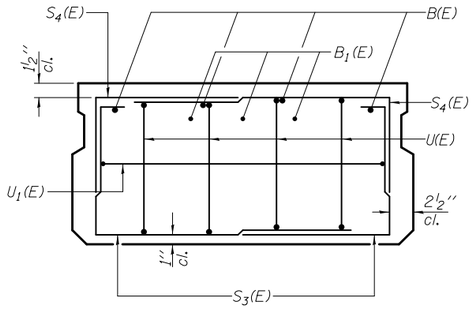
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



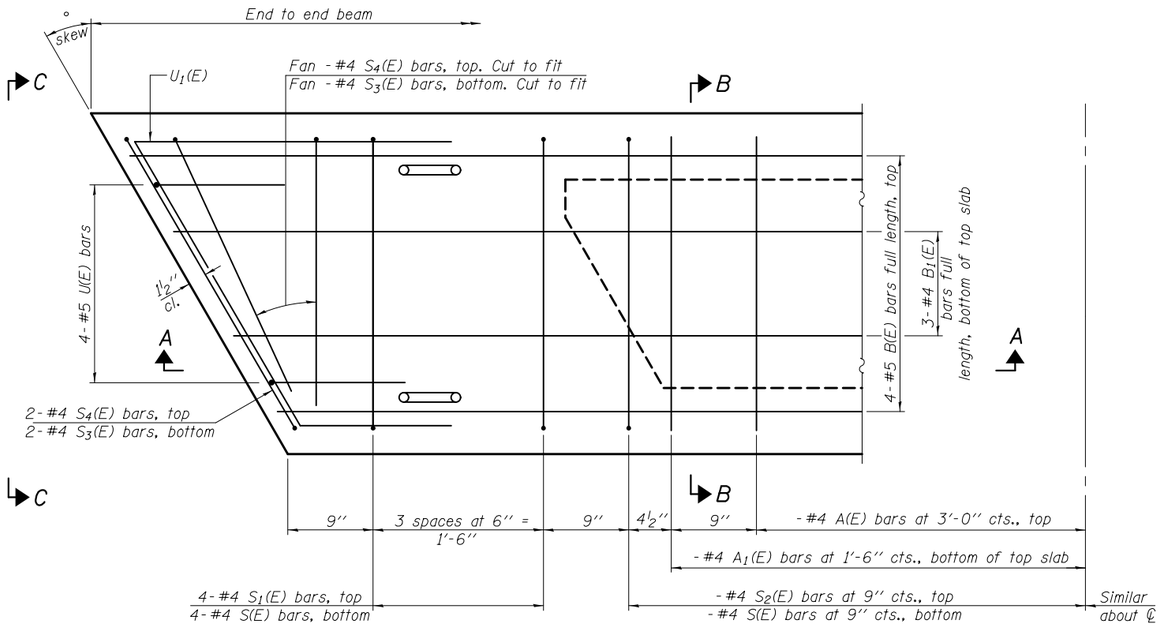
SECTION A-A



SECTION B-B
(Showing dimensions)

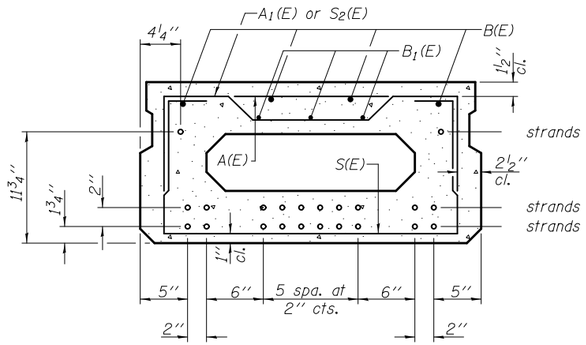


VIEW C-C



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 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.

MINIMUM BAR LAP
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#5 bar = 2′-6″

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	2′-7″	—
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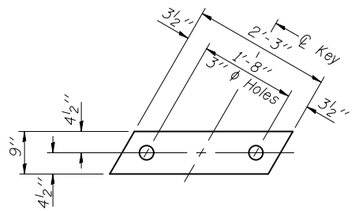
B(E)		#5		—
$B_1(E)$		#4		—
S(E)		#4	5′-9″	⊔
$S_1(E)$	8	#4	4′-3″	⊓
$S_2(E)$		#4	4′-6″	⊐
$S_3(E)$		#4		⌟
$S_4(E)$		#4		⌟
U(E)	8	#5	3′-8″	⊏
$U_1(E)$	2	#4		▽

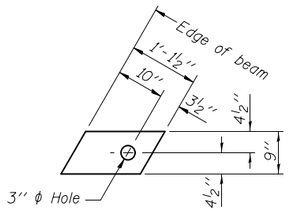
Note: See sheet of for additional details and Bill of Material.

PD-1736-R 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	17″ x 36″ PPC DECK BEAM STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -				CONTRACT NO.
	PLOT SCALE =	DRAWN -	REVISED -				ILLINOIS FED. AID PROJECT
	PLOT DATE =	CHECKED -	REVISED -				



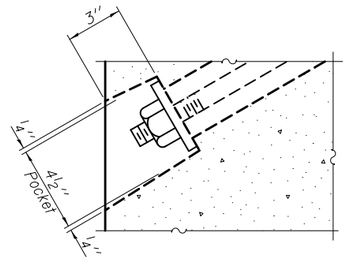
FABRIC BEARING PAD
(Interior)



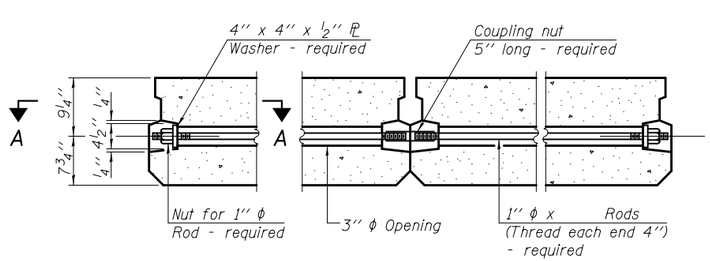
FABRIC BEARING PAD
(Exterior)

FIXED

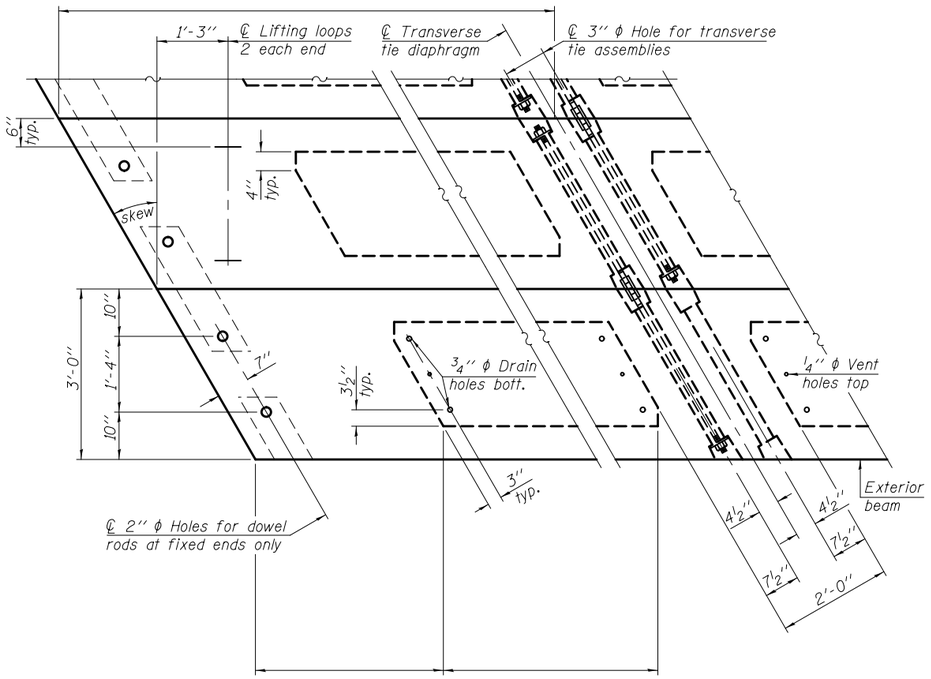
Notes:
All bearing pads shall be 1'' thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

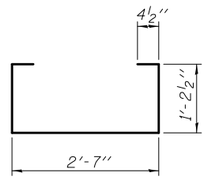


TYPICAL TRANSVERSE TIE ASSEMBLY

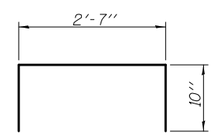


PLAN VIEW

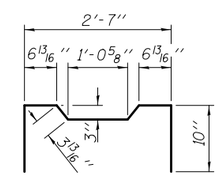
Note: Connect beams in pairs with the transverse tie configuration shown.



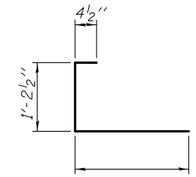
BAR S(E)



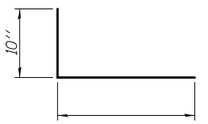
BAR S1(E)



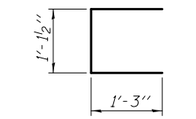
BAR S2(E)



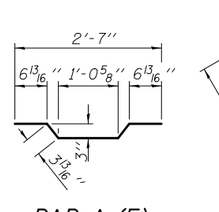
BAR S3(E)



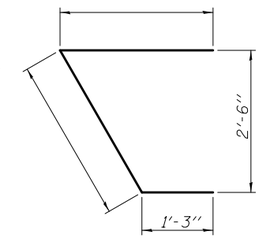
BAR S4(E)



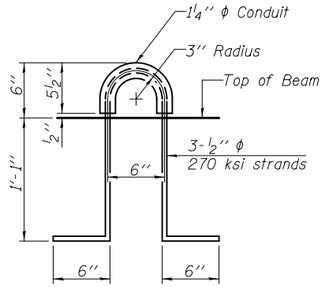
BAR U(E)



BAR A1(E)



BAR U1(E)



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½'' 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.

Two ⅛'' fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½'' ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

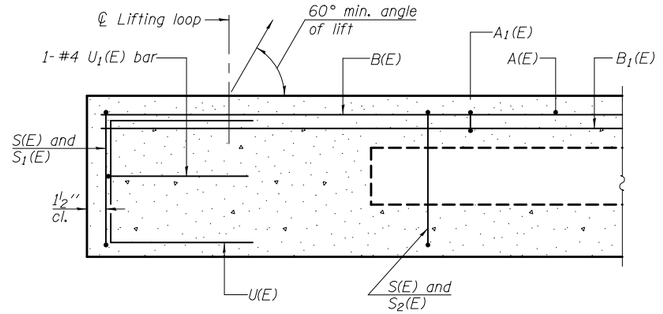
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

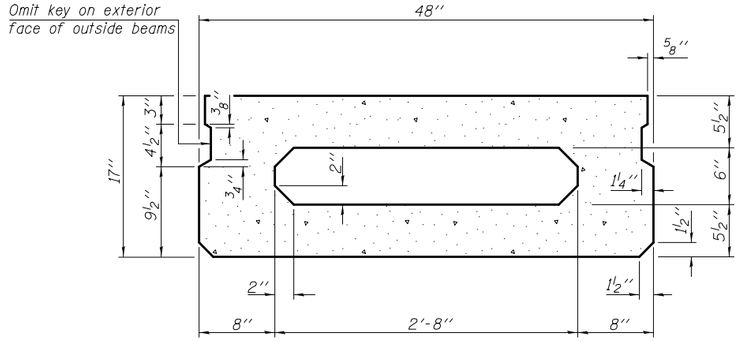
Precast Prestressed Conc. Deck Bms. (17'' depth)	Sq. Ft.	

PD-1736-RD 06-01-16

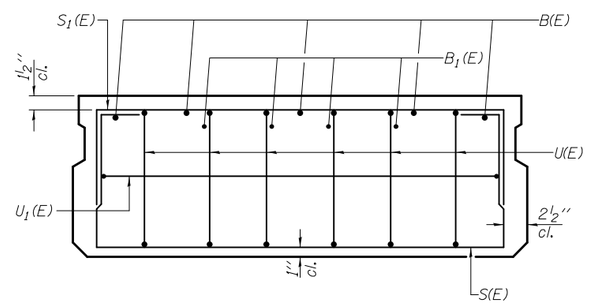
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	17'' x 36'' PPC DECK BEAM DETAILS STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -					
	PLOT SCALE =	DRAWN -	REVISED -					CONTRACT NO.
	PLOT DATE =	CHECKED -	REVISED -					ILLINOIS FED. AID PROJECT



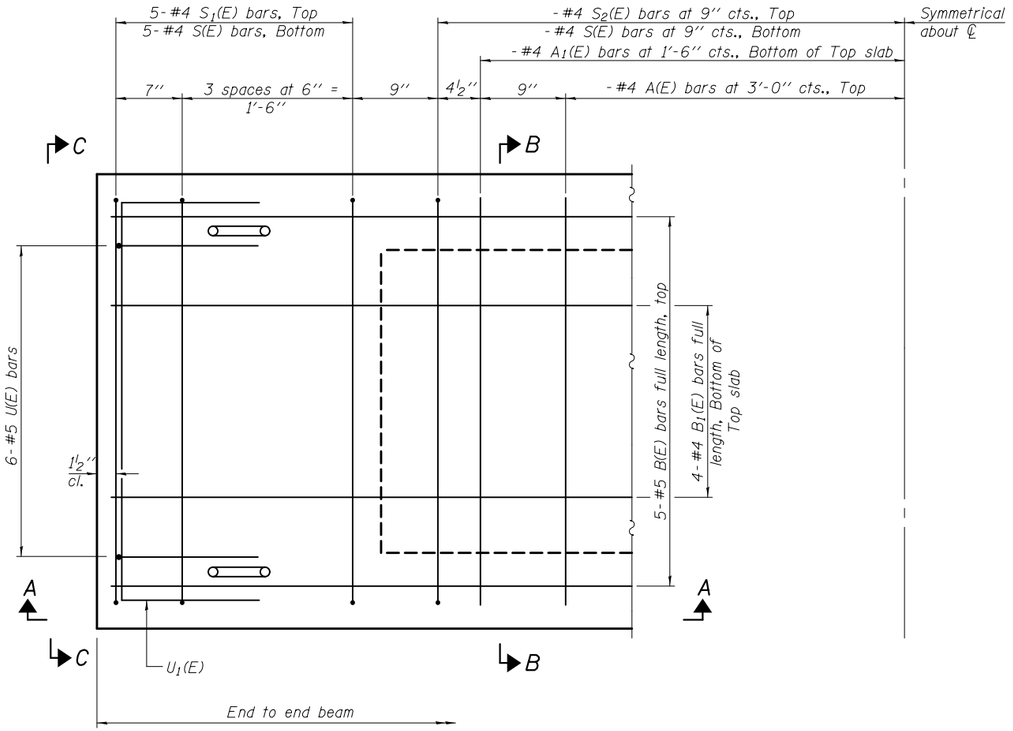
SECTION A-A



SECTION B-B
(Showing dimensions)

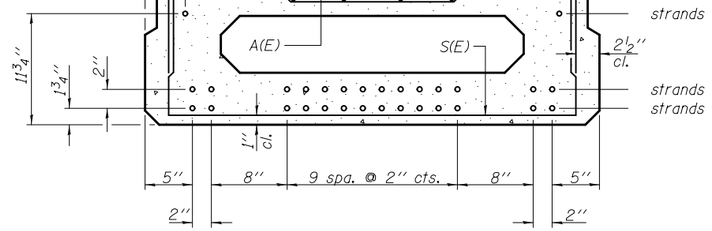


VIEW C-C



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 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.

MINIMUM BAR LAP
#4 bar = 1'-11"
#5 bar = 2'-6"

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	3'-7"	—
$A_1(E)$		#4	3'-10"	~
B(E)		#5		—
$B_1(E)$		#4		—
S(E)		#4	6'-9"	⊔
$S_1(E)$	10	#4	5'-3"	⊓
$S_2(E)$		#4	5'-6"	⊓
U(E)	12	#5	3'-8"	⊏
$U_1(E)$	2	#4	6'-0"	⊓

Note: See sheet of for additional details and Bill of Material.

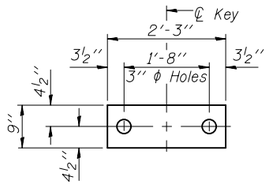
PD-1748-0 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

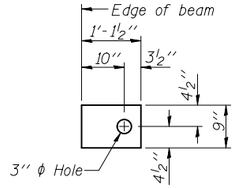
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

17" x 48" PPC DECK BEAM
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



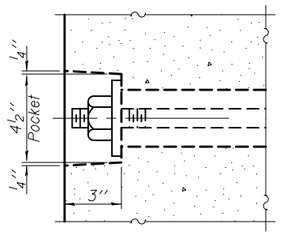
FABRIC BEARING PAD
(Interior)



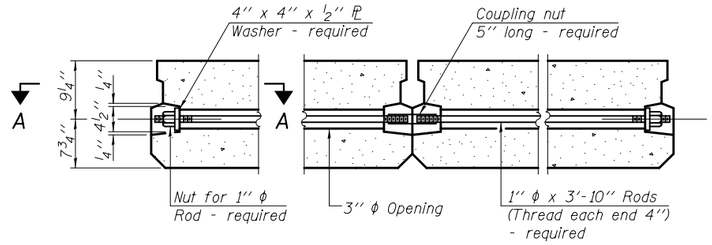
FABRIC BEARING PAD
(Exterior)

FIXED

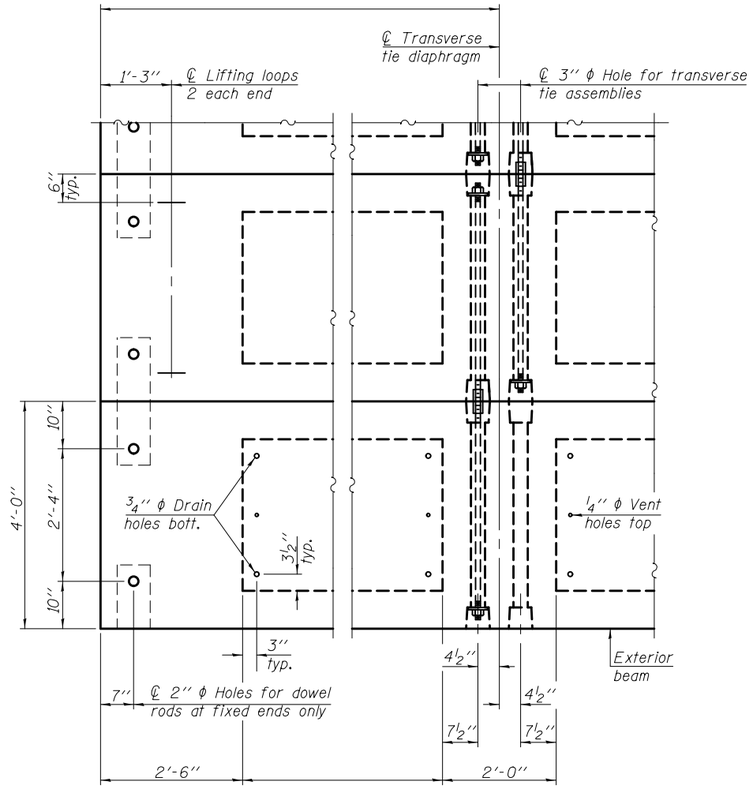
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

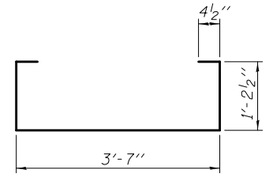


TYPICAL TRANSVERSE TIE ASSEMBLY

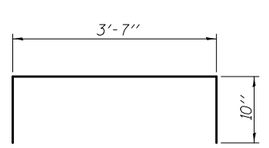


PLAN VIEW

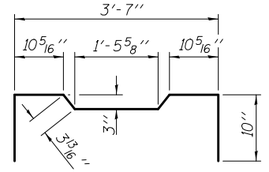
Note: Connect beams in pairs with the transverse tie configuration shown.



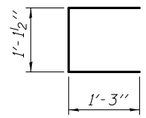
BAR S(E)



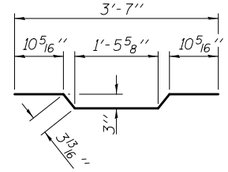
BAR S_1(E)



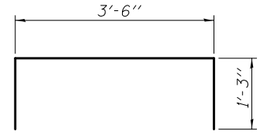
BAR S_2(E)



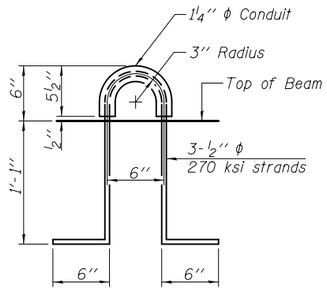
BAR U(E)



BAR A_1(E)



BAR U_1(E)



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	

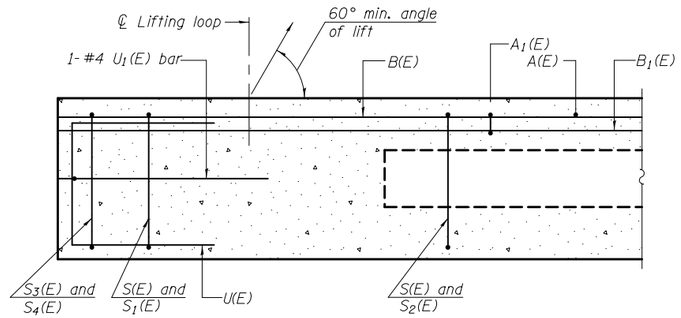
PD-1748-0D 1-28-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

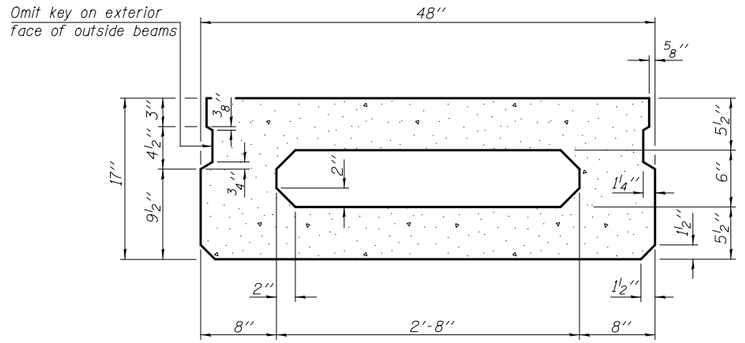
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

17" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO.

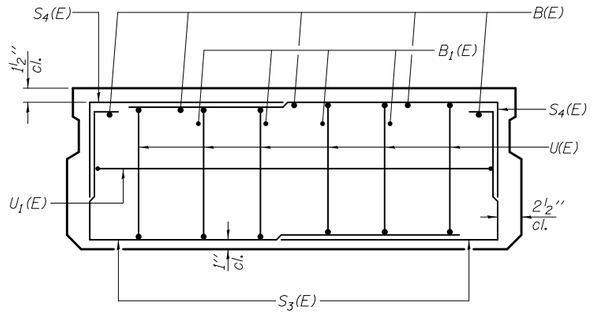
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



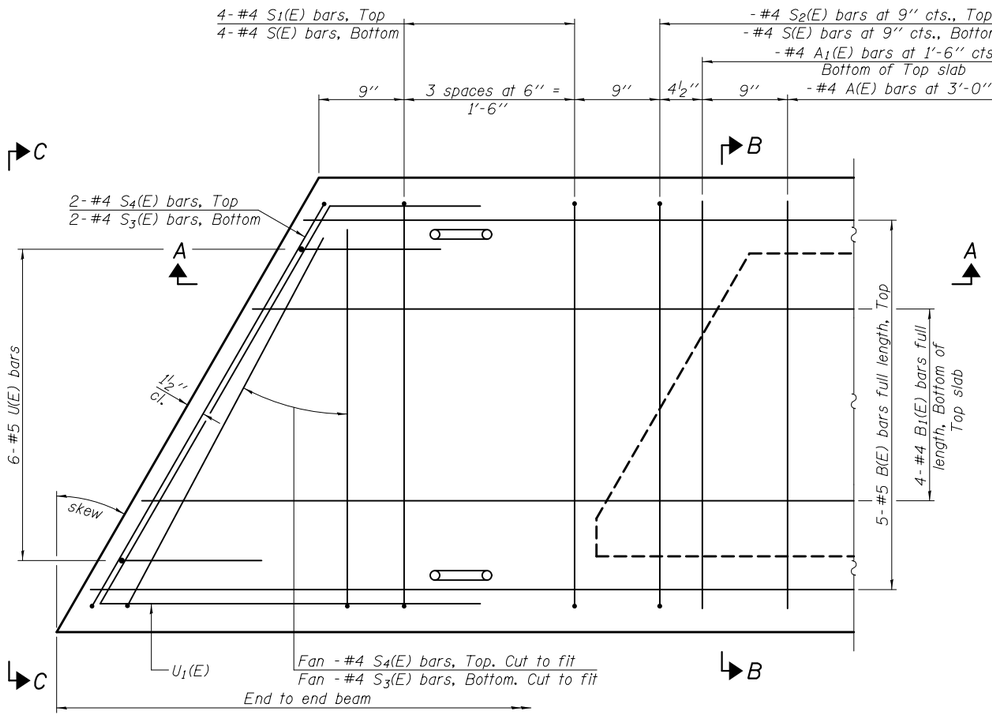
SECTION A-A



SECTION B-B
(Showing dimensions)

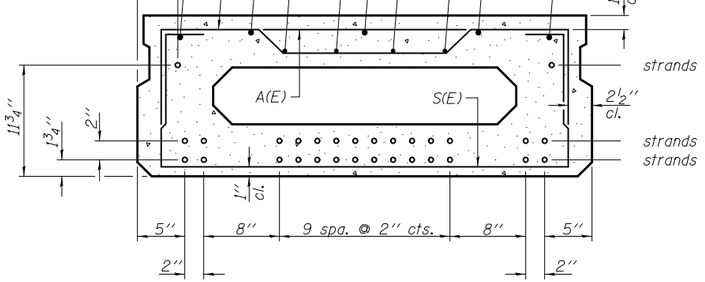


VIEW C-C



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 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.

MINIMUM BAR LAP
#4 bar = 1′-11″
#5 bar = 2′-6″

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	3′-7″	—
$A_1(E)$		#4	3′-10″	~
B(E)		#5		—
$B_1(E)$		#4		—
S(E)		#4	6′-9″	⊔
$S_1(E)$	8	#4	5′-3″	⊓
$S_2(E)$		#4	5′-6″	⊓
$S_3(E)$		#4		⌐
$S_4(E)$		#4		⌐
U(E)	12	#5	3′-8″	⊏
$U_1(E)$	2	#4		⊏

Note: See sheet of for additional details and Bill of Material.

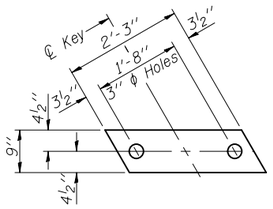
PD-1748-L 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

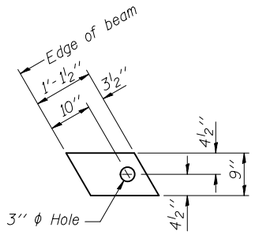
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

17″ x 48″ PPC DECK BEAM
STRUCTURE NO.

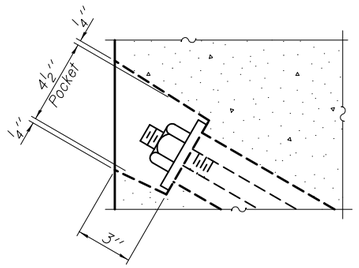
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



FABRIC BEARING PAD
(Interior)



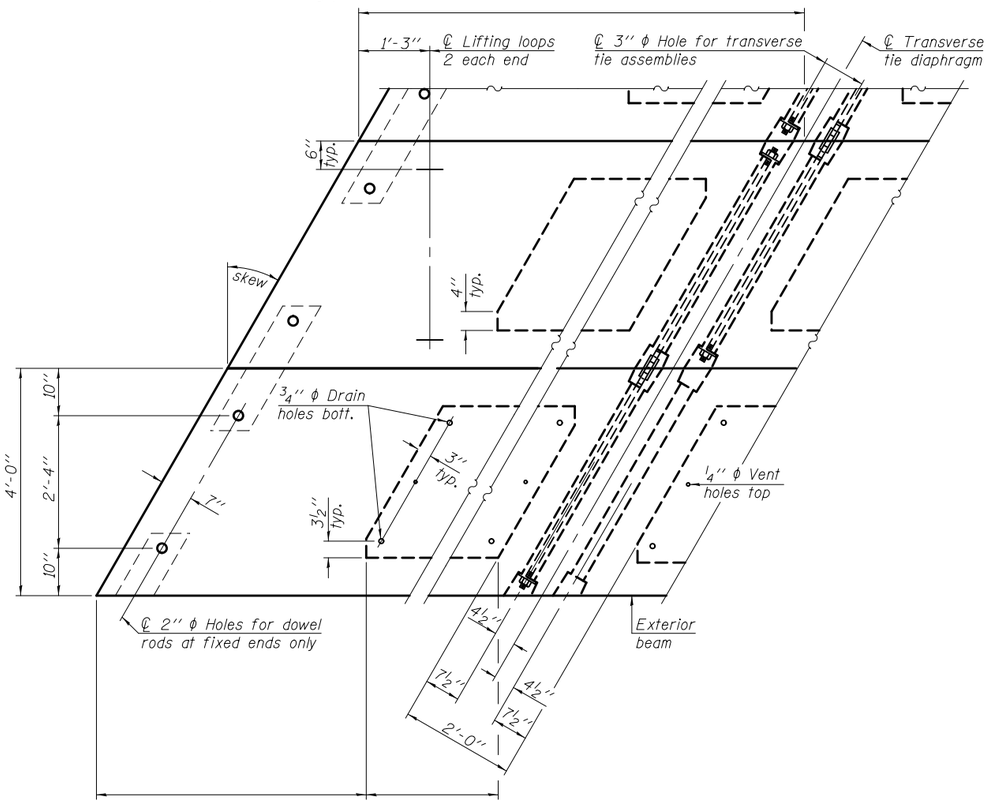
FABRIC BEARING PAD
(Exterior)



SECTION A-A

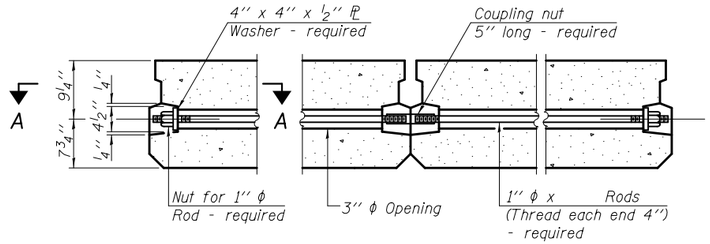
FIXED

Notes:
All bearing pads shall be 1'' thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.

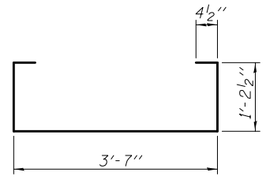


PLAN VIEW

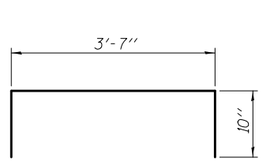
Note: Connect beams in pairs with the transverse tie configuration shown.



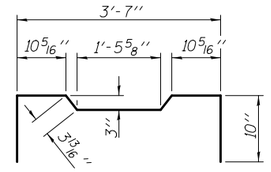
TYPICAL TRANSVERSE TIE ASSEMBLY



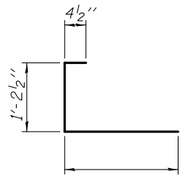
BAR S(E)



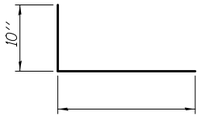
BAR S1(E)



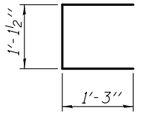
BAR S2(E)



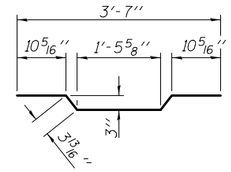
BAR S3(E)



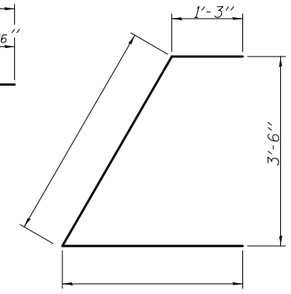
BAR S4(E)



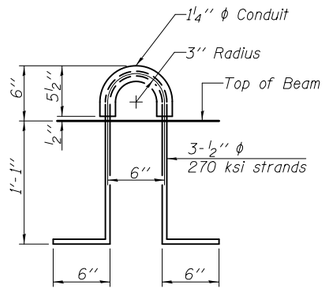
BAR U(E)



BAR A1(E)



BAR U1(E)



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½'' 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.

Two ⅛'' fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½'' ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17'' depth)	Sq. Ft.	

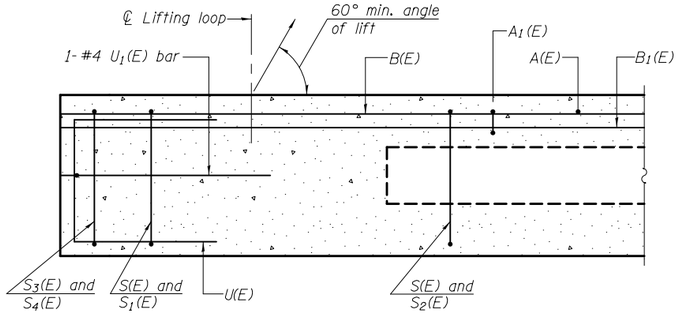
PD-1748-LD 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

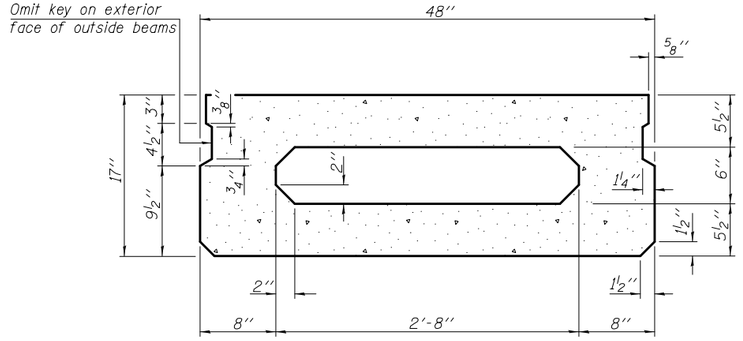
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

17'' x 48'' PPC DECK BEAM DETAILS
STRUCTURE NO.

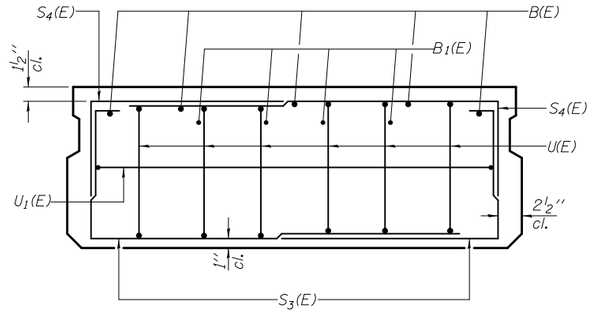
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



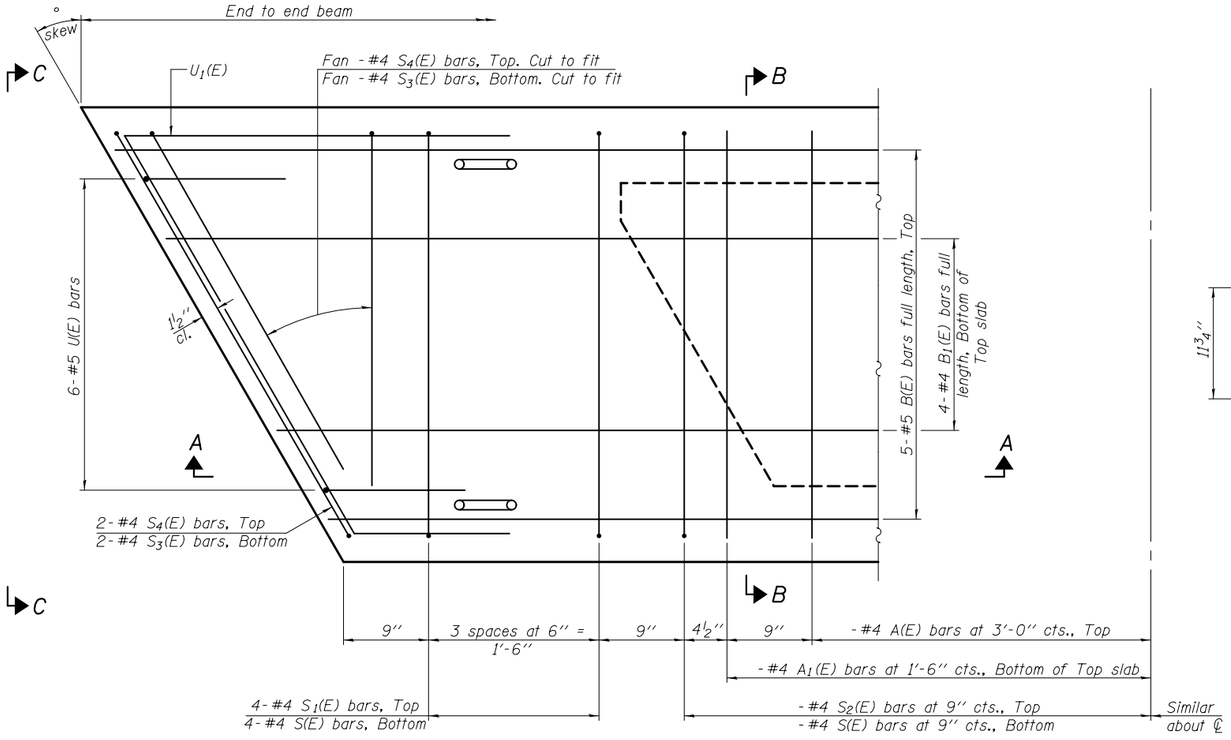
SECTION A-A



SECTION B-B
(Showing dimensions)

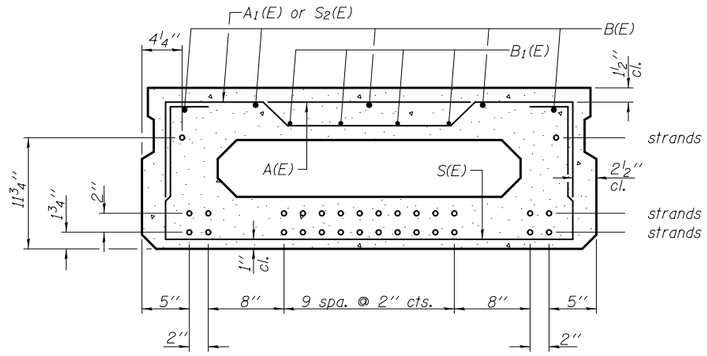


VIEW C-C



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 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.

MINIMUM BAR LAP
#4 bar = 1′-11″
#5 bar = 2′-6″

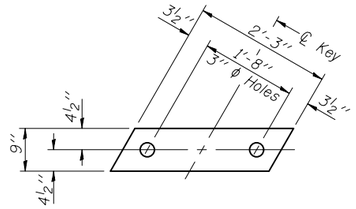
BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	3′-7″	—
$A_1(E)$		#4	3′-10″	⌒
B(E)		#5		—
$B_1(E)$		#4		—
S(E)		#4	6′-9″	⊔
$S_1(E)$	8	#4	5′-3″	⊓
$S_2(E)$		#4	5′-6″	⊓
$S_3(E)$		#4		⊔
$S_4(E)$		#4		⊔
U(E)	12	#5	3′-8″	⊔
$U_1(E)$	2	#4		⊔

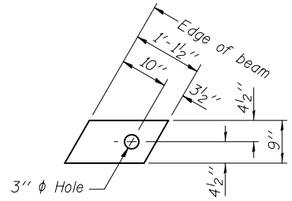
Note: See sheet of for additional details and Bill of Material.

PD-1748-R 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	17″ x 48″ PPC DECK BEAM STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -				CONTRACT NO.
	PLOT SCALE =	DRAWN -	REVISED -				ILLINOIS FED. AID PROJECT
	PLOT DATE =	CHECKED -	REVISED -				



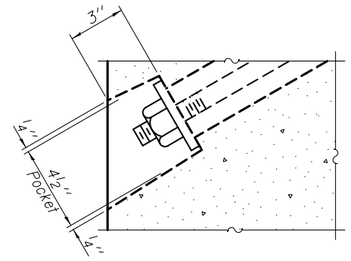
FABRIC BEARING PAD
(Interior)



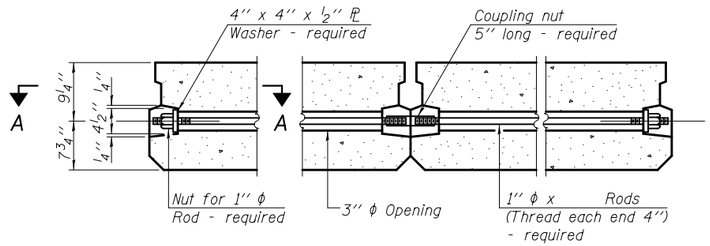
FABRIC BEARING PAD
(Exterior)

FIXED

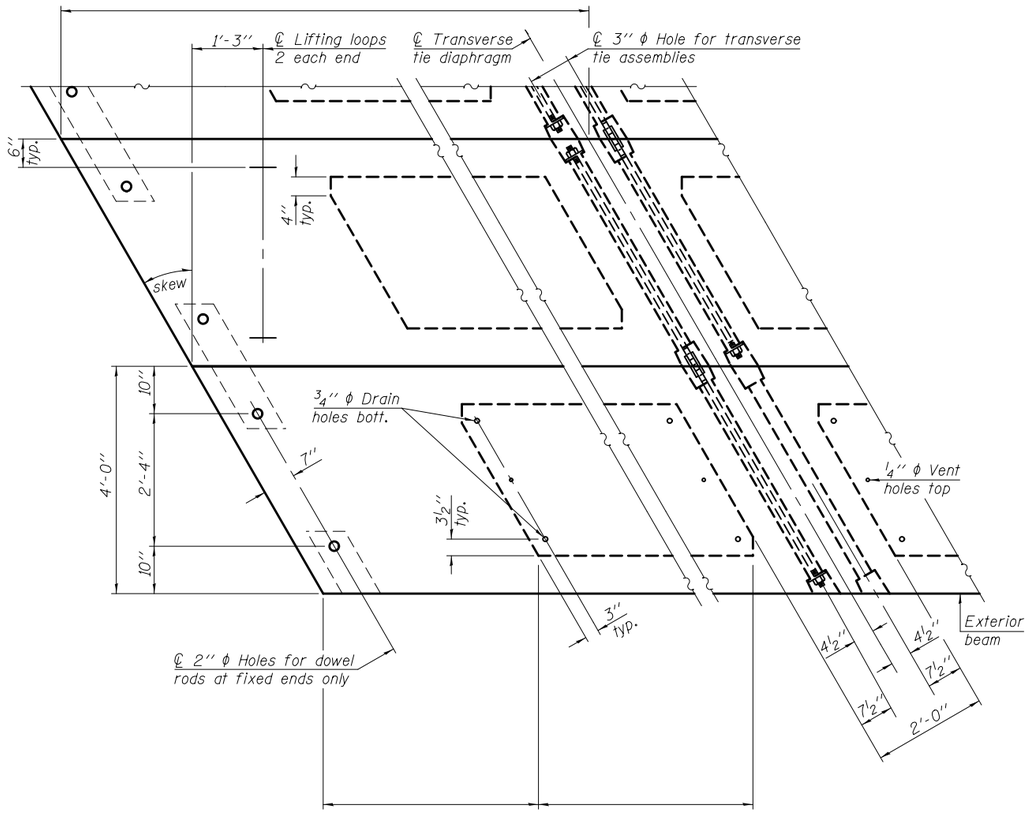
Notes:
All bearing pads shall be 1'' thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY



PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½'' 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.

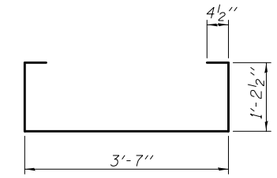
Two ⅛'' fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½'' ϕ lifting pin shall be used to engage the lifting loops during handling.

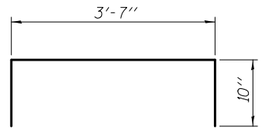
Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

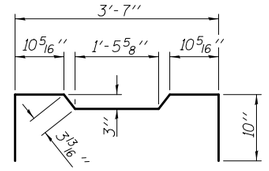
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



BAR S(E)



BAR S_1(E)



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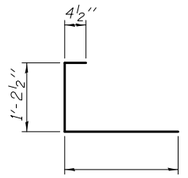
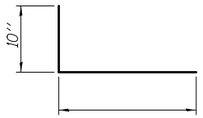
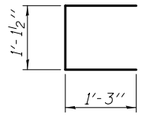


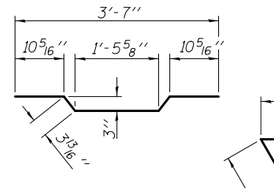
BAR S_3(E)



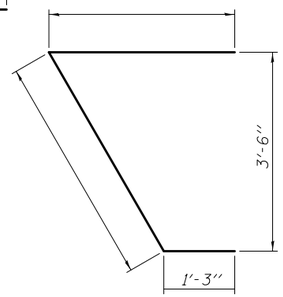
BAR S_4(E)



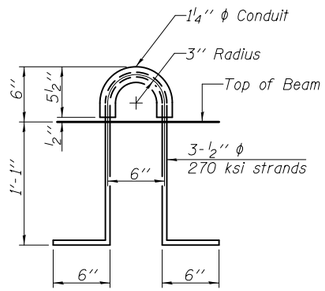
BAR U(E)



BAR A_1(E)



BAR U_1(E)



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17'' depth)	Sq. Ft.	

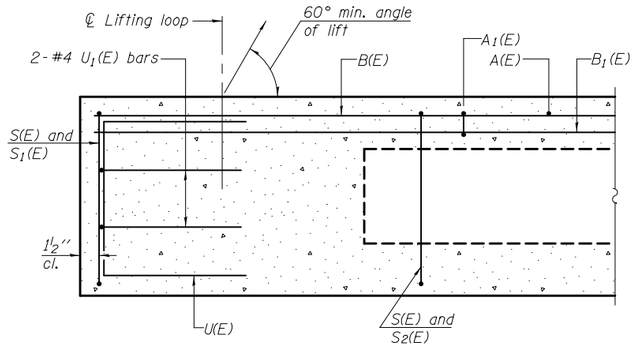
PD-1748-RD 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

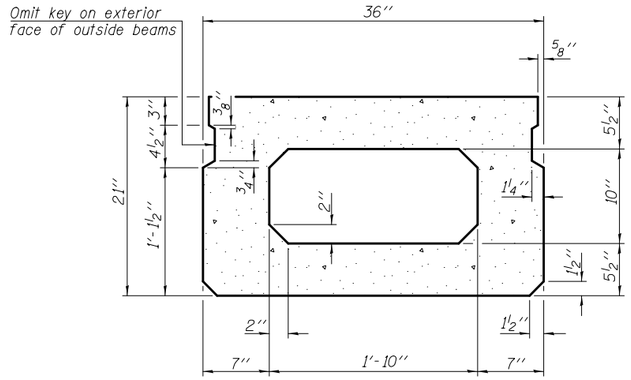
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

17'' x 48'' PPC DECK BEAM DETAILS
STRUCTURE NO.

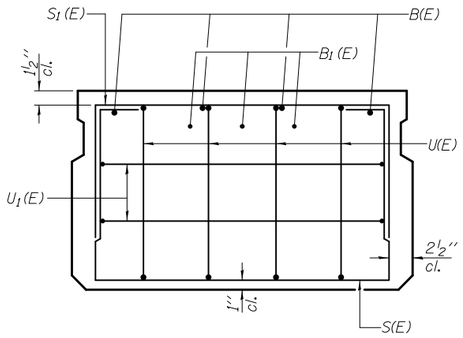
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



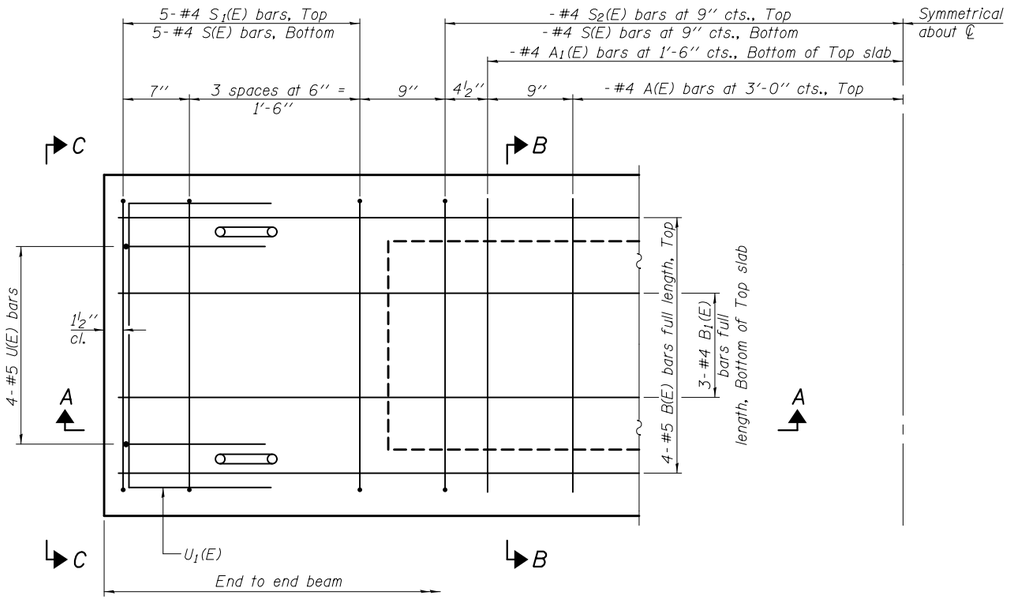
SECTION A-A



SECTION B-B
(Showing dimensions)

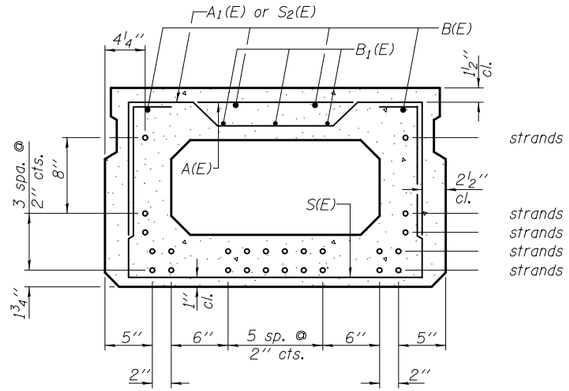


VIEW C-C



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 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.

MINIMUM BAR LAP

#4 bar = 1'-11"
#5 bar = 2'-6"

BAR LIST
ONE BEAM ONLY

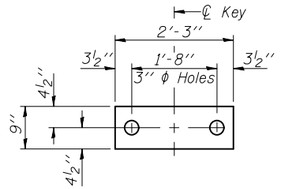
(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	2'-7"	—
A_1(E)		#4	2'-10"	⌒
B(E)		#5		—
B_1(E)		#4		—
S(E)		#4	6'-5"	⊔
S_1(E)	10	#4	4'-11"	⊓
S_2(E)		#4	5'-2"	⊓
U(E)	8	#5	4'-0"	⊏
U_1(E)	4	#4	5'-0"	⊓

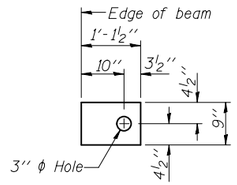
Note: See sheet of for additional details and Bill of Material.

PD-2136-0 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	21" x 36" PPC DECK BEAM STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -				
	PLOT SCALE =	DRAWN -	REVISED -				CONTRACT NO.
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT



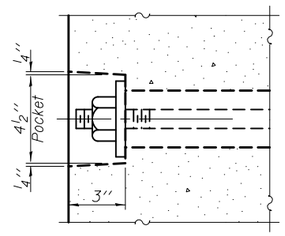
FABRIC BEARING PAD
(Interior)



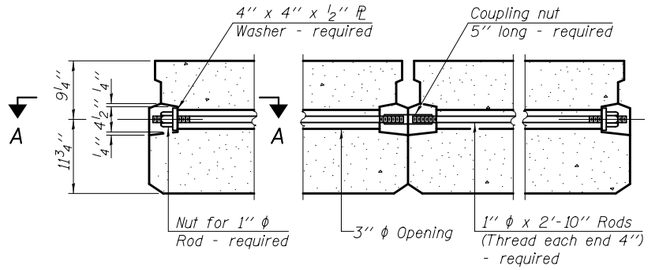
FABRIC BEARING PAD
(Exterior)

FIXED

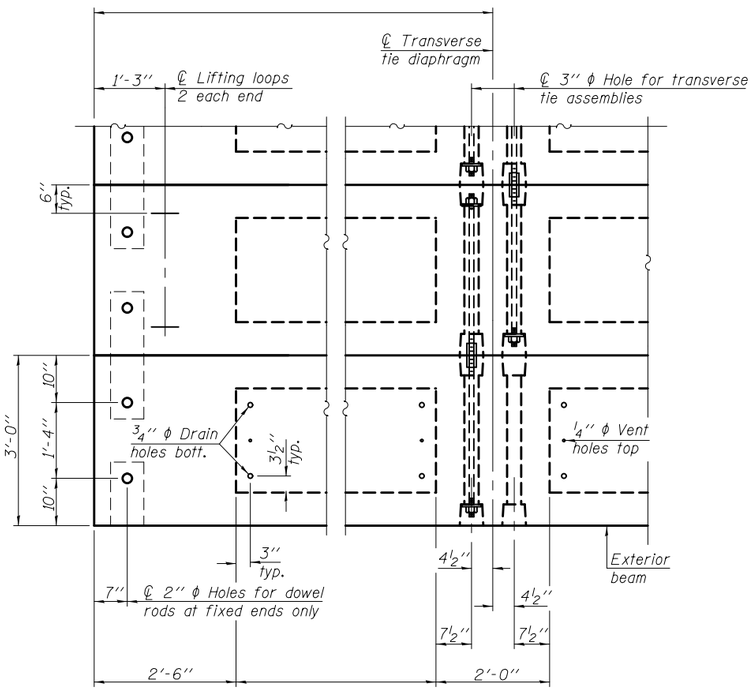
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

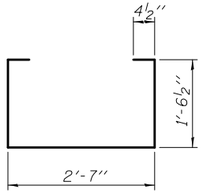


TYPICAL TRANSVERSE TIE ASSEMBLY

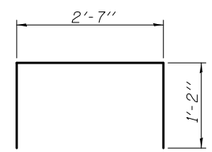


PLAN VIEW

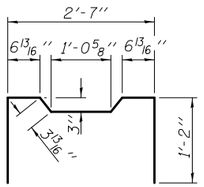
Note: Connect beams in pairs with the transverse tie configuration shown.



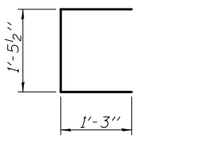
BAR S(E)



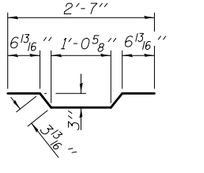
BAR S1(E)



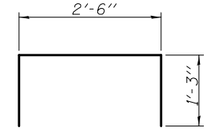
BAR S2(E)



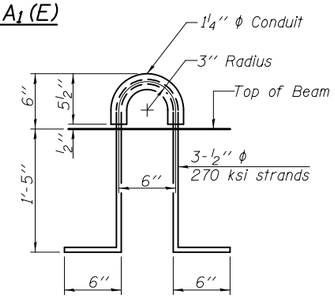
BAR U(E)



BAR A1(E)



BAR U1(E)



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

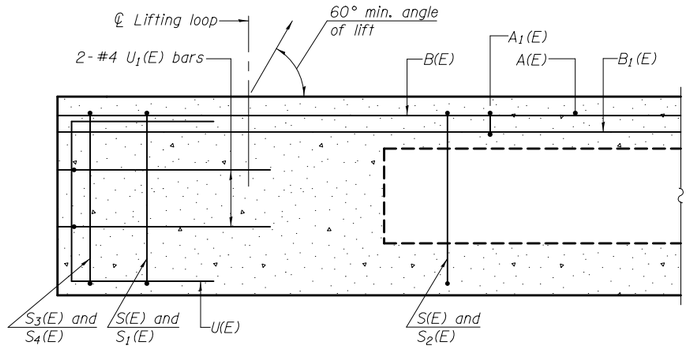
Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

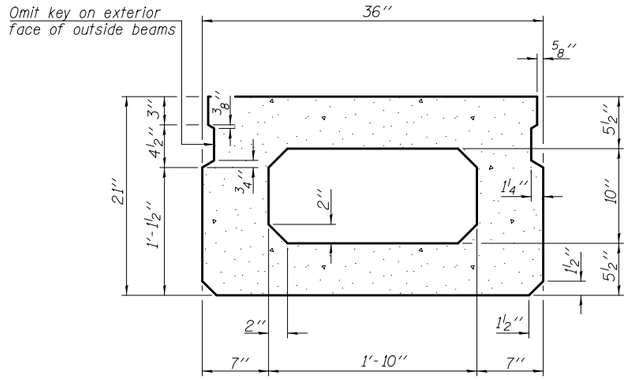
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

PD-2136-0D 1-28-16

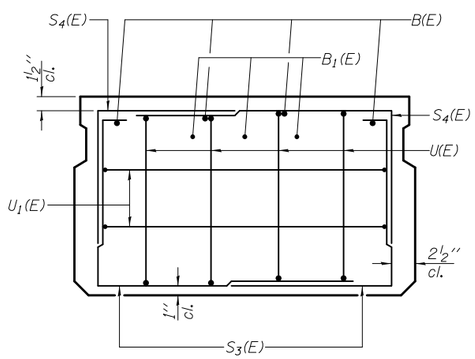
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	21" x 36" PPC DECK BEAM DETAILS STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -				
	PLOT SCALE =	DRAWN -	REVISED -				CONTRACT NO.
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT



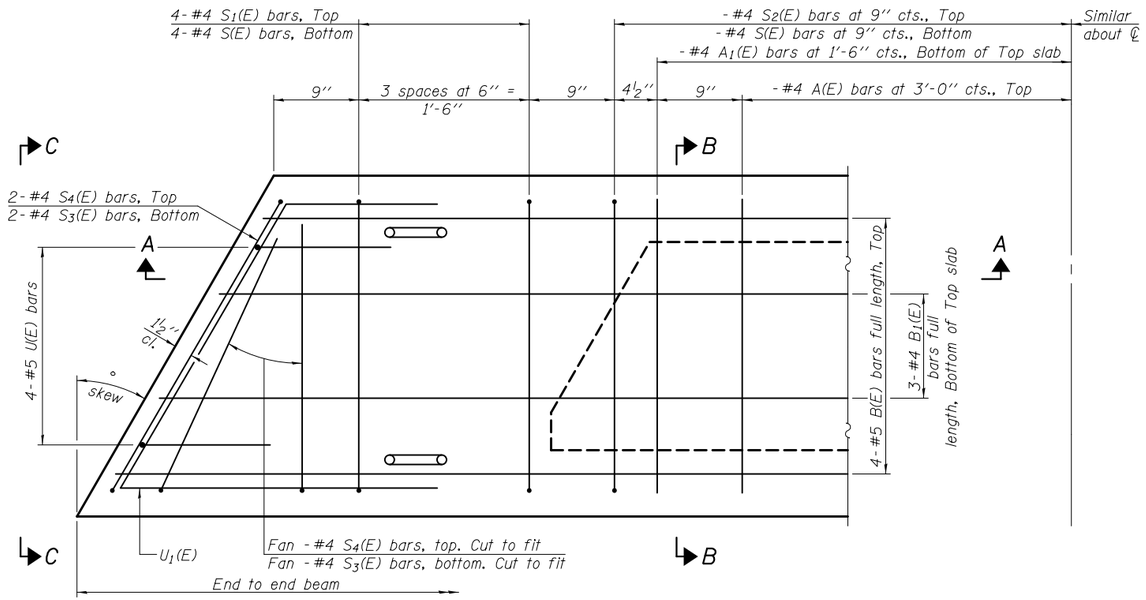
SECTION A-A



SECTION B-B
(Showing dimensions)

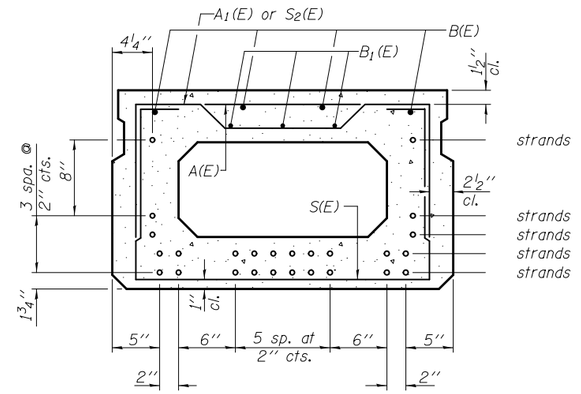


VIEW C-C



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 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.

MINIMUM BAR LAP

#4 bar = 1'-11''
#5 bar = 2'-6''

BAR LIST
ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	2'-7''	—
$A_1(E)$		#4	2'-10''	⌒
B(E)		#5		—
$B_1(E)$		#4		—
S(E)		#4	6'-5''	⊏
$S_1(E)$	8	#4	4'-11''	⊐
$S_2(E)$		#4	5'-2''	⊐
$S_3(E)$		#4		⌊
$S_4(E)$		#4		⌊
U(E)	8	#5	4'-0''	⊏
$U_1(E)$	4	#4		⊂

Note: See sheet of for additional details and Bill of Material.

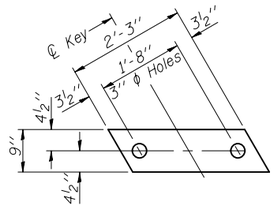
PD-2136-L 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

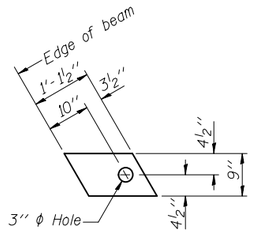
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21'' x 36'' PPC DECK BEAM
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



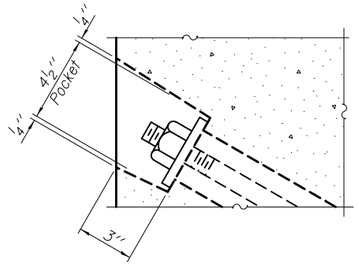
FABRIC BEARING PAD
(Interior)



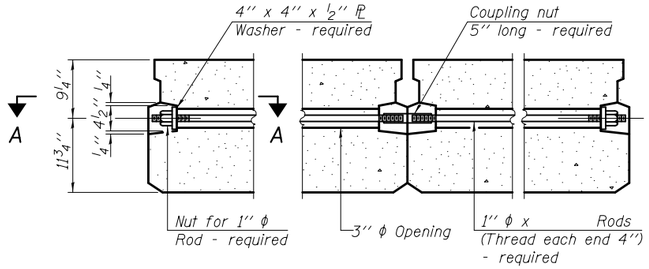
FABRIC BEARING PAD
(Exterior)

FIXED

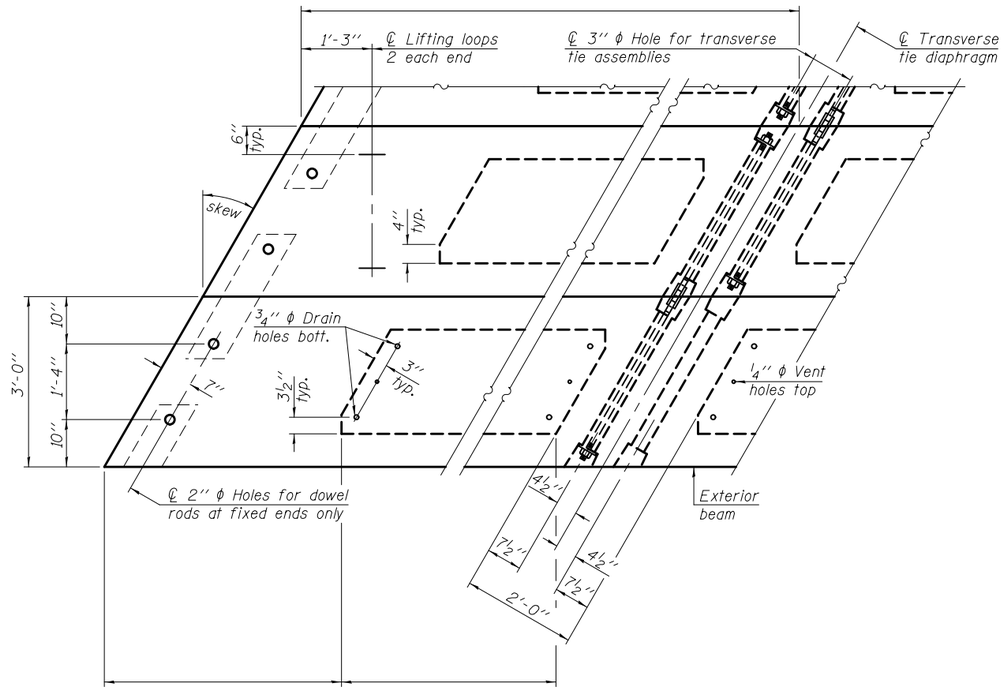
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

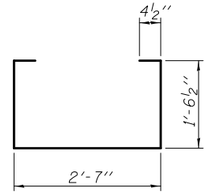


TYPICAL TRANSVERSE TIE ASSEMBLY

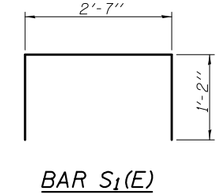


PLAN VIEW

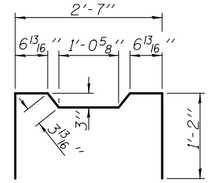
Note:
Connect beams in pairs with the transverse tie configuration shown.



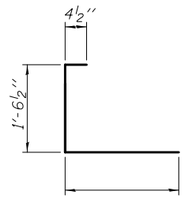
BAR S(E)



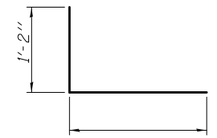
BAR S_1(E)



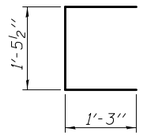
BAR S_2(E)



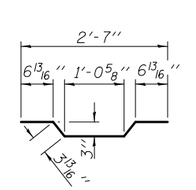
BAR S_3(E)



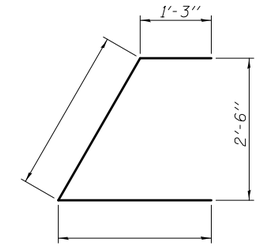
BAR S_4(E)



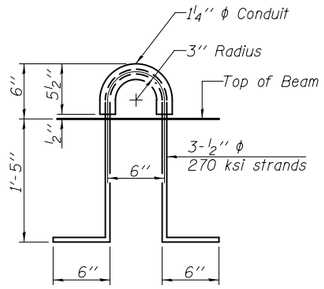
BAR U(E)



BAR A_1(E)



BAR U_1(E)



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	

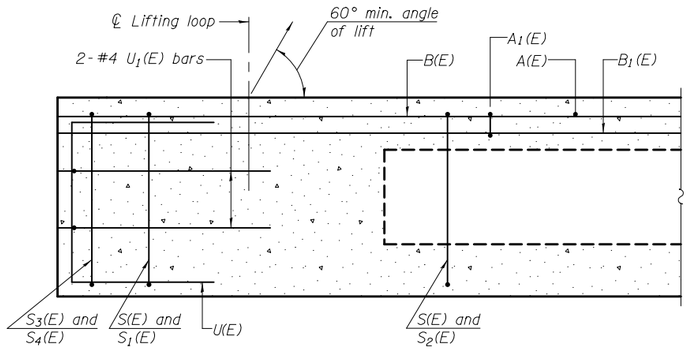
PD-2136-LD 1-28-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

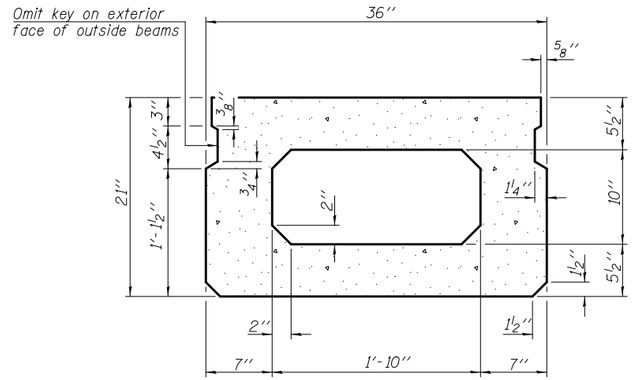
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO.

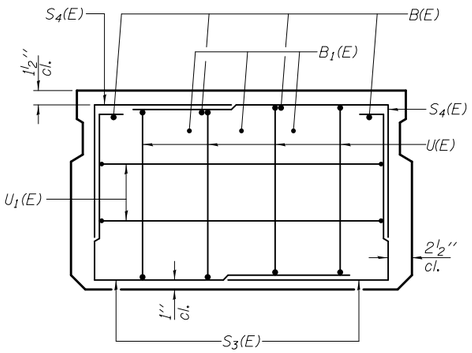
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



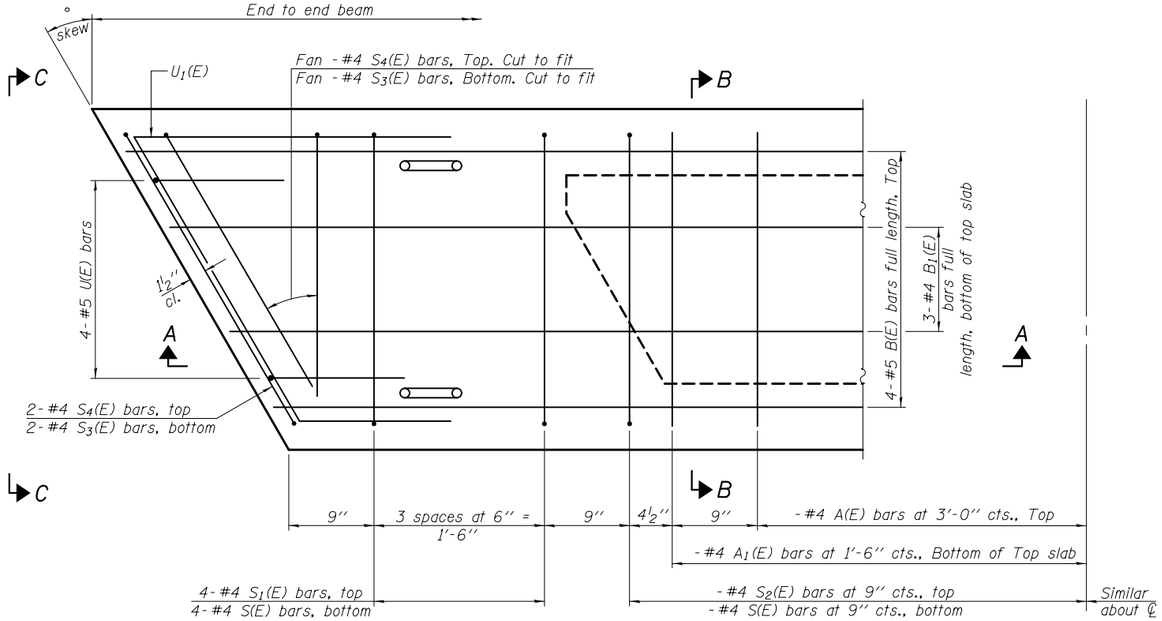
SECTION A-A



SECTION B-B
(Showing dimensions)

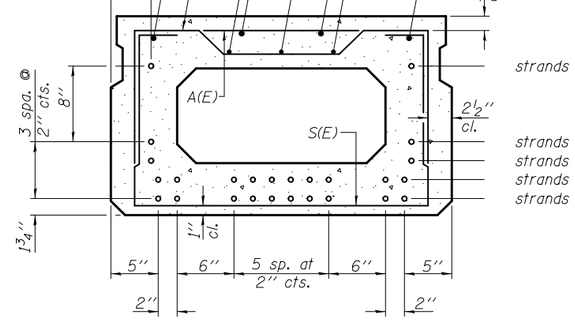


VIEW C-C



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 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)		#4	2'-7''	—
A_1(E)		#4	2'-10''	~
B(E)		#5		—
B_1(E)		#4		—
S(E)		#4	6'-5''	⊔
S_1(E)	8	#4	4'-11''	⊓
S_2(E)		#4	5'-2''	⊓
S_3(E)		#4		⌋
S_4(E)		#4		⌋
U(E)	8	#5	4'-0''	⊏
U_1(E)	4	#4		⊏

Note: See sheet of for additional details and Bill of Material.

MINIMUM BAR LAP
#4 bar = 1'-11''
#5 bar = 2'-6''

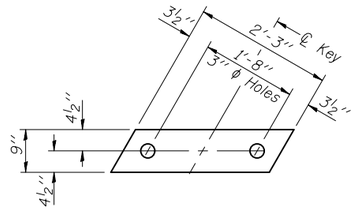
PD-2136-R 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

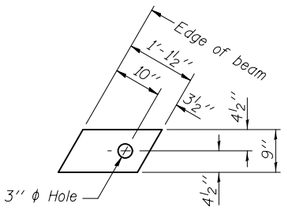
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21'' x 36'' PPC DECK BEAM
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



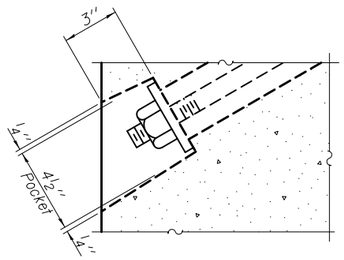
FABRIC BEARING PAD
(Interior)



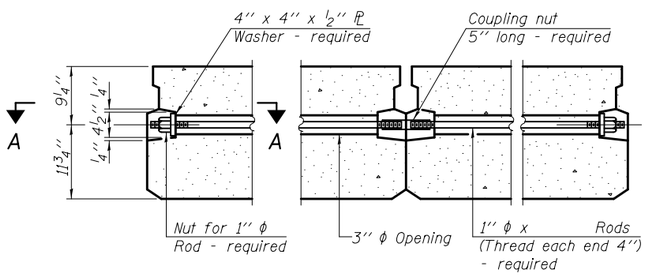
FABRIC BEARING PAD
(Exterior)

FIXED

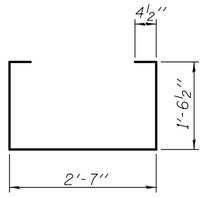
Notes:
All bearing pads shall be 1'' thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



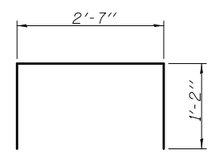
SECTION A-A



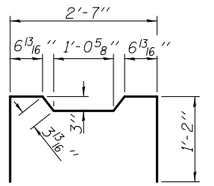
TYPICAL TRANSVERSE TIE ASSEMBLY



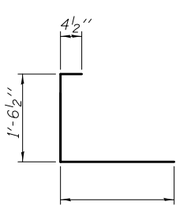
BAR S(E)



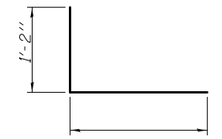
BAR S_1(E)



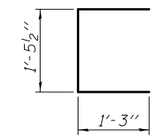
BAR S_2(E)



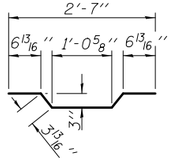
BAR S_3(E)



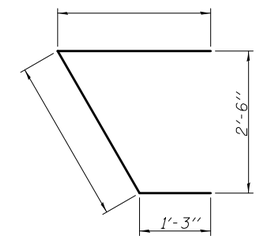
BAR S_4(E)



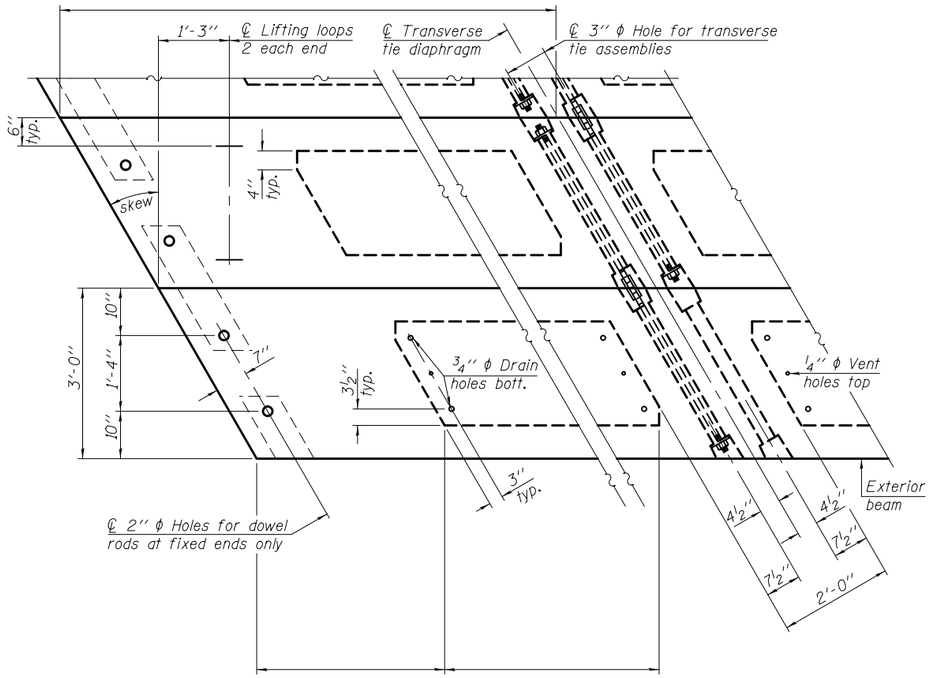
BAR U(E)



BAR A_1(E)



BAR U_1(E)



PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½'' 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.

Two ⅛'' fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½'' ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

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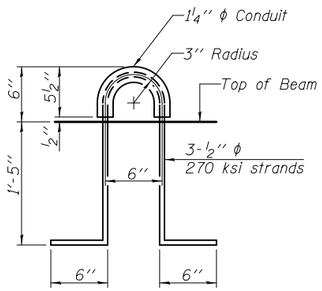
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21'' depth)	Sq. Ft.	

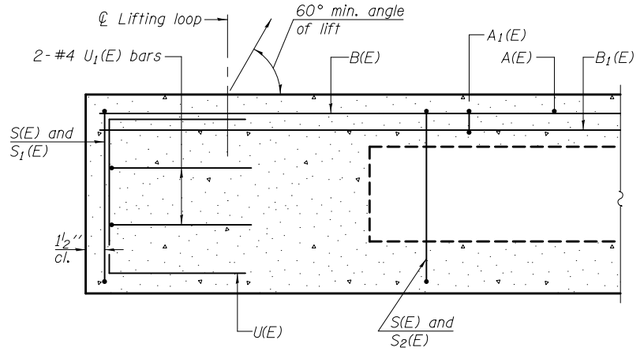
PD-2136-RD 1-28-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

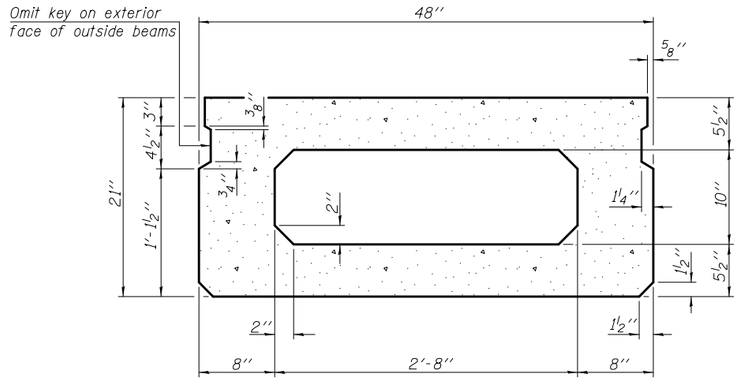
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21'' x 36'' PPC DECK BEAM DETAILS
STRUCTURE NO.

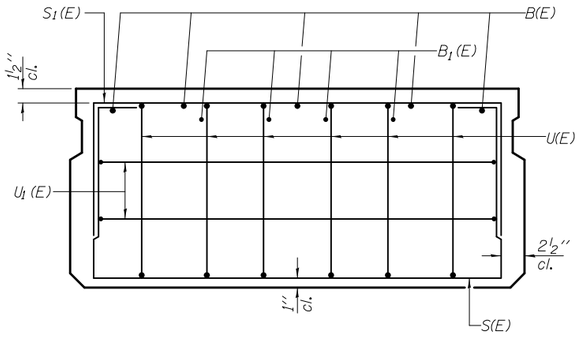
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



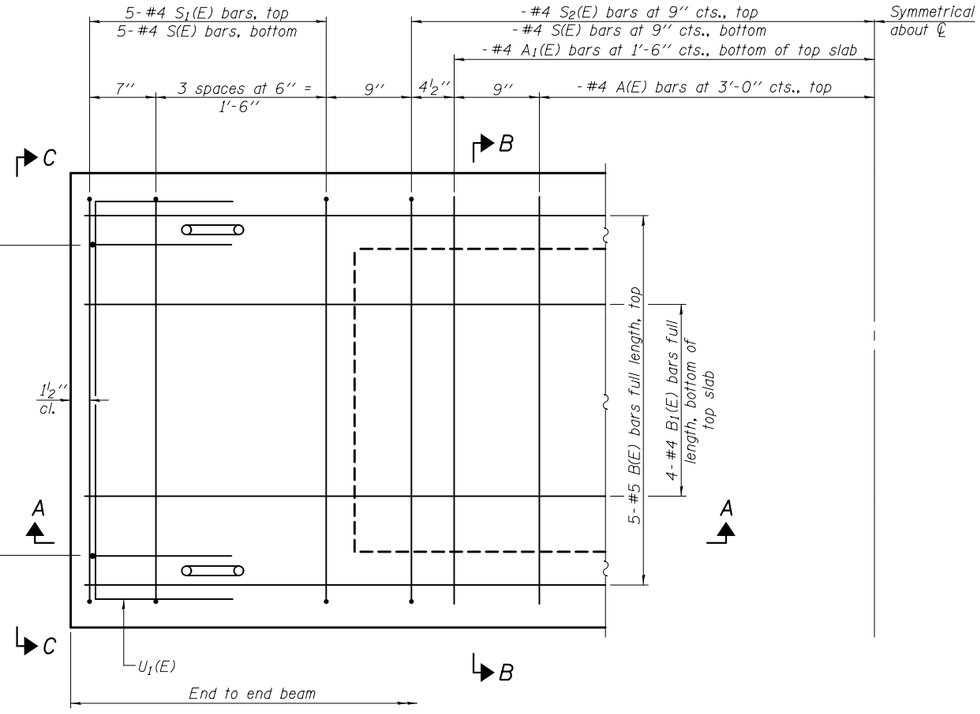
SECTION A-A



SECTION B-B
(Showing dimensions)

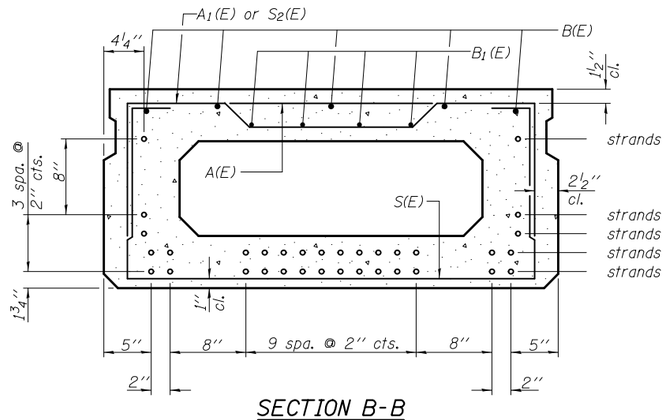


VIEW C-C



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 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)		#4	3'-7"	—
$A_1(E)$		#4	3'-10"	⌐
B(E)		#5		—
$B_1(E)$		#4		—
S(E)		#4	7'-5"	⊔
$S_1(E)$	10	#4	5'-11"	⊓
$S_2(E)$		#4	6'-2"	⊓
U(E)	12	#5	4'-0"	⊏
$U_1(E)$	4	#4	6'-0"	⊓

Note: See sheet of for additional details and Bill of Material.

MINIMUM BAR LAP
#4 bar = 1'-11"
#5 bar = 2'-6"

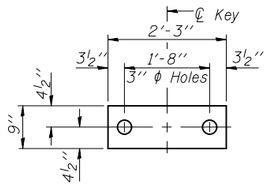
PD-2148-0 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

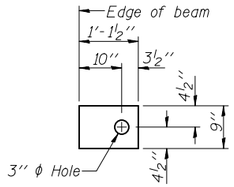
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21" x 48" PPC DECK BEAM
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



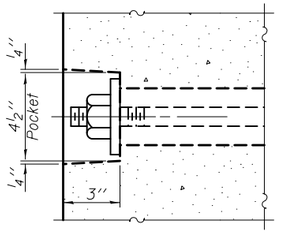
FABRIC BEARING PAD
(Interior)



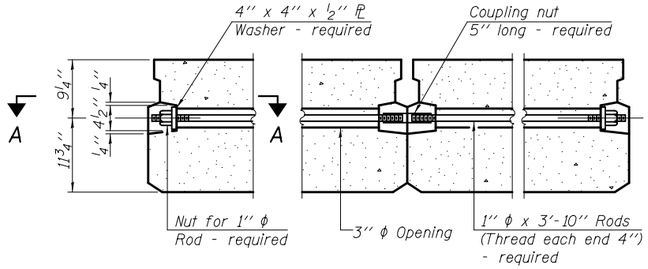
FABRIC BEARING PAD
(Exterior)

FIXED

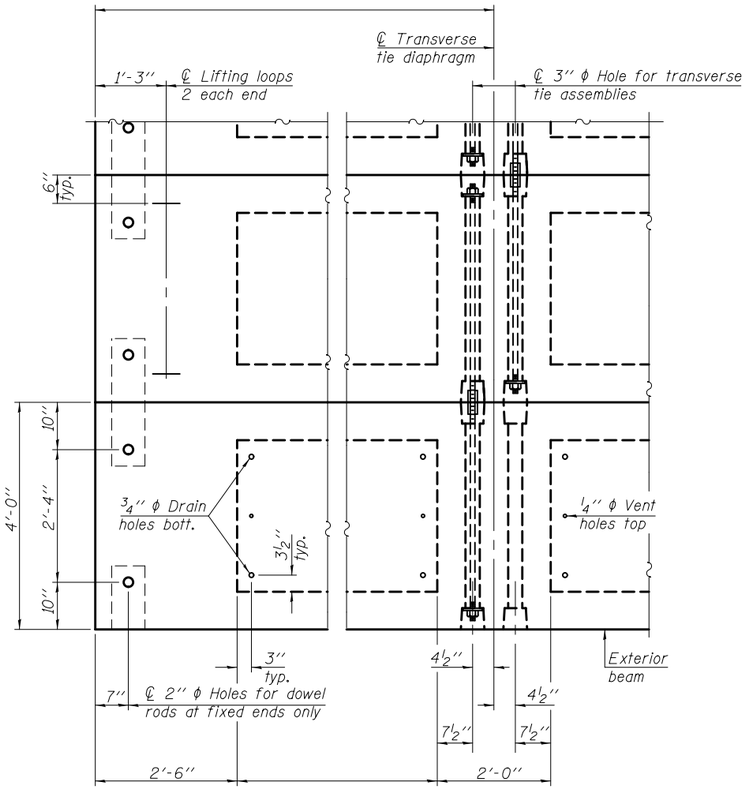
Notes:
All bearing pads shall be 1'' thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

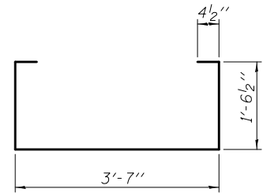


TYPICAL TRANSVERSE TIE ASSEMBLY



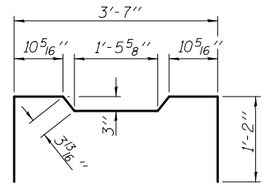
PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.

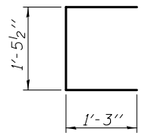


BAR S(E)

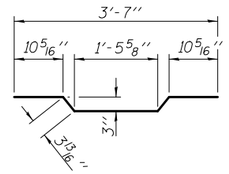
BAR S1(E)



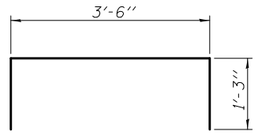
BAR S2(E)



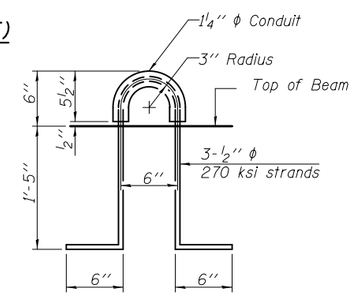
BAR U(E)



BAR A1(E)



BAR U1(E)



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½'' 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.

Two ⅛'' fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½'' ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

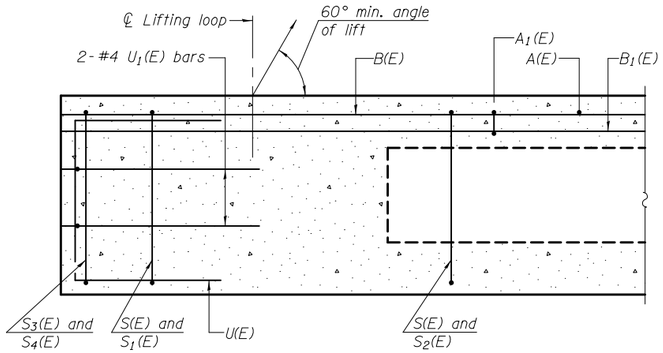
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

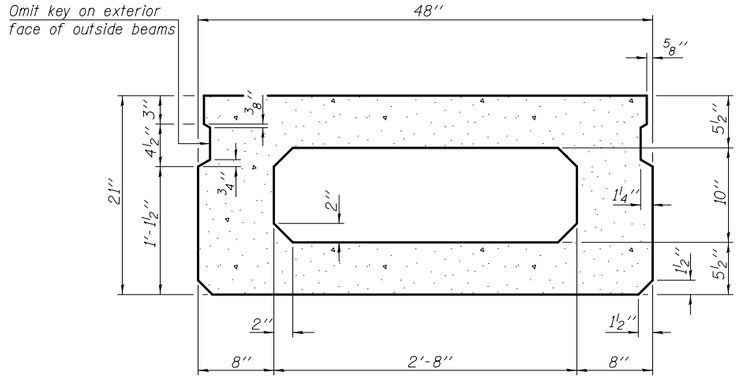
Precast Prestressed Conc. Deck Bms. (21'' depth)	Sq. Ft.	

PD-2148-0D 1-28-16

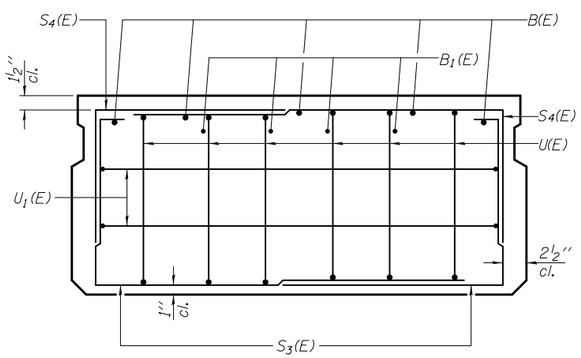
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	21'' x 48'' PPC DECK BEAM DETAILS STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -				
	PLOT SCALE =	DRAWN -	REVISED -				CONTRACT NO.
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT



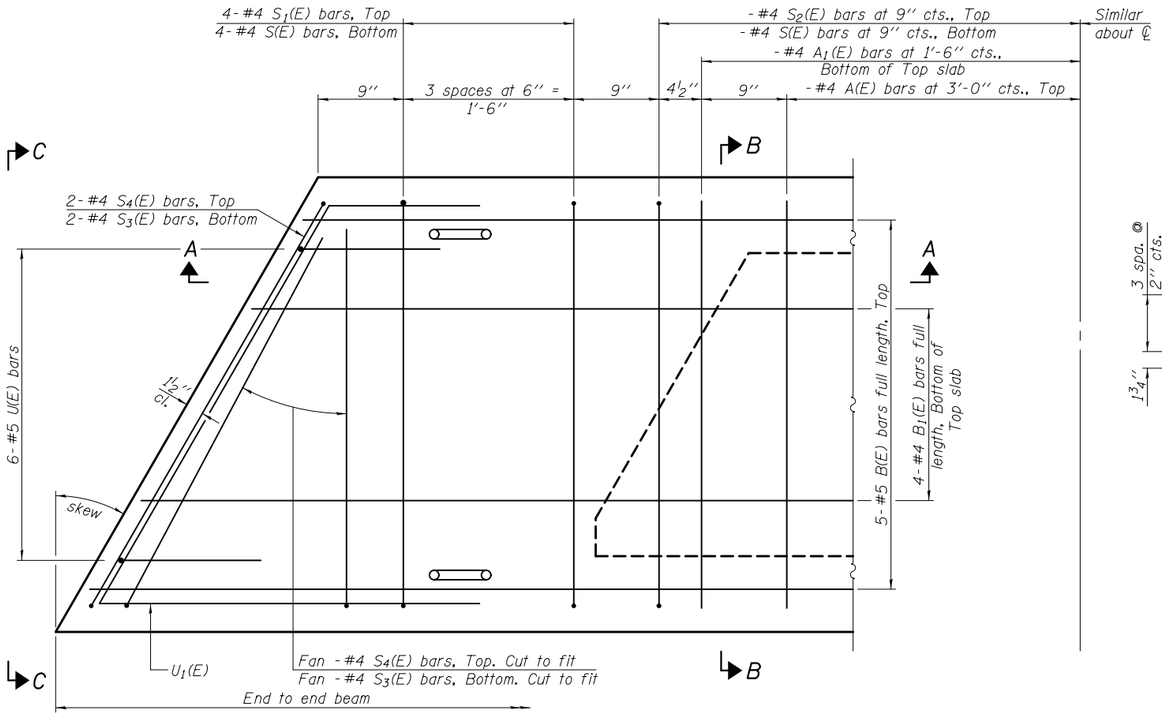
SECTION A-A



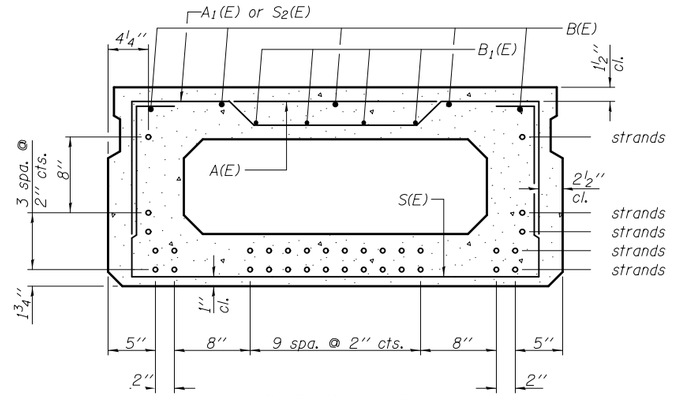
SECTION B-B
(Showing dimensions)



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)		#4	3'-7''	—
$A_1(E)$		#4	3'-10''	~
B(E)		#5		—
$B_1(E)$		#4		—
S(E)		#4	7'-5''	⊏
$S_1(E)$	8	#4	5'-11''	⊐
$S_2(E)$		#4	6'-2''	⊐
$S_3(E)$		#4		⌊
$S_4(E)$		#4		⌊
U(E)	12	#5	4'-0''	⊏
$U_1(E)$	4	#4		⊏

Note: See sheet of for additional details and Bill of Material.

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.

MINIMUM BAR LAP
#4 bar = 1'-11''
#5 bar = 2'-6''

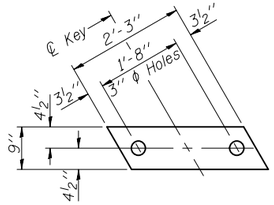
PD-2148-L 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

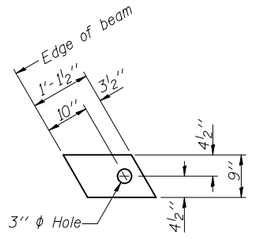
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21'' x 48'' PPC DECK BEAM
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

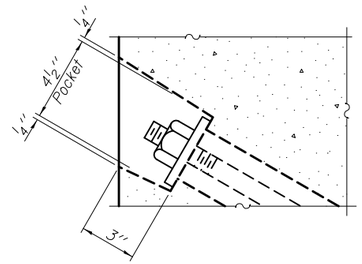


FABRIC BEARING PAD
(Interior)



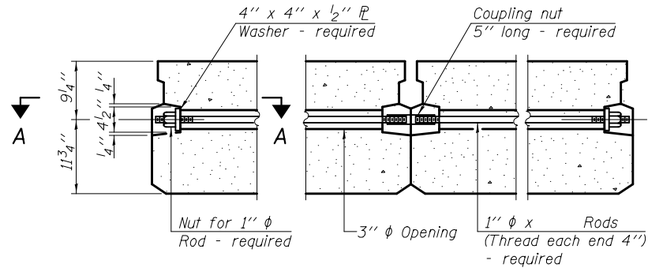
FABRIC BEARING PAD
(Exterior)

FIXED

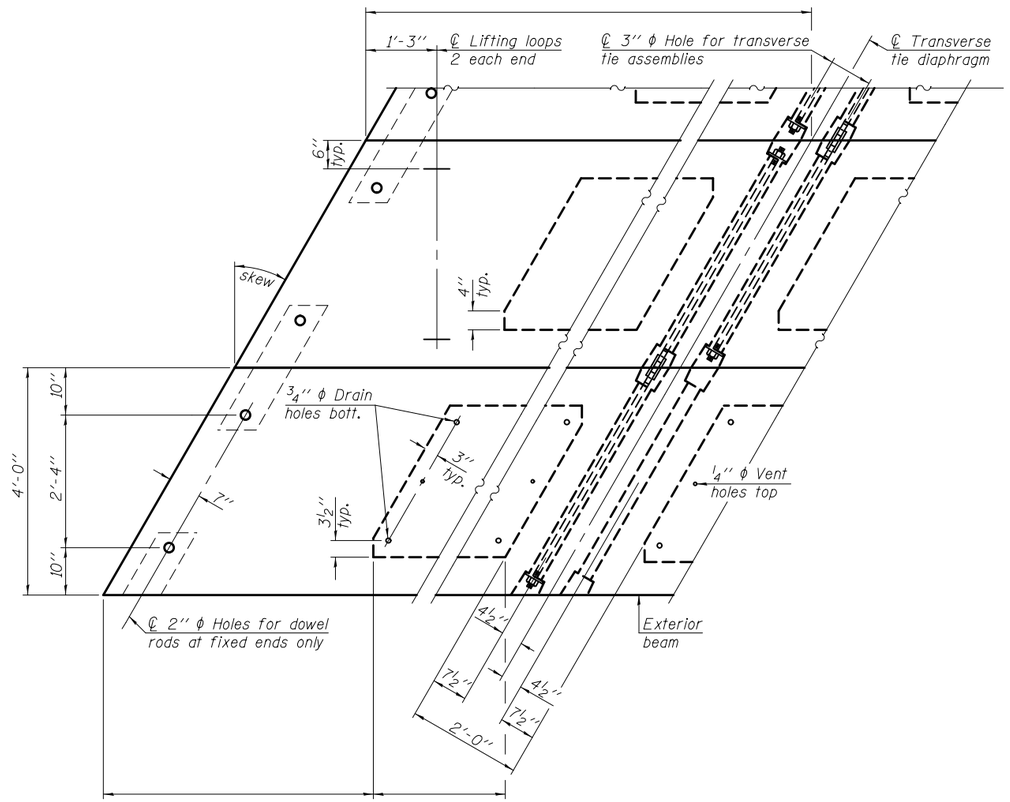


SECTION A-A

Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.

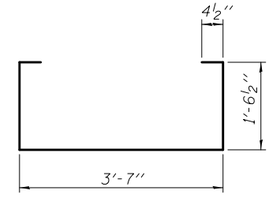


TYPICAL TRANSVERSE TIE ASSEMBLY

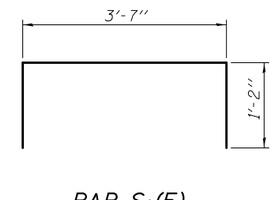


PLAN VIEW

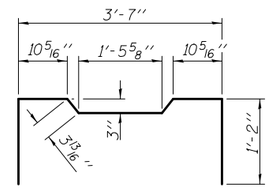
Note: Connect beams in pairs with the transverse tie configuration shown.



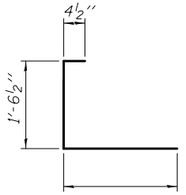
BAR S(E)



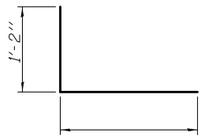
BAR S1(E)



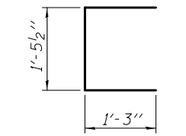
BAR S2(E)



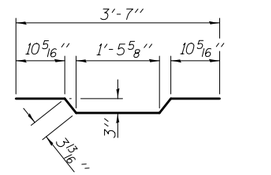
BAR S3(E)



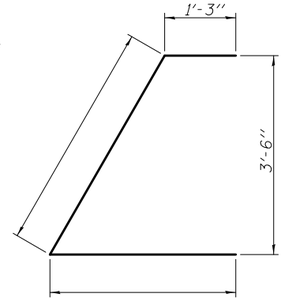
BAR S4(E)



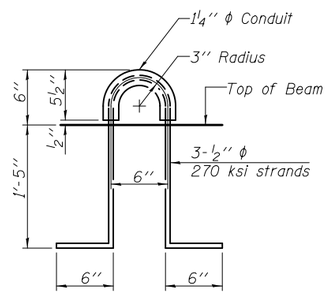
BAR U(E)



BAR A1(E)



BAR U1(E)



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	

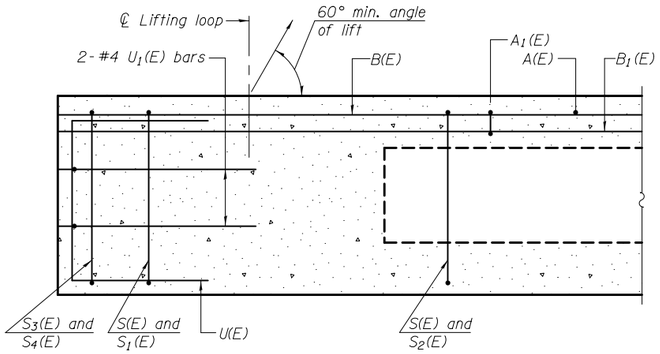
PD-2148-LD 1-28-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

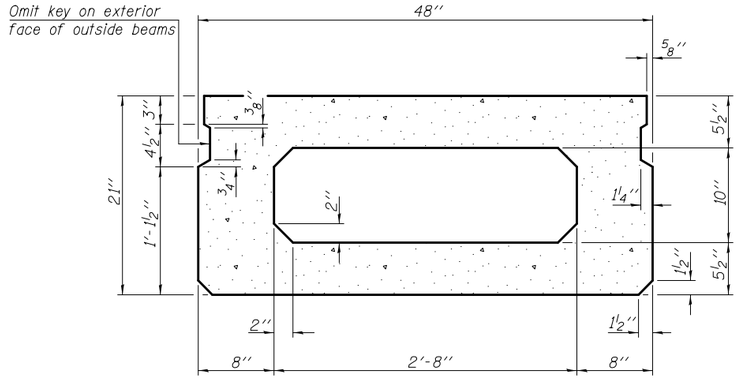
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

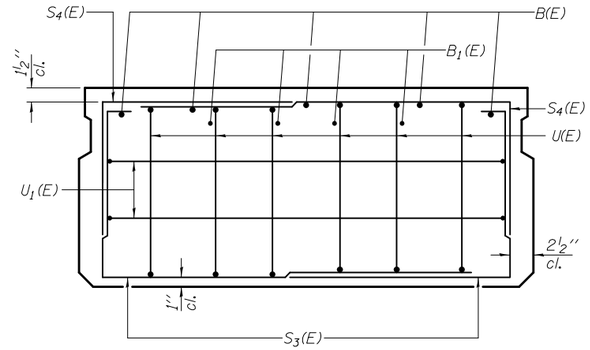


SECTION A-A

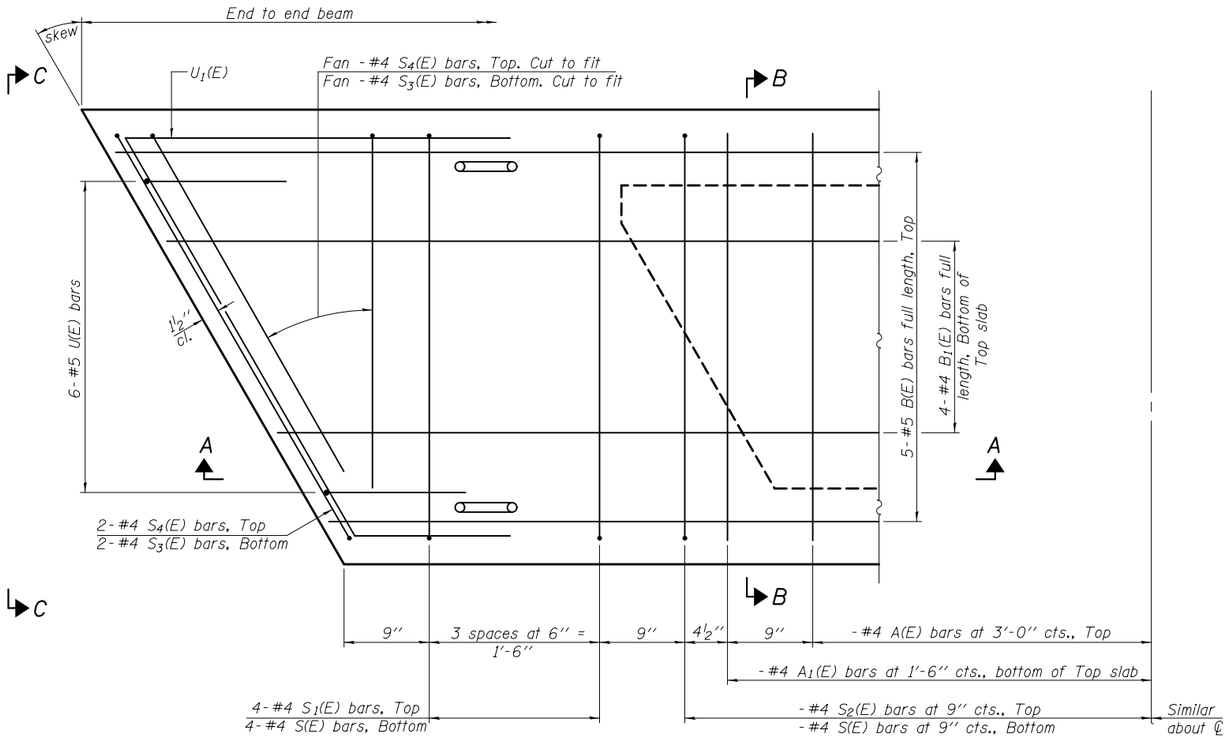


SECTION B-B

(Showing dimensions)

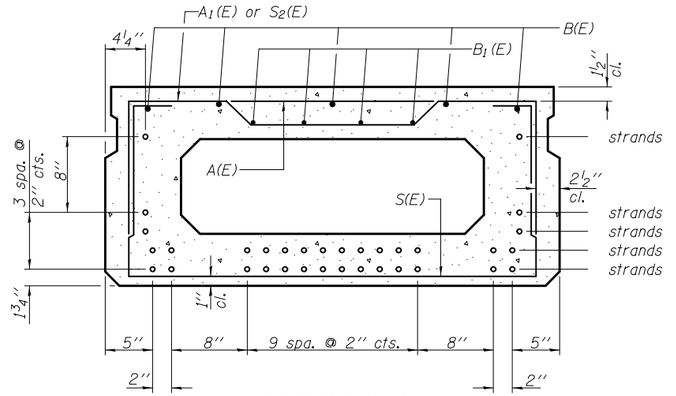


VIEW C-C



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 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.

MINIMUM BAR LAP

#4 bar = 1′-11″
#5 bar = 2′-6″

BAR LIST
ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	3′-7″	—
$A_1(E)$		#4	3′-10″	~
B(E)		#5		—
$B_1(E)$		#4		—
S(E)		#4	7′-5″	⊔
$S_1(E)$	8	#4	5′-11″	⊓
$S_2(E)$		#4	6′-2″	⊓
$S_3(E)$		#4		⌟
$S_4(E)$		#4		⌟
U(E)	12	#5	4′-0″	⊏
$U_1(E)$	4	#4		⊏

Note: See sheet of for additional details and Bill of Material.

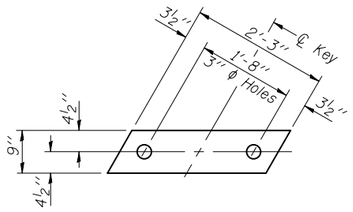
PD-2148-R 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

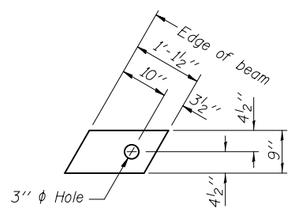
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21″ x 48″ PPC DECK BEAM
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



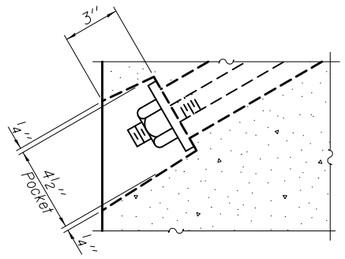
FABRIC BEARING PAD
(Interior)



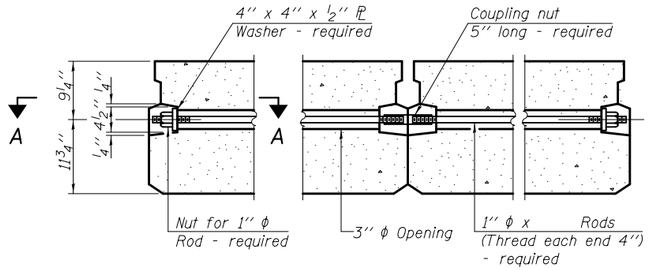
FABRIC BEARING PAD
(Exterior)

FIXED

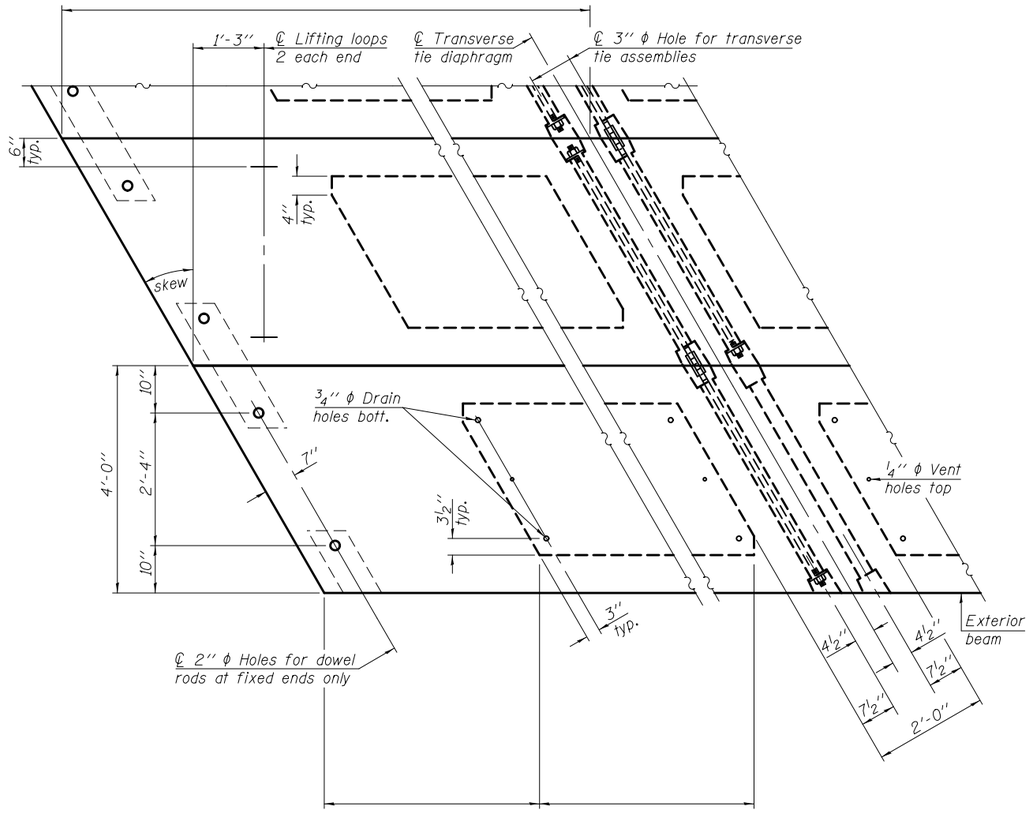
Notes:
All bearing pads shall be 1'' thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

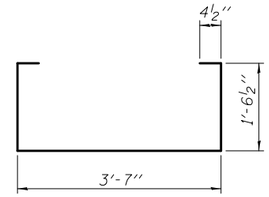


TYPICAL TRANSVERSE TIE ASSEMBLY

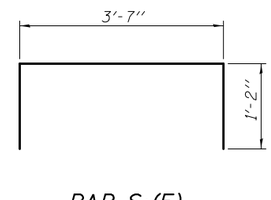


PLAN VIEW

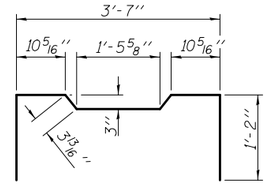
Note: Connect beams in pairs with the transverse tie configuration shown.



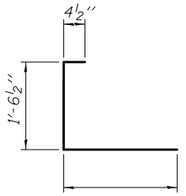
BAR S(E)



BAR S_1(E)



BAR S_2(E)



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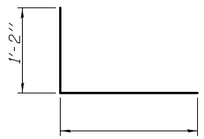
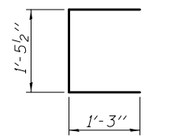
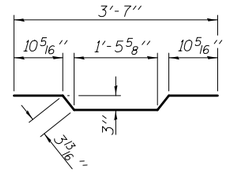


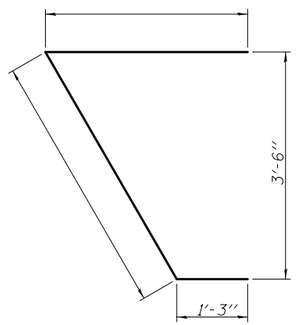
BAR S_4(E)



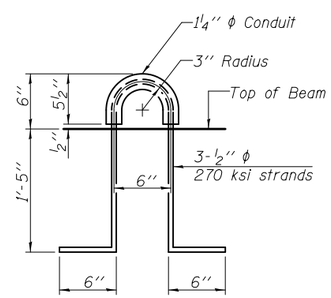
BAR U(E)



BAR A_1(E)



BAR U_1(E)



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½'' 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.

Two ⅛'' fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½'' ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

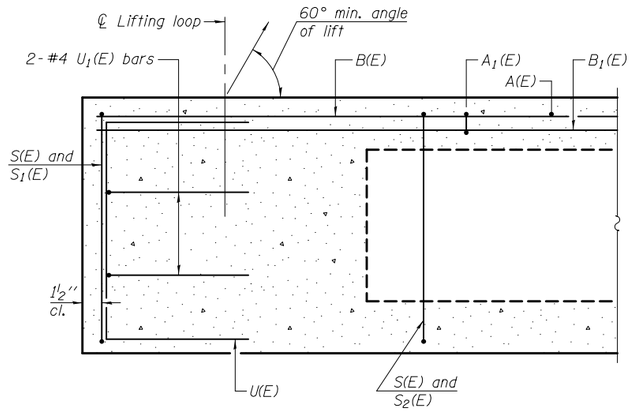
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

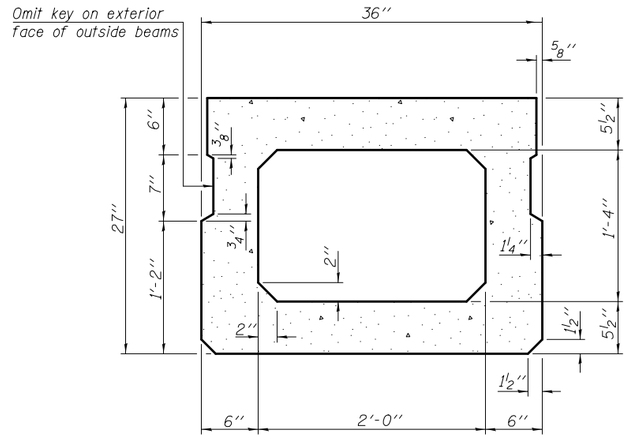
Precast Prestressed Conc. Deck Bms. (21'' depth)	Sq. Ft.	

PD-2148-RD 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	21'' x 48'' PPC DECK BEAM DETAILS STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -					
	PLOT SCALE =	DRAWN -	REVISED -					CONTRACT NO.
	PLOT DATE =	CHECKED -	REVISED -					ILLINOIS FED. AID PROJECT

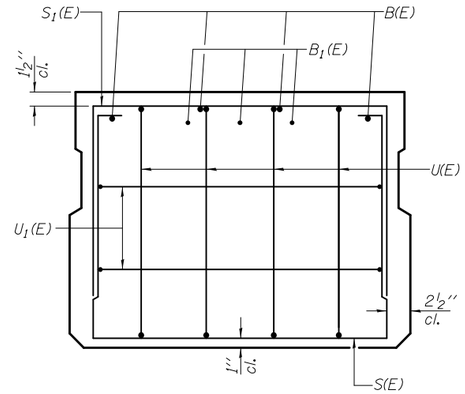


SECTION A-A

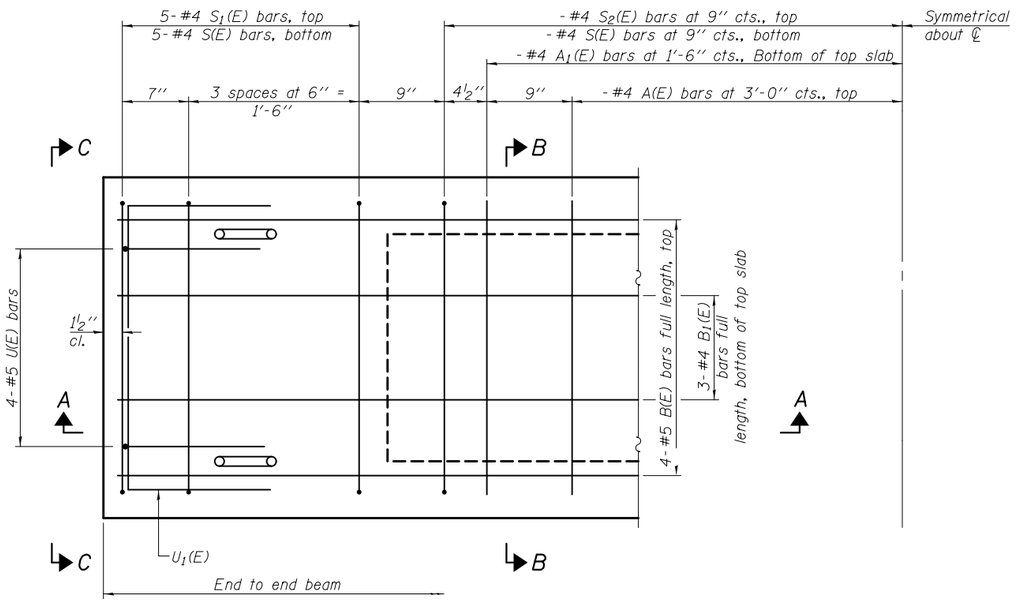


SECTION B-B

(Showing dimensions)

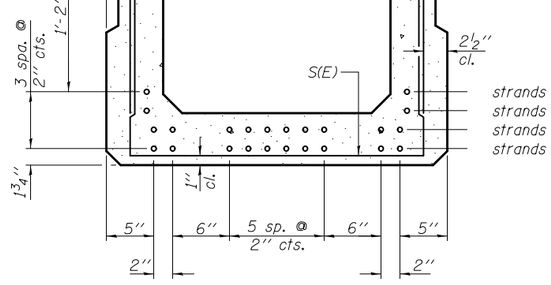


VIEW C-C



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 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.

MINIMUM BAR LAP

#4 bar = 1'-11''
#5 bar = 2'-6''

BAR LIST
ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	2'-7''	—
$A_1(E)$		#4	2'-10''	⌒
B(E)		#5		—
$B_1(E)$		#4		—
S(E)		#4	7'-5''	⊔
$S_1(E)$	10	#4	5'-11''	⊓
$S_2(E)$		#4	6'-2''	⊓
U(E)	8	#5	4'-6''	⊏
$U_1(E)$	4	#4	5'-0''	⊓

Note: See sheet of for additional details and Bill of Material.

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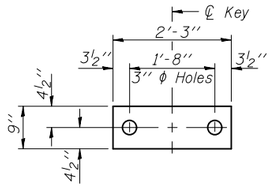
FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

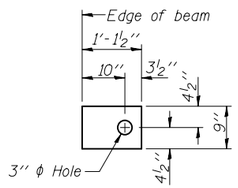
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27'' x 36'' PPC DECK BEAM
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



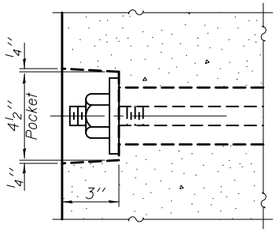
FABRIC BEARING PAD
(Interior)



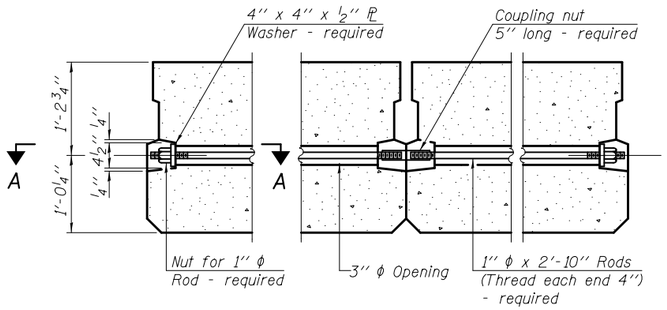
FABRIC BEARING PAD
(Exterior)

FIXED

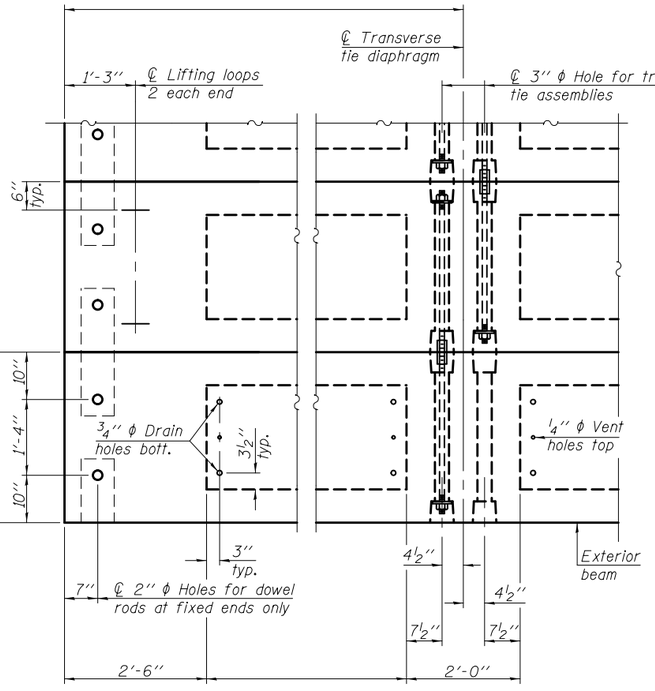
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

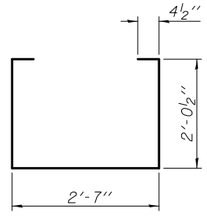


TYPICAL TRANSVERSE TIE ASSEMBLY

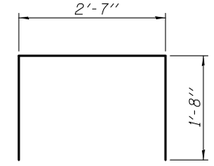


PLAN VIEW

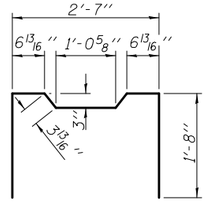
Note: Connect beams in pairs with the transverse tie configuration shown.



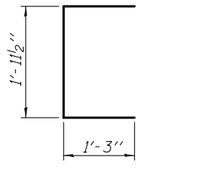
BAR S(E)



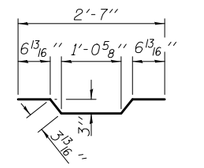
BAR S_1(E)



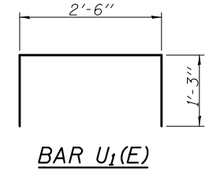
BAR S_2(E)



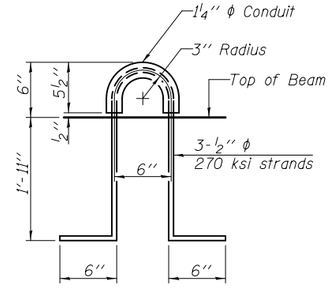
BAR U(E)



BAR A_1(E)



BAR U_1(E)



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	

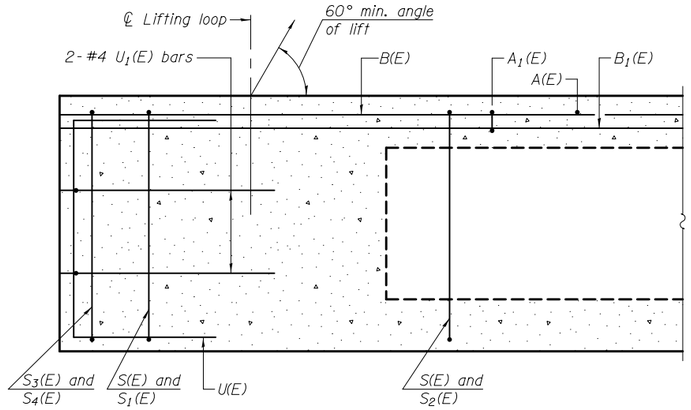
PD-2736-0D 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

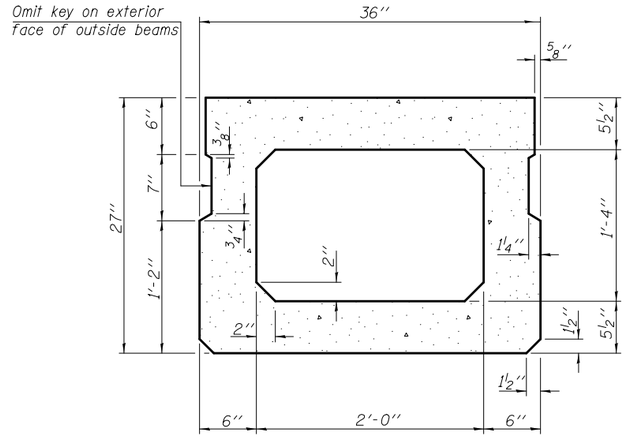
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO.

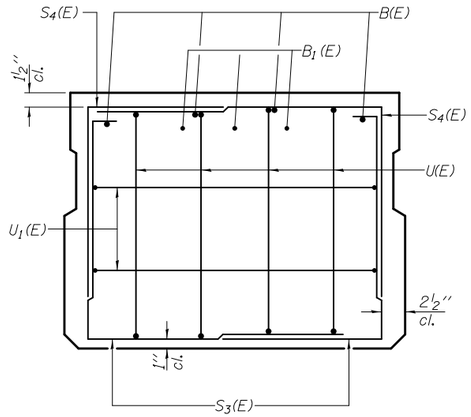
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



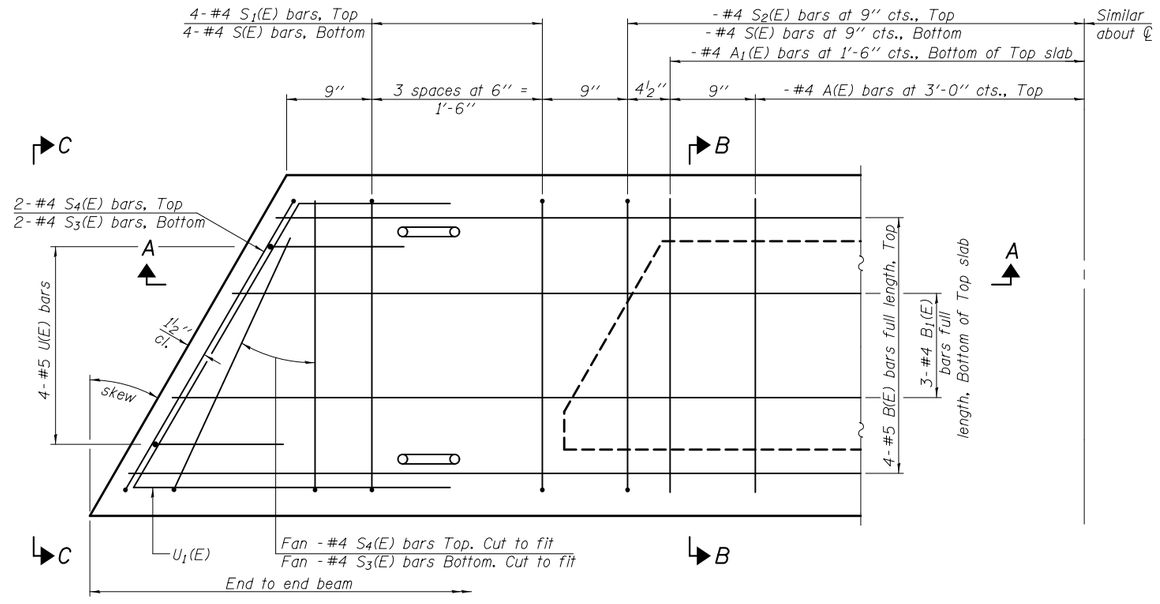
SECTION A-A



SECTION B-B
(Showing dimensions)

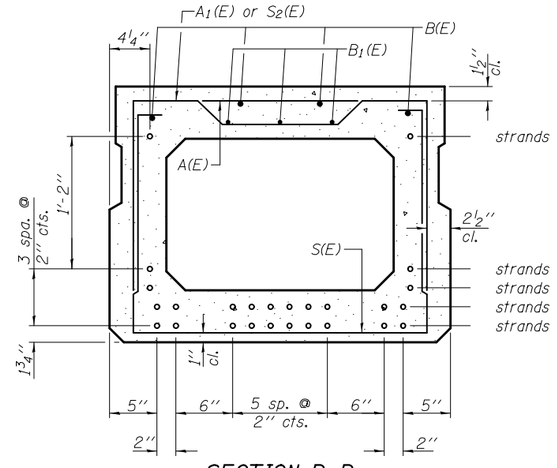


VIEW C-C



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 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.

MINIMUM BAR LAP
#4 bar = 1′-11″
#5 bar = 2′-6″

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	2′-7″	—
$A_1(E)$		#4	2′-10″	~
B(E)		#5		—
$B_1(E)$		#4		—
S(E)		#4	7′-5″	⊏
$S_1(E)$	8	#4	5′-11″	⊐
$S_2(E)$		#4	6′-2″	⊐
$S_3(E)$		#4		⊔
$S_4(E)$		#4		⊔
U(E)	8	#5	4′-6″	⊏
$U_1(E)$	4	#4		⊏

Note: See sheet of for additional details and Bill of Material.

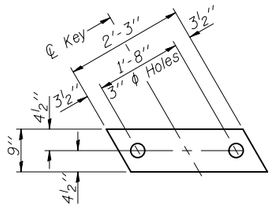
PD-2736-L 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

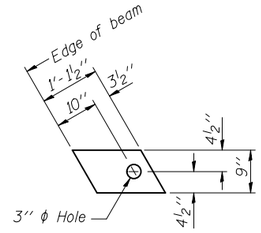
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27″ x 36″ PPC DECK BEAM
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



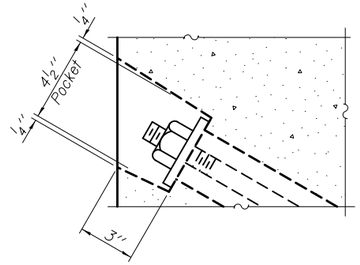
FABRIC BEARING PAD
(Interior)



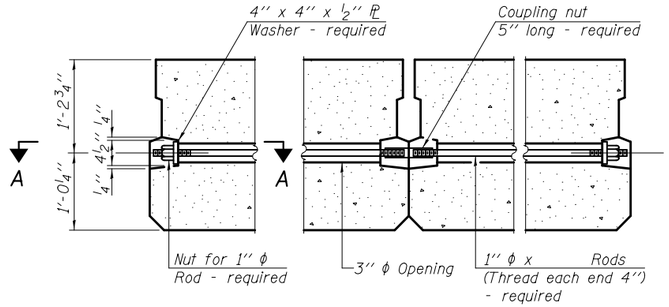
FABRIC BEARING PAD
(Exterior)

FIXED

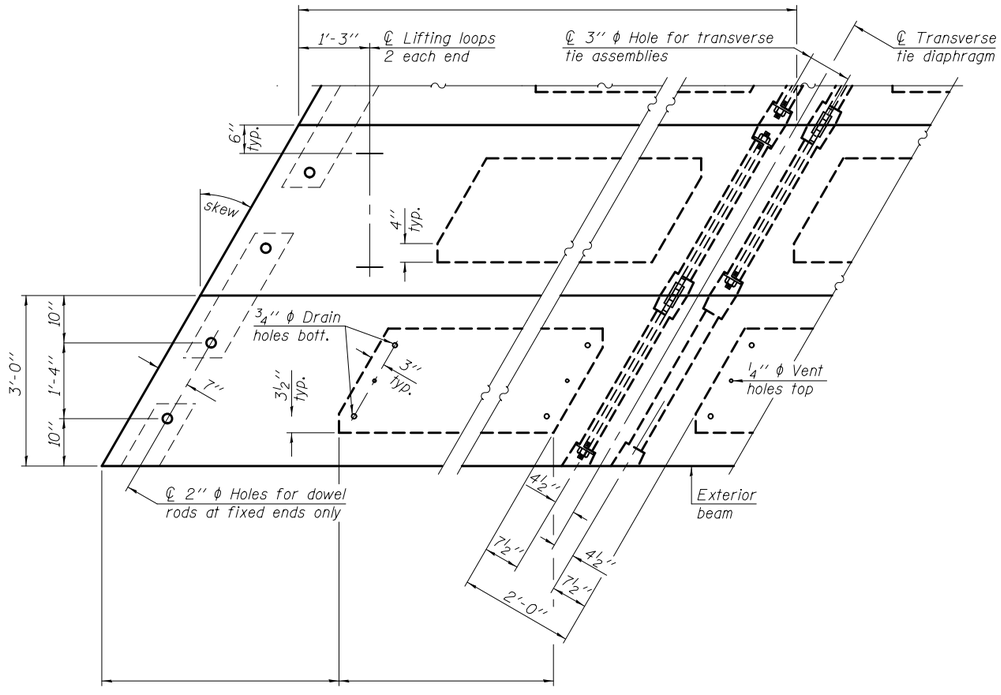
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

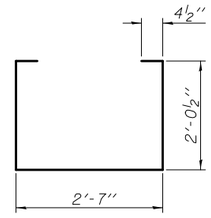


TYPICAL TRANSVERSE TIE ASSEMBLY

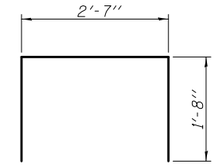


PLAN VIEW

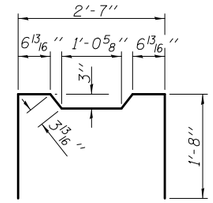
Note: Connect beams in pairs with the transverse tie configuration shown.



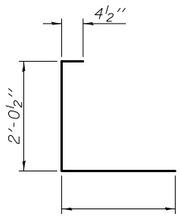
BAR S(E)



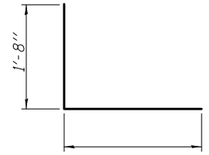
BAR S1(E)



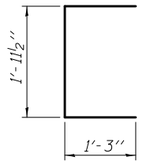
BAR S2(E)



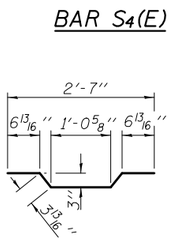
BAR S3(E)



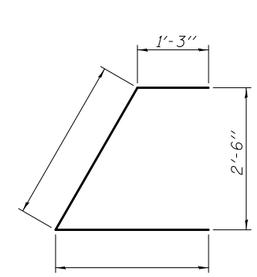
BAR S4(E)



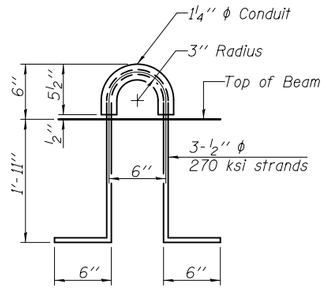
BAR U(E)



BAR A1(E)



BAR U1(E)



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	

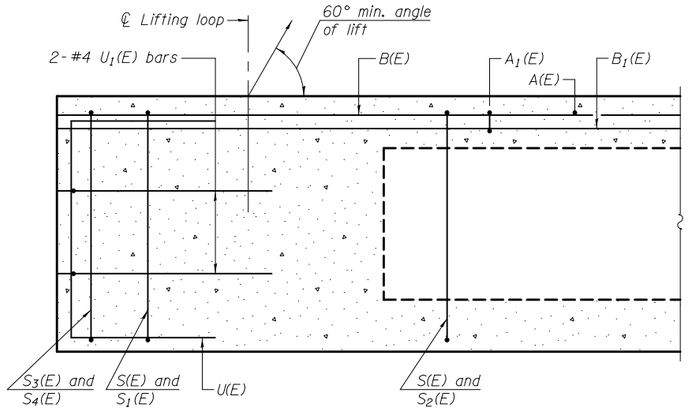
PD-2736-LD 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

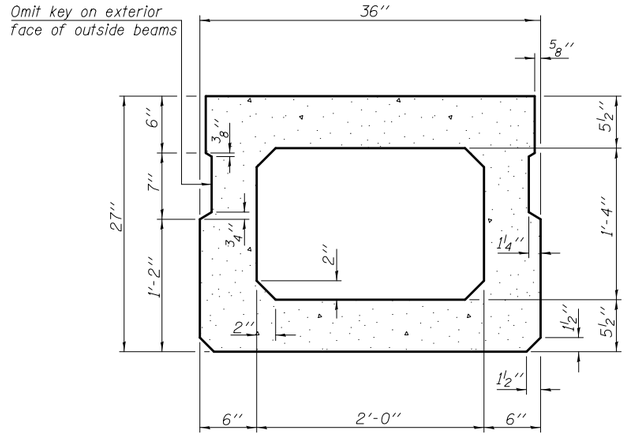
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO.

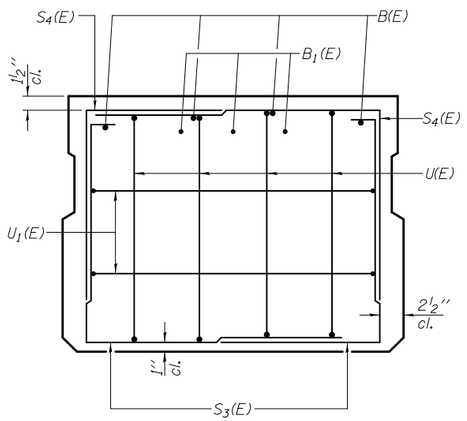
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



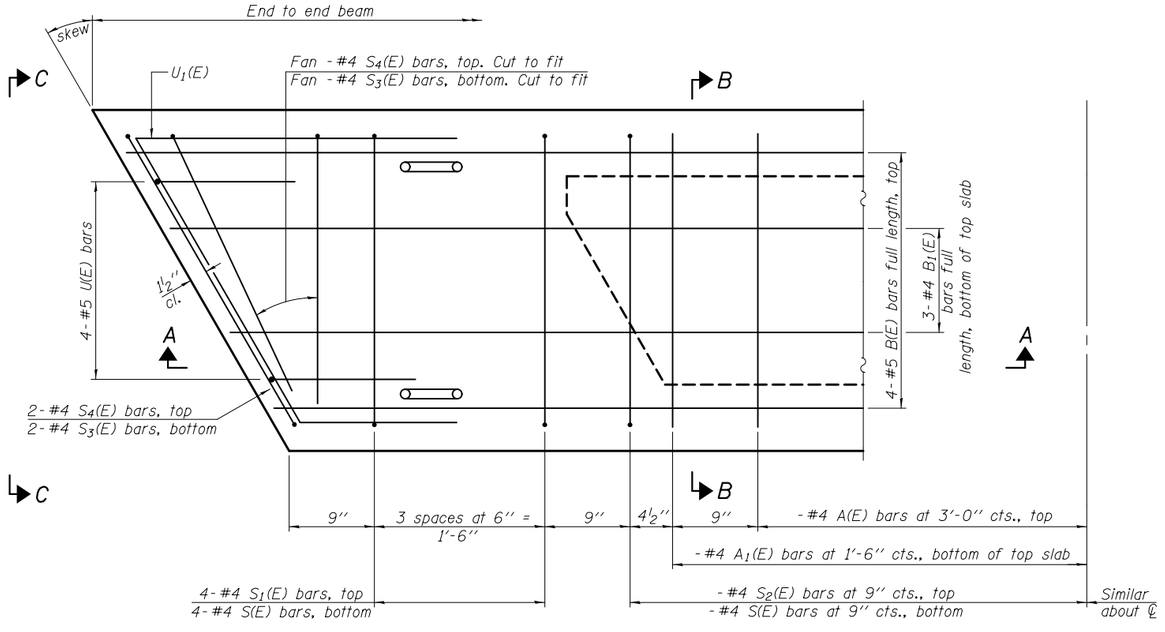
SECTION A-A



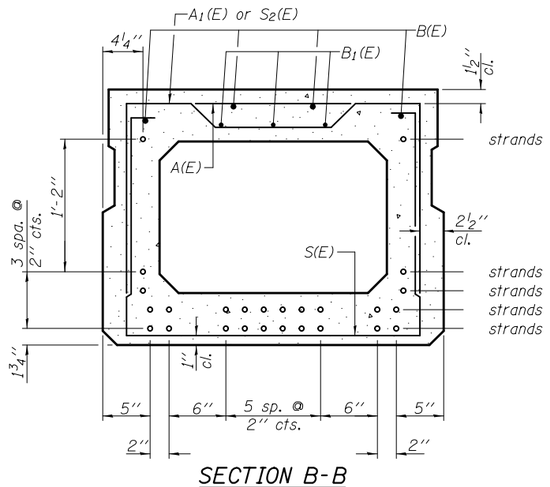
SECTION B-B
(Showing dimensions)



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)		#4	2′-7″	—
$A_1(E)$		#4	2′-10″	⌇
B(E)		#5		—
$B_1(E)$		#4		—
S(E)		#4	7′-5″	⊏
$S_1(E)$	8	#4	5′-11″	⊐
$S_2(E)$		#4	6′-2″	⊐
$S_3(E)$		#4		⌊
$S_4(E)$		#4		⌊
U(E)	8	#5	4′-6″	⊏
$U_1(E)$	4	#4		∠

Note: See sheet of for additional details and Bill of Material.

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.

MINIMUM BAR LAP
#4 bar = 1′-11″
#5 bar = 2′-6″

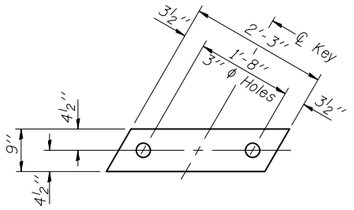
PD-2736-R 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

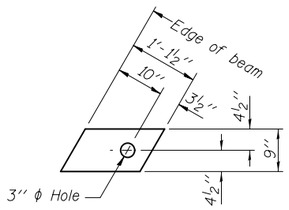
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27″ x 36″ PPC DECK BEAM
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



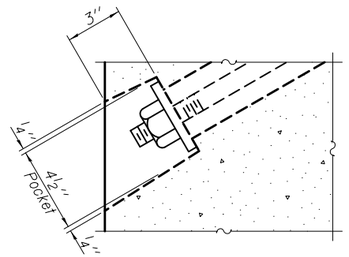
FABRIC BEARING PAD
(Interior)



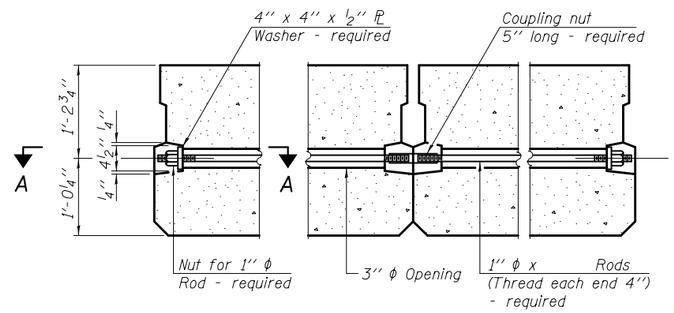
FABRIC BEARING PAD
(Exterior)

FIXED

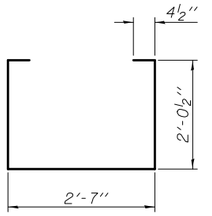
Notes:
All bearing pads shall be 1'' thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



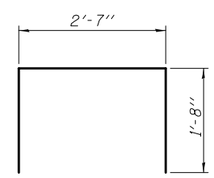
SECTION A-A



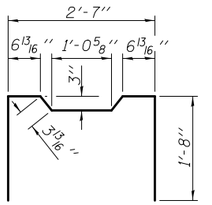
TYPICAL TRANSVERSE TIE ASSEMBLY



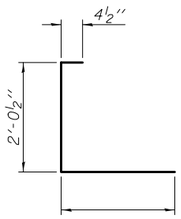
BAR S(E)



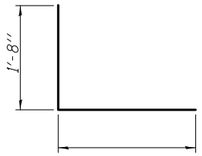
BAR S1(E)



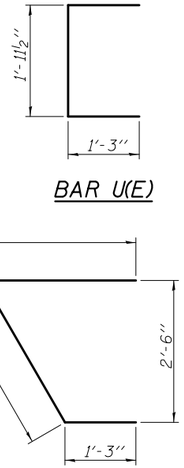
BAR S2(E)



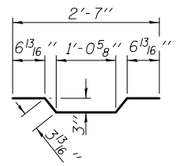
BAR S3(E)



BAR S4(E)

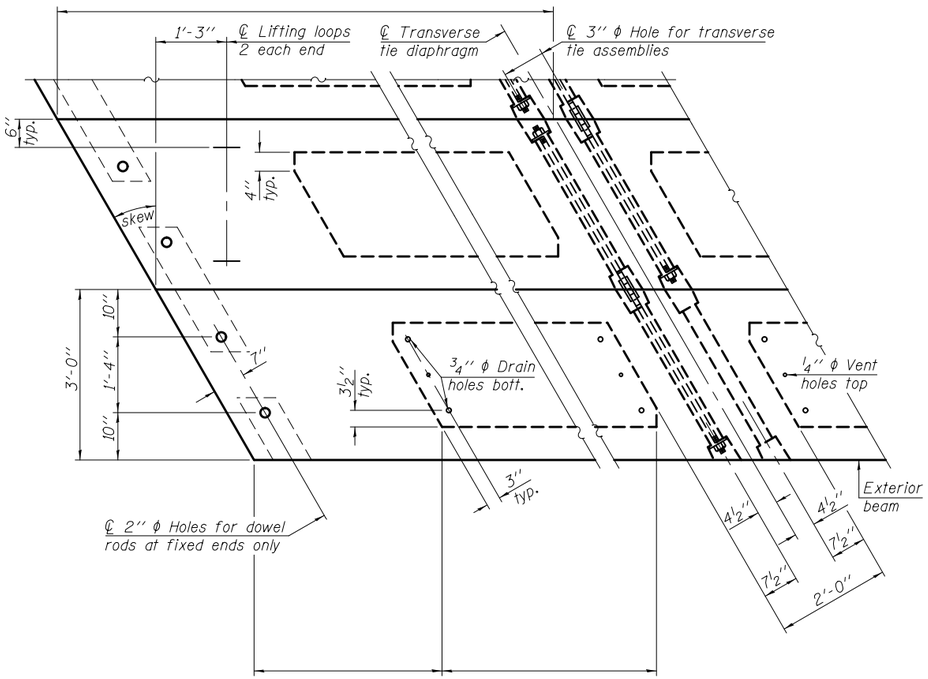


BAR U(E)



BAR A1(E)

BAR U1(E)



PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½'' 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.

Two ⅛'' fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

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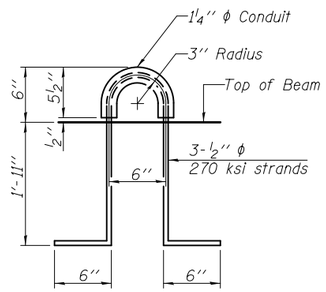
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27'' depth)	Sq. Ft.	

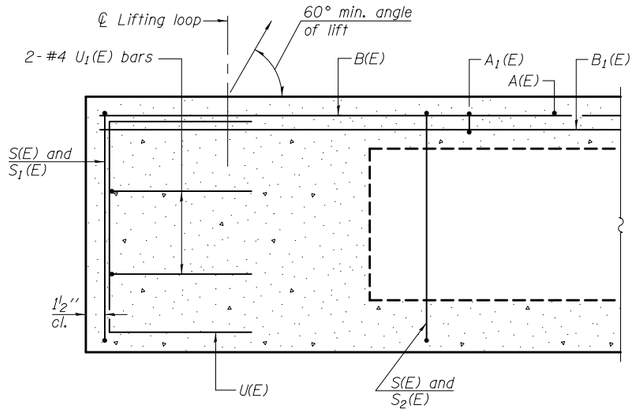
PD-2736-RD 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

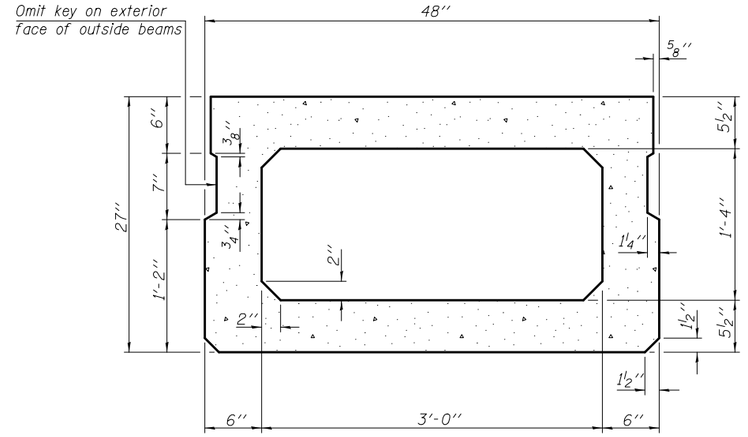
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27'' x 36'' PPC DECK BEAM DETAILS
STRUCTURE NO.

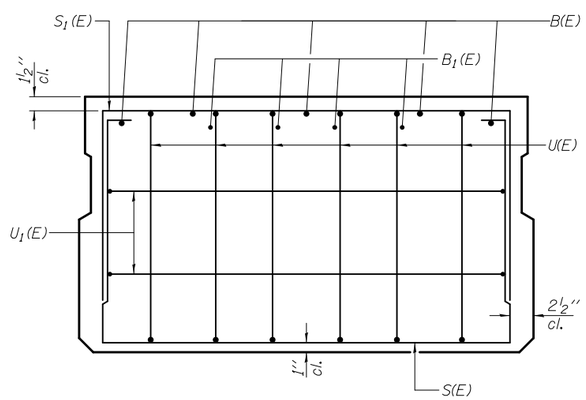
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



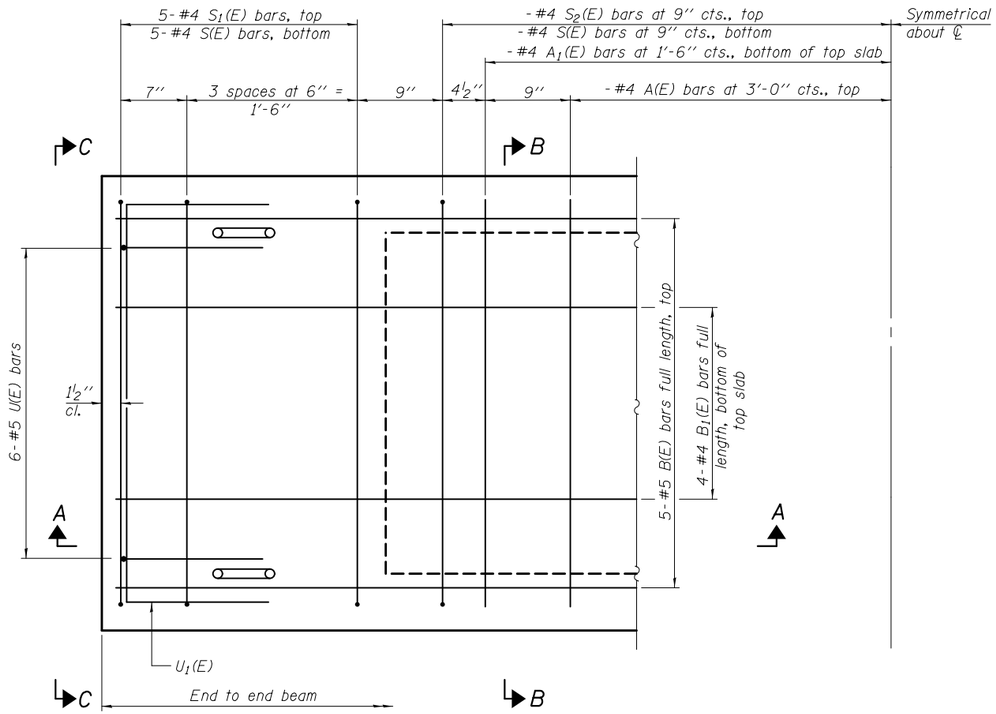
SECTION A-A



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)		#4	3'-7"	—
$A_1(E)$		#4	3'-10"	⌒
B(E)		#5		—
$B_1(E)$		#4		—
S(E)		#4	8'-5"	⊔
$S_1(E)$	10	#4	6'-11"	⊓
$S_2(E)$		#4	7'-2"	⊓
U(E)	12	#5	4'-6"	⊏
$U_1(E)$	4	#4	6'-0"	⊓

Note: See sheet of for additional details and Bill of Material.

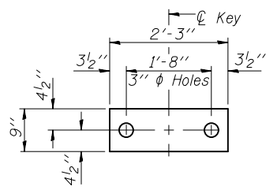
Note: Spacing of S(E) and $S_2(E)$ bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

MINIMUM BAR LAP
#4 bar = 1'-11"
#5 bar = 2'-6"

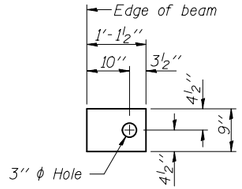
PD-2748-0 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	27" x 48" PPC DECK BEAM STRUCTURE NO.
		CHECKED -	REVISED -		
	PLOT SCALE =	DRAWN -	REVISED -		
	PLOT DATE =	CHECKED -	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				



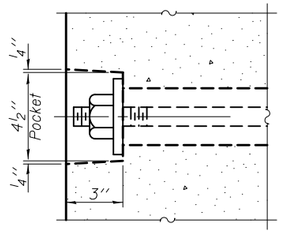
FABRIC BEARING PAD
(Interior)



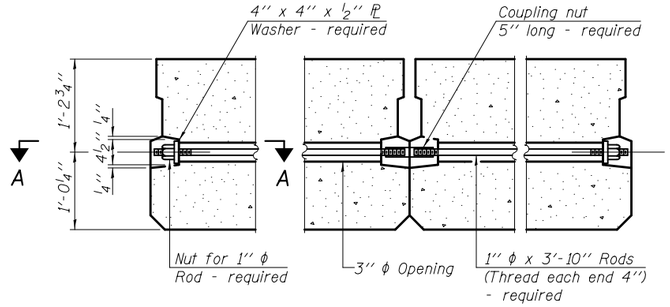
FABRIC BEARING PAD
(Exterior)

FIXED

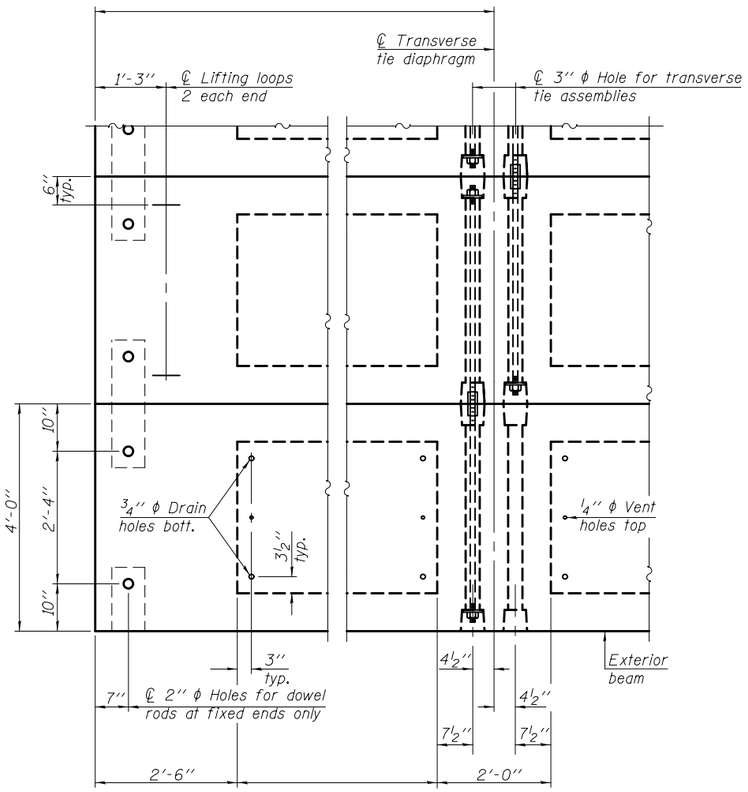
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

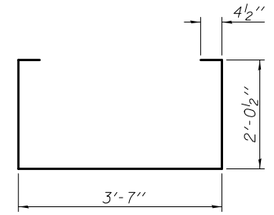


TYPICAL TRANSVERSE TIE ASSEMBLY

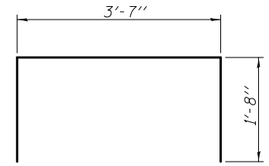


PLAN VIEW

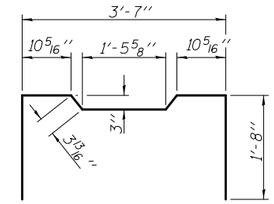
Note: Connect beams in pairs with the transverse tie configuration shown.



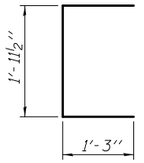
BAR S(E)



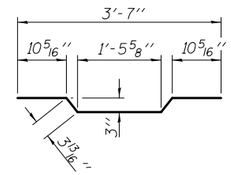
BAR S_1(E)



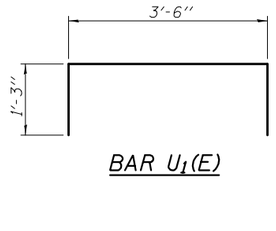
BAR S_2(E)



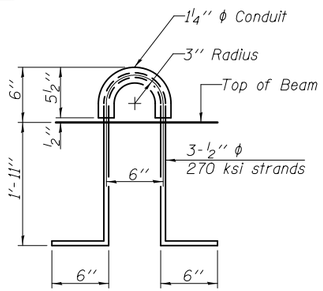
BAR U(E)



BAR A_1(E)



BAR U_1(E)



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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.

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Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	

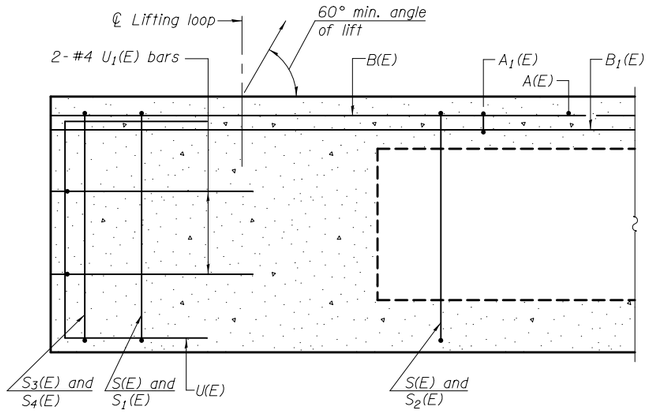
PD-2748-0D 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

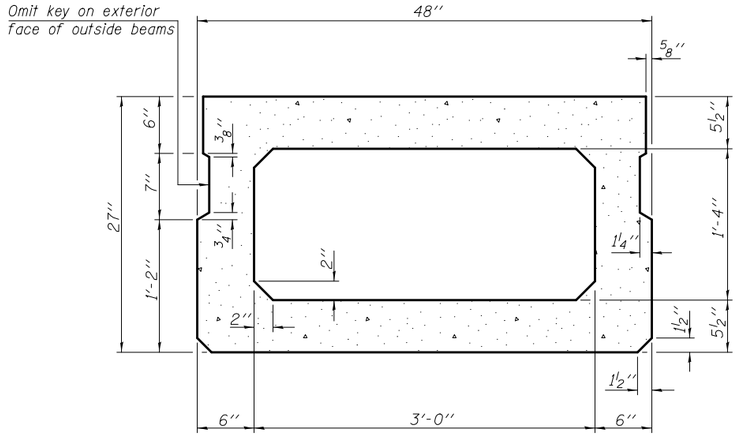
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO.

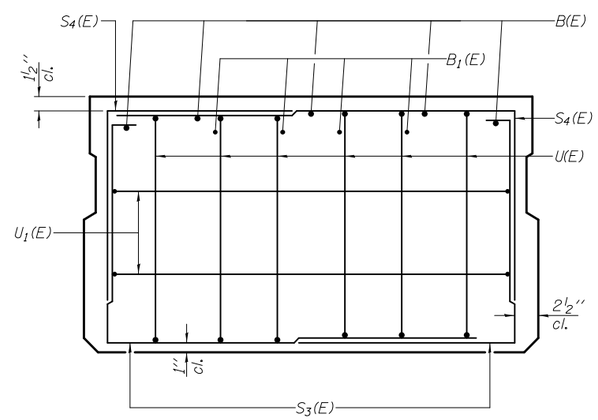
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



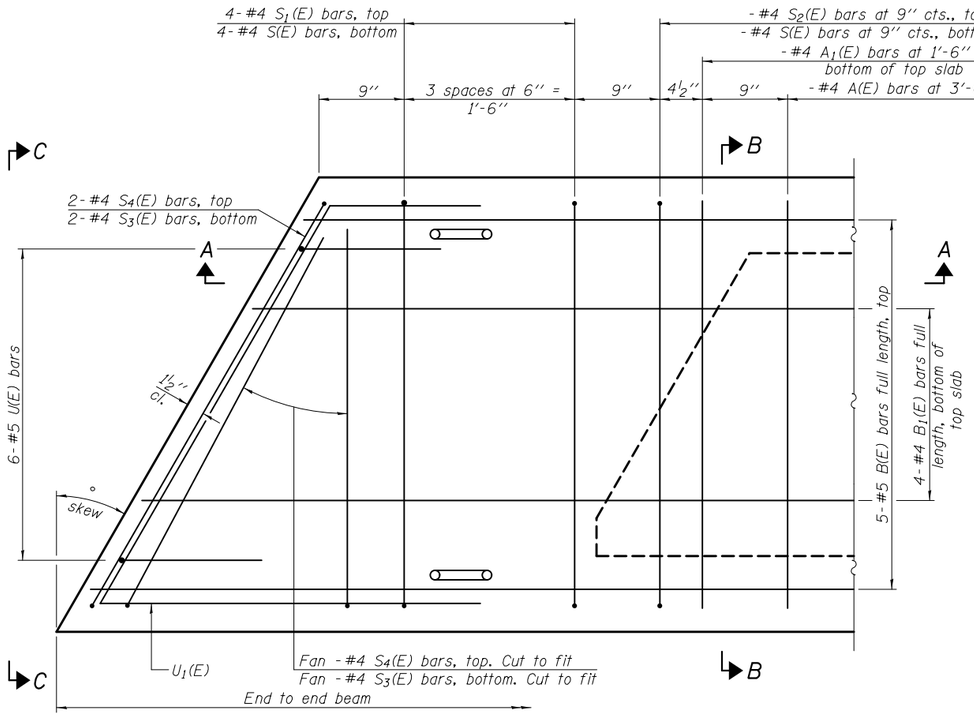
SECTION A-A



SECTION B-B
(Showing dimensions)

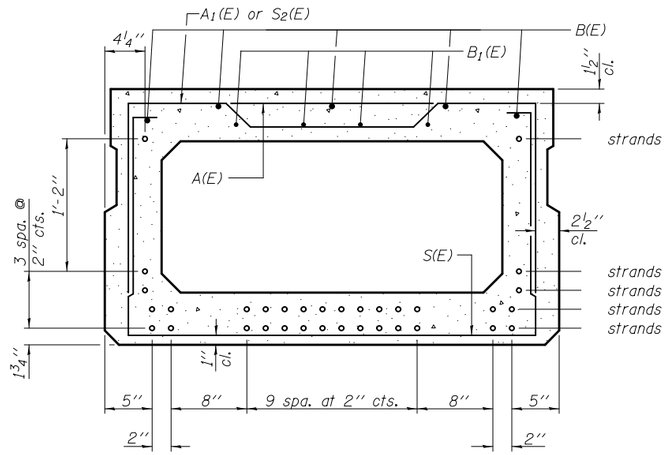


VIEW C-C



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 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.

MINIMUM BAR LAP
#4 bar = 1′-11″
#5 bar = 2′-6″

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	3′-7″	—
$A_1(E)$		#4	3′-10″	~
B(E)		#5		—
$B_1(E)$		#4		—
S(E)		#4	8′-5″	⊔
$S_1(E)$	8	#4	6′-11″	⊓
$S_2(E)$		#4	7′-2″	⊓
$S_3(E)$		#4		⊔
$S_4(E)$		#4		⊔
U(E)	12	#5	4′-6″	⊏
$U_1(E)$	4	#4		⊏

Note: See sheet of for additional details and Bill of Material.

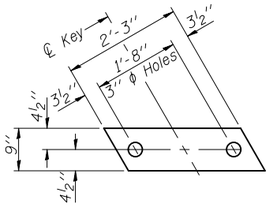
PD-2748-L 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

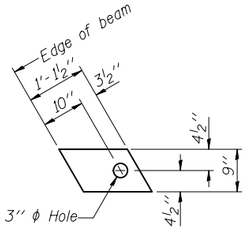
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27″ x 48″ PPC DECK BEAM
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



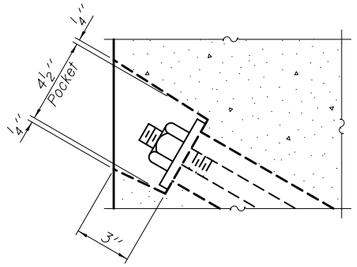
FABRIC BEARING PAD
(Interior)



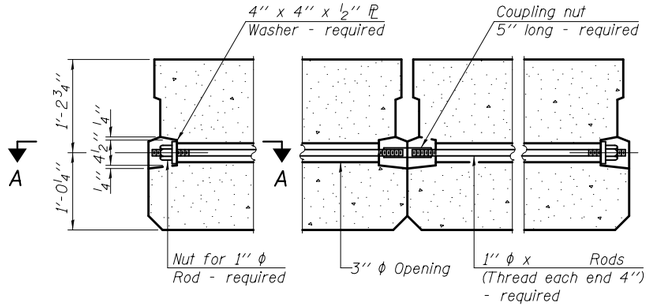
FABRIC BEARING PAD
(Exterior)

FIXED

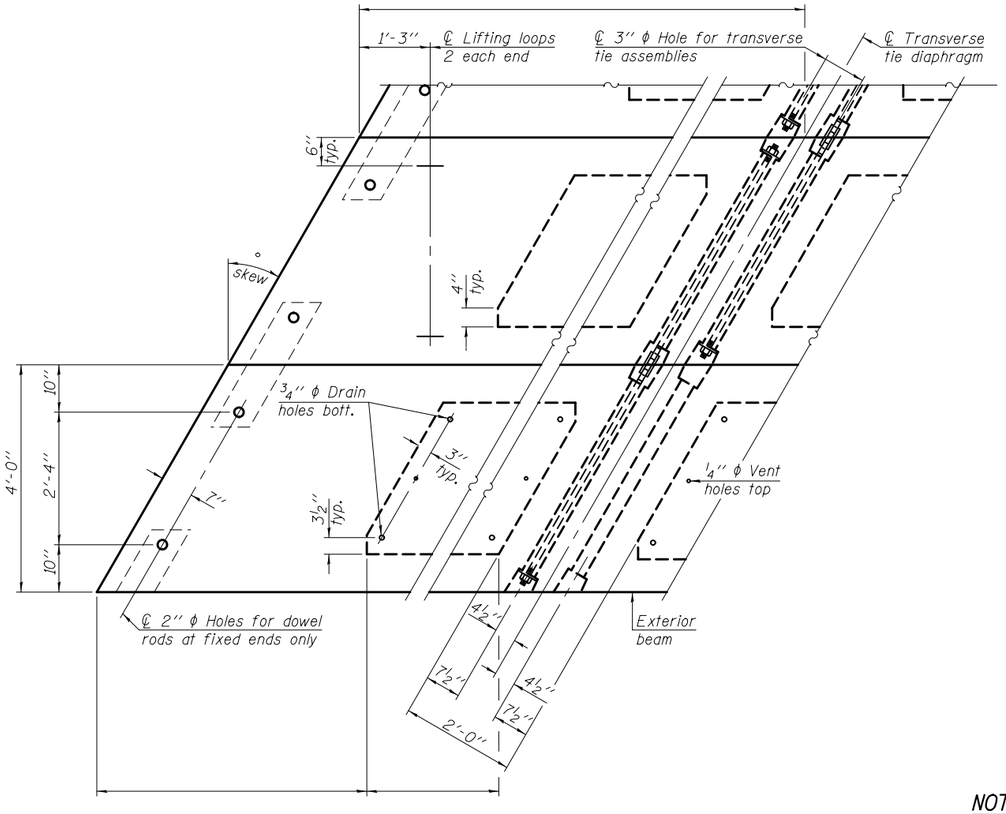
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY



PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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.

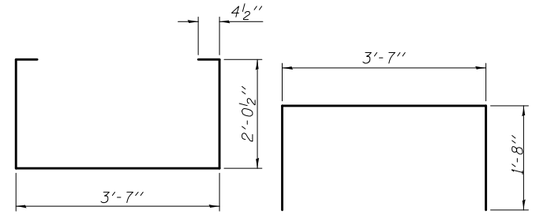
Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

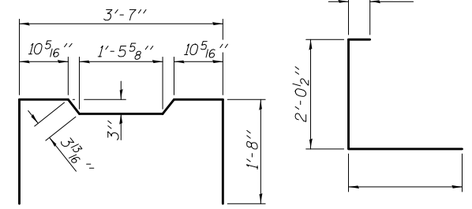
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



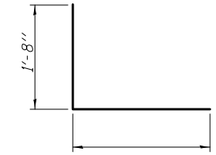
BAR S(E)

BAR S_1(E)

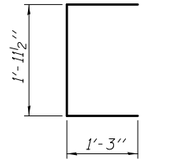


BAR S_2(E)

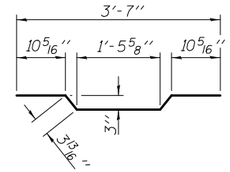
BAR S_3(E)



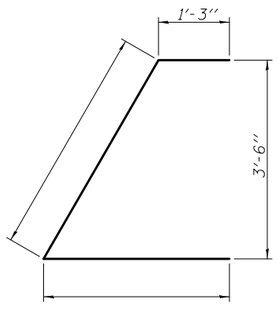
BAR S_4(E)



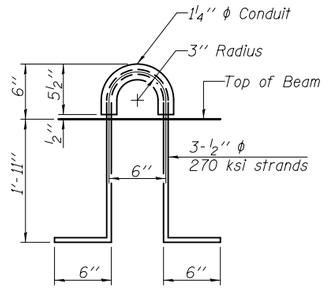
BAR U(E)



BAR A_1(E)



BAR U_1(E)



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	

PD-2748-LD 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

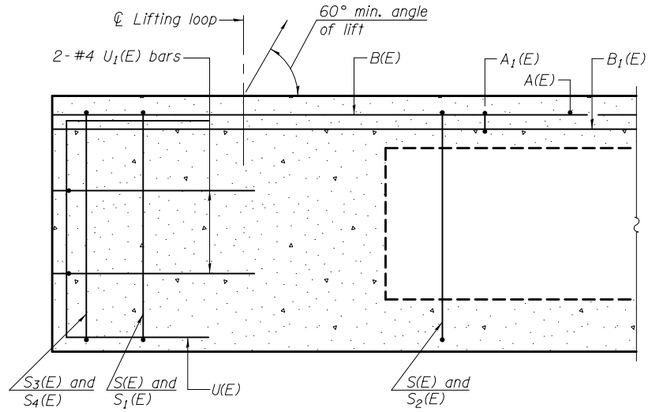
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO.

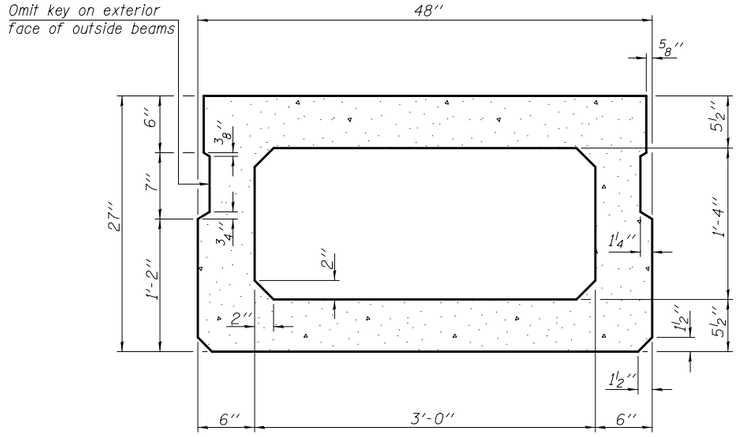
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

CONTRACT NO.

ILLINOIS FED. AID PROJECT

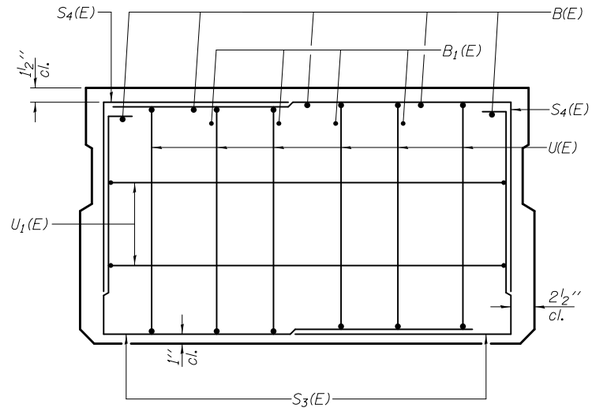


SECTION A-A

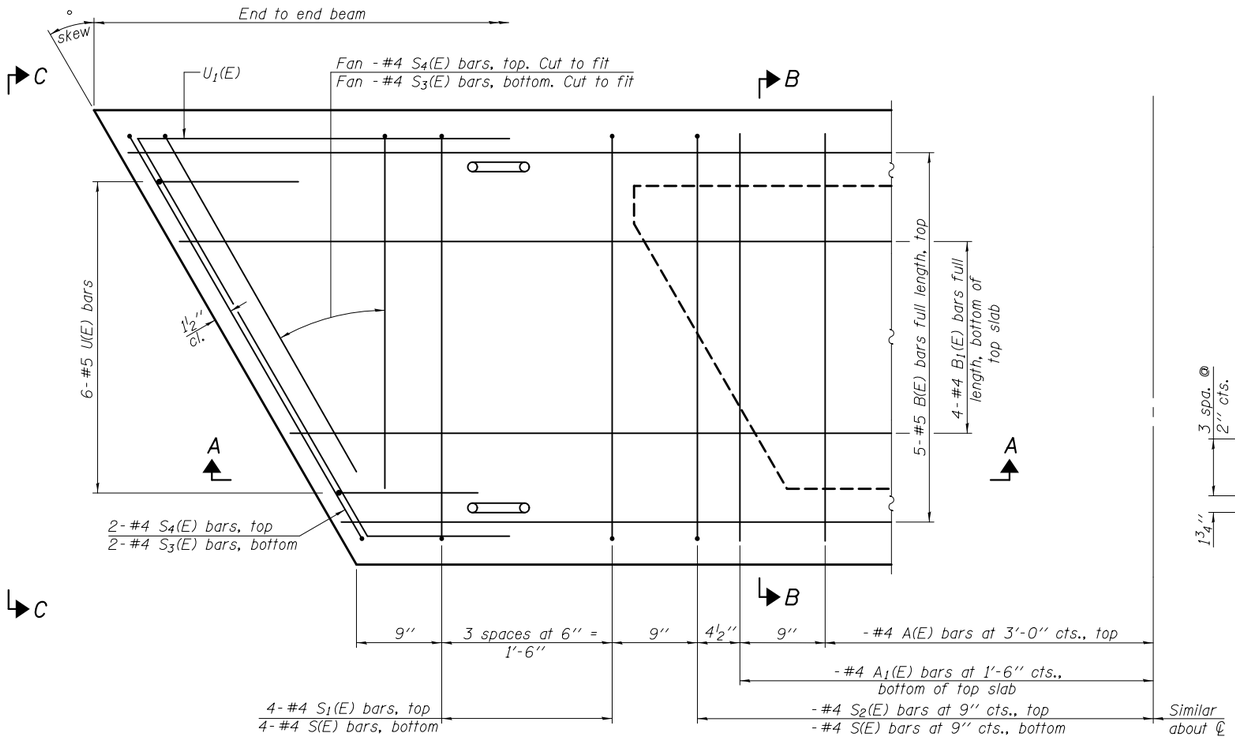


SECTION B-B

(Showing dimensions)

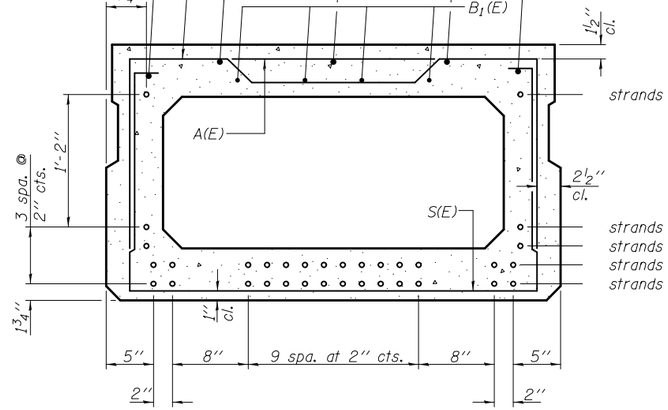


VIEW C-C



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 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.

MINIMUM BAR LAP

#4 bar = 1′-11″
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BAR LIST
ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	3′-7″	—
$A_1(E)$		#4	3′-10″	⌇
B(E)		#5		—
$B_1(E)$		#4		—
S(E)		#4	8′-5″	⊏⊐
$S_1(E)$	8	#4	6′-11″	⊐⊐
$S_2(E)$		#4	7′-2″	⊐⊐
$S_3(E)$		#4		⊔
$S_4(E)$		#4		⊔
U(E)	12	#5	4′-6″	⊏⊐
$U_1(E)$	4	#4		⊏⊐

Note: See sheet of for additional details and Bill of Material.

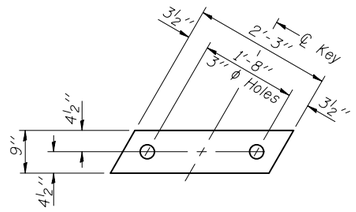
PD-2748-R 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

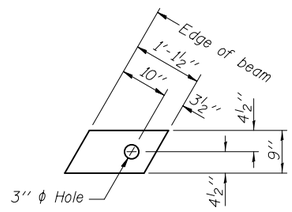
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27″ x 48″ PPC DECK BEAM
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



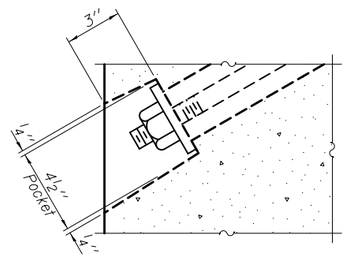
FABRIC BEARING PAD
(Interior)



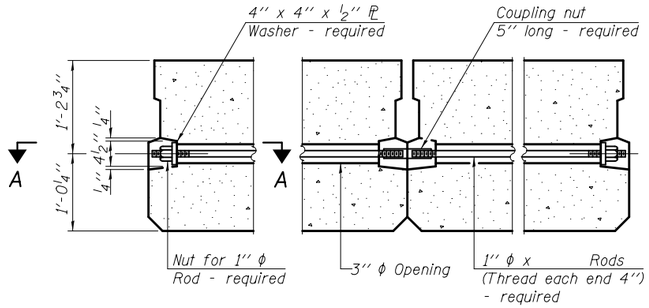
FABRIC BEARING PAD
(Exterior)

FIXED

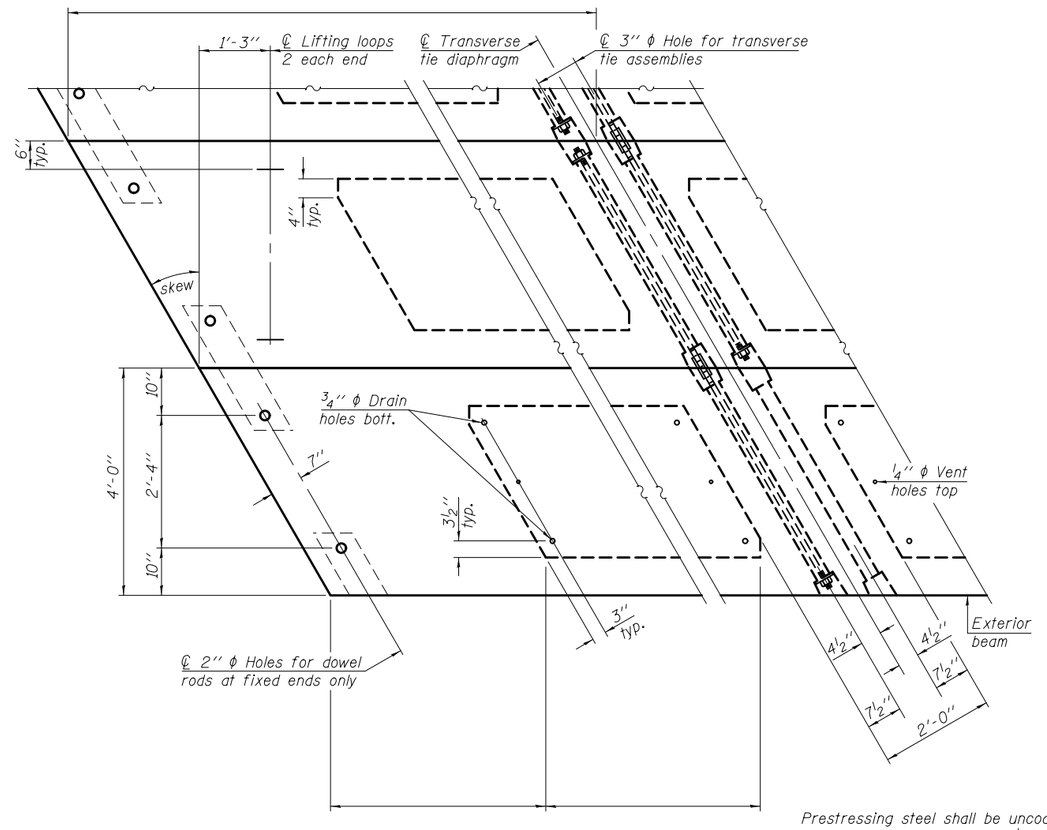
Notes:
All bearing pads shall be 1'' thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY



PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½'' 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.

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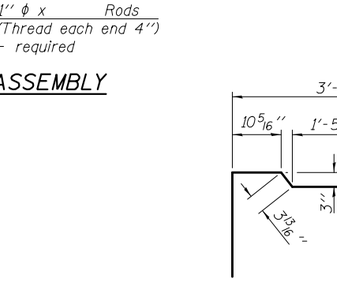
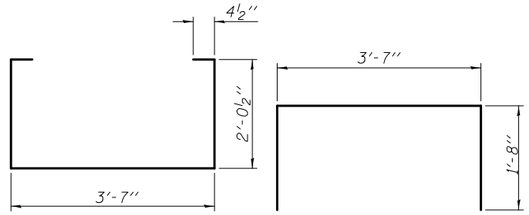
Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

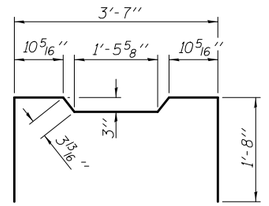


LIFTING LOOP DETAIL

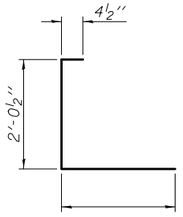


BAR S(E)

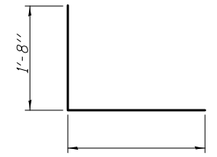
BAR S1(E)



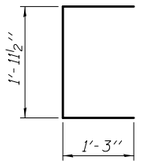
BAR S2(E)



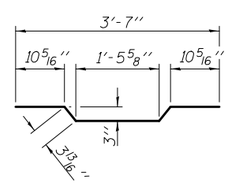
BAR S3(E)



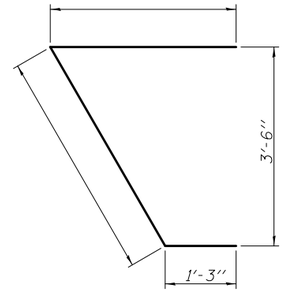
BAR S4(E)



BAR U(E)



BAR A1(E)



BAR U1(E)

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27'' depth)	Sq. Ft.	

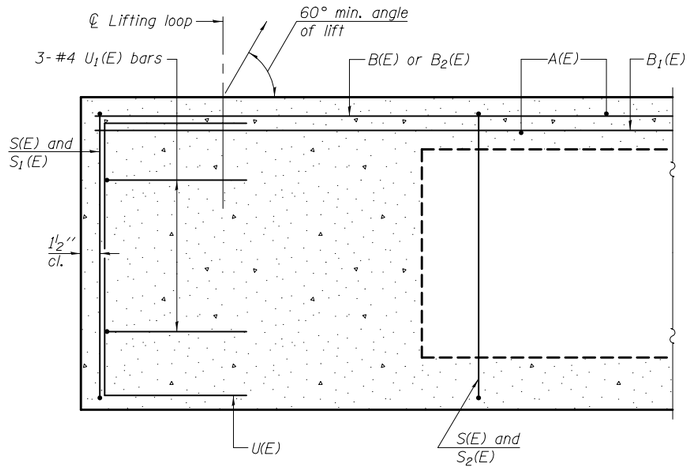
PD-2748-RD 06-01-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

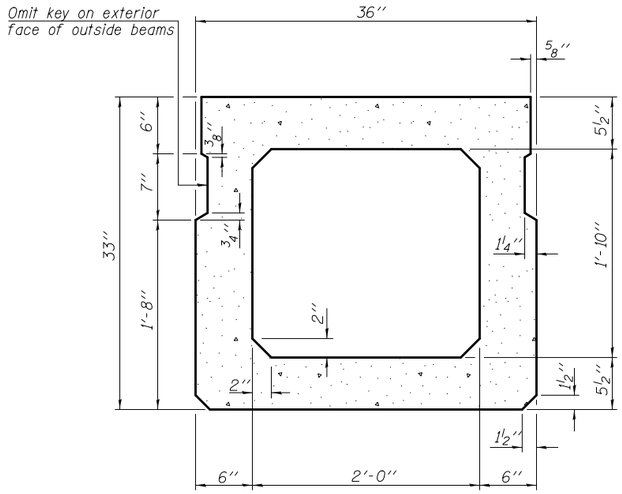
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27'' x 48'' PPC DECK BEAM DETAILS
STRUCTURE NO.

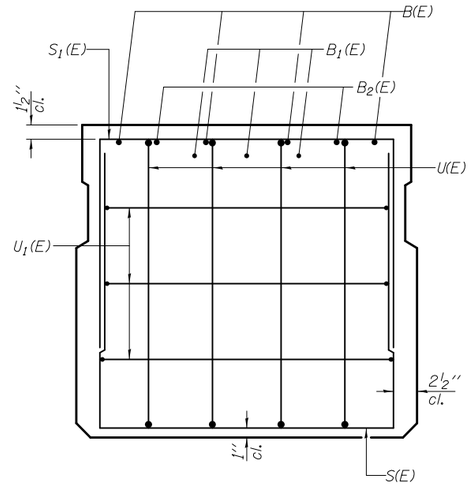
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



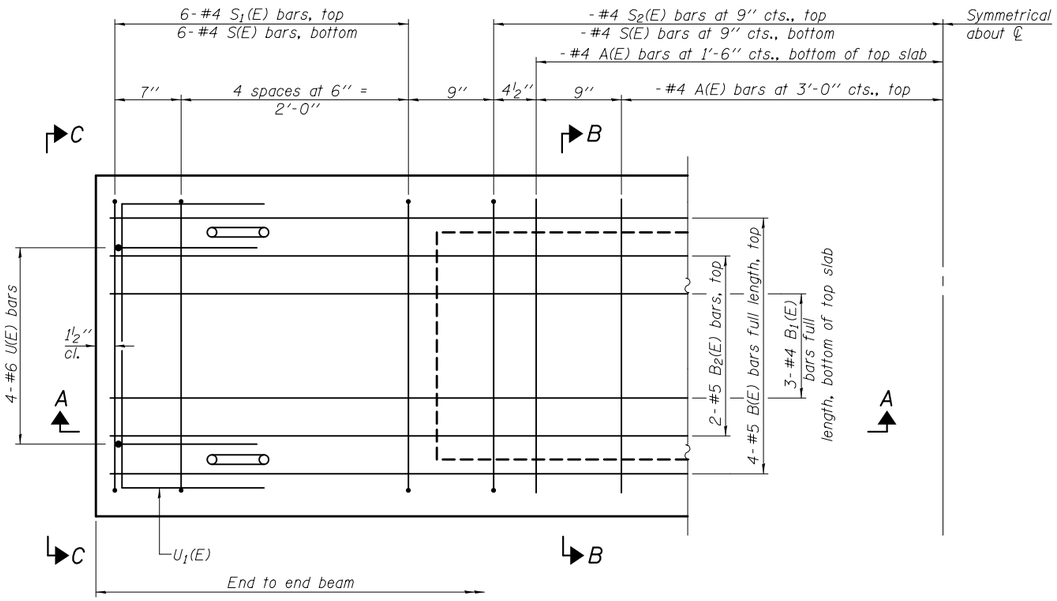
SECTION A-A



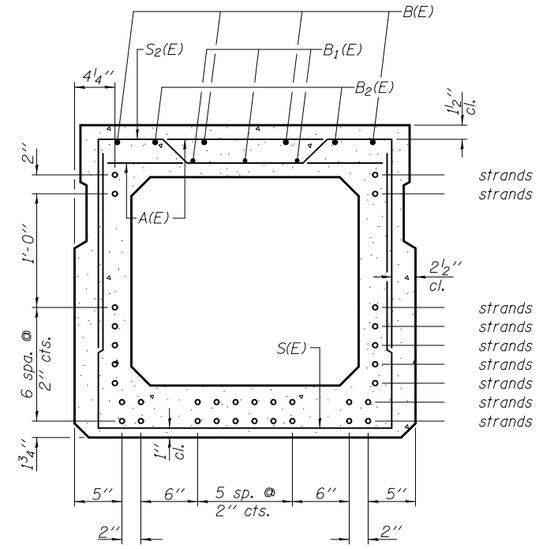
SECTION B-B
(Showing dimensions)



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.

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.

MINIMUM BAR LAP
#4 bar = 1'-11''
#5 bar = 2'-6''

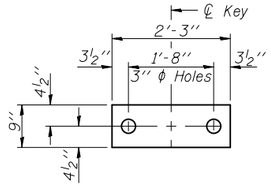
BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	2'-7''	—
B(E)		#5		—
$B_1(E)$		#4		—
$B_2(E)$		#5	10'-0''	—
S(E)		#4	7'-8''	⊔
$S_1(E)$	12	#4	6'-5''	⊓
$S_2(E)$		#4	6'-8''	⊓
U(E)	8	#6	5'-0''	⊏
$U_1(E)$	6	#4	5'-0''	⊓

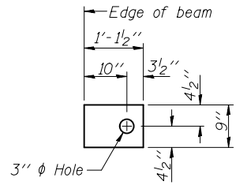
Note: See sheet of for additional details and Bill of Material.

PD-3336-0 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	33'' x 36'' PPC DECK BEAM STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -				
	PLOT SCALE =	DRAWN -	REVISED -				CONTRACT NO.
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT



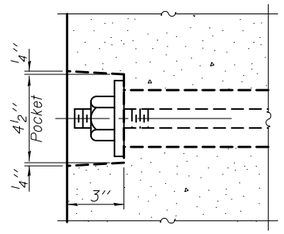
FABRIC BEARING PAD
(Interior)



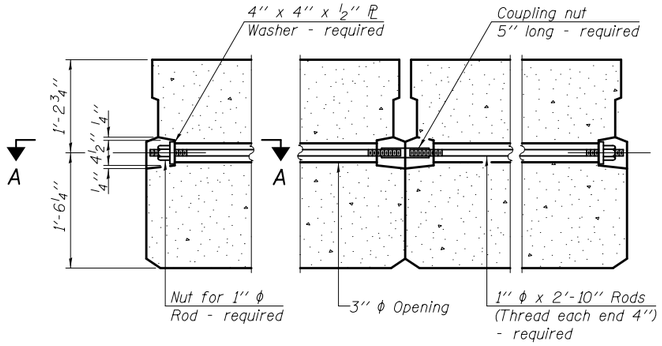
FABRIC BEARING PAD
(Exterior)

FIXED

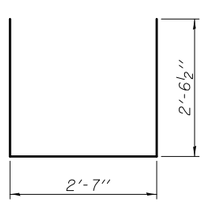
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



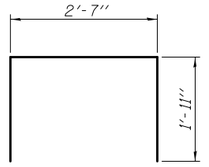
SECTION A-A



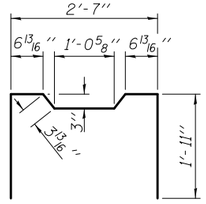
TYPICAL TRANSVERSE TIE ASSEMBLY



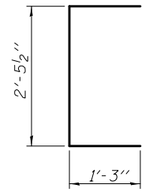
BAR S(E)



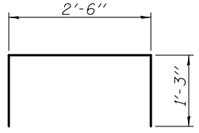
BAR S_1(E)



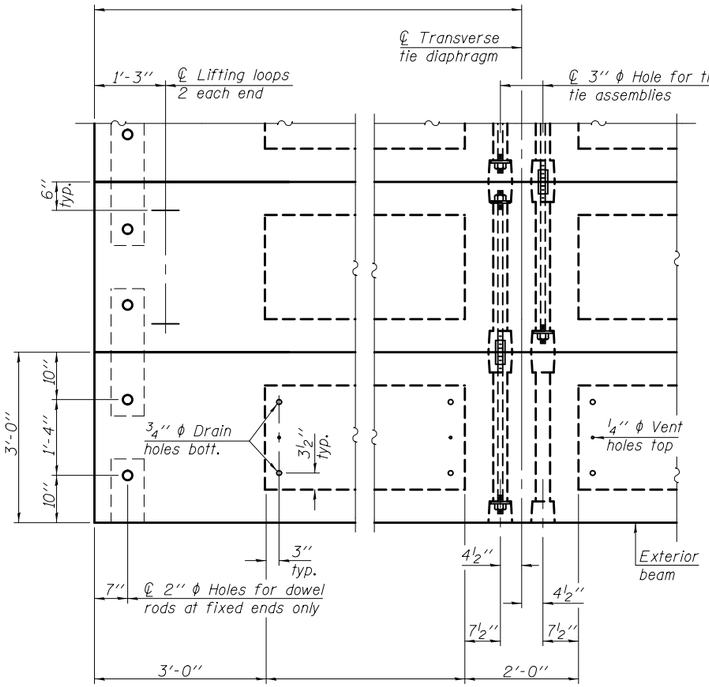
BAR S_2(E)



BAR U(E)

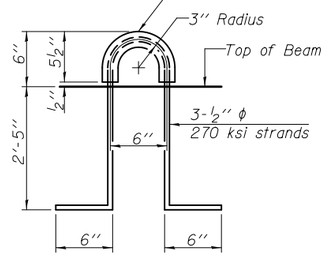


BAR U_1(E)



PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

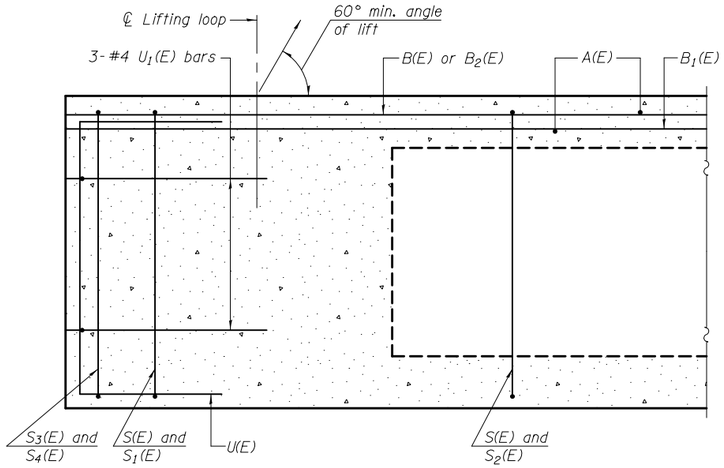
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

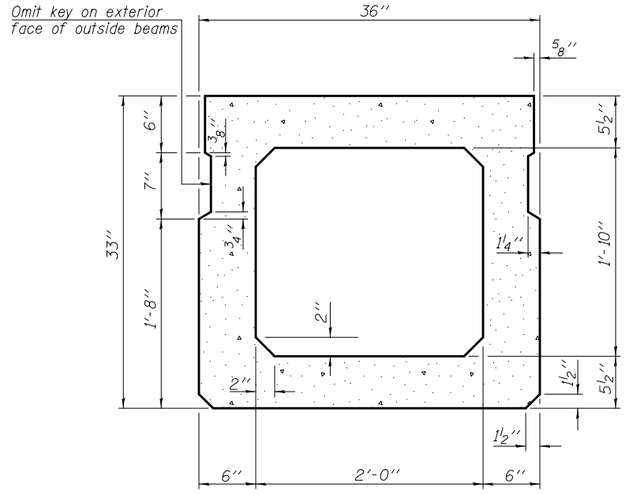
Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	

PD-3336-0D 1-28-16

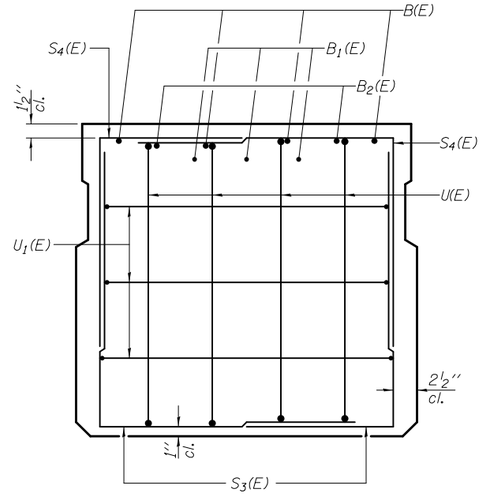
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	33" x 36" PPC DECK BEAM DETAILS STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -				CONTRACT NO.
	PLOT SCALE =	DRAWN -	REVISED -				ILLINOIS FED. AID PROJECT
	PLOT DATE =	CHECKED -	REVISED -				



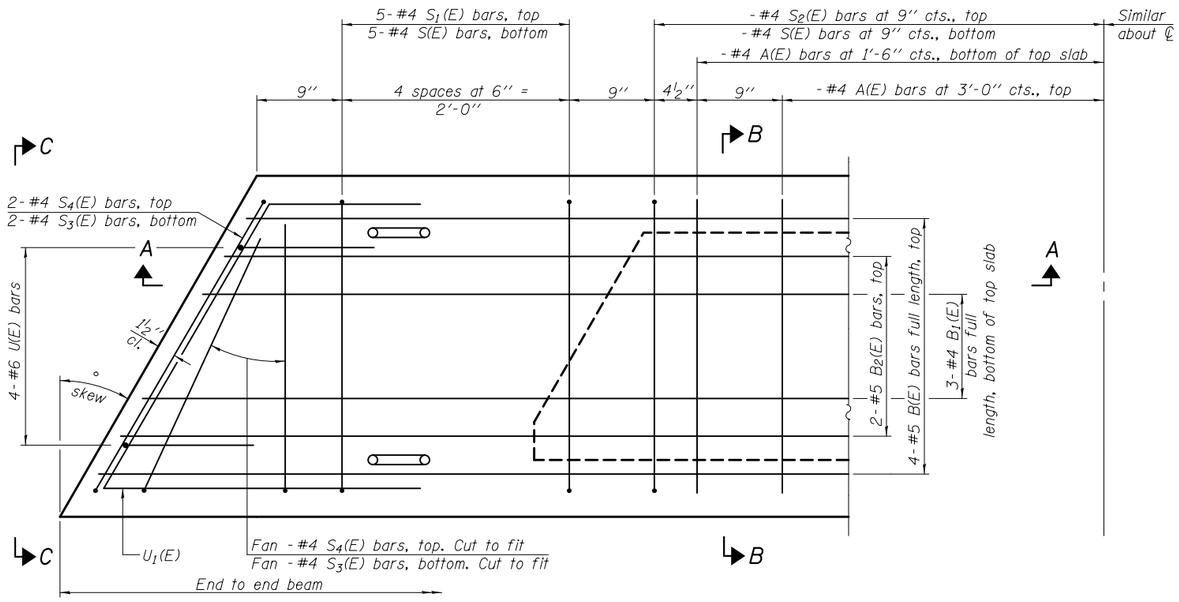
SECTION A-A



SECTION B-B
(Showing dimensions)



VIEW C-C



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 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)

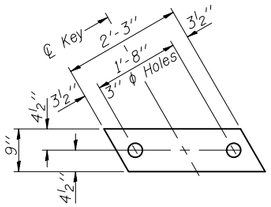
Bar	No.	Size	Length	Shape
A(E)		#4	2′-7″	—
B(E)		#5		—
$B_1(E)$		#4		—
$B_2(E)$		#5	10′-0″	—
S(E)		#4	7′-8″	
$S_1(E)$	10	#4	6′-5″	
$S_2(E)$		#4	6′-8″	
$S_3(E)$		#4		
$S_4(E)$		#4		
U(E)	8	#6	5′-0″	
$U_1(E)$	6	#4		

Note: See sheet of for additional details and Bill of Material.

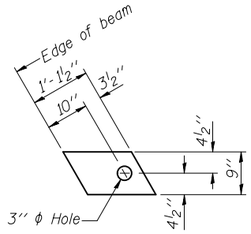
MINIMUM BAR LAP
#4 bar = 1′-11″
#5 bar = 2′-6″

PD-3336-L 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	33″ x 36″ PPC DECK BEAM STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -				
	PLOT SCALE =	DRAWN -	REVISED -				CONTRACT NO.
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT



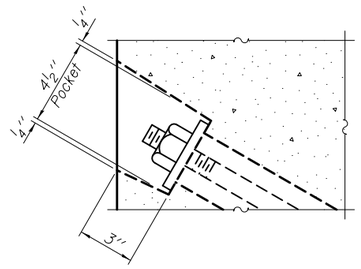
FABRIC BEARING PAD
(Interior)



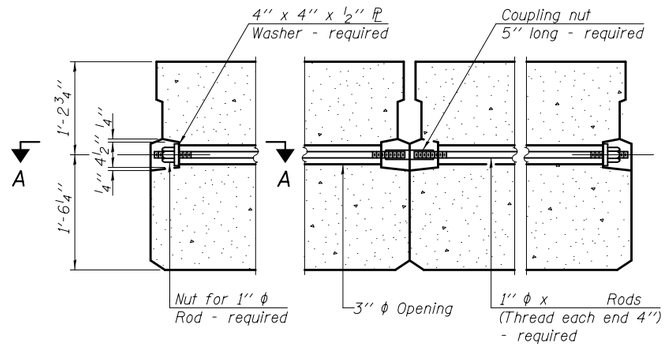
FABRIC BEARING PAD
(Exterior)

FIXED

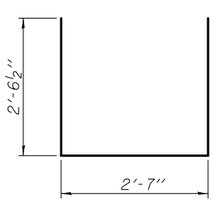
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



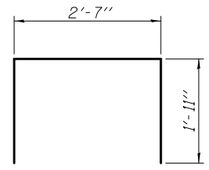
SECTION A-A



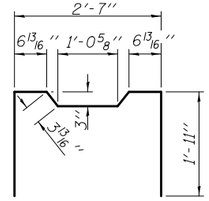
TYPICAL TRANSVERSE TIE ASSEMBLY



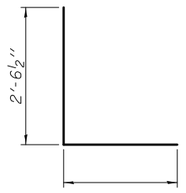
BAR S(E)



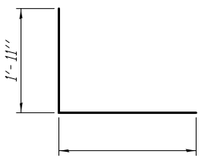
BAR S_1(E)



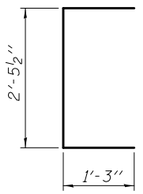
BAR S_2(E)



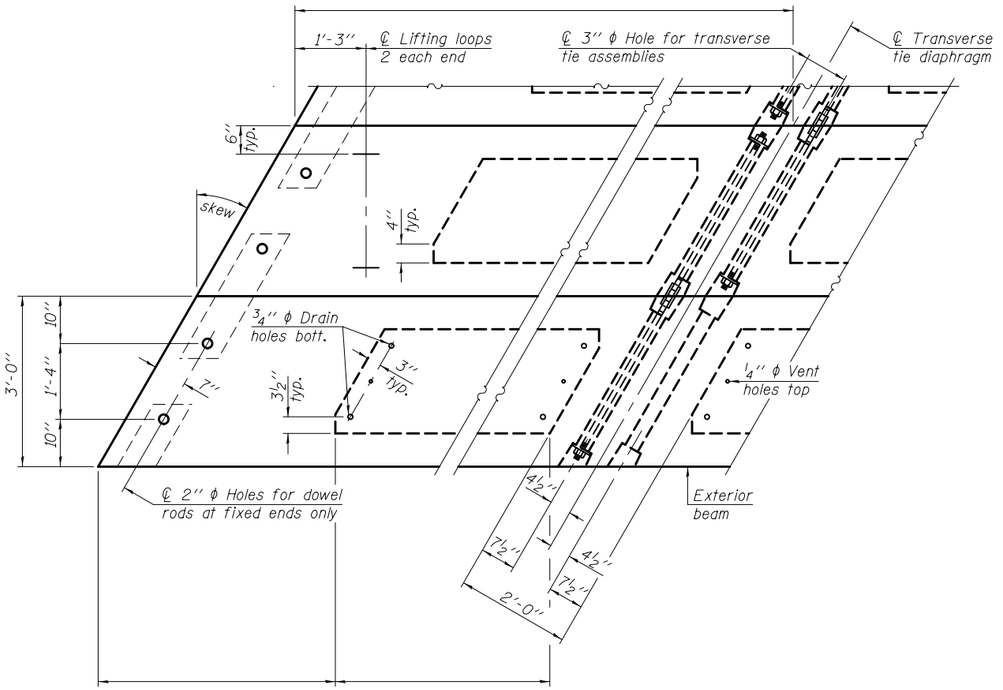
BAR S_3(E)



BAR S_4(E)

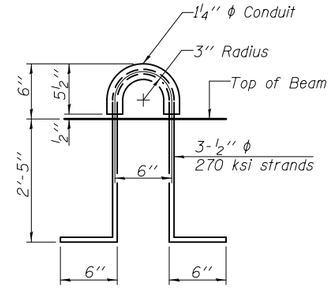


BAR U(E)

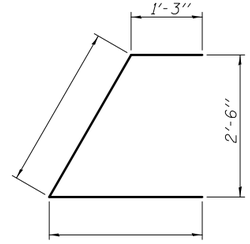


PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.



LIFTING LOOP DETAIL



BAR U_1(E)

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

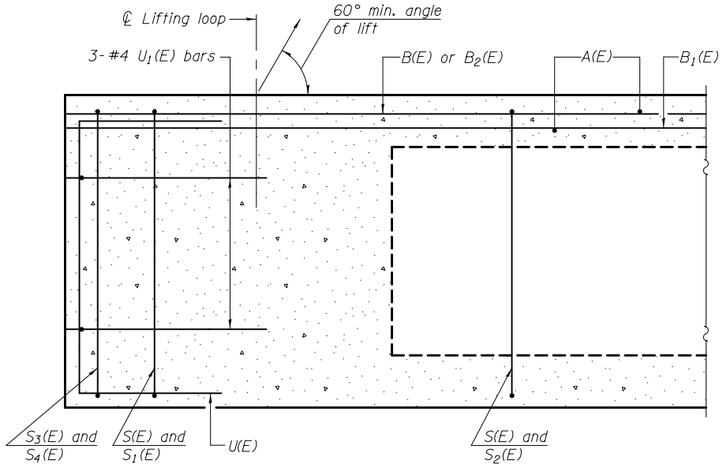
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

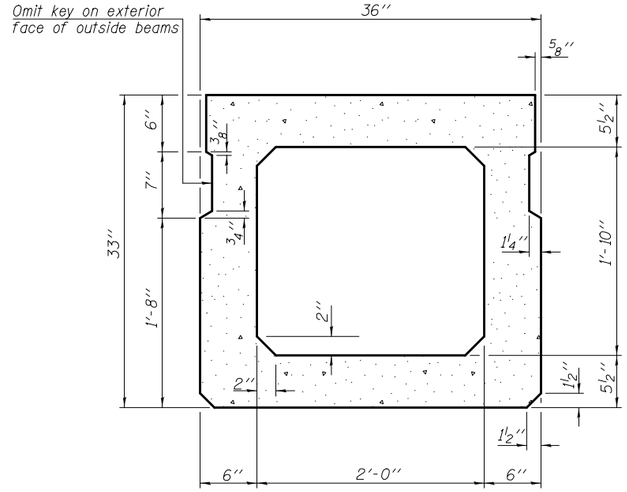
Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	

PD-3336-LD 1-28-16

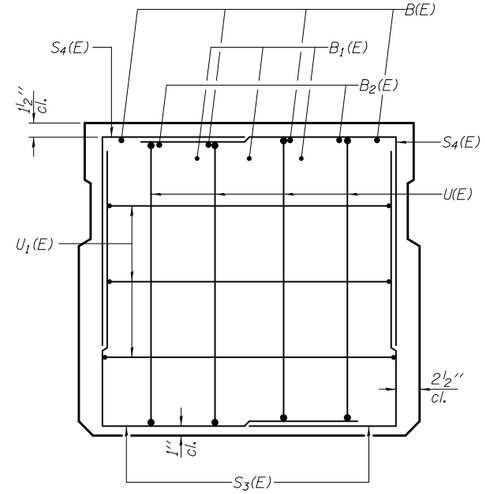
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	33" x 36" PPC DECK BEAM DETAILS STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	CHECKED -	REVISED -					CONTRACT NO.
	PLOT SCALE =	DRAWN -	REVISED -				ILLINOIS FED. AID PROJECT
	PLOT DATE =	CHECKED -	REVISED -				



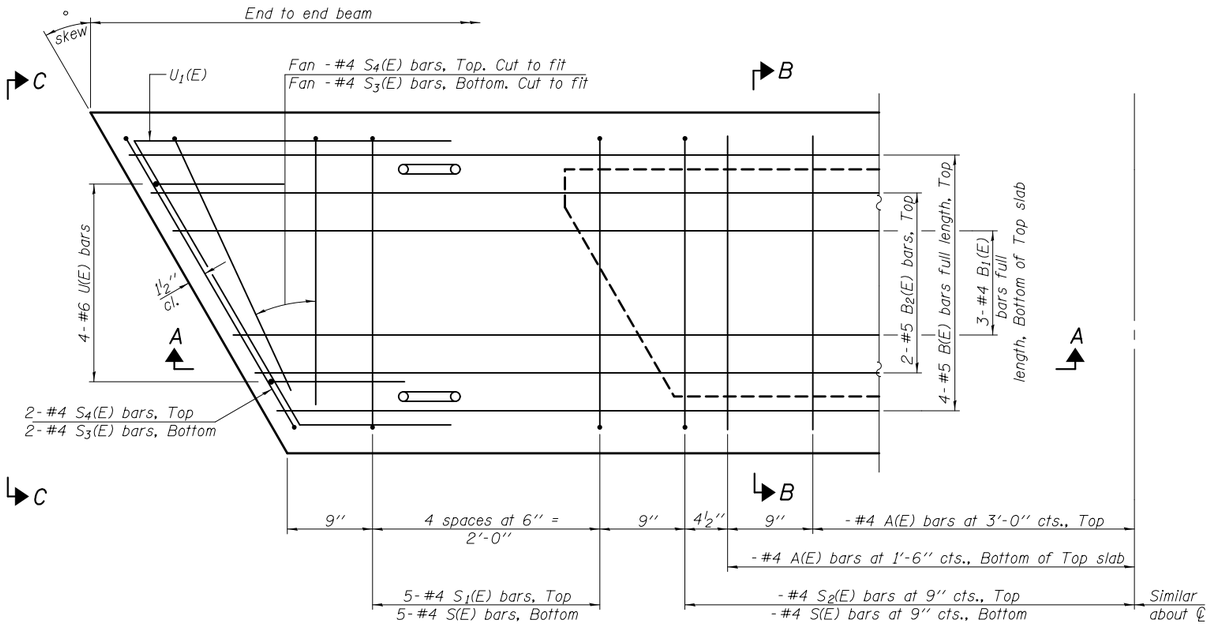
SECTION A-A



SECTION B-B
(Showing dimensions)

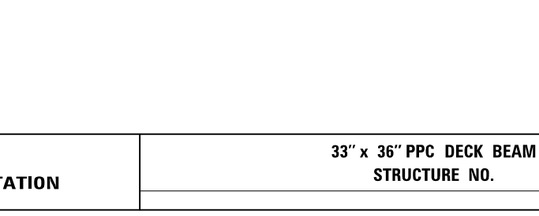


VIEW C-C



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 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)		#4	2′-7″	
B(E)		#5		
$B_1(E)$		#4		
$B_2(E)$		#5	10′-0″	
S(E)		#4	7′-8″	
$S_1(E)$	10	#4	6′-5″	
$S_2(E)$		#4	6′-8″	
$S_3(E)$		#4		
$S_4(E)$		#4		
U(E)	8	#6	5′-0″	
$U_1(E)$	6	#4		

Note: See sheet of for additional details and Bill of Material.

MINIMUM BAR LAP
#4 bar = 1′-11″
#5 bar = 2′-6″

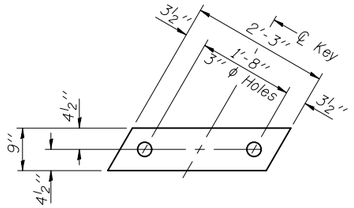
PD-3336-R 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

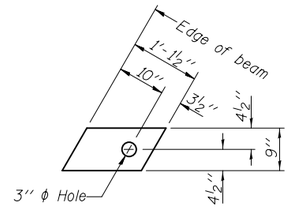
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

33″ x 36″ PPC DECK BEAM
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



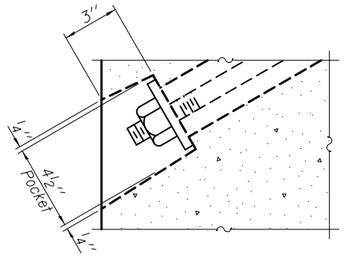
FABRIC BEARING PAD
(Interior)



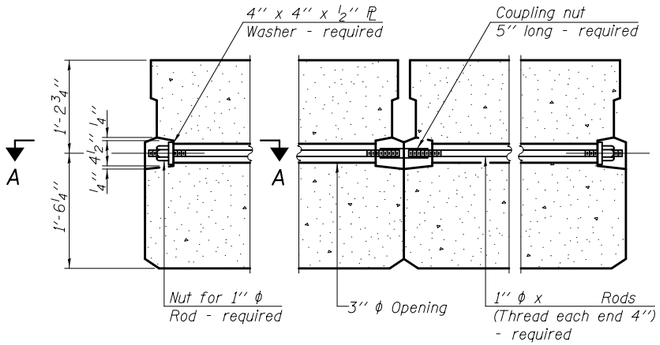
FABRIC BEARING PAD
(Exterior)

FIXED

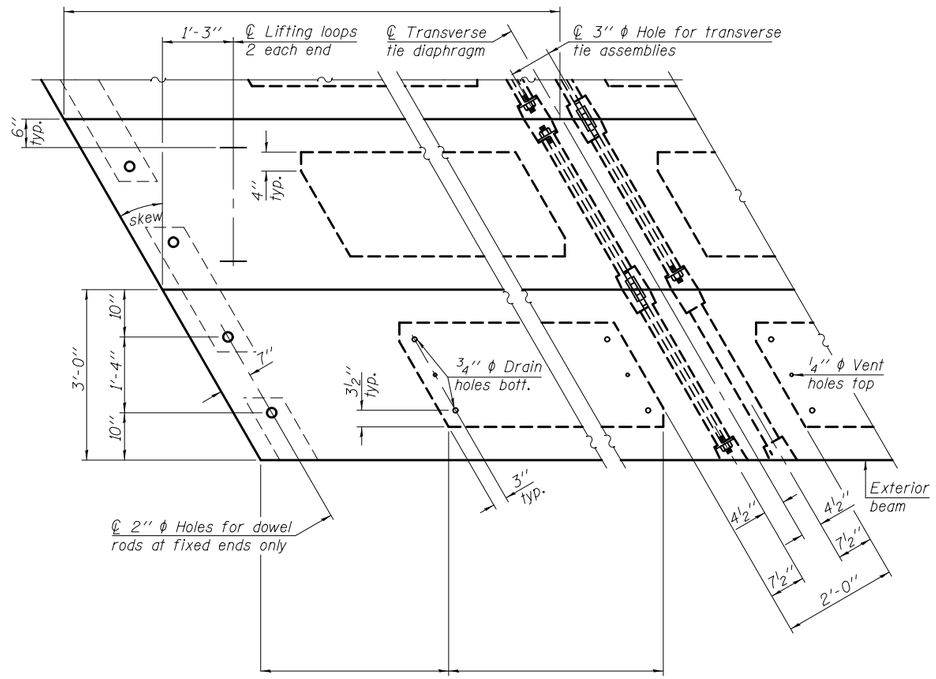
Notes:
All bearing pads shall be 1'' thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

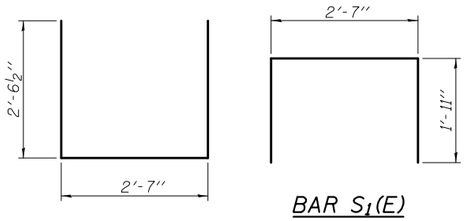


TYPICAL TRANSVERSE TIE ASSEMBLY



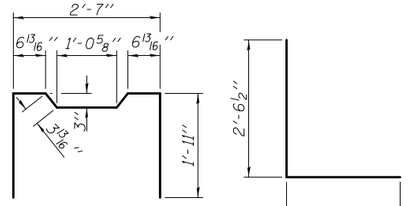
PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.



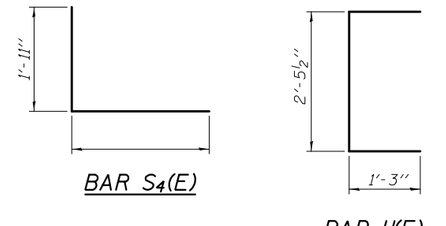
BAR S(E)

BAR S₁(E)



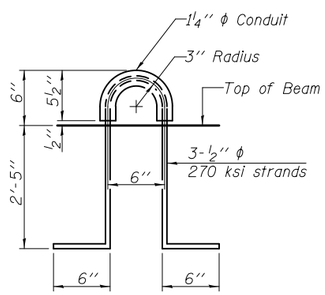
BAR S₂(E)

BAR S₃(E)

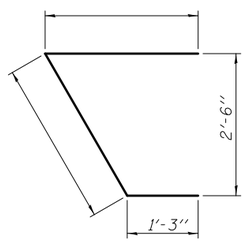


BAR S₄(E)

BAR U(E)



LIFTING LOOP DETAIL



BAR U₁(E)

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½'' 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.

Two ⅛'' fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

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Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (33'' depth)	Sq. Ft.	

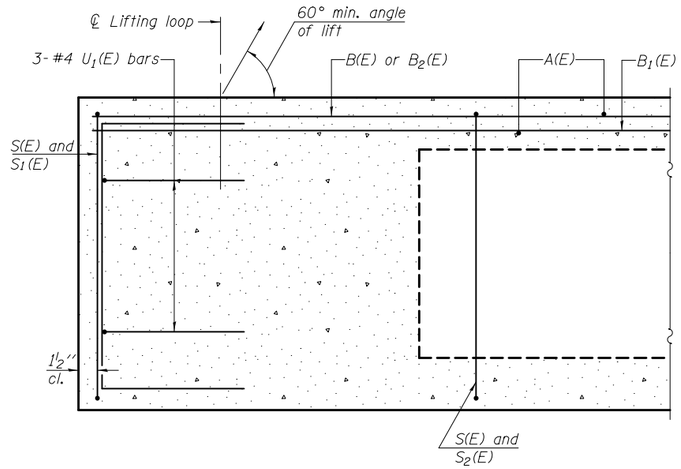
PD-3336-RD 1-28-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

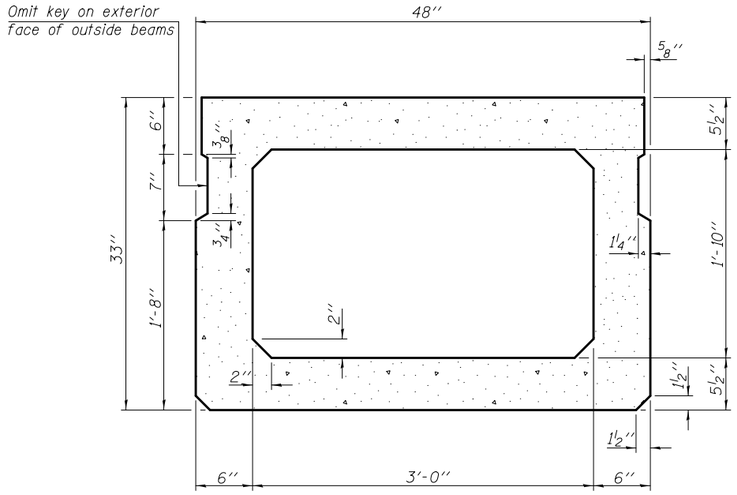
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

33'' x 36'' PPC DECK BEAM DETAILS
STRUCTURE NO.

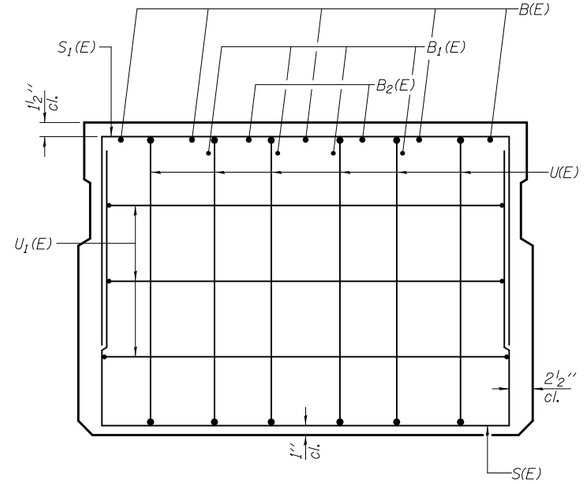
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				



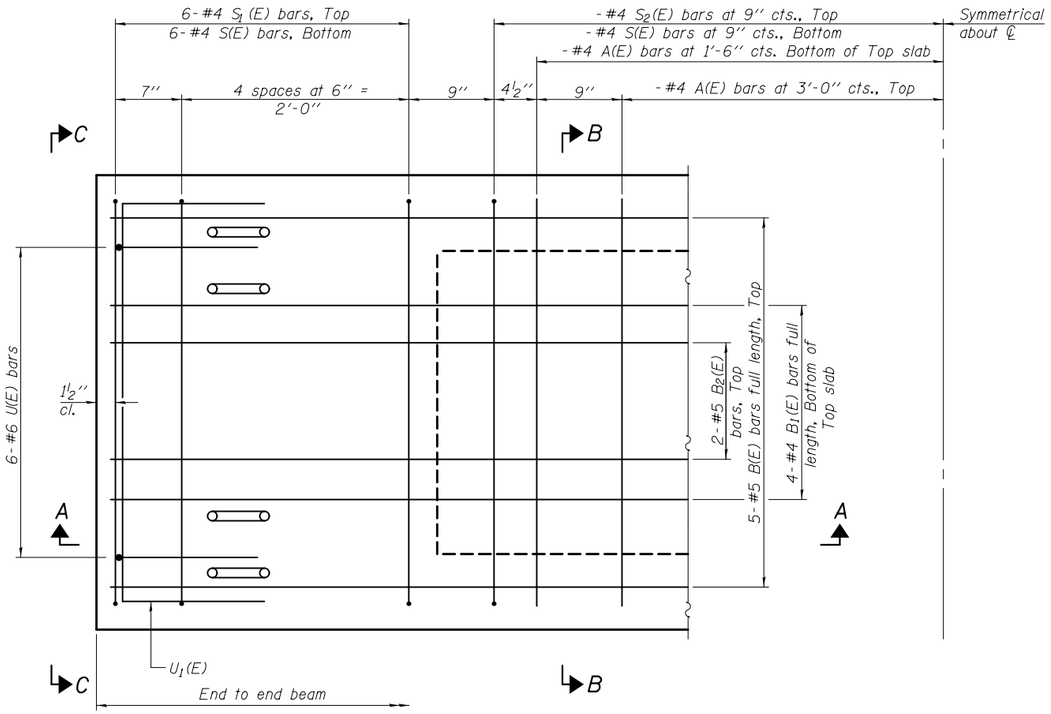
SECTION A-A



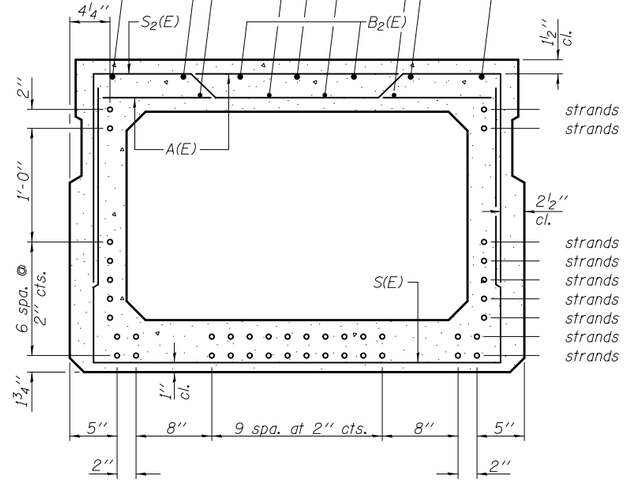
SECTION B-B
(Showing dimensions)



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)		#4	3'-7"	—
B(E)		#5		—
$B_1(E)$		#4		—
$B_2(E)$		#5	10'-0"	—
S(E)		#4	8'-8"	⊔
$S_1(E)$	12	#4	7'-5"	⊐
$S_2(E)$		#4	7'-8"	⊐
U(E)	12	#6	5'-0"	⊏
$U_1(E)$	6	#4	6'-0"	⊐

Note: See sheet of for additional details and Bill of Material.

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.

MINIMUM BAR LAP
#4 bar = 1'-11"
#5 bar = 2'-6"

PD-3348-0 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

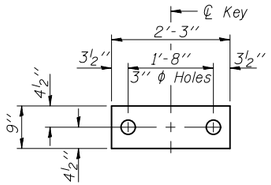
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

33" x 48" PPC DECK BEAM
STRUCTURE NO.

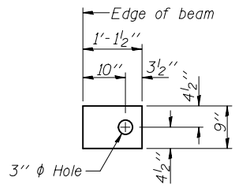
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

CONTRACT NO.

ILLINOIS FED. AID PROJECT



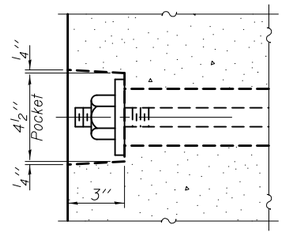
FABRIC BEARING PAD
(Interior)



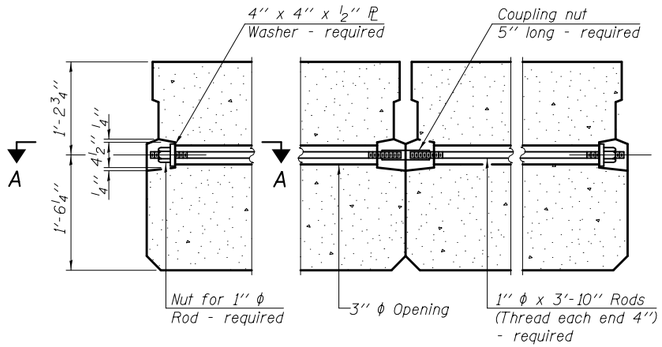
FABRIC BEARING PAD
(Exterior)

FIXED

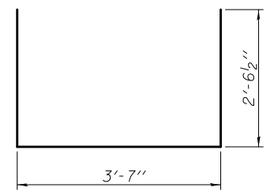
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



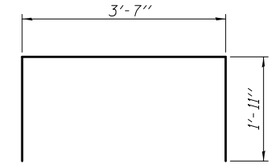
SECTION A-A



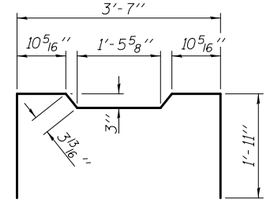
TYPICAL TRANSVERSE TIE ASSEMBLY



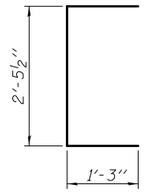
BAR S(E)



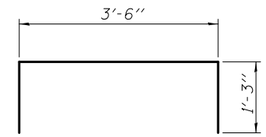
BAR S_1(E)



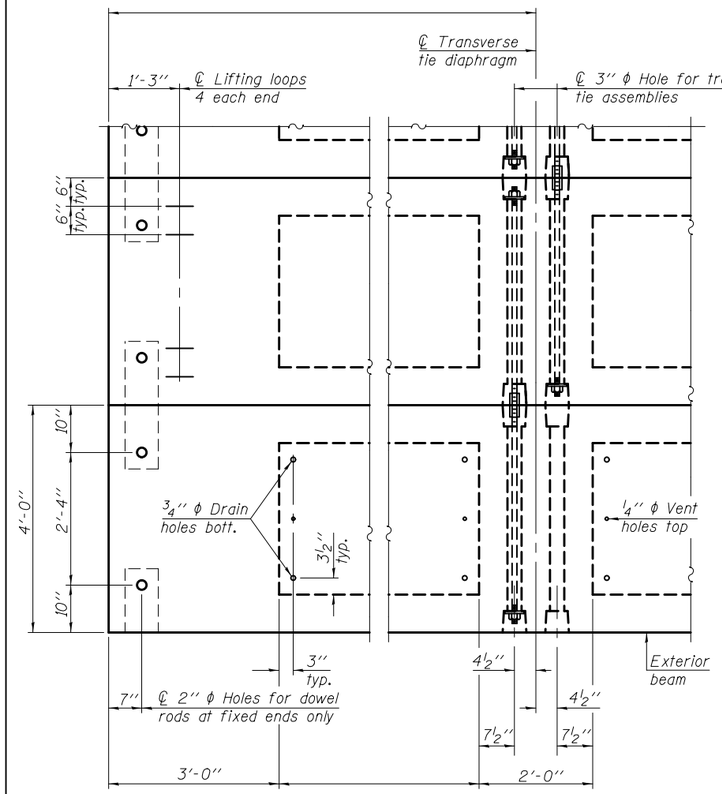
BAR S_2(E)



BAR U(E)

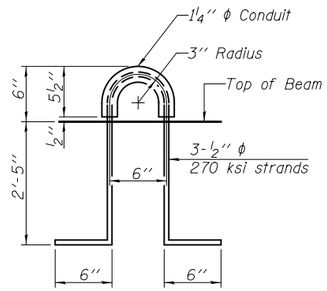


BAR U_1(E)



PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

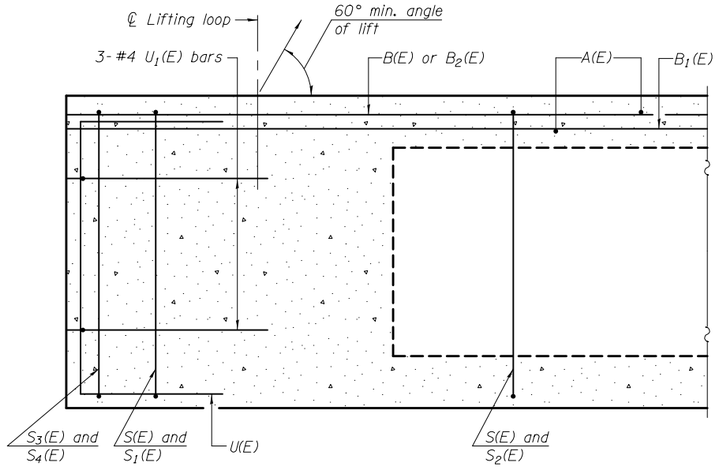
Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

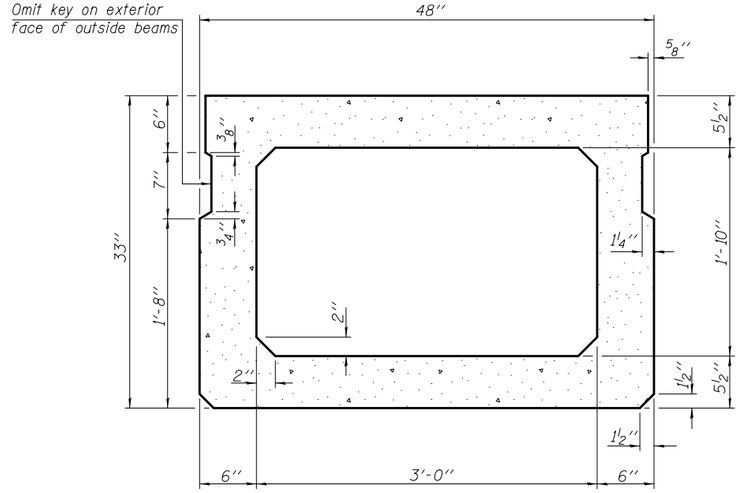
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

PD-3348-0D 1-28-16

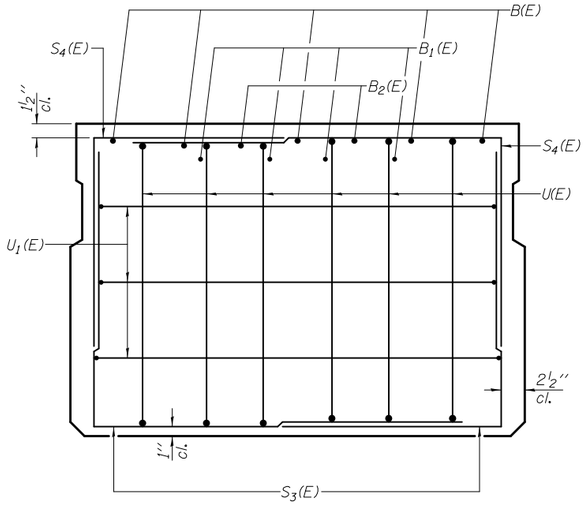
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	33" x 48" PPC DECK BEAM DETAILS STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -				
	PLOT SCALE =	DRAWN -	REVISED -				CONTRACT NO.
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT



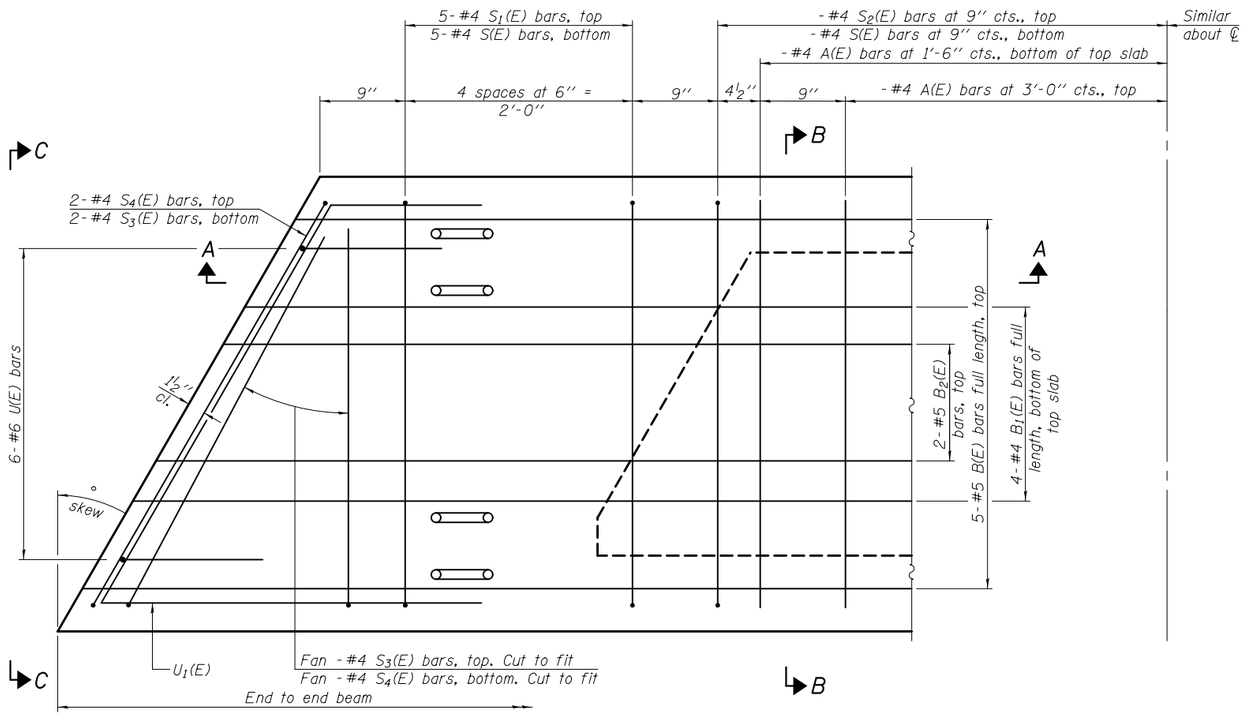
SECTION A-A



SECTION B-B
(Showing dimensions)

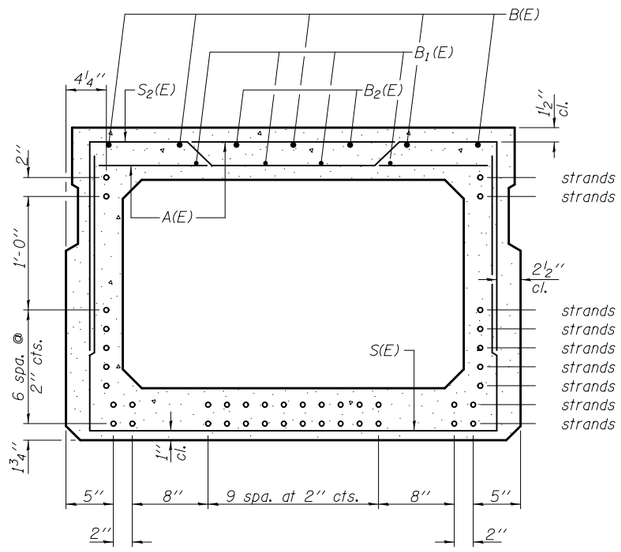


VIEW C-C



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 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)		#4	3′-7″	—
B(E)		#5		—
$B_1(E)$		#4		—
$B_2(E)$		#5	10′-0″	—
S(E)		#4	8′-8″	⊔
$S_1(E)$	10	#4	7′-5″	⊐
$S_2(E)$		#4	7′-8″	⊏
$S_3(E)$		#4		⌊
$S_4(E)$		#4		⌊
U(E)	12	#6	5′-0″	⊏
$U_1(E)$	6	#4		⊏

Note: See sheet of for additional details and Bill of Material.

MINIMUM BAR LAP
#4 bar = 1′-11″
#5 bar = 2′-6″

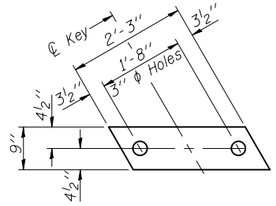
PD-3348-L 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

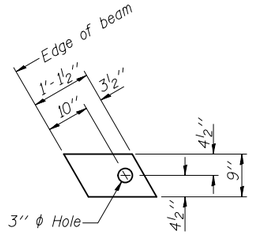
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

33″ x 48″ PPC DECK BEAM
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



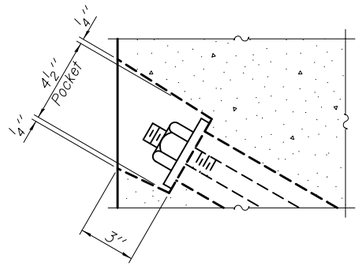
FABRIC BEARING PAD
(Interior)



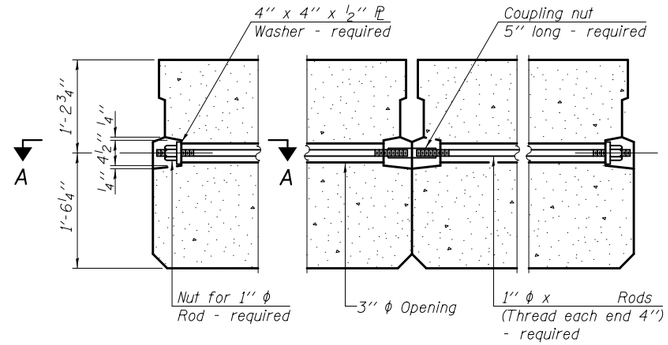
FABRIC BEARING PAD
(Exterior)

FIXED

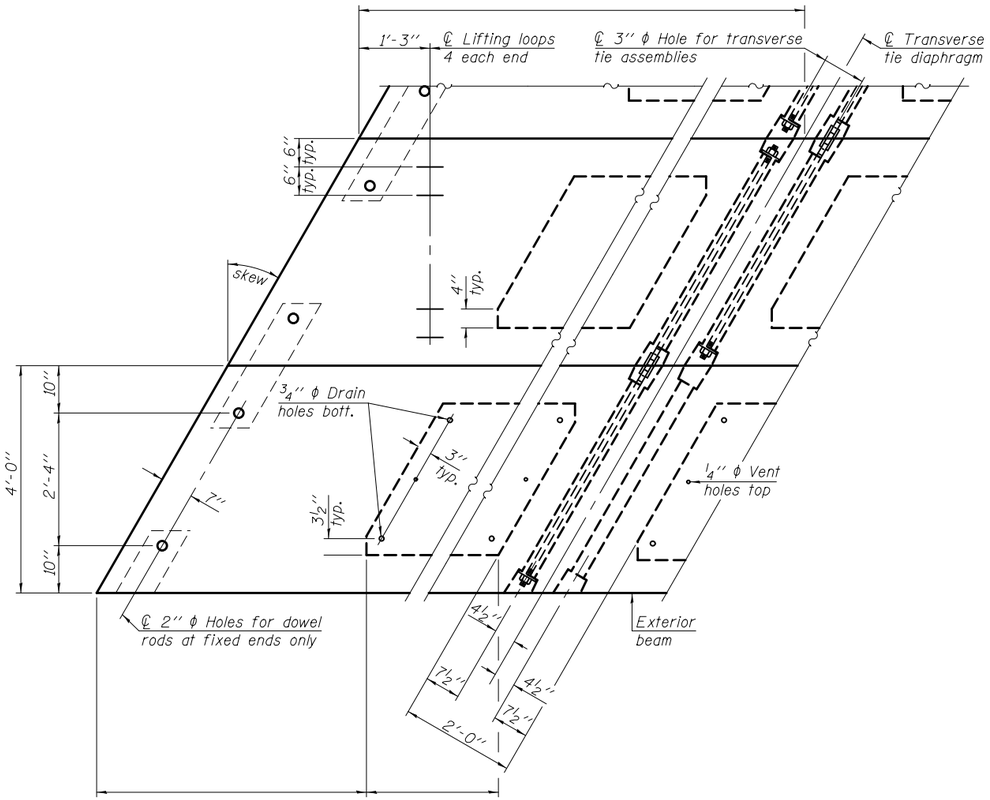
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

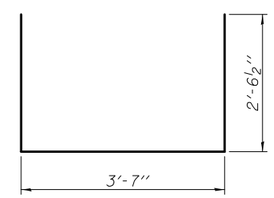


TYPICAL TRANSVERSE TIE ASSEMBLY

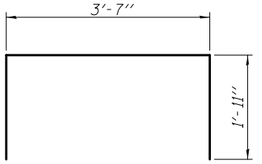


PLAN VIEW

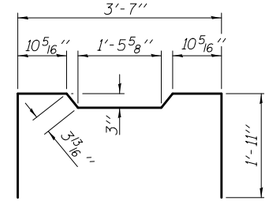
Note: Connect beams in pairs with the transverse tie configuration shown.



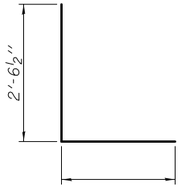
BAR S(E)



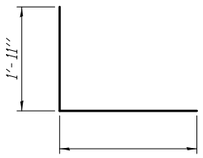
BAR S_1(E)



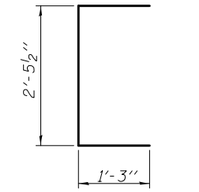
BAR S_2(E)



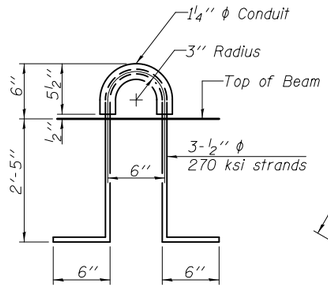
BAR S_3(E)



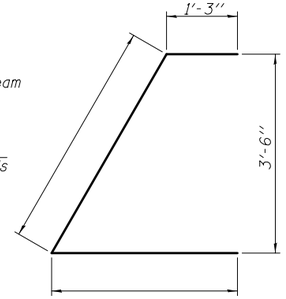
BAR S_4(E)



BAR U(E)



LIFTING LOOP DETAIL



BAR U_1(E)

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

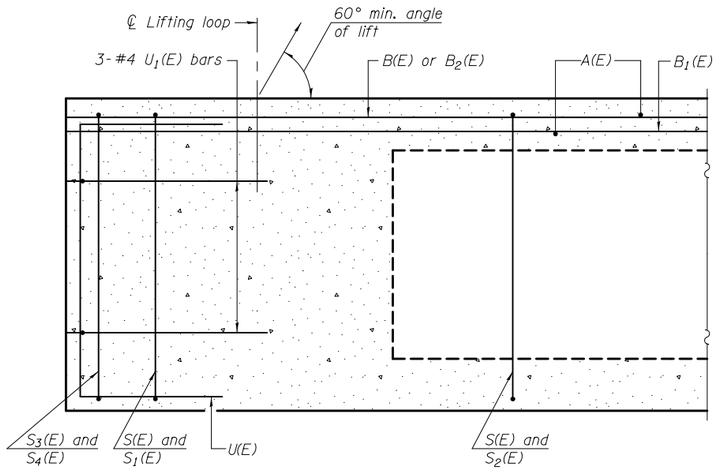
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

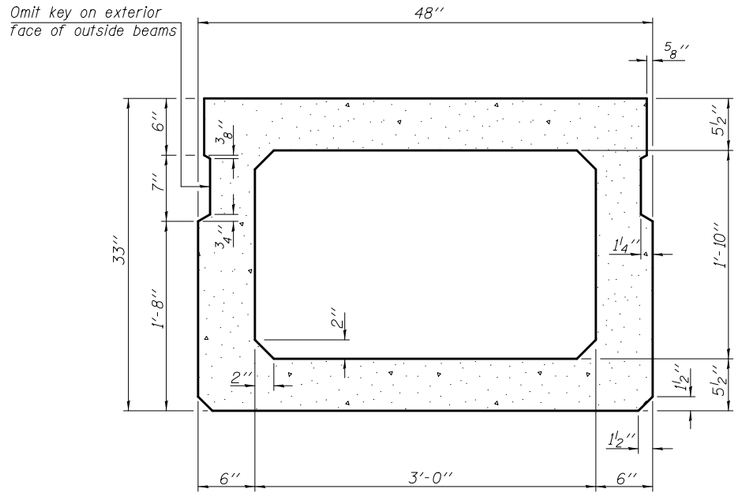
Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	

PD-3348-LD 1-28-16

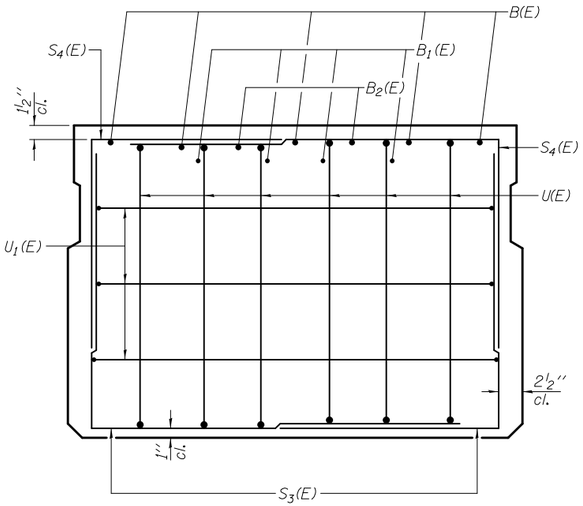
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	33" x 48" PPC DECK BEAM DETAILS STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -				
	PLOT SCALE =	DRAWN -	REVISED -				CONTRACT NO.
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT



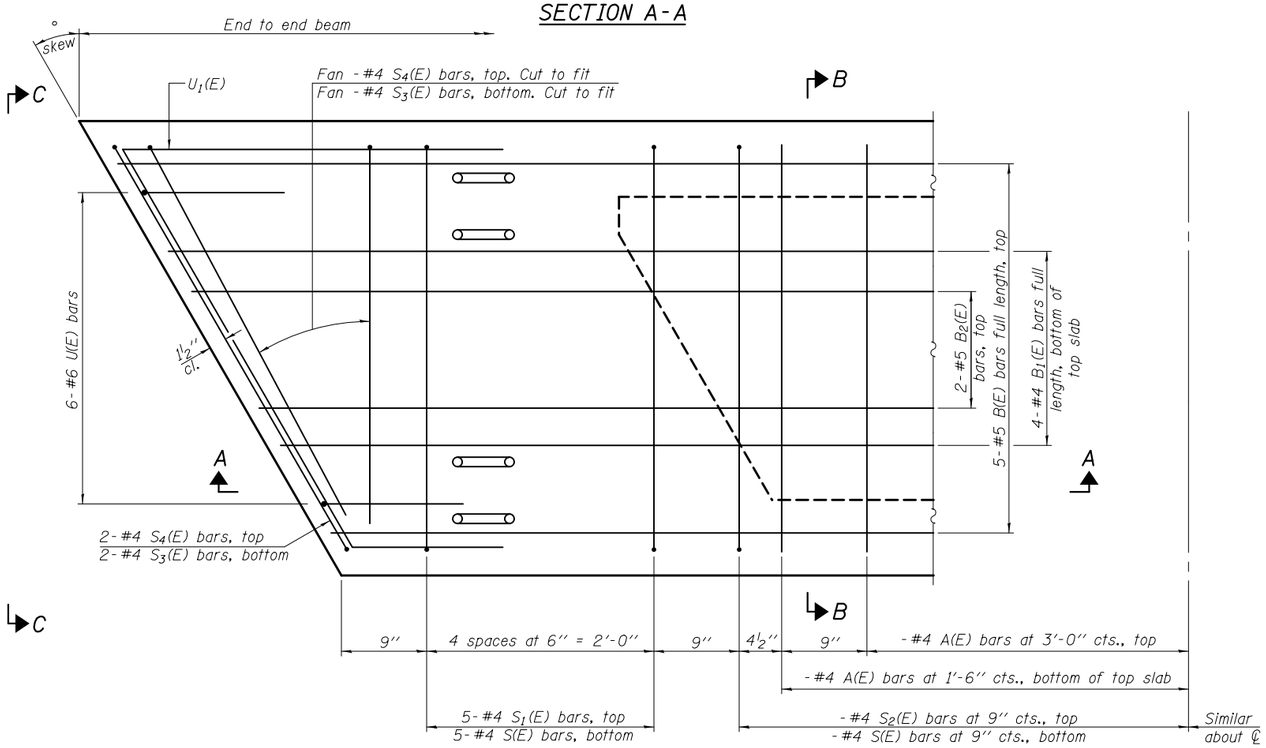
SECTION A-A



SECTION B-B
(Showing dimensions)



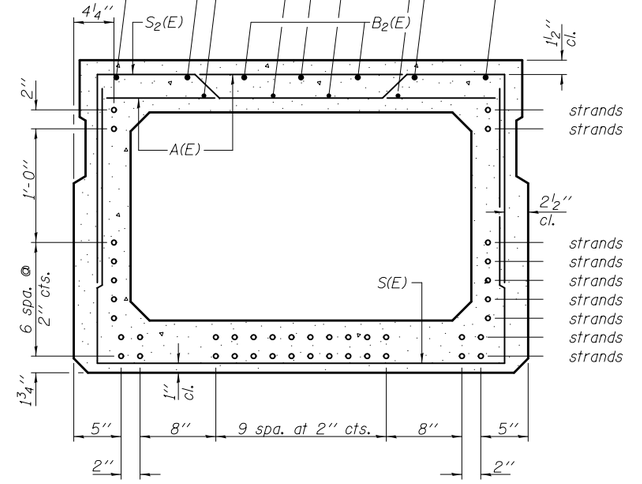
VIEW C-C



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.

MINIMUM BAR LAP
#4 bar = 1′-11″
#5 bar = 2′-6″



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)		#4	3′-7″	—
B(E)		#5		—
$B_1(E)$		#4		—
$B_2(E)$		#5	10′-0″	—
S(E)		#4	8′-8″	
$S_1(E)$	10	#4	7′-5″	
$S_2(E)$		#4	7′-8″	
$S_3(E)$		#4		
$S_4(E)$		#4		
U(E)	12	#6	5′-0″	
$U_1(E)$	6	#4		

Note: See sheet of for additional details and Bill of Material.

PD-3348-R 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

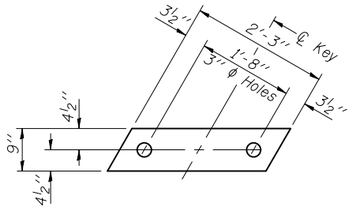
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

33″ x 48″ PPC DECK BEAM
STRUCTURE NO.

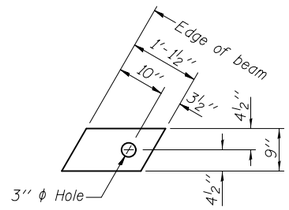
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

CONTRACT NO.

ILLINOIS FED. AID PROJECT



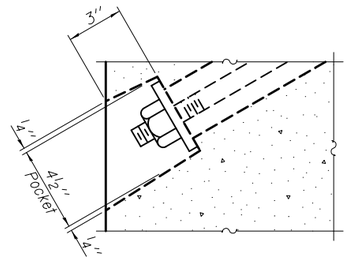
FABRIC BEARING PAD
(Interior)



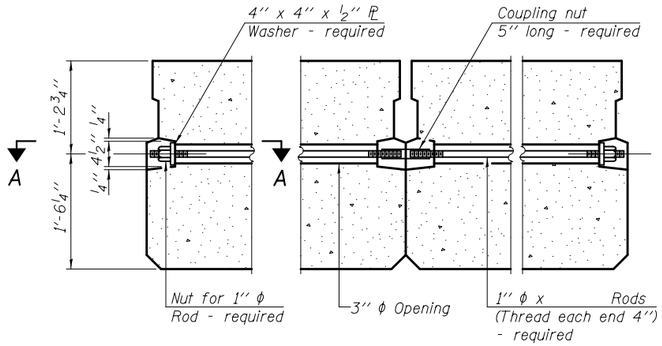
FABRIC BEARING PAD
(Exterior)

FIXED

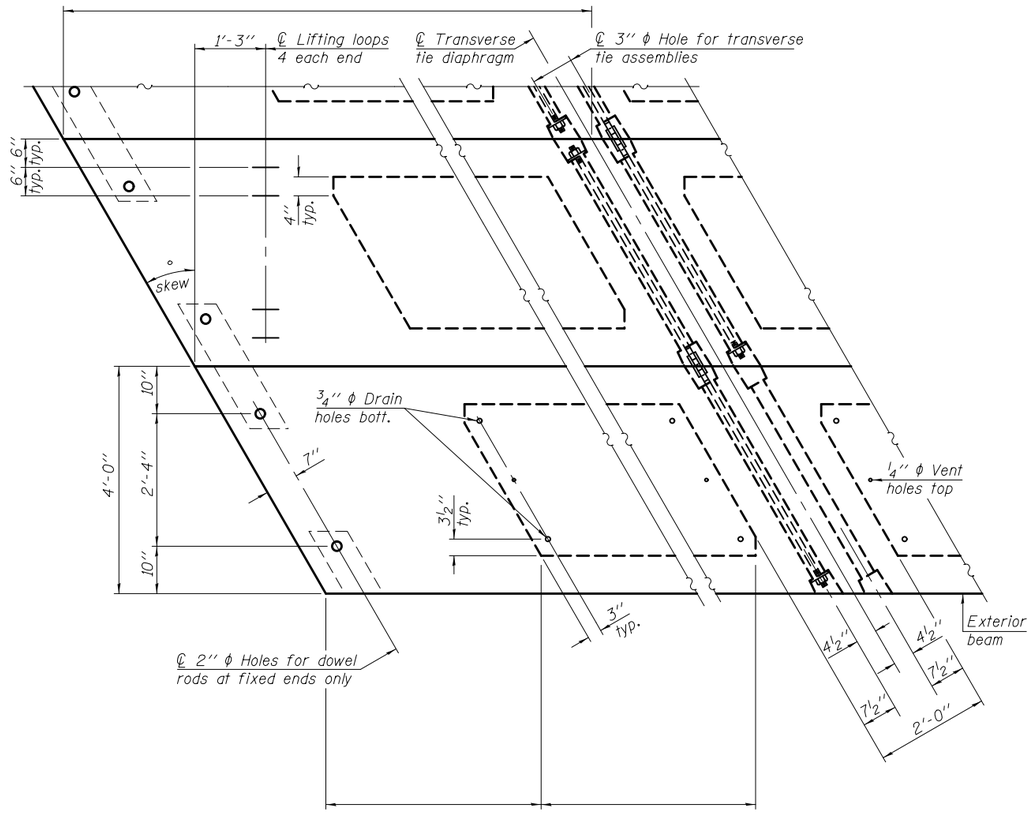
Notes:
All bearing pads shall be 1'' thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

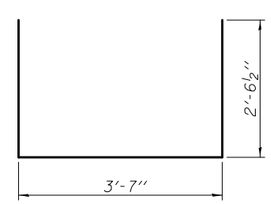


TYPICAL TRANSVERSE TIE ASSEMBLY

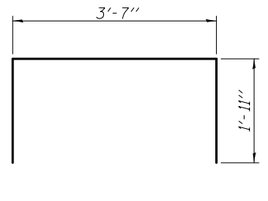


PLAN VIEW

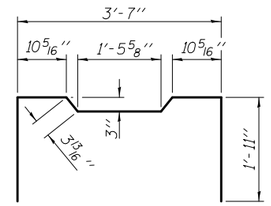
Note: Connect beams in pairs with the transverse tie configuration shown.



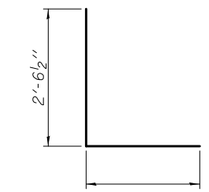
BAR S(E)



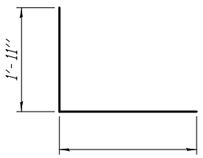
BAR S_1(E)



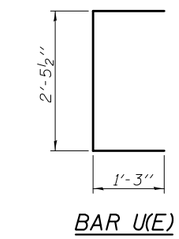
BAR S_2(E)



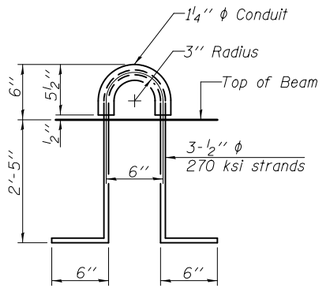
BAR S_3(E)



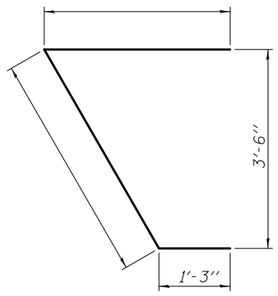
BAR S_4(E)



BAR U(E)



LIFTING LOOP DETAIL



BAR U_1(E)

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½'' 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.

Two ⅛'' fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½'' ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

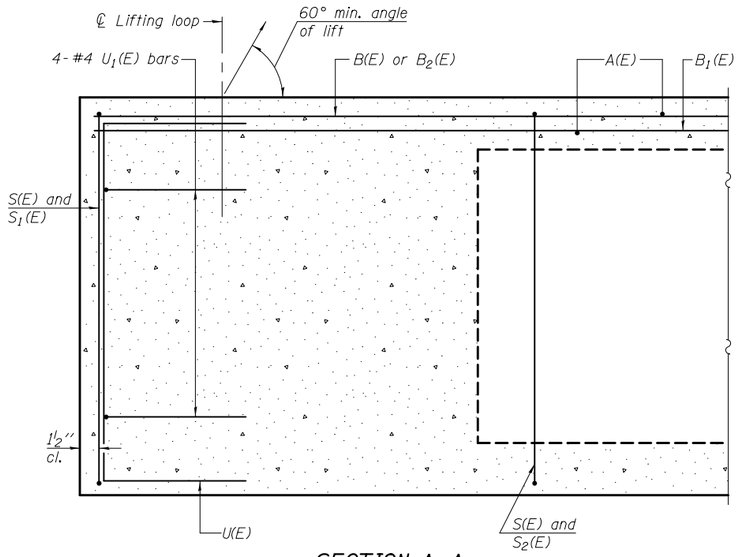
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

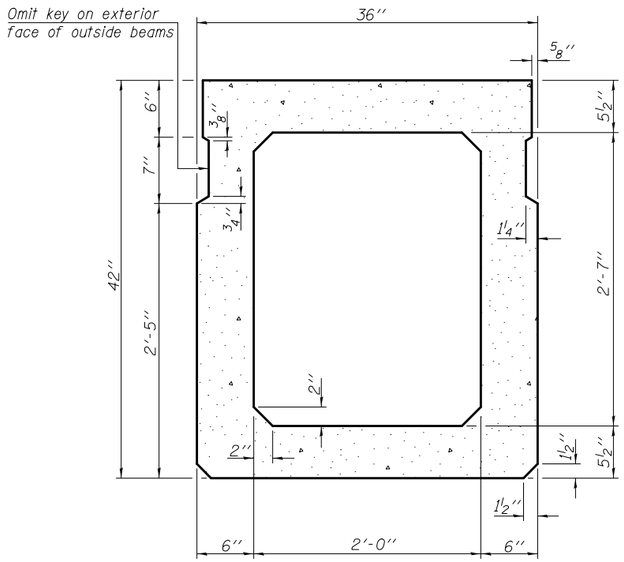
Precast Prestressed Conc. Deck Bms. (33'' depth)	Sq. Ft.	

PD-3348-RD 1-28-16

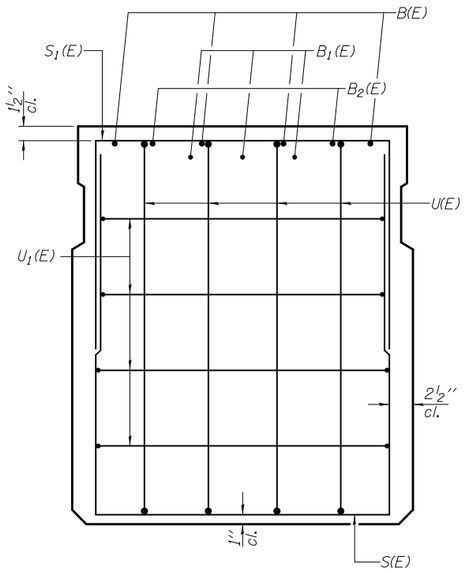
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	33'' x 48'' PPC DECK BEAM DETAILS STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -				CONTRACT NO.
	PLOT SCALE =	DRAWN -	REVISED -				ILLINOIS FED. AID PROJECT
	PLOT DATE =	CHECKED -	REVISED -				



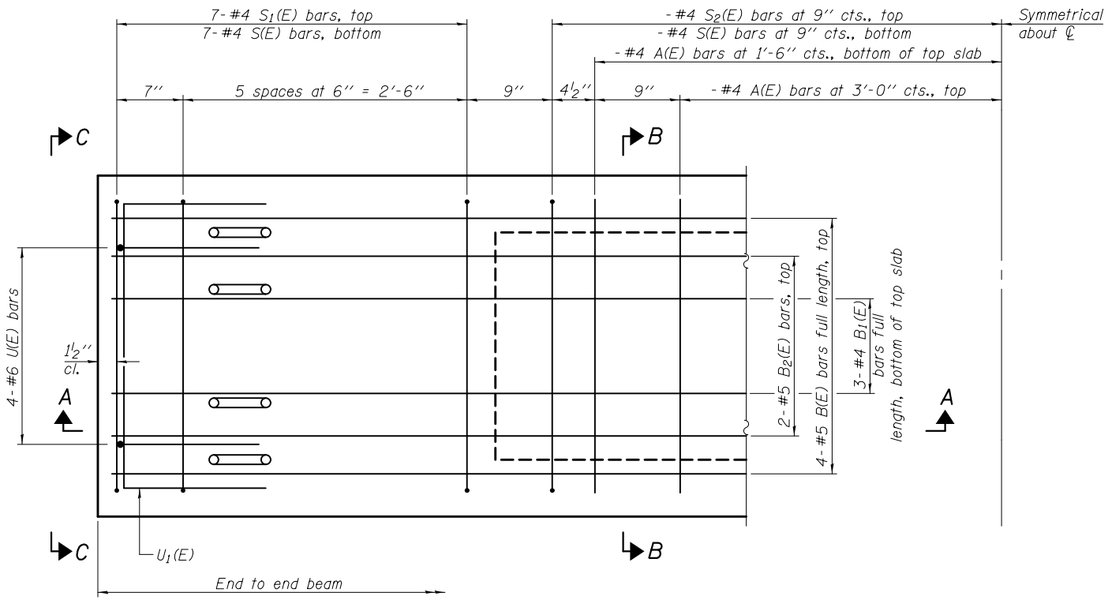
SECTION A-A



SECTION B-B
(Showing dimensions)

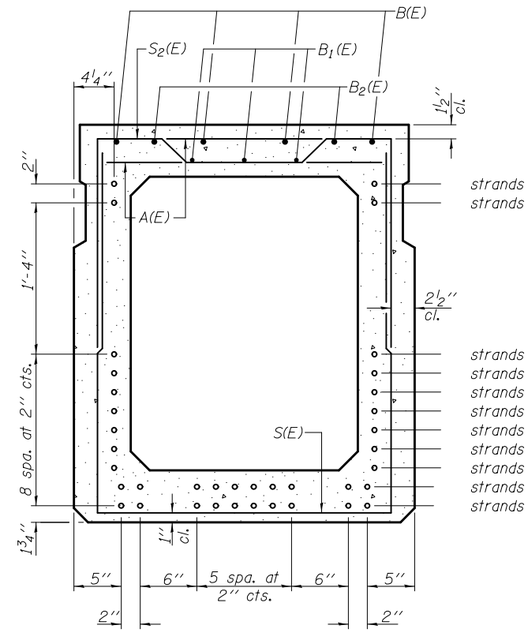


VIEW C-C



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 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)		#4	2'-7"	—
B(E)		#5		—
$B_1(E)$		#4		—
$B_2(E)$		#5	10'-0"	—
S(E)		#4	9'-2"	⌊⌋
$S_1(E)$	14	#4	6'-5"	⌐¬
$S_2(E)$		#4	6'-8"	⌐¬
U(E)	8	#6	5'-9"	⊏
$U_1(E)$	8	#4	5'-0"	⌐¬

Note: See sheet of for additional details and Bill of Material.

MINIMUM BAR LAP
#4 bar = 1'-11"
#5 bar = 2'-6"

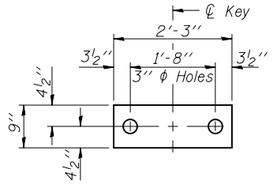
PD-4236-0 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

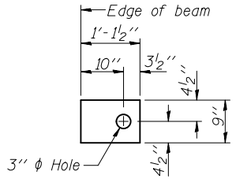
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

42" x 36" PPC DECK BEAM
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



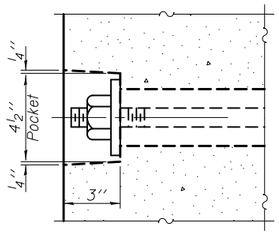
FABRIC BEARING PAD
(Interior)



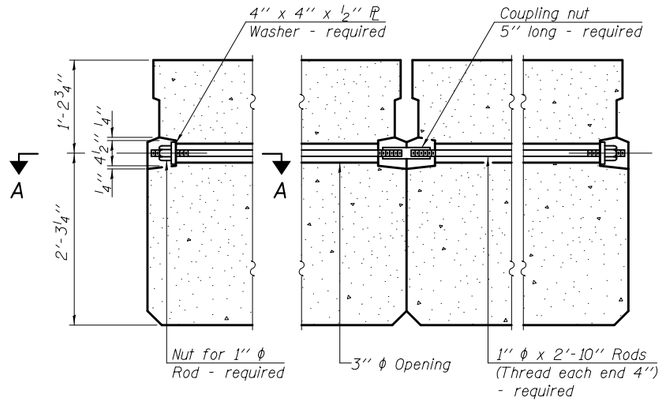
FABRIC BEARING PAD
(Exterior)

FIXED

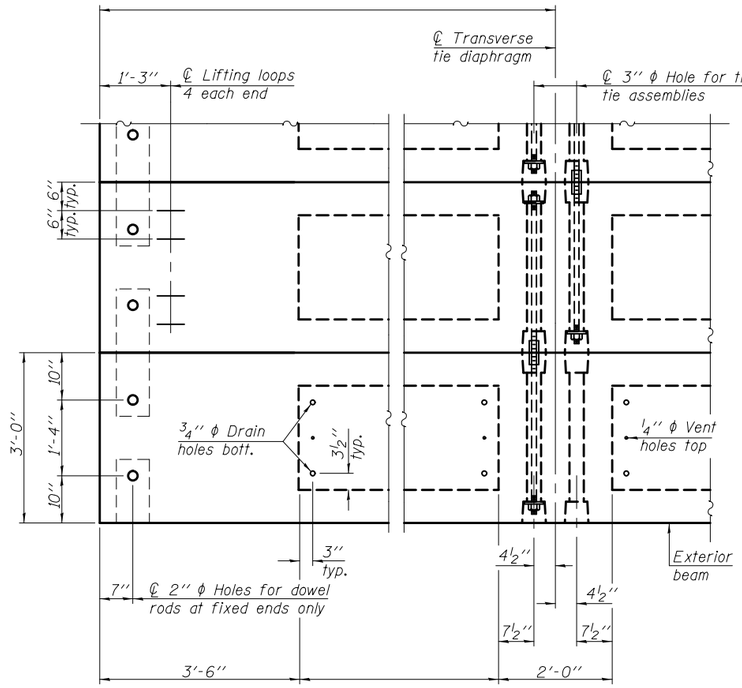
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

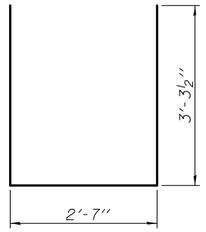


TYPICAL TRANSVERSE TIE ASSEMBLY

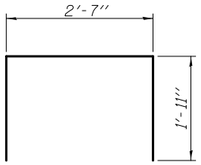


PLAN VIEW

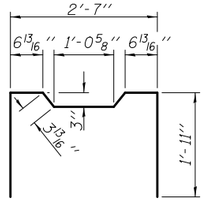
Note: Connect beams in pairs with the transverse tie configuration shown.



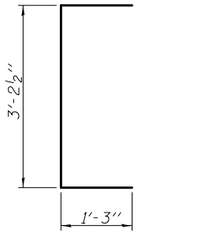
BAR S(E)



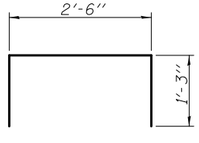
BAR S_1(E)



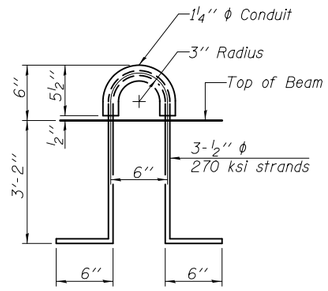
BAR S_2(E)



BAR U(E)



BAR U_1(E)



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (42" depth)	Sq. Ft.	

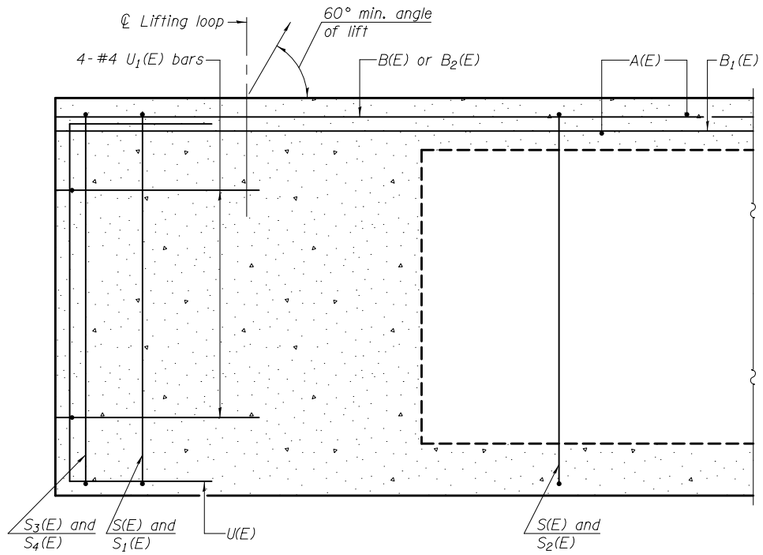
PD-4236-0D 1-28-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

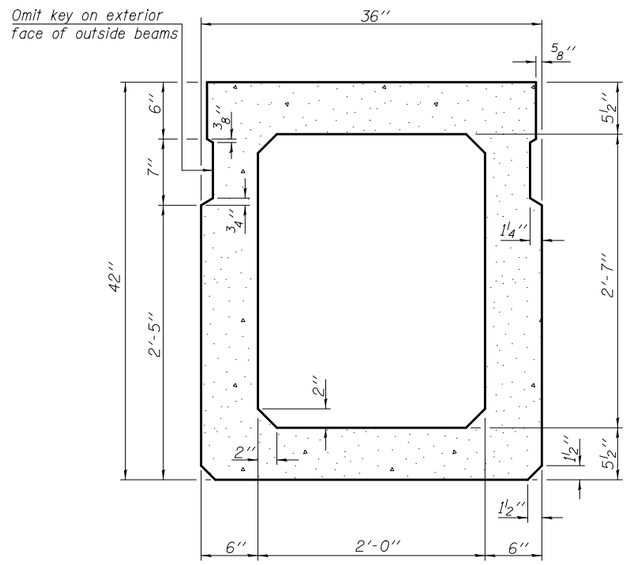
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

42" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO.

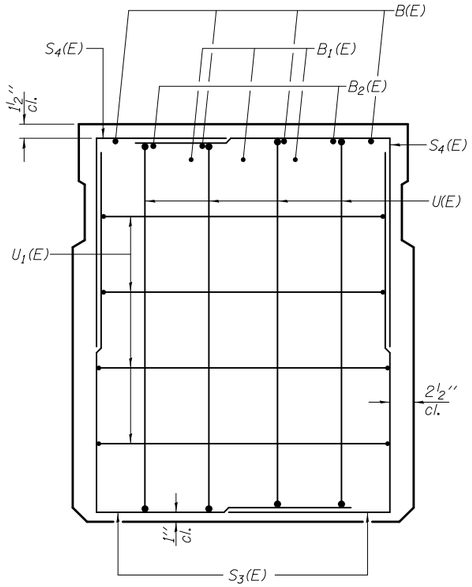
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
ILLINOIS	FED. AID PROJECT			



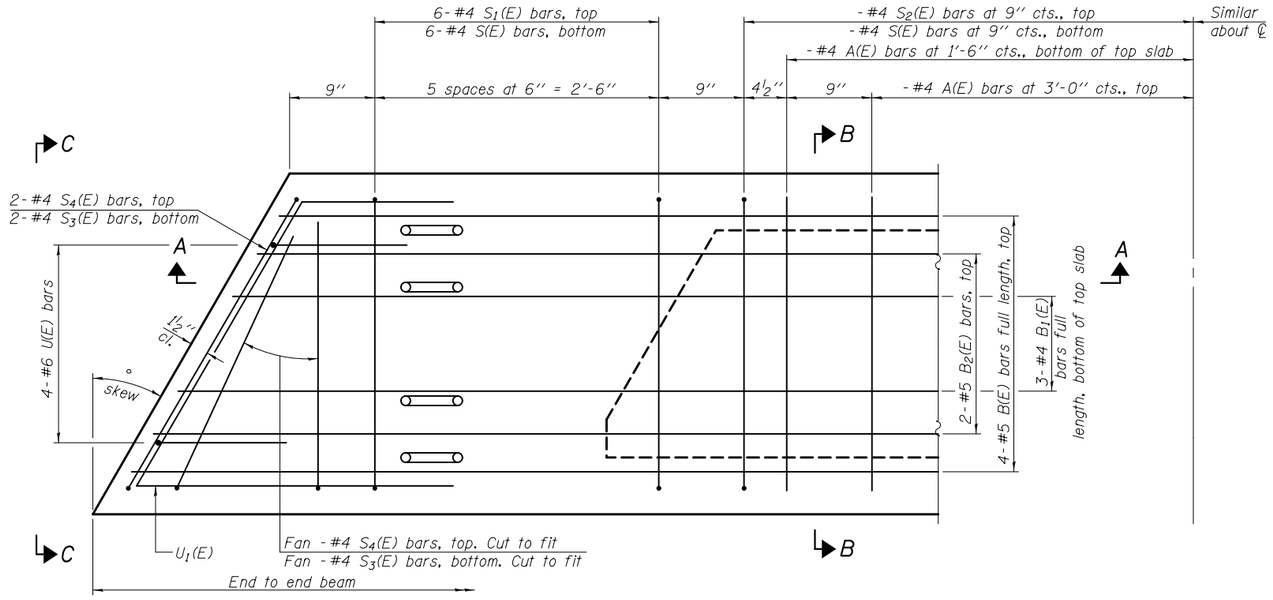
SECTION A-A



SECTION B-B
(Showing dimensions)

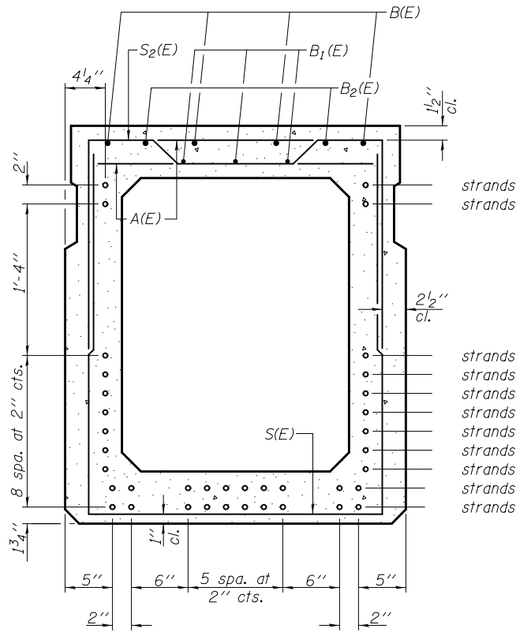


VIEW C-C



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 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.

MINIMUM BAR LAP

#4 bar = 1′-11″
#5 bar = 2′-6″

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	2′-7″	—
B(E)		#5		—
$B_1(E)$		#4		—
$B_2(E)$		#5	10′-0″	—
S(E)		#4	9′-2″	⊔
$S_1(E)$	12	#4	6′-5″	⊔
$S_2(E)$		#4	6′-8″	⊐
$S_3(E)$		#4		⊔
$S_4(E)$		#4		⊔
U(E)	8	#6	5′-9″	⊏
$U_1(E)$	8	#4		⊏

Note: See sheet of for additional details and Bill of Material.

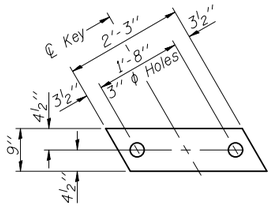
PD-4236-L 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

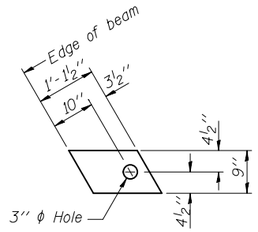
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

42″ x 36″ PPC DECK BEAM
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



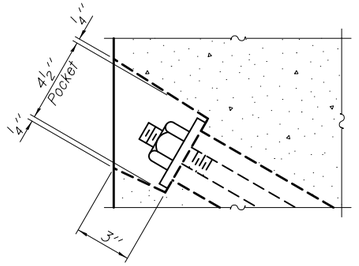
FABRIC BEARING PAD
(Interior)



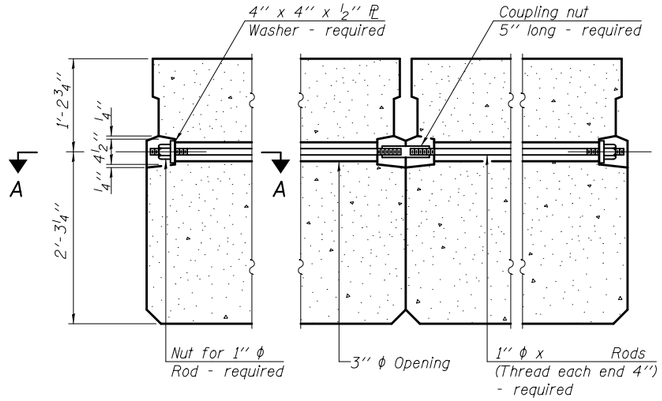
FABRIC BEARING PAD
(Exterior)

FIXED

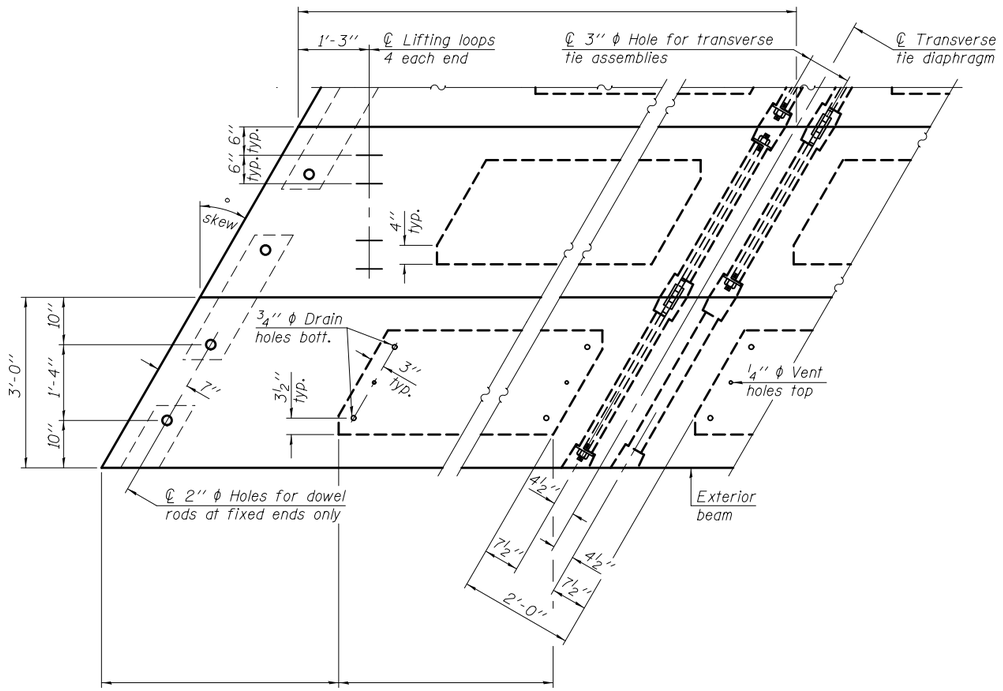
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

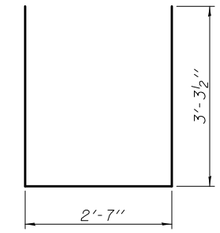


TYPICAL TRANSVERSE TIE ASSEMBLY

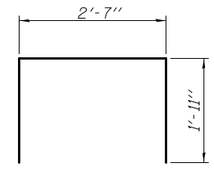


PLAN VIEW

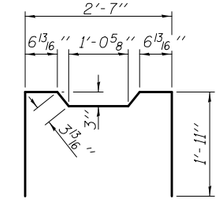
Note: Connect beams in pairs with the transverse tie configuration shown.



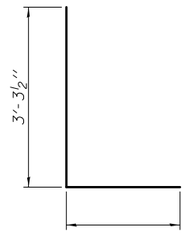
BAR S(E)



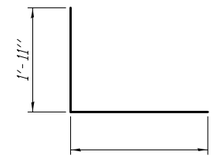
BAR S1(E)



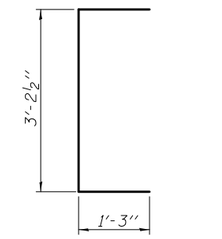
BAR S2(E)



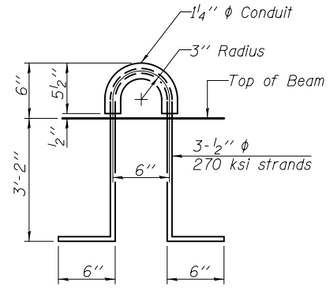
BAR S3(E)



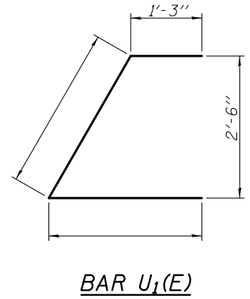
BAR S4(E)



BAR U(E)



LIFTING LOOP DETAIL



BAR U1(E)

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (42" depth)	Sq. Ft.	

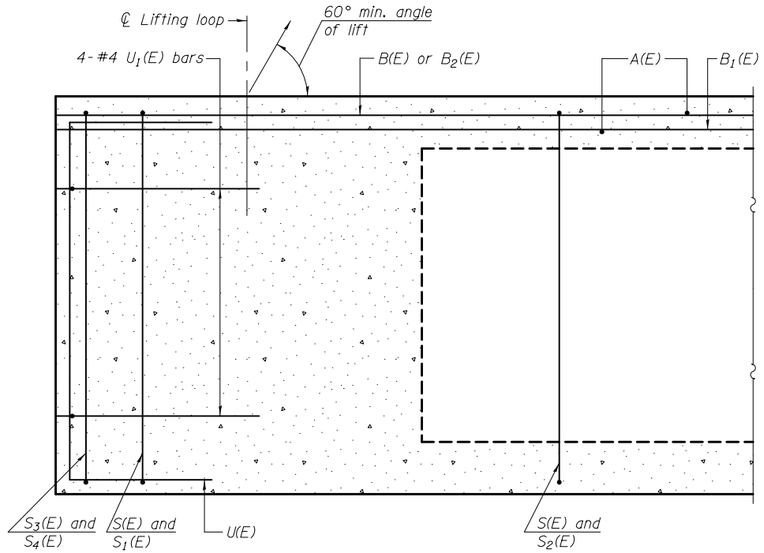
PD-4236-LD 1-28-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

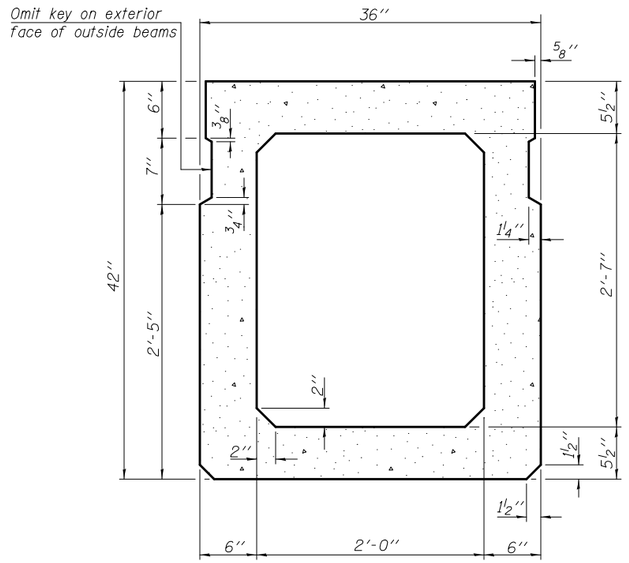
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

42" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO.

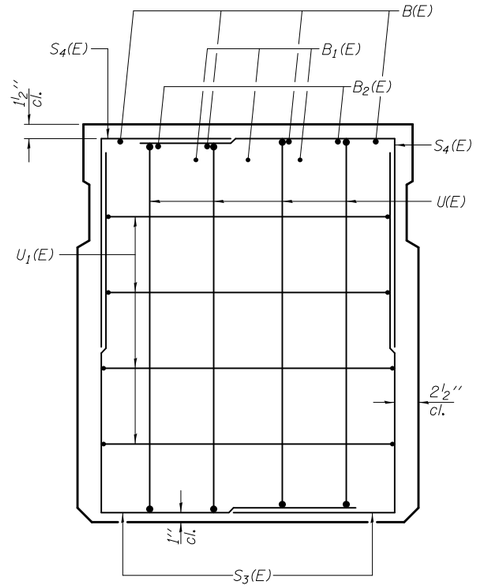
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



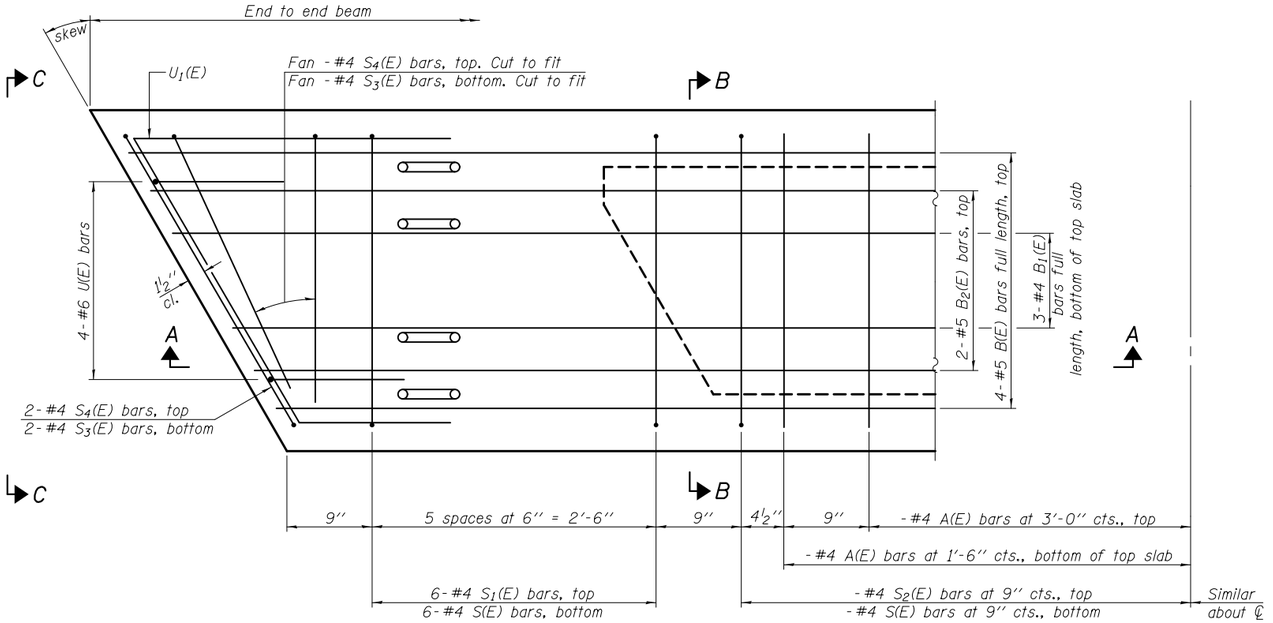
SECTION A-A



SECTION B-B
(Showing dimensions)

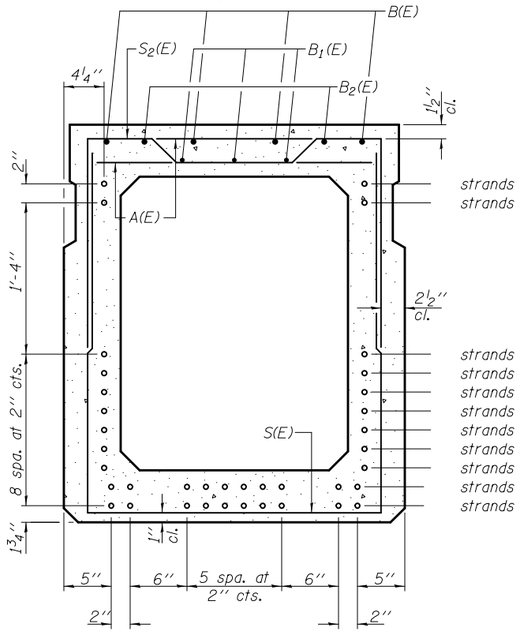


VIEW C-C



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 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)		#4	2′-7″	—
B(E)		#5		—
$B_1(E)$		#4		—
$B_2(E)$		#5	10′-0″	—
S(E)		#4	9′-2″	⊔
$S_1(E)$	12	#4	6′-5″	⊓
$S_2(E)$		#4	6′-8″	⊐
$S_3(E)$		#4		⊔
$S_4(E)$		#4		⊔
U(E)	8	#6	5′-9″	⊏
$U_1(E)$	8	#4		⊏

Note: See sheet of for additional details and Bill of Material.

MINIMUM BAR LAP
#4 bar = 1′-11″
#5 bar = 2′-6″

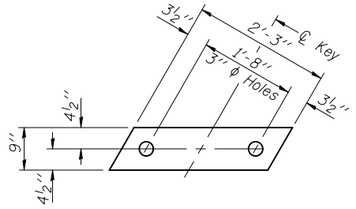
PD-4236-R 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

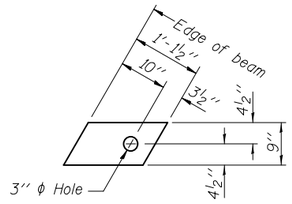
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

42″ x 36″ PPC DECK BEAM
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



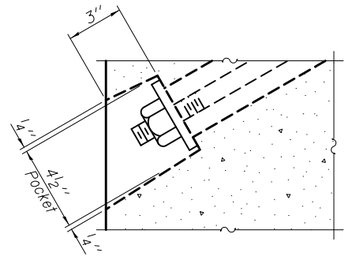
FABRIC BEARING PAD
(Interior)



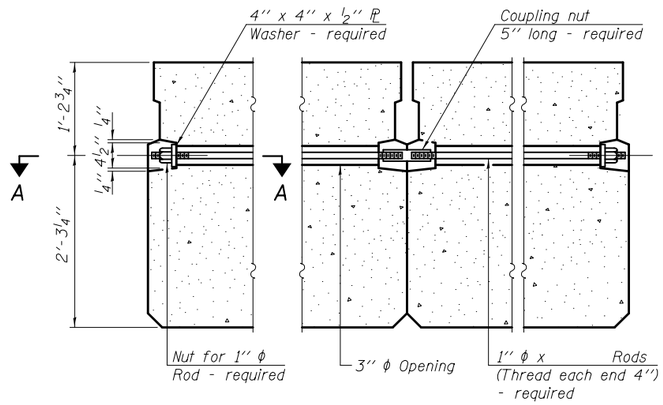
FABRIC BEARING PAD
(Exterior)

FIXED

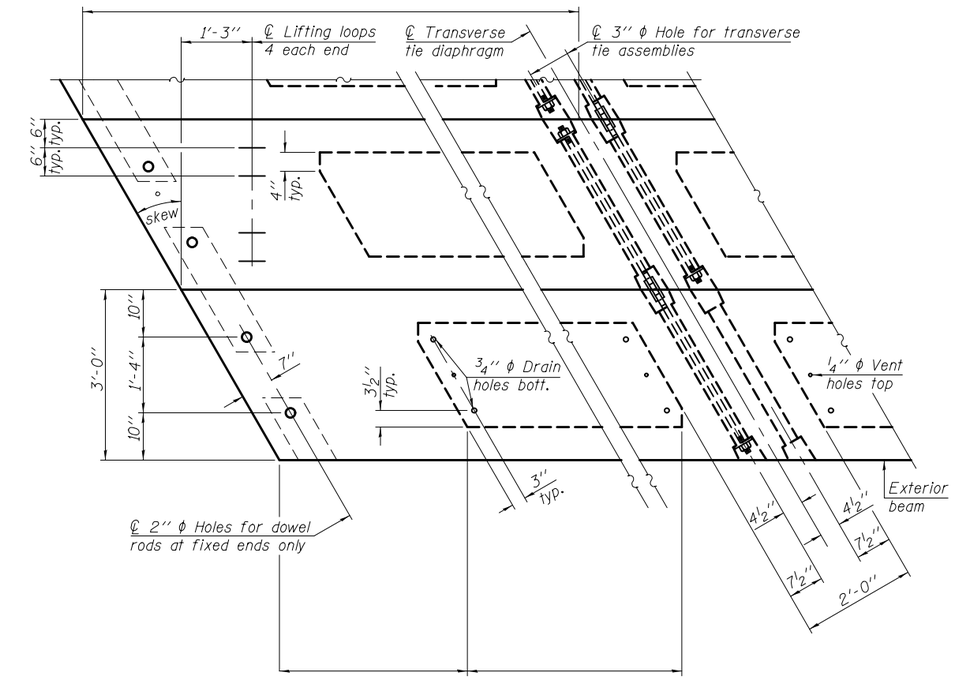
Notes:
All bearing pads shall be 1'' thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

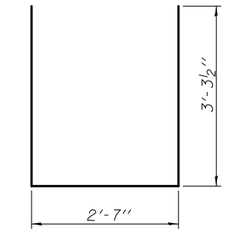


TYPICAL TRANSVERSE TIE ASSEMBLY

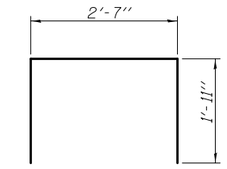


PLAN VIEW

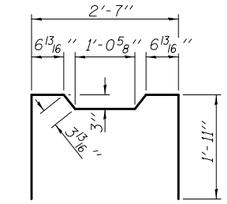
Note: Connect beams in pairs with the transverse tie configuration shown.



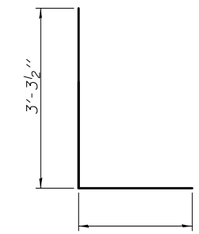
BAR S(E)



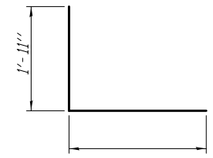
BAR S1(E)



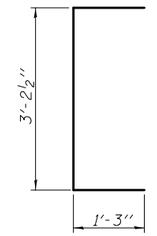
BAR S2(E)



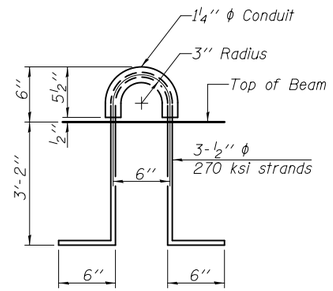
BAR S3(E)



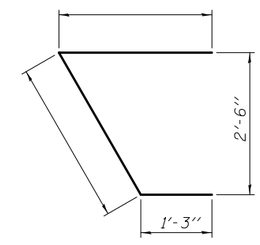
BAR S4(E)



BAR U(E)



LIFTING LOOP DETAIL



BAR U1(E)

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (42'' depth)	Sq. Ft.	

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½'' 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.

Two ⅛'' fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½'' ϕ lifting pin shall be used to engage the lifting loops during handling.

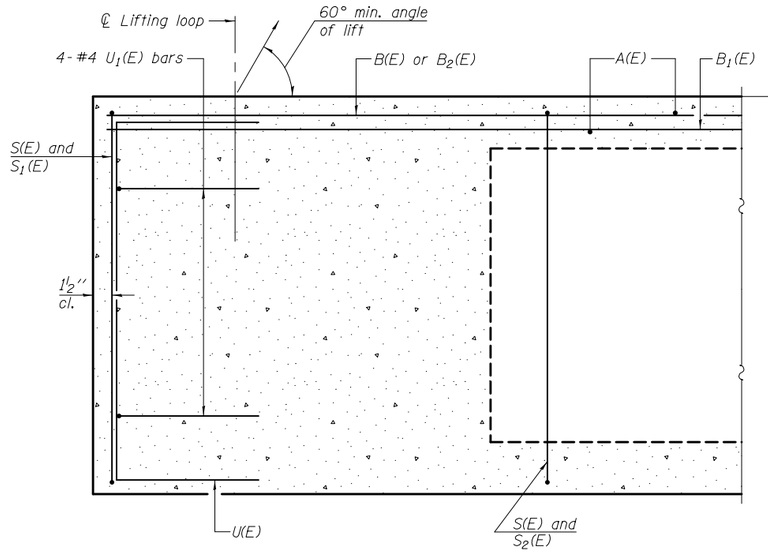
Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

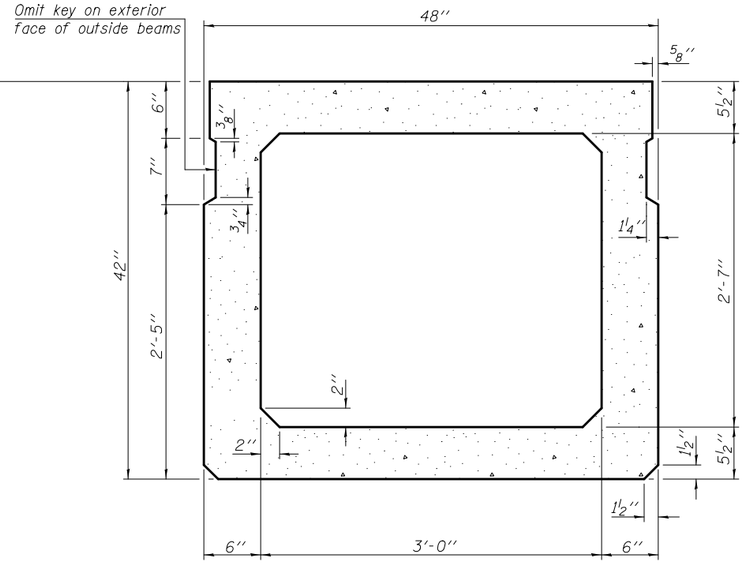
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

PD-4236-RD 1-28-16

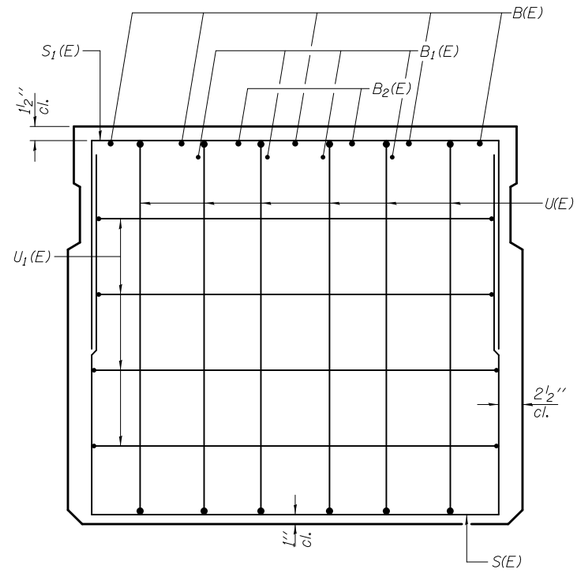
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	42'' x 36'' PPC DECK BEAM DETAILS STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -				
	PLOT SCALE =	DRAWN -	REVISED -				CONTRACT NO.
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT



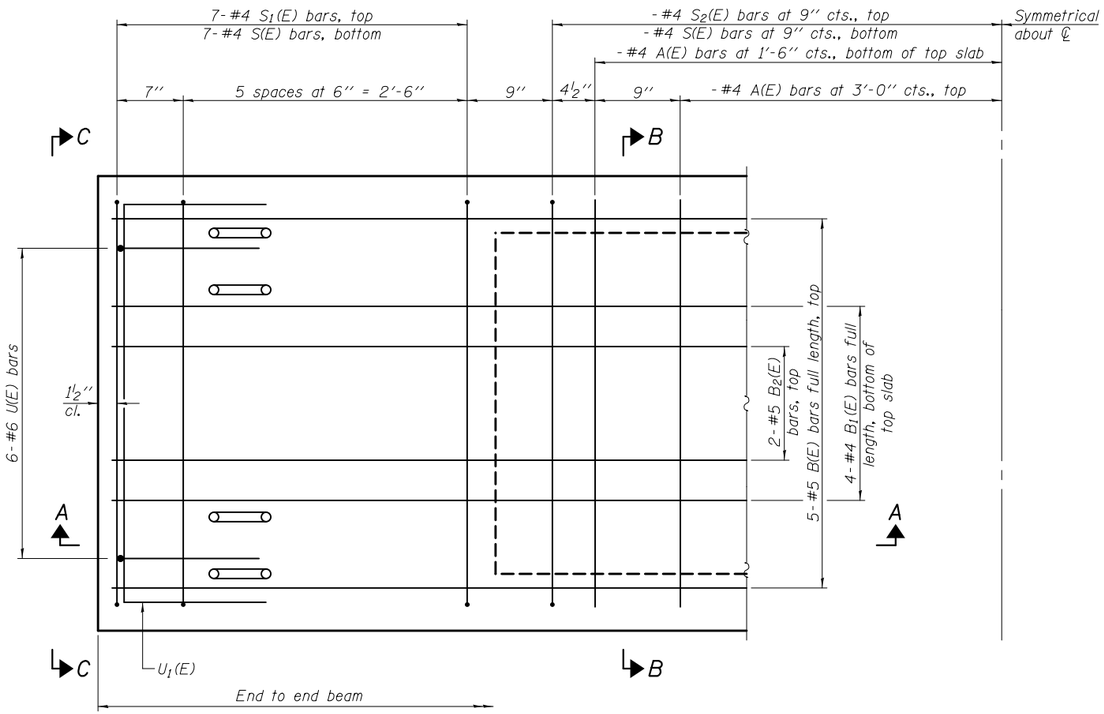
SECTION A-A



SECTION B-B
(Showing dimensions)

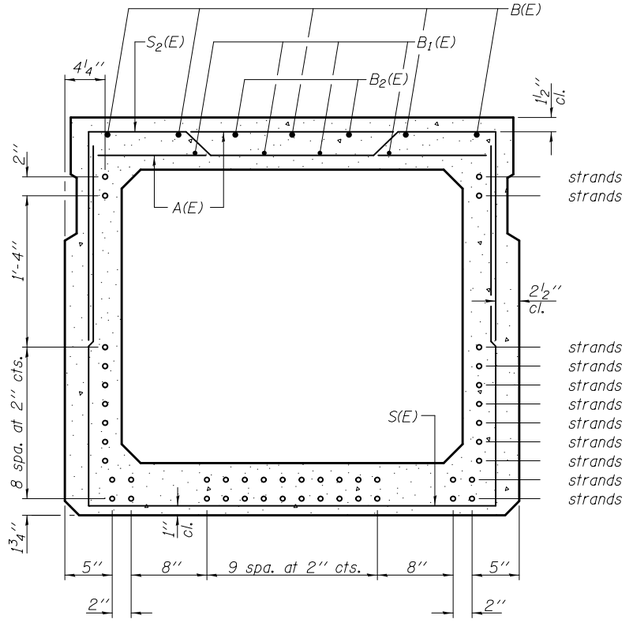


VIEW C-C



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 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.

MINIMUM BAR LAP
#4 bar = 1'-11"
#5 bar = 2'-6"

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)		#4	3'-7"	—
B(E)		#5		—
$B_1(E)$		#4		—
$B_2(E)$		#5	10'-0"	—
S(E)		#4	10'-2"	⊔
$S_1(E)$	14	#4	7'-5"	⊓
$S_2(E)$		#4	7'-8"	⊓
U(E)	12	#6	5'-9"	⊏
$U_1(E)$	8	#4	6'-0"	⊓

Note: See sheet of for additional details and Bill of Material.

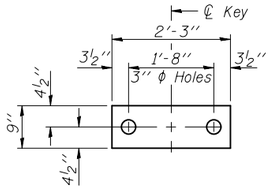
PD-4248-0 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

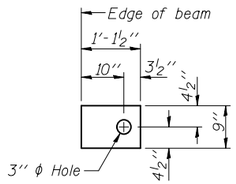
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

42" x 48" PPC DECK BEAM
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



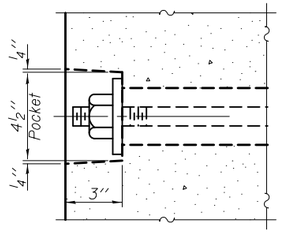
FABRIC BEARING PAD
(Interior)



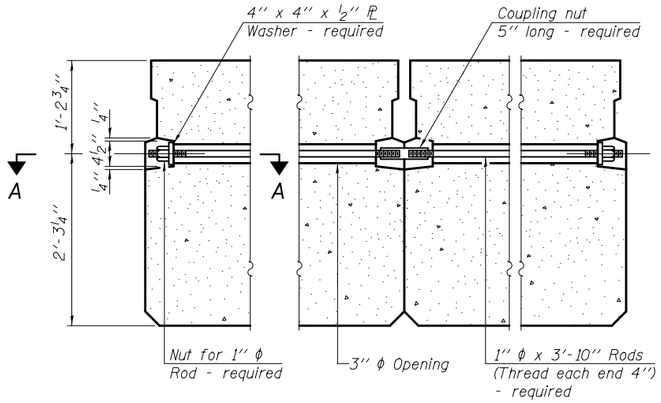
FABRIC BEARING PAD
(Exterior)

FIXED

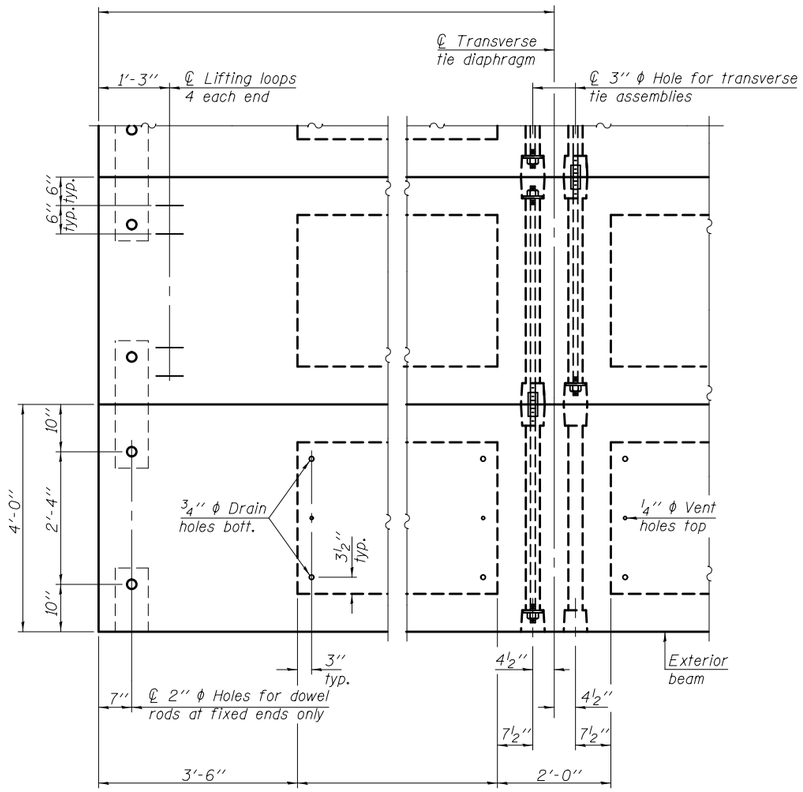
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

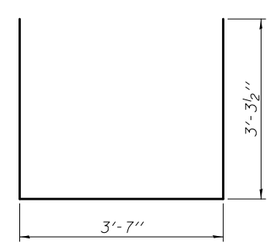


TYPICAL TRANSVERSE TIE ASSEMBLY

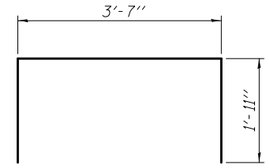


PLAN VIEW

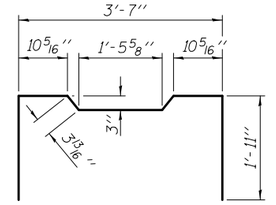
Note: Connect beams in pairs with the transverse tie configuration shown.



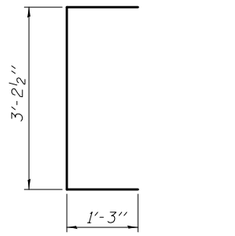
BAR S(E)



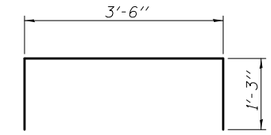
BAR S1(E)



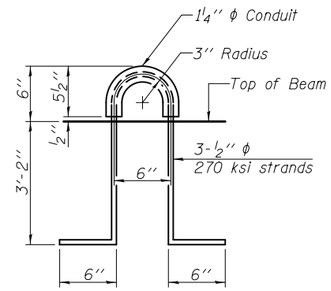
BAR S2(E)



BAR U(E)



BAR U1(E)



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (42" depth)	Sq. Ft.	

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

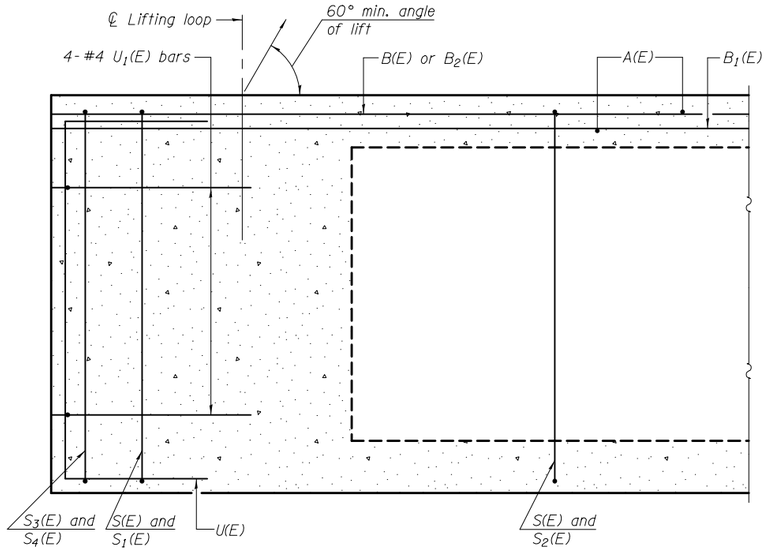
Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

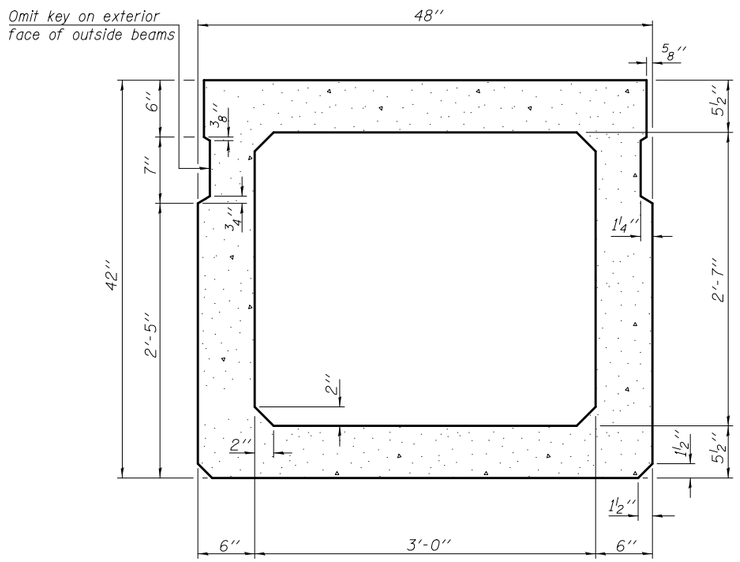
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

PD-4248-0D 1-28-16

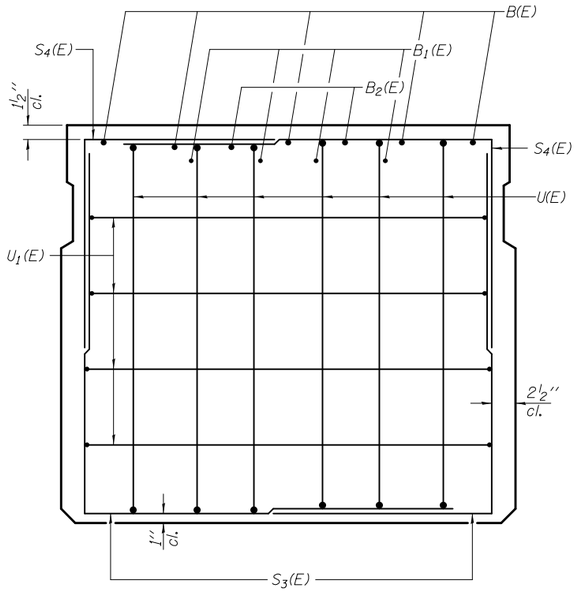
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	42" x 48" PPC DECK BEAM DETAILS STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -							
	PLOT SCALE =	DRAWN -	REVISED -					CONTRACT NO.		
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS	FED. AID PROJECT		



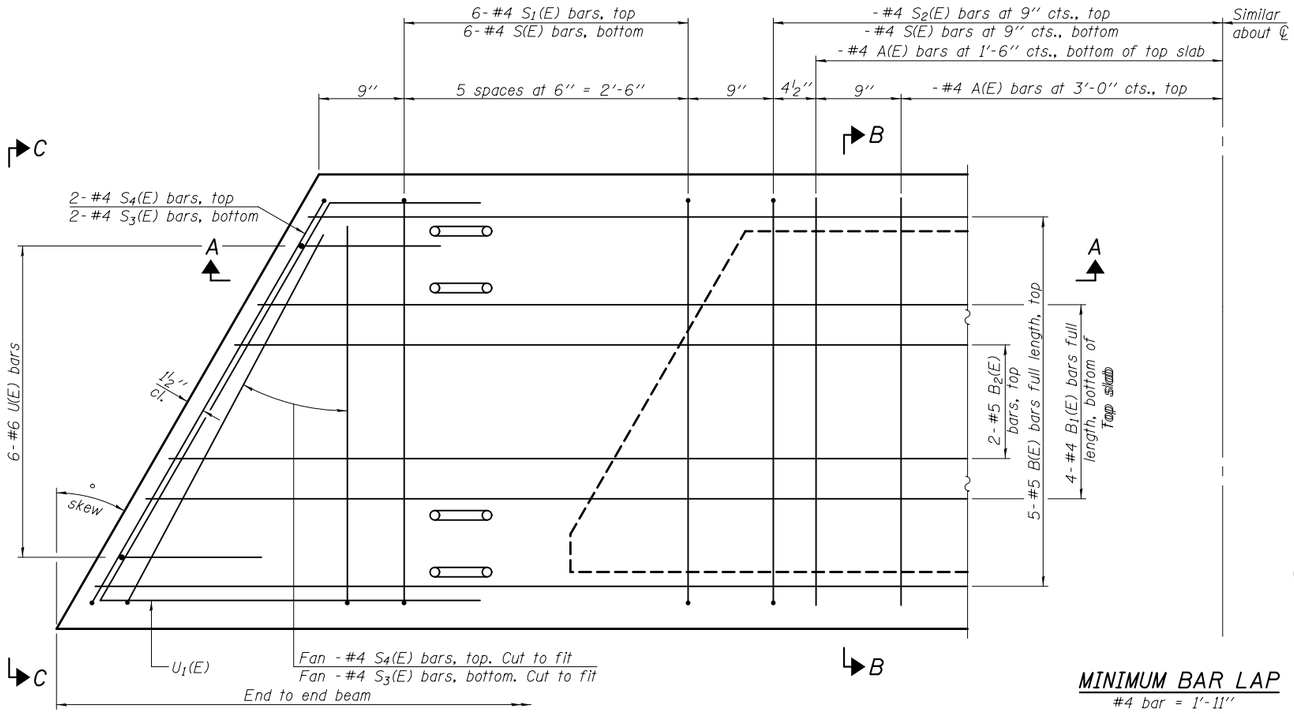
SECTION A-A



SECTION B-B
(Showing dimensions)



VIEW C-C

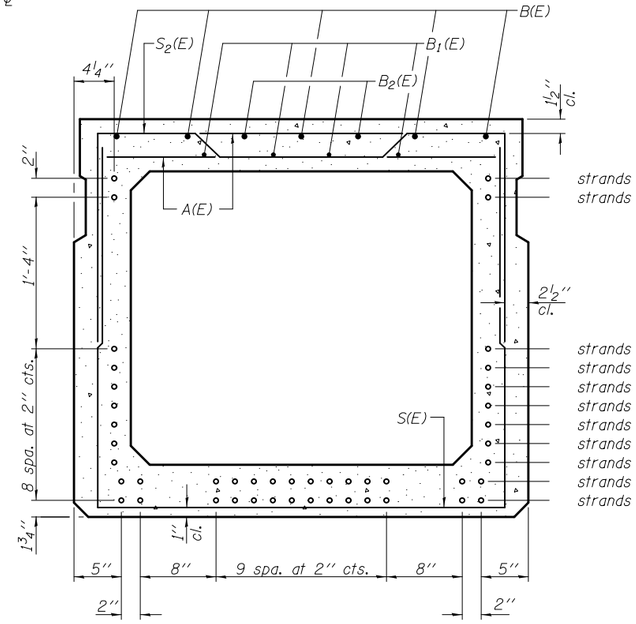


PLAN VIEW

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.

MINIMUM BAR LAP

#4 bar = 1′-11″
#5 bar = 2′-6″



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)		#4	3′-7″	—
B(E)		#5		—
$B_1(E)$		#4		—
$B_2(E)$		#5	10′-0″	—
S(E)		#4	10′-2″	⌊
$S_1(E)$	12	#4	7′-5″	⌐
$S_2(E)$		#4	7′-8″	⌐
$S_3(E)$		#4		⌊
$S_4(E)$		#4		⌊
U(E)	12	#6	5′-9″	⊏
$U_1(E)$	8	#4		⊏

Note: See sheet of for additional details and Bill of Material.

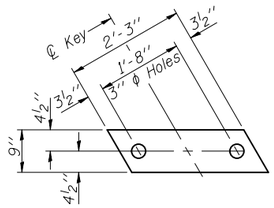
PD-4248-L 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

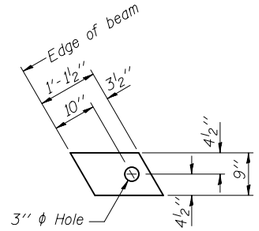
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

42″ x 48″ PPC DECK BEAM
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



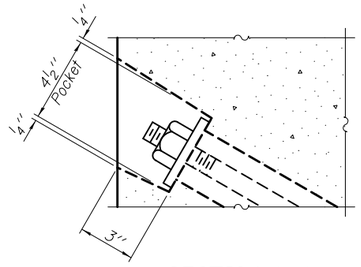
FABRIC BEARING PAD
(Interior)



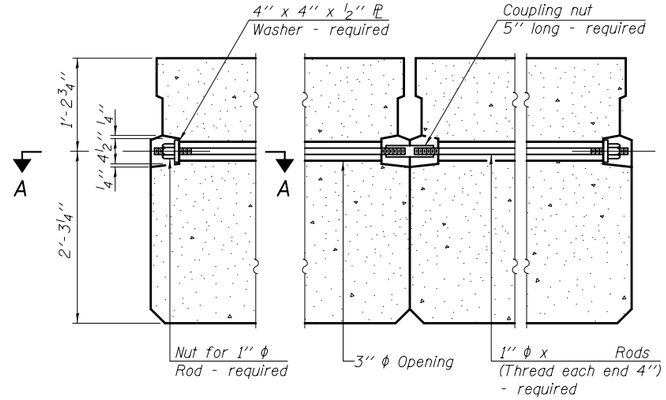
FABRIC BEARING PAD
(Exterior)

FIXED

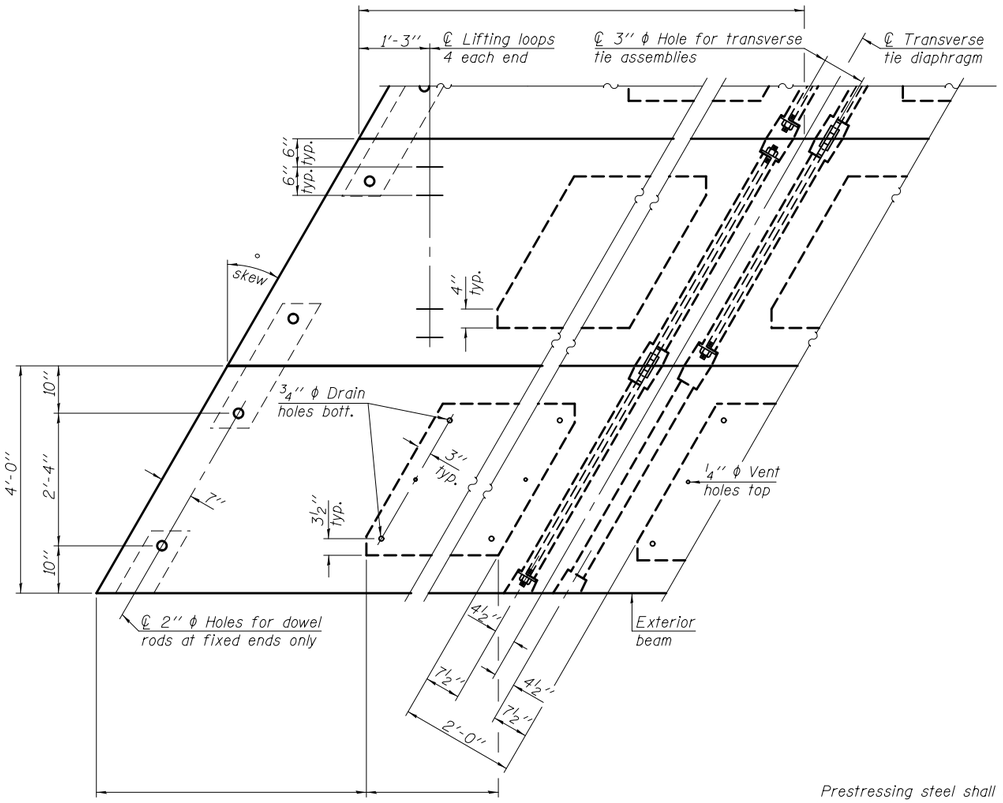
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

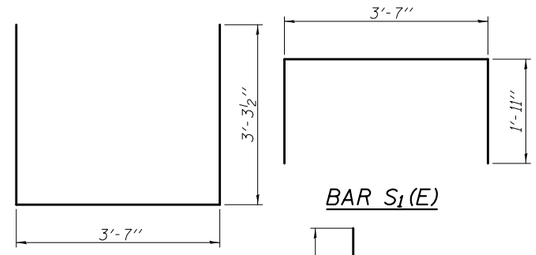


TYPICAL TRANSVERSE TIE ASSEMBLY

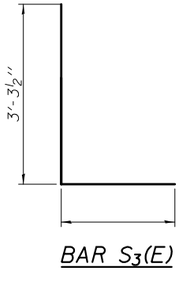


PLAN VIEW

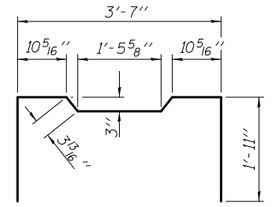
Note: Connect beams in pairs with the transverse tie configuration shown.



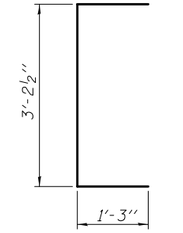
BAR S(E)



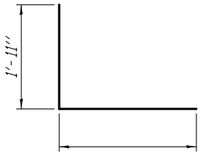
BAR S1(E)



BAR S3(E)

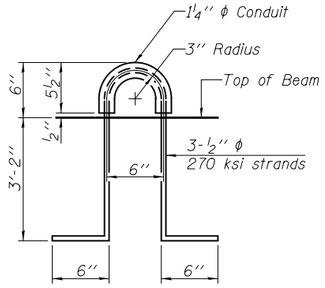


BAR S2(E)

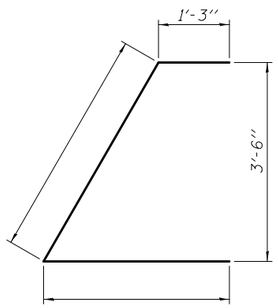


BAR S4(E)

BAR U(E)



LIFTING LOOP DETAIL



BAR U1(E)

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (42" depth)	Sq. Ft.	

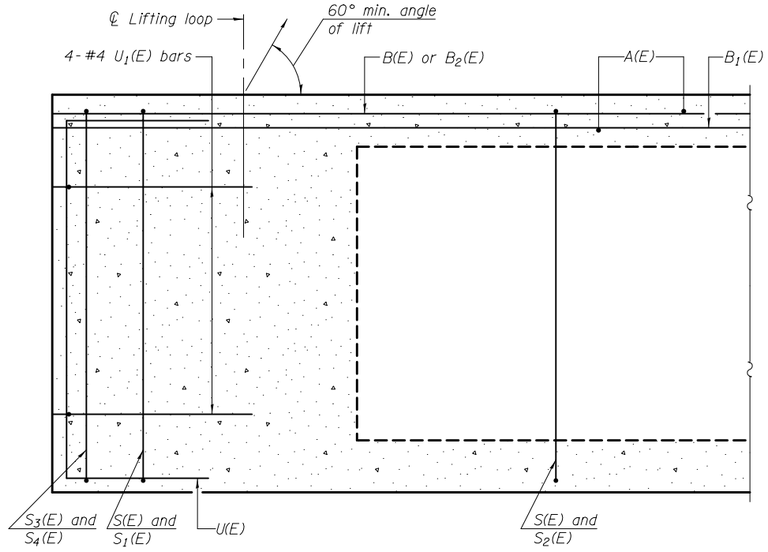
PD-4248-LD 1-28-16

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

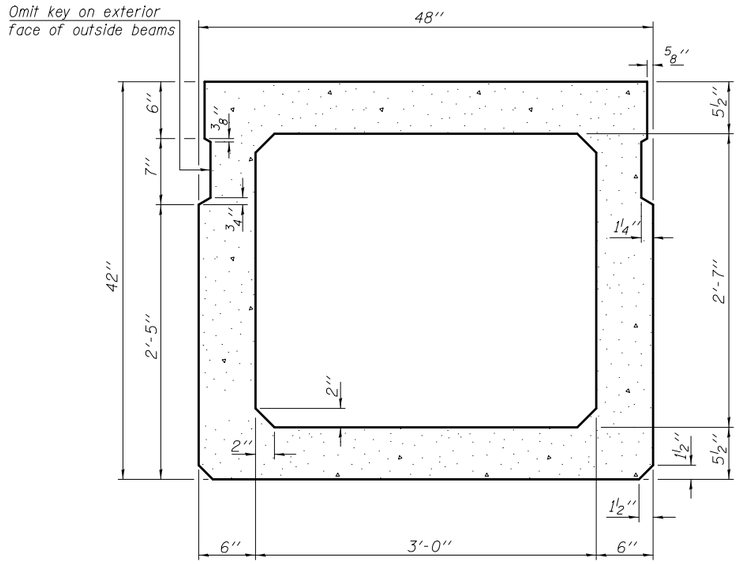
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

42" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO.

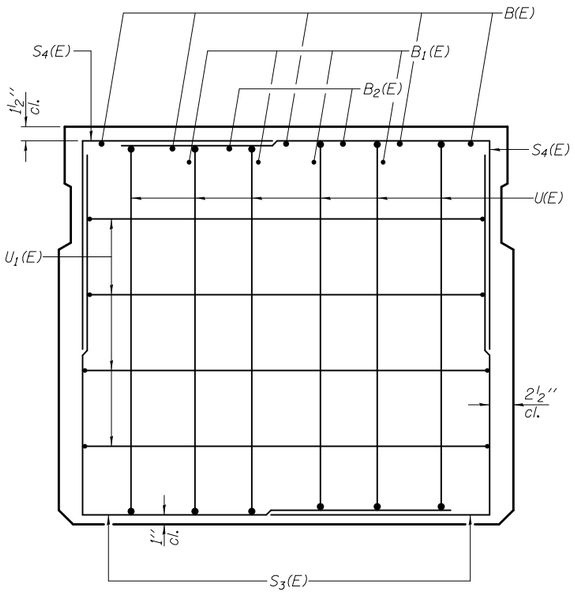
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



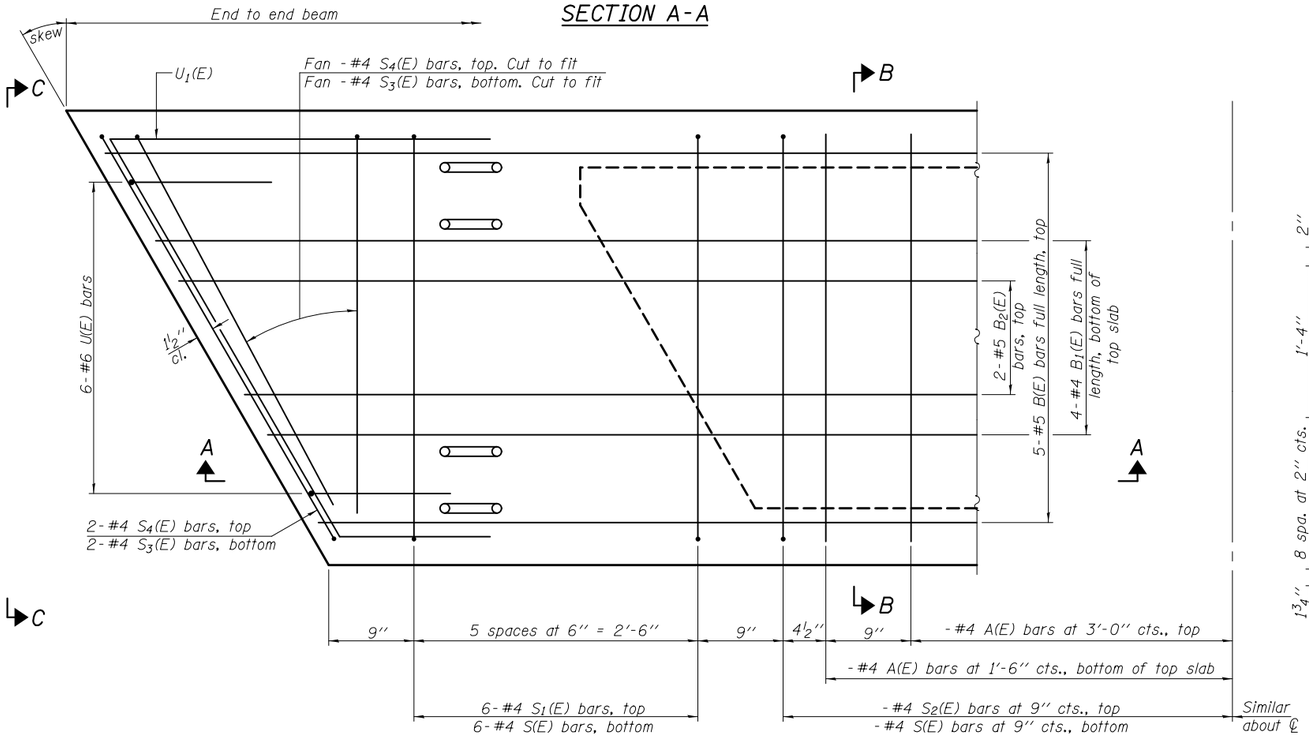
SECTION A-A



SECTION B-B
(Showing dimensions)



VIEW C-C



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 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)

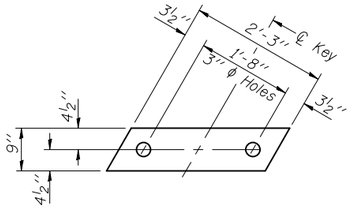
Bar	No.	Size	Length	Shape
A(E)		#4	3′-7″	—
B(E)		#5		—
$B_1(E)$		#4		—
$B_2(E)$		#5	10′-0″	—
S(E)		#4	10′-2″	⊔
$S_1(E)$	12	#4	7′-5″	⊐⊏
$S_2(E)$		#4	7′-8″	⊐⊏
$S_3(E)$		#4		⊔
$S_4(E)$		#4		⊔
U(E)	12	#6	5′-9″	⊏⊐
$U_1(E)$	8	#4		⊏⊐

Note: See sheet of for additional details and Bill of Material.

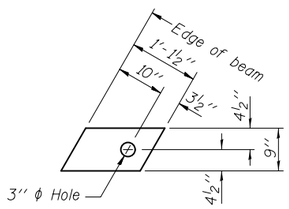
MINIMUM BAR LAP
#4 bar = 1′-11″
#5 bar = 2′-6″

PD-4248-R 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	42″ x 48″ PPC DECK BEAM STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -				
	PLOT SCALE =	DRAWN -	REVISED -				CONTRACT NO.
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT



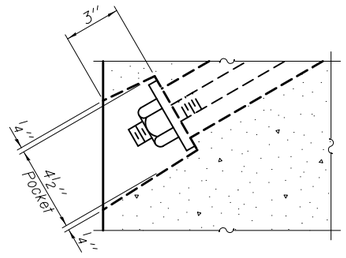
FABRIC BEARING PAD
(Interior)



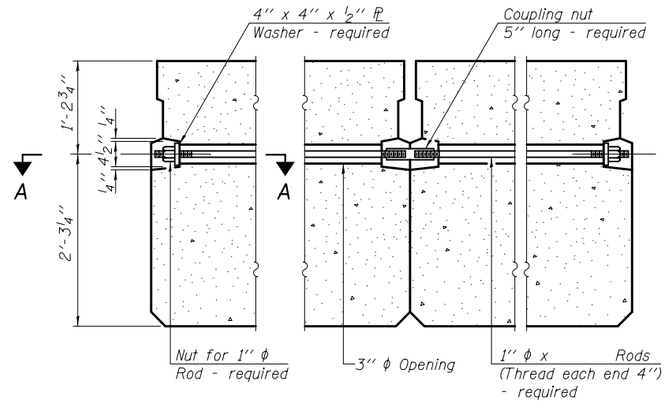
FABRIC BEARING PAD
(Exterior)

FIXED

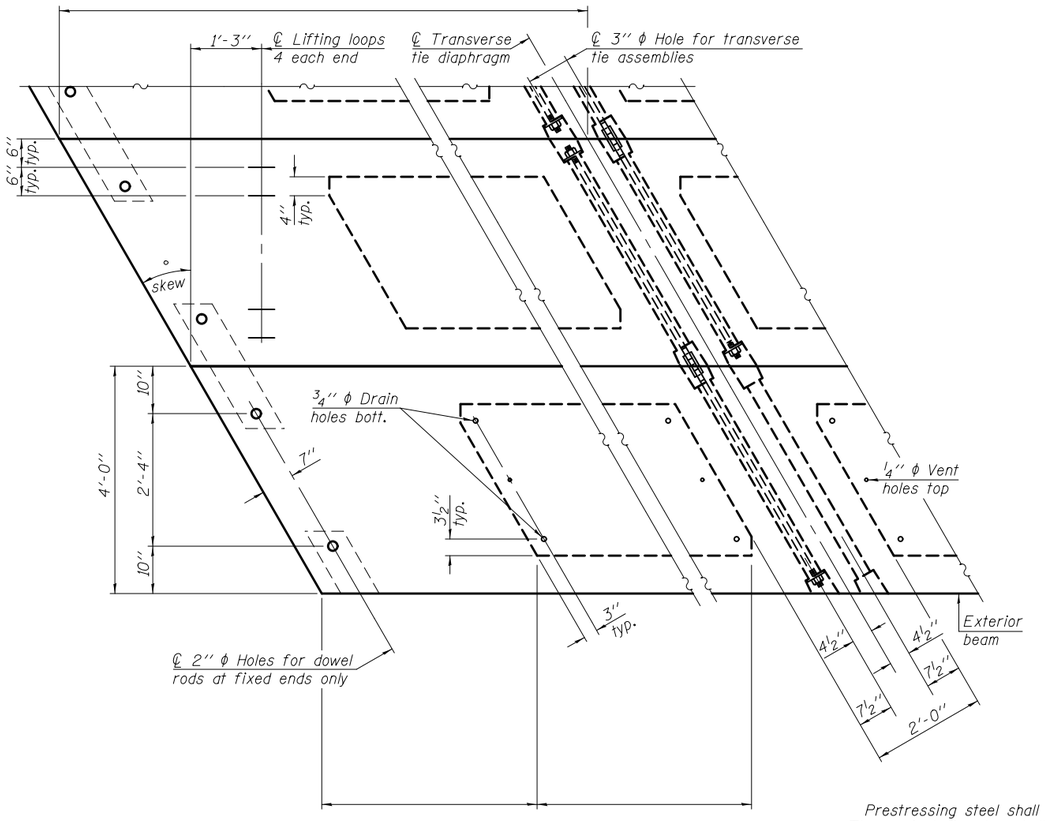
Notes:
All bearing pads shall be 1'' thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY

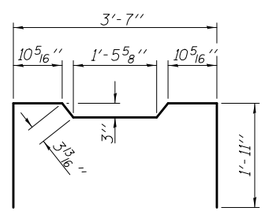


PLAN VIEW

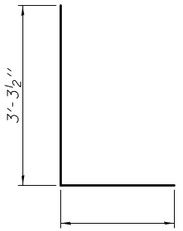
Note: Connect beams in pairs with the transverse tie configuration shown.

BAR S1(E)

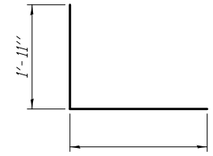
BAR S(E)



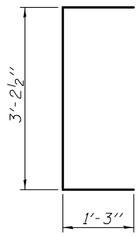
BAR S2(E)



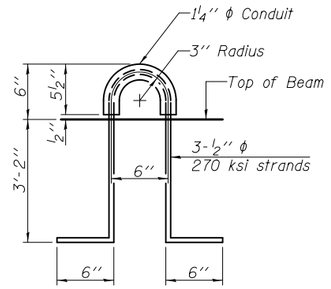
BAR S3(E)



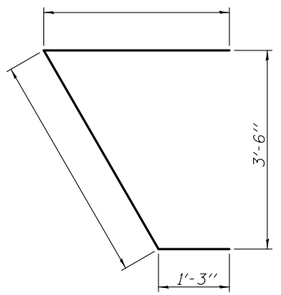
BAR S4(E)



BAR U(E)



LIFTING LOOP DETAIL



BAR U1(E)

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½'' 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.

Two ⅛'' fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½'' ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

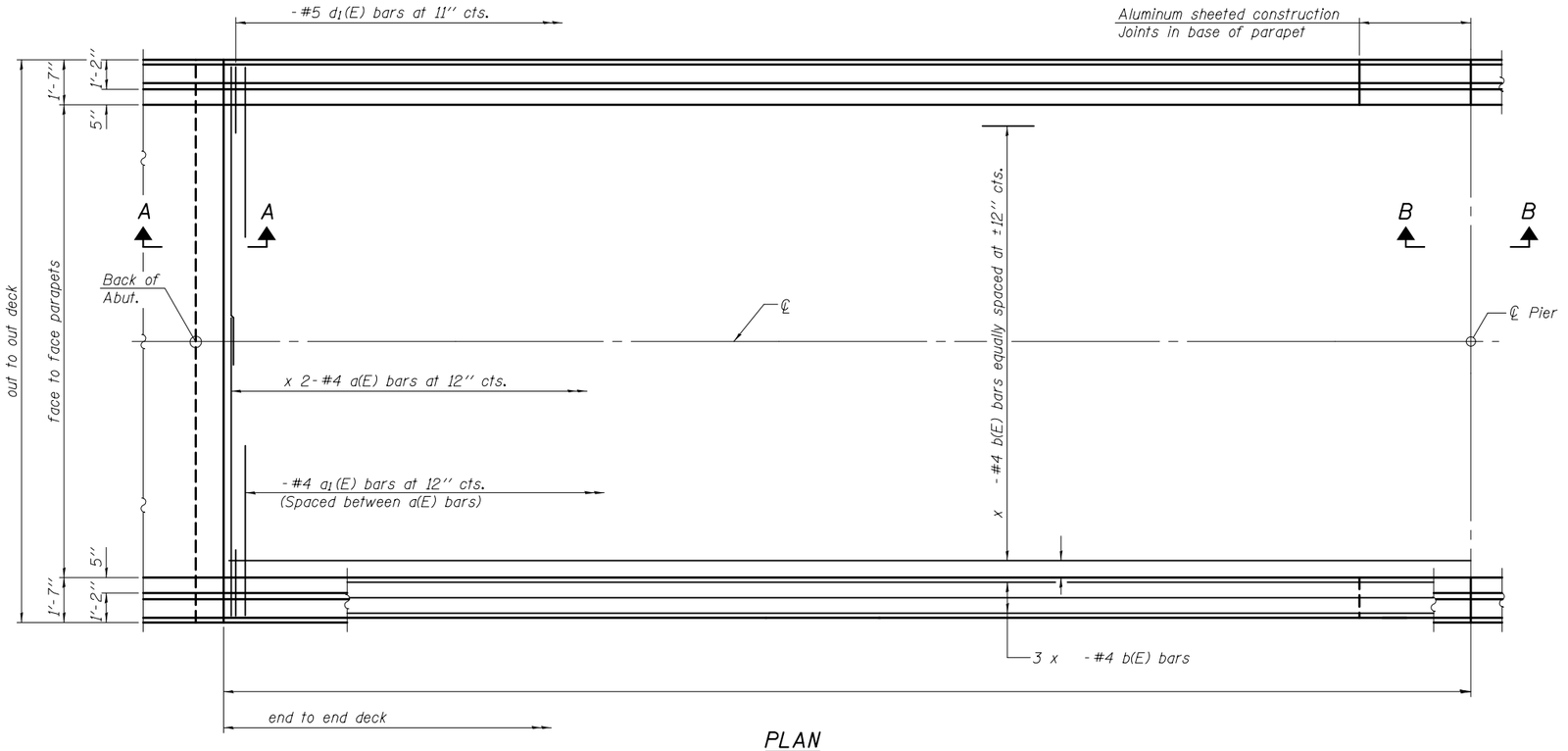
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

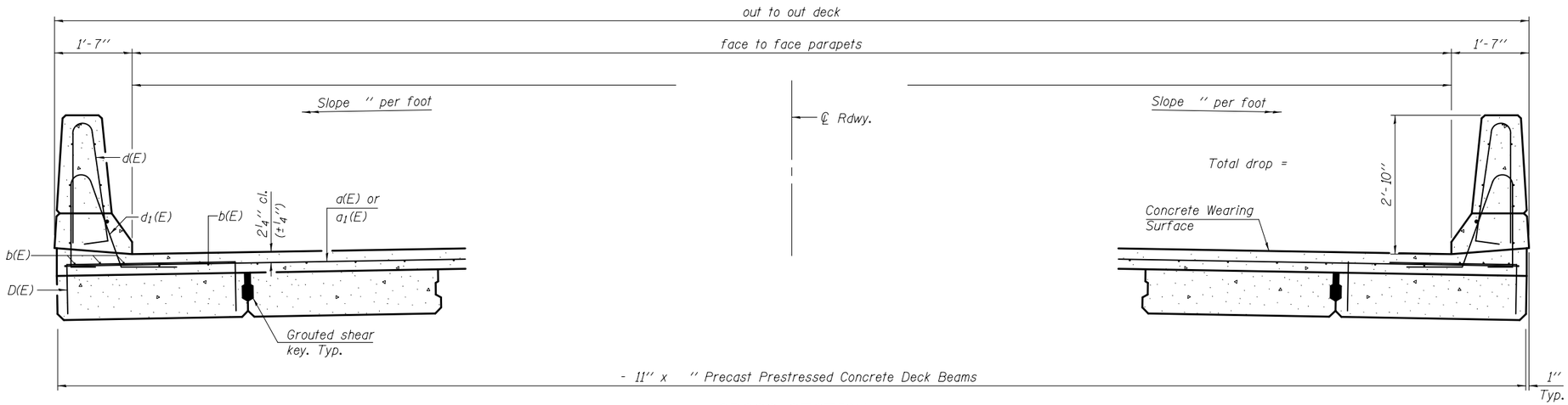
Precast Prestressed Conc. Deck Bms. (42'' depth)	Sq. Ft.	

PD-4248-RD 1-28-16

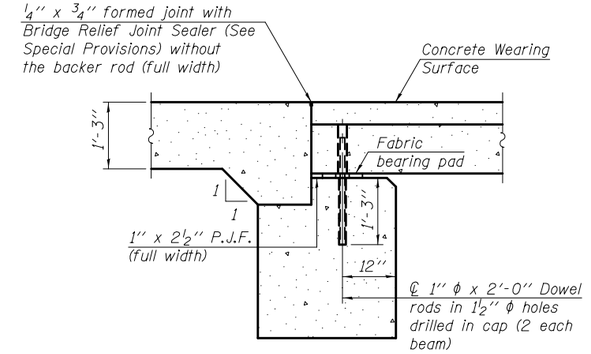
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	42'' x 48'' PPC DECK BEAM DETAILS STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -				
	PLOT SCALE =	DRAWN -	REVISED -				CONTRACT NO.
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT



PLAN

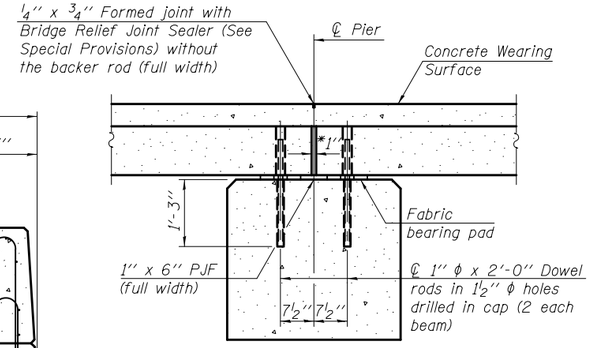


CROSS SECTION
(Looking)



SECTION A-A

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet of for fabric bearing pad details.



SECTION B-B

*1'' Jt. shall be filled with non-shrink grout. 1'' dimension may vary to accommodate tolerance in beam lengths.

Notes:
See sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.

MINIMUM BAR LAP
#4 bar = 2'-2''

PDS-11-M-F-0 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -							
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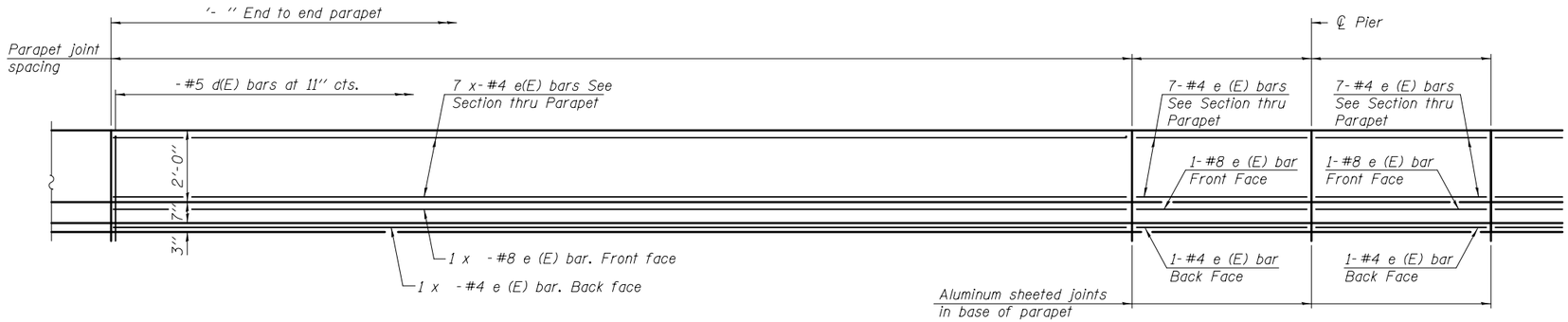
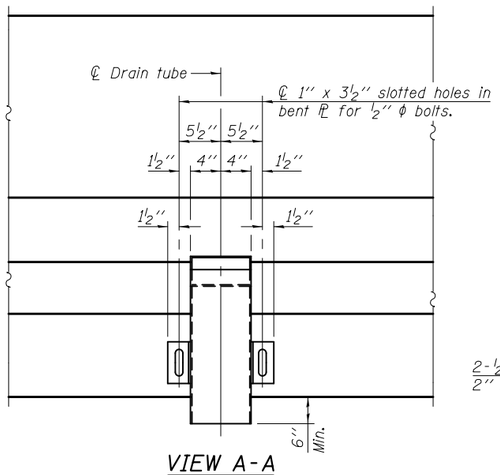
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS	FED. AID PROJECT		



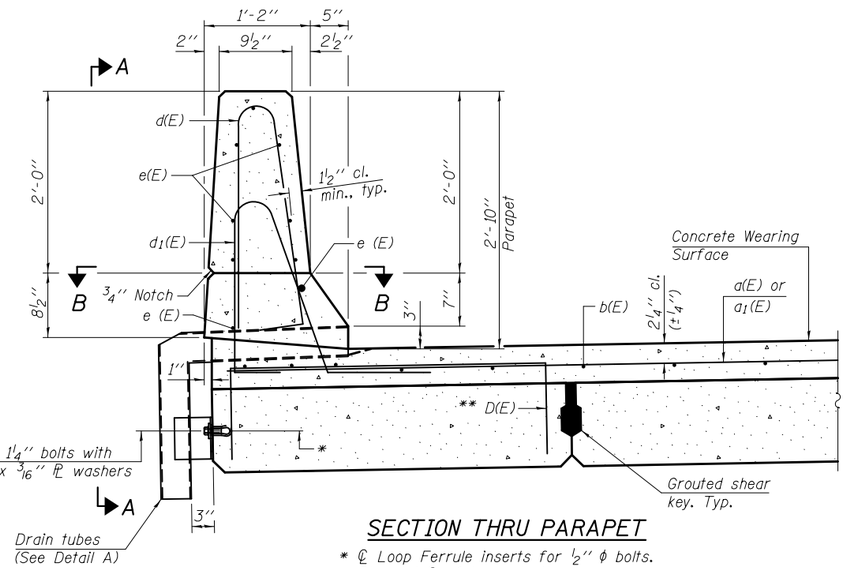
MINIMUM BAR LAP

(Parapet)
#4 bar = 2'-8''
#8 bar = 5'-11''

INSIDE ELEVATION OF PARAPET



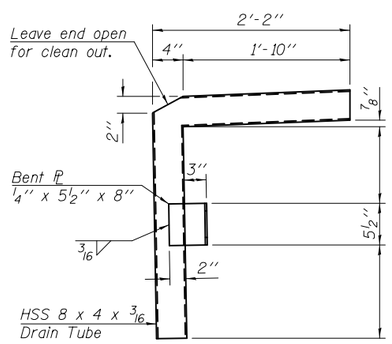
VIEW A-A



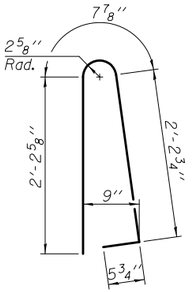
SECTION THRU PARAPET

* ℄ Loop Ferrule inserts for ½'' ϕ bolts. Place at ℄ of beam depth.

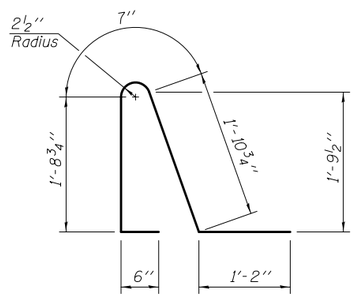
** Place #4 D(E) bars at 9'' cts. in fascia beam. D(E) bar included in cost of beam.



DETAIL A

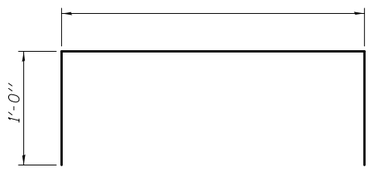


BAR d(E)

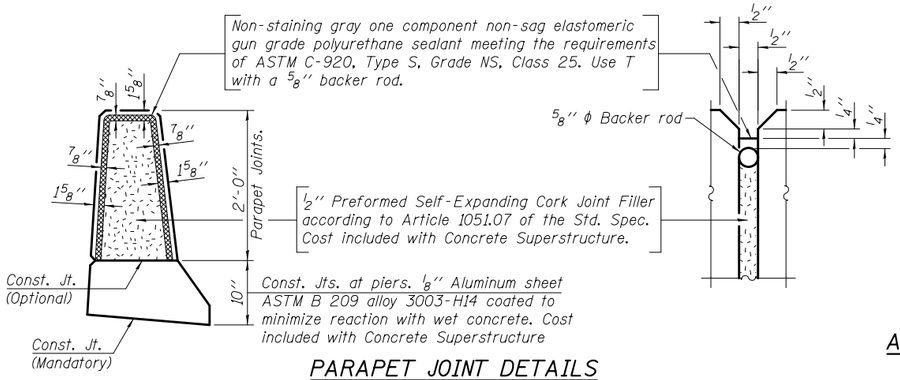


BAR d_1(E)

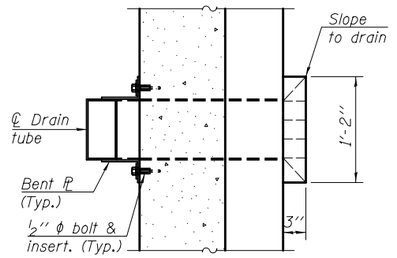
Note:
All drain tubes and accessories shall be galvanized according to AASHTO M111 or M232. (as applicable).
The cost of the drain tube assemblies and everything necessary for their installation is included with Concrete Superstructure.



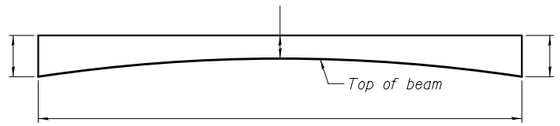
BAR D(E)



PARAPET JOINT DETAILS



SECTION B-B



ANTICIPATED CONCRETE WEARING SURFACE PROFILE

(For information only)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)		#4		
a_1(E)		#4	6'-0''	
b(E)		#4		
d(E)		#5	5'-7''	
d_1(E)		#5	5'-11''	
e(E)		#4		
e (E)		#8		
e (E)		#4		
e (E)		#8		
e (E)		#4		
Reinforcement Bars, Epoxy Coated			Pound	
Concrete Superstructure			Cu. Yd.	
Concrete Wearing Surface, 5''			Sq. Yd.	

Bars indicated thus 1 x -#4 etc. indicates 1 line of bars with lengths per line.

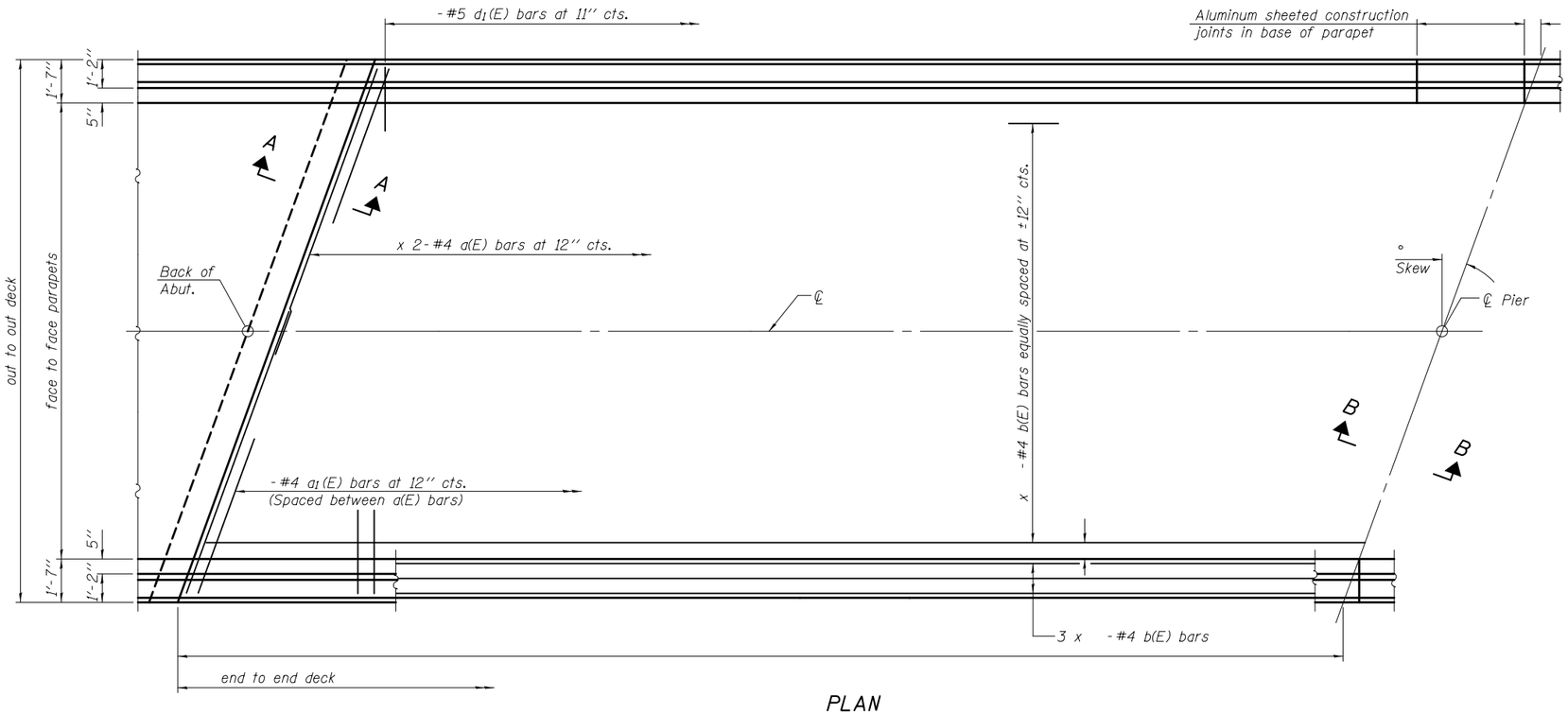
PDS-11-M-F-D 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

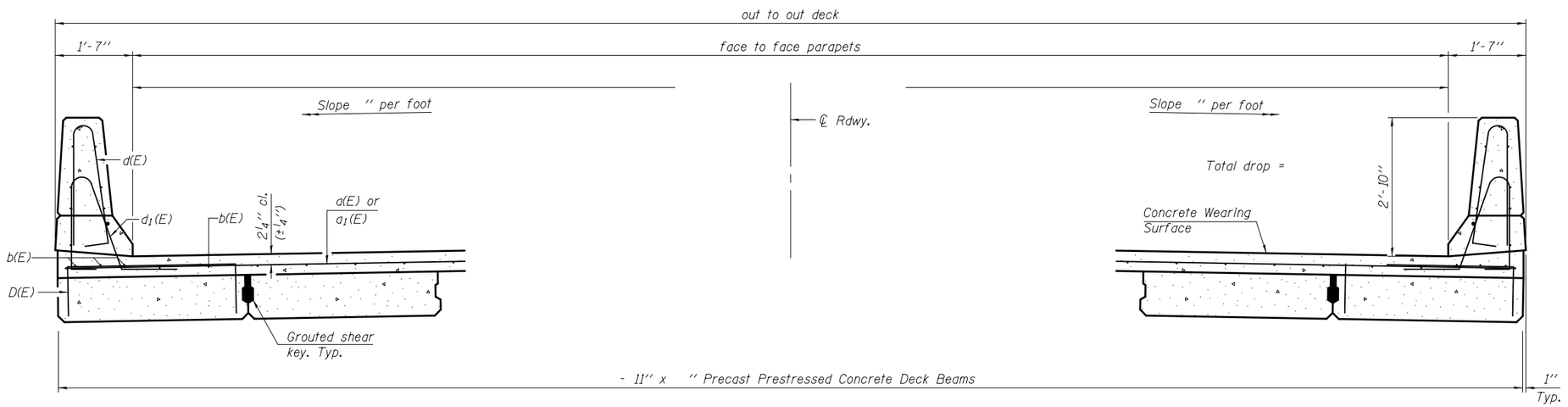
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

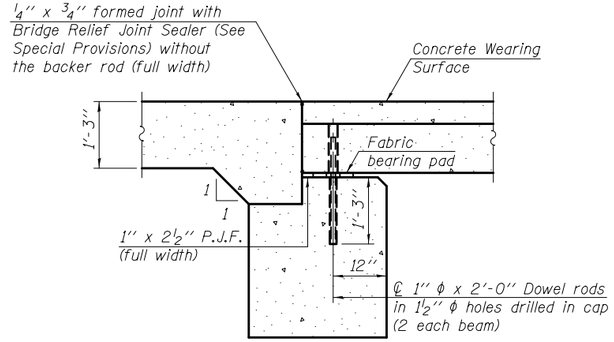


PLAN



CROSS SECTION

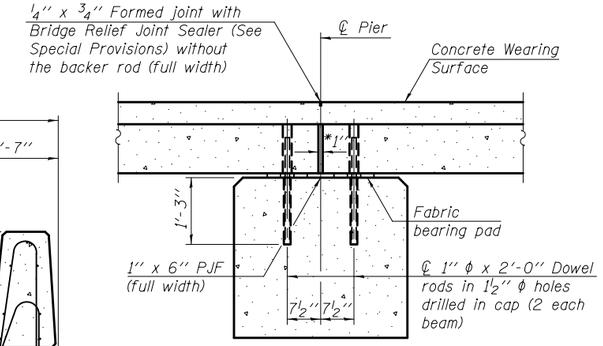
(Looking)



SECTION A-A

(Dimensions are at Rt. L's)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet of for fabric bearing pad details.



SECTION B-B

(Dimensions are at Rt. L's)

*1'' Jt. shall be filled with non-shrink grout. 1'' dimension may vary to accommodate tolerance in beam lengths.

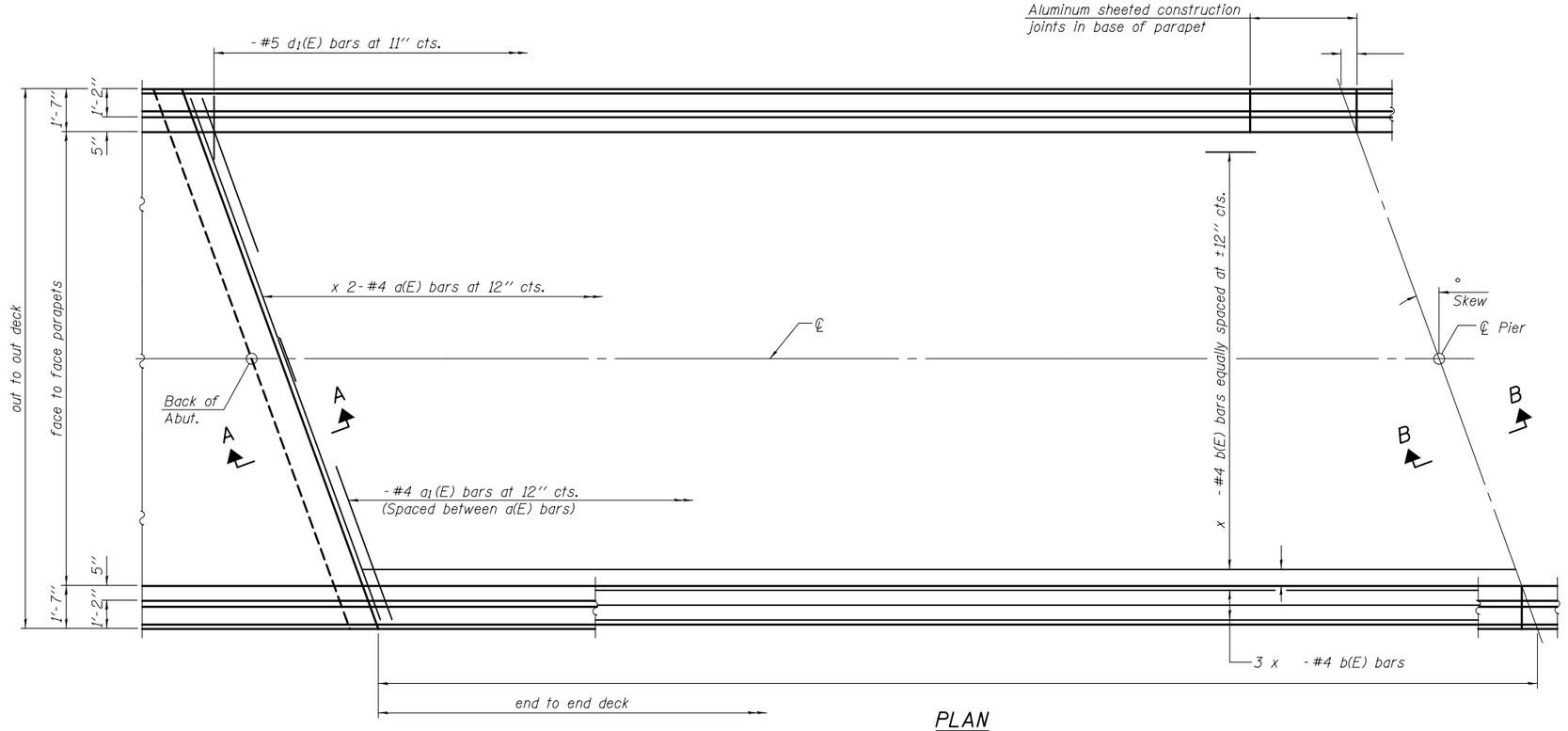
Notes:
See sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.
Spacing of a(E) and a_1(E) bars shall be measured along the ℄ of structure.

MINIMUM BAR LAP

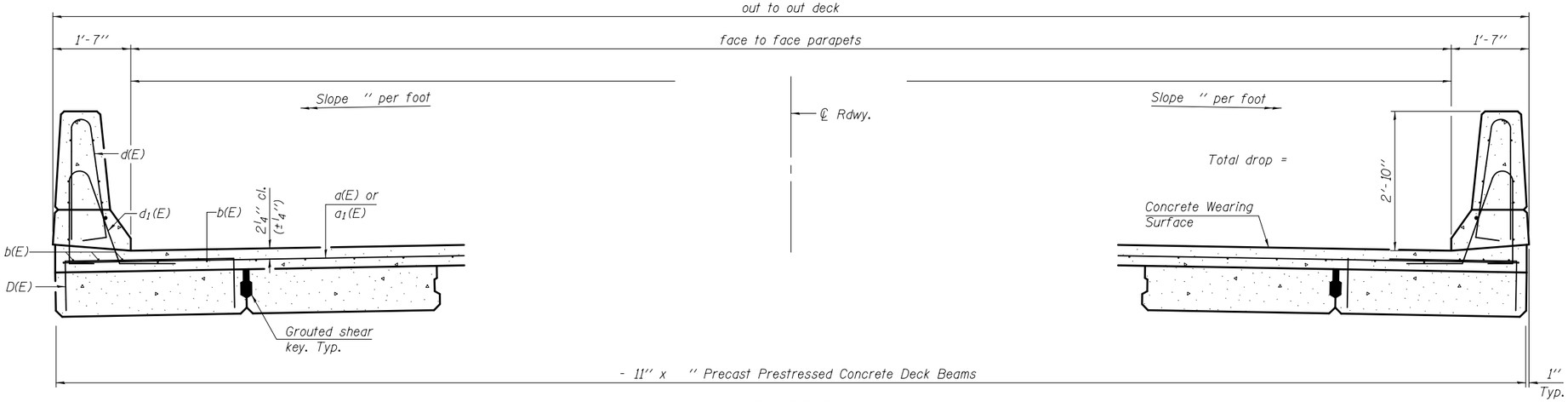
#4 bar = 2'-2''

PDS-11-M-F-L 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -				
	PLOT SCALE =	DRAWN -	REVISED -				CONTRACT NO.
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT



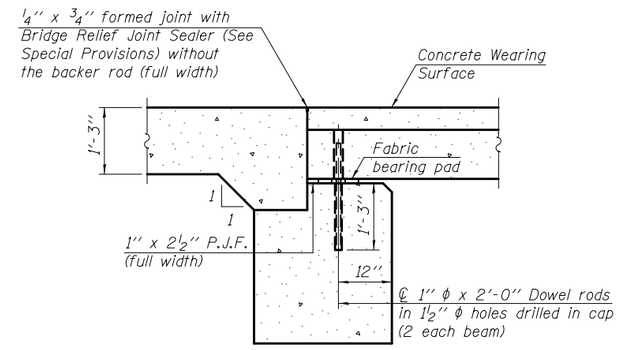
PLAN



CROSS SECTION

(Looking)

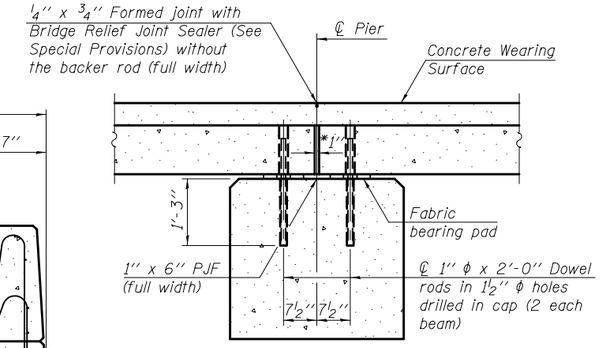
Notes:
See sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.
Spacing of a(E) and a_1(E) bars shall be measured along the ℄ of structure.



SECTION A-A

(Dimensions are at Rt. L's)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet of for fabric bearing pad details.



SECTION B-B

(Dimensions are at Rt. L's)

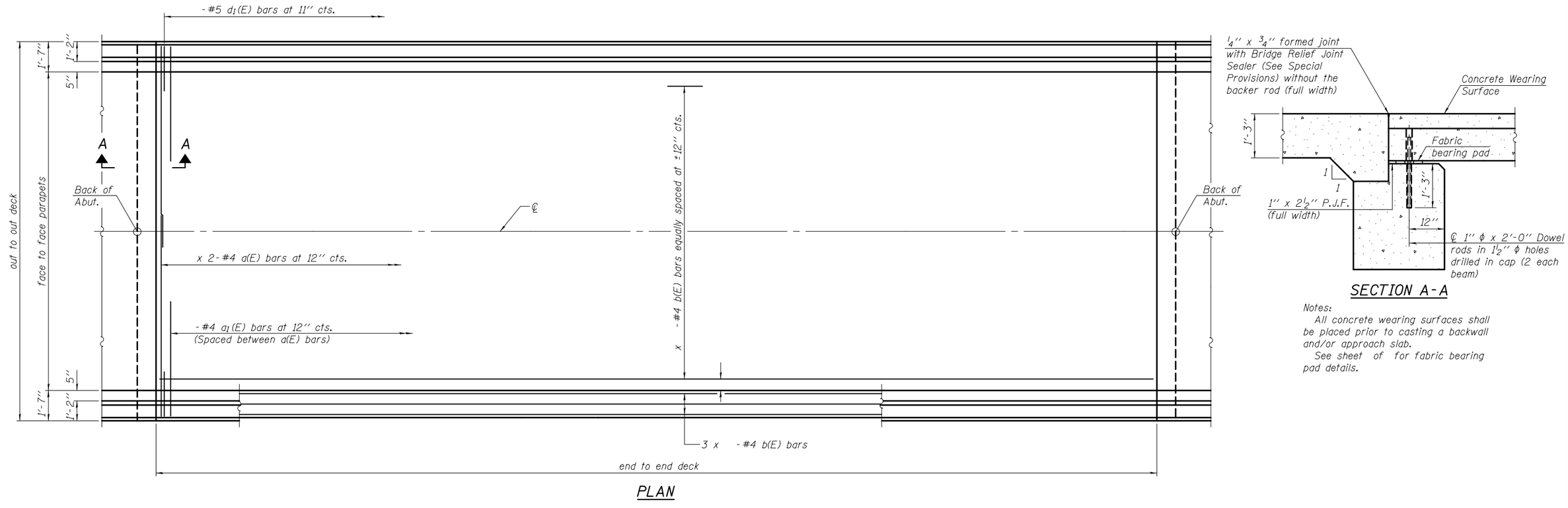
*1'' Jt. shall be filled with non-shrink grout. 1'' dimension may vary to accommodate tolerance in beam lengths.

MINIMUM BAR LAP

#4 bar = 2'-2''

PDS-11-M-F-R 6-8-15

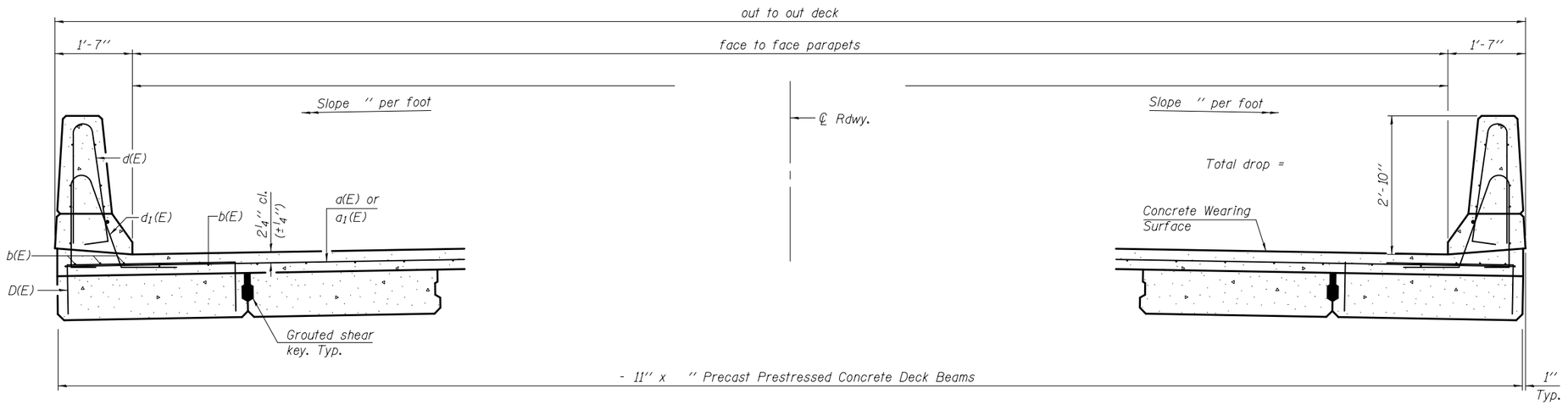
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -				
	PLOT SCALE =	DRAWN -	REVISED -				CONTRACT NO.
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT



PLAN

SECTION A-A

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet of for fabric bearing pad details.



CROSS SECTION
(Looking)

Notes:
See sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2 - #4 etc. indicates 20 lines of bars with 2 lengths per line.

MINIMUM BAR LAP
#4 bar = 2'-2''

PDS-11-S-F-0 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
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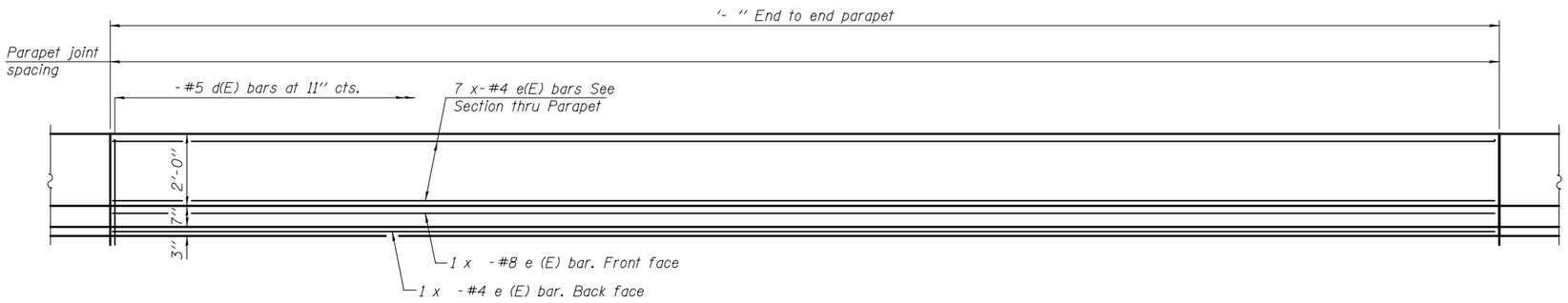
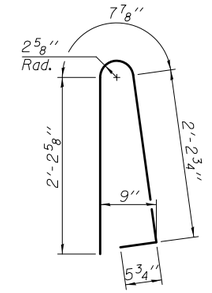
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



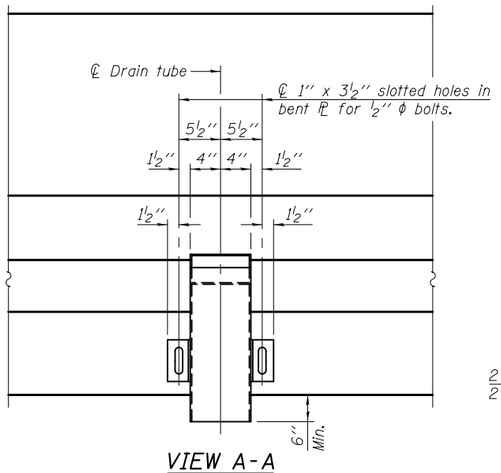
INSIDE ELEVATION OF PARAPET



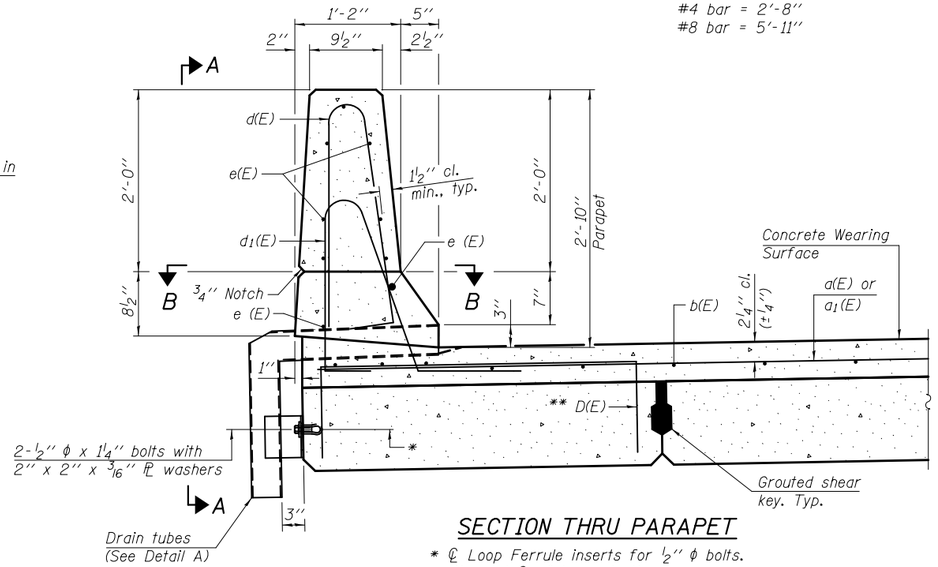
BAR d(E)

MINIMUM BAR LAP

(Parapet)
#4 bar = 2'-8''
#8 bar = 5'-11''



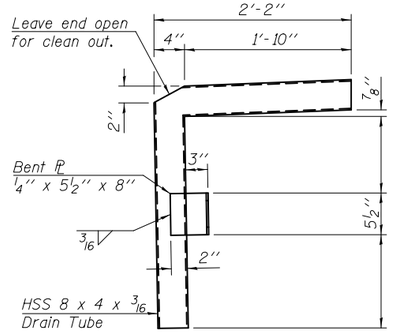
VIEW A-A



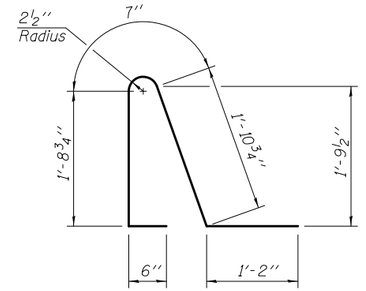
SECTION THRU PARAPET

* ℄ Loop Ferrule inserts for 1/2'' ϕ bolts. Place at ℄ of beam depth.

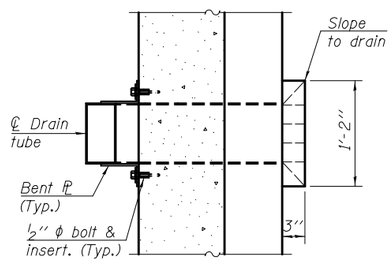
** Place #4 D(E) bars at 9'' cts. in fascia beam. D(E) bar included in cost of beam.



DETAIL A

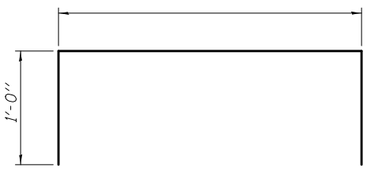


BAR d1(E)

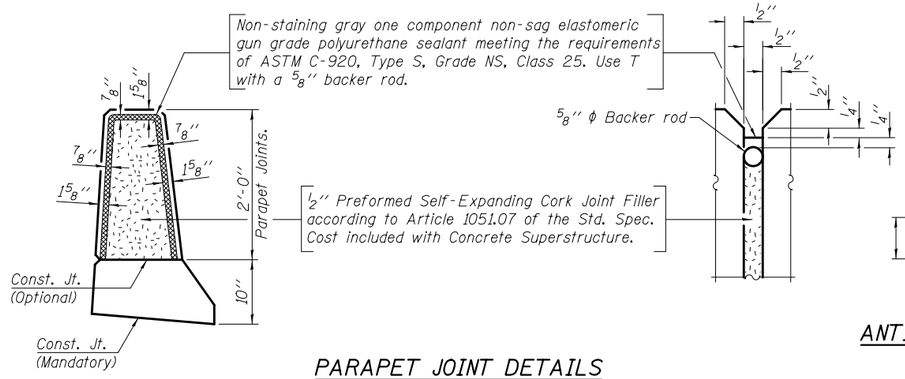


SECTION B-B

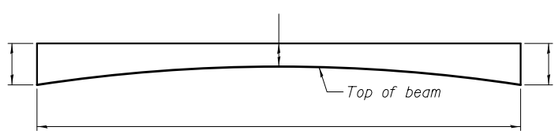
Note:
All drain tubes and accessories shall be galvanized according to AASHTO M111 or M232, (as applicable).
The cost of the drain tube assemblies and everything necessary for their installation is included with Concrete Superstructure.



BAR D(E)



PARAPET JOINT DETAILS



ANTICIPATED CONCRETE WEARING SURFACE PROFILE

(For information only)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)		#4		
a1(E)		#4	6'-0''	
b(E)		#4		
d(E)		#5	5'-7''	
d1(E)		#5	5'-11''	
e(E)		#4		
e (E)		#8		
e (E)		#4		
Reinforcement Bars, Epoxy Coated			Pound	
Concrete Superstructure			Cu. Yd.	
Concrete Wearing Surface, 5''			Sq. Yd.	

Bars indicated thus 1 x -#4 etc. indicates 1 line of bars with lengths per line.

PDS-11-S-F-D 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
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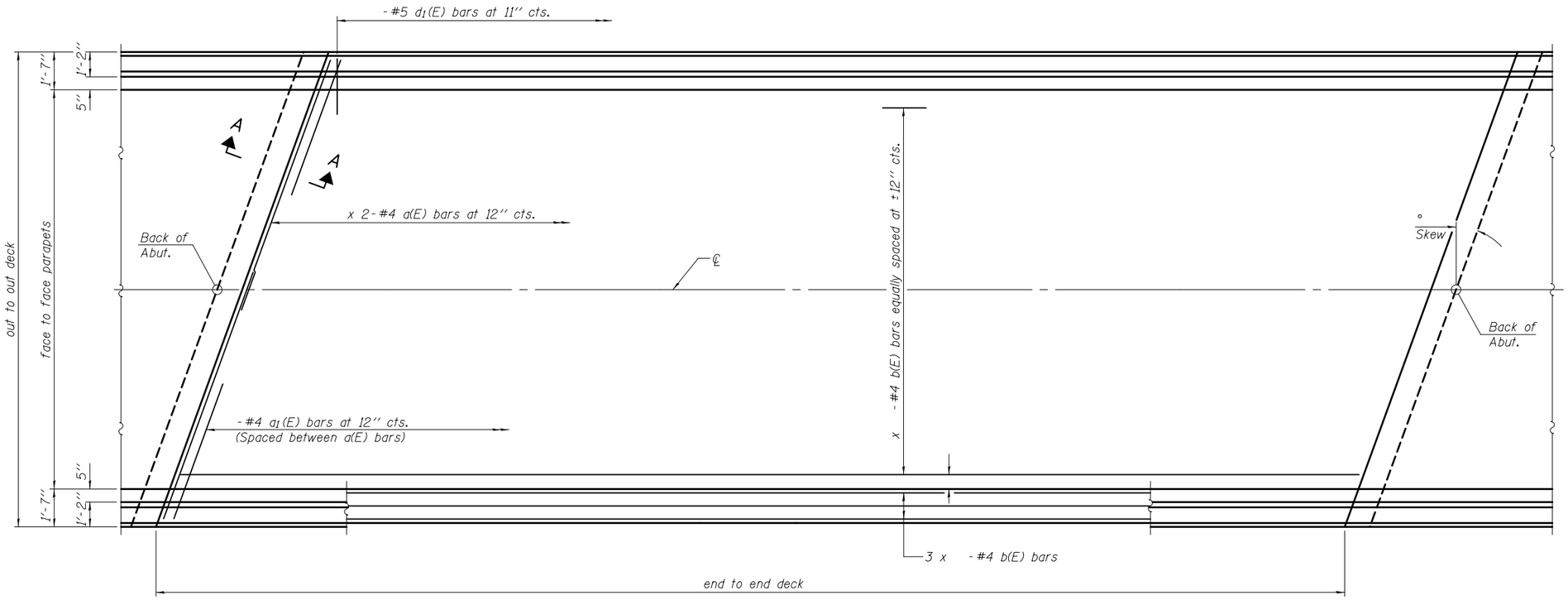
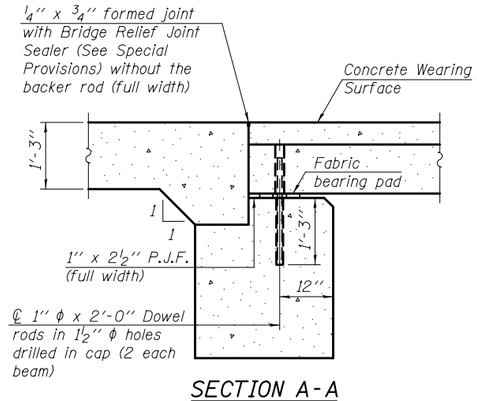
SUPERSTRUCTURE DETAILS
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



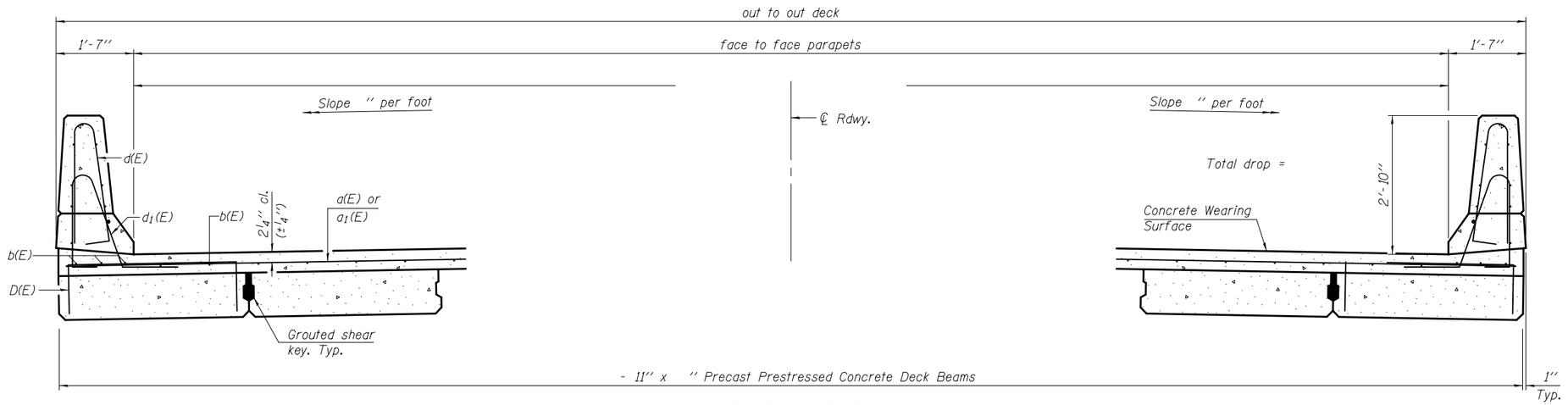
PLAN



SECTION A-A

(Dimensions are at Rt. L's)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet of for fabric bearing pad details.



CROSS SECTION

(Looking)

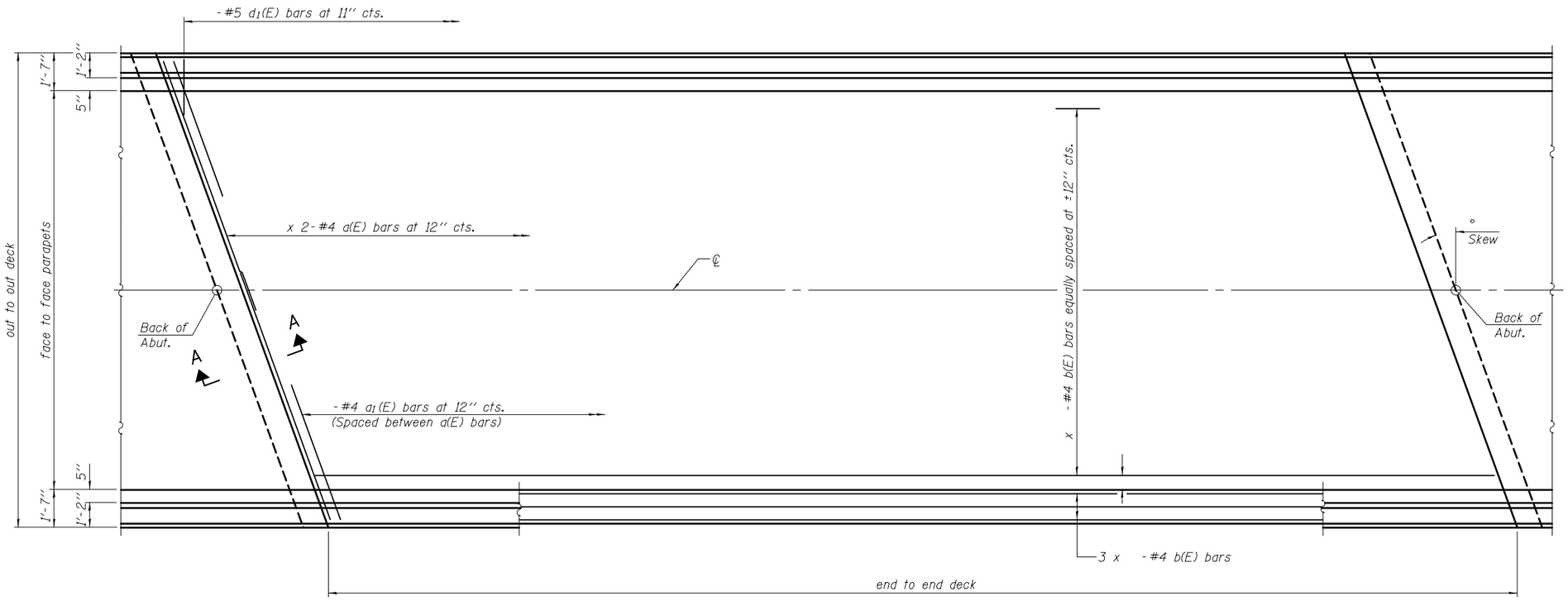
Notes:
See sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2 - #4 etc. indicates 20 lines of bars with 2 lengths per line.
Spacing of a(E) and a1(E) bars shall be measured along the ℄ of structure.

MINIMUM BAR LAP

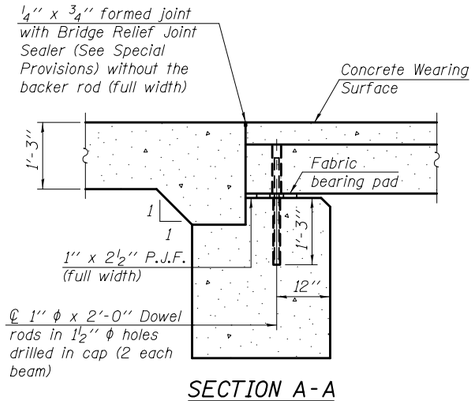
#4 bar = 2'-2"

PDS-11-S-F-L 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -				
	PLOT SCALE =	DRAWN -	REVISED -				CONTRACT NO.
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT



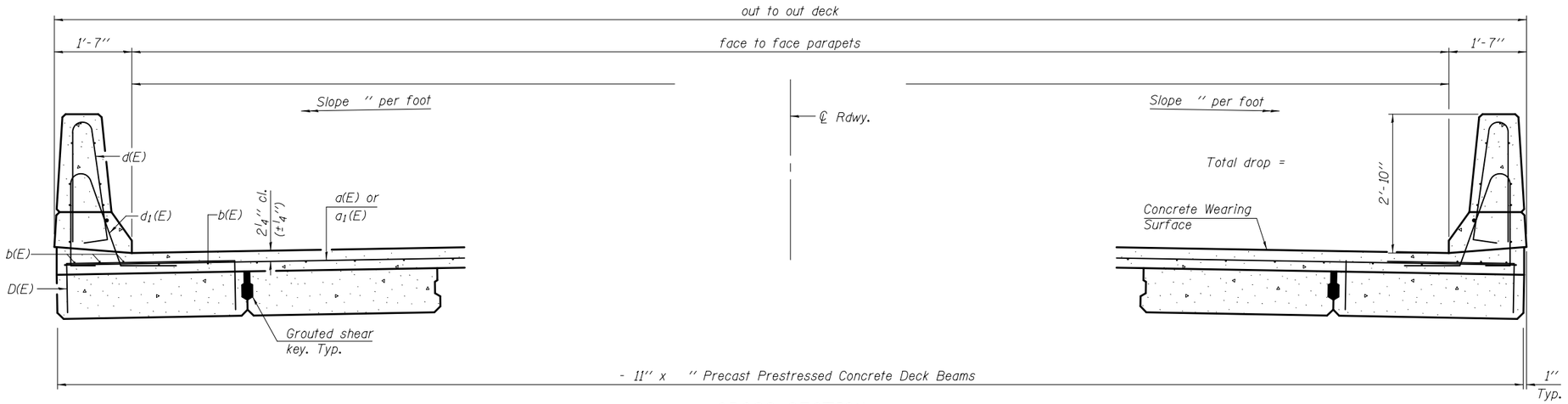
PLAN



SECTION A-A

(Dimensions are at Rt. L's)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet of for fabric bearing pad details.



CROSS SECTION

(Looking)

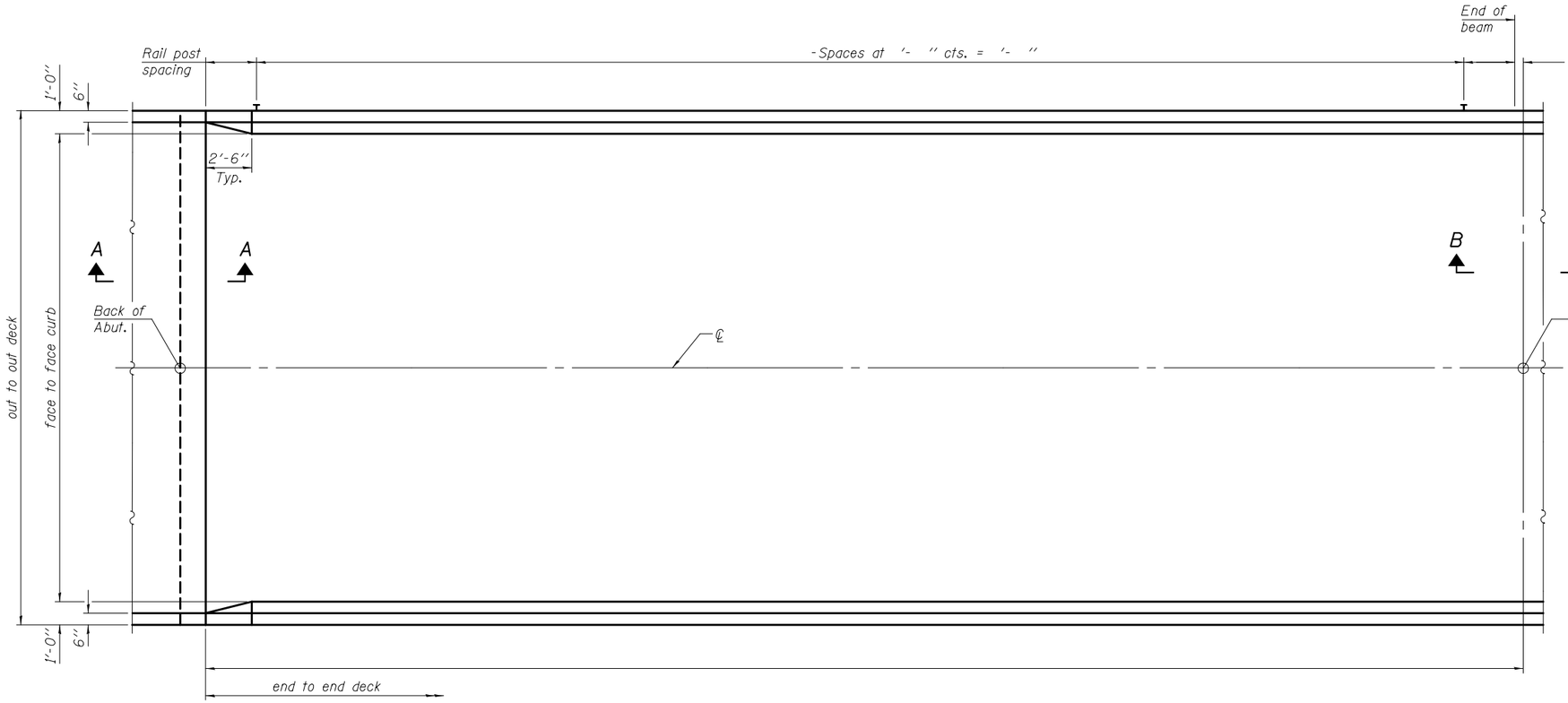
Notes:
See sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2- #4 etc. indicates 20 lines of bars with 2 lengths per line.
Spacing of a(E) and a1(E) bars shall be measured along the ℄ of structure.

MINIMUM BAR LAP

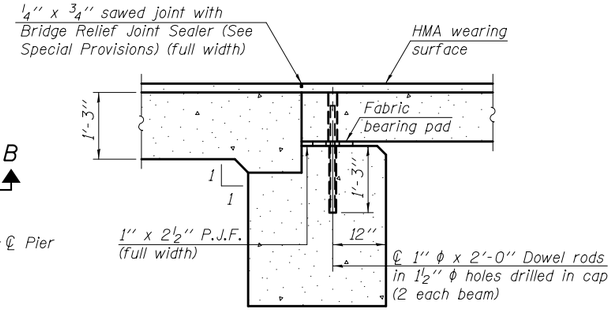
#4 bar = 2'-2''

PDS-11-S-F-R 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -				
	PLOT SCALE =	DRAWN -	REVISED -				CONTRACT NO.
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT

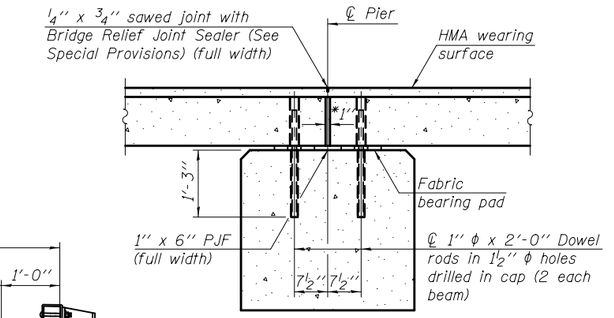


PLAN



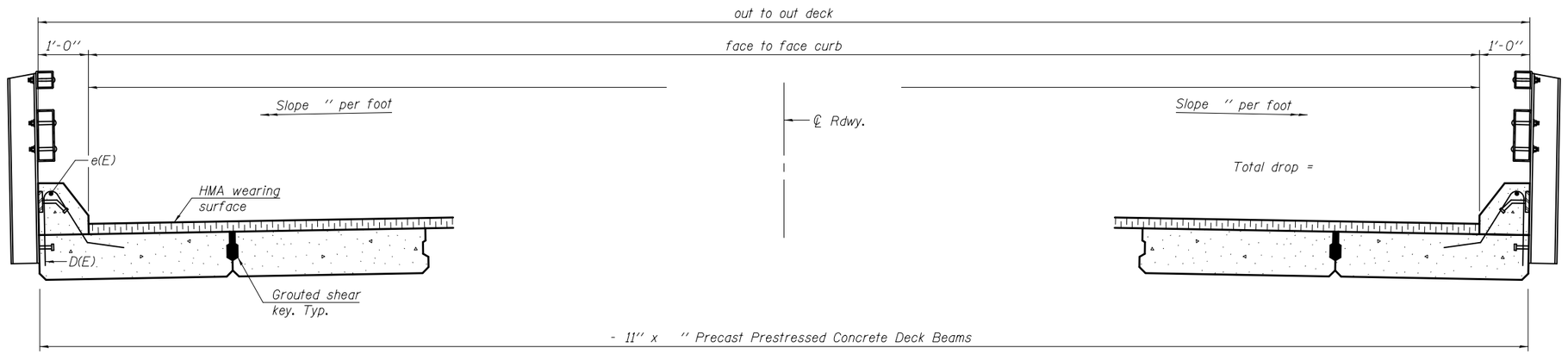
SECTION A-A

See sheet of for fabric bearing pad details.



SECTION B-B

*1'' Jt. shall be filled with non-shrink grout. 1'' dimension may vary to accommodate tolerance in beam lengths.



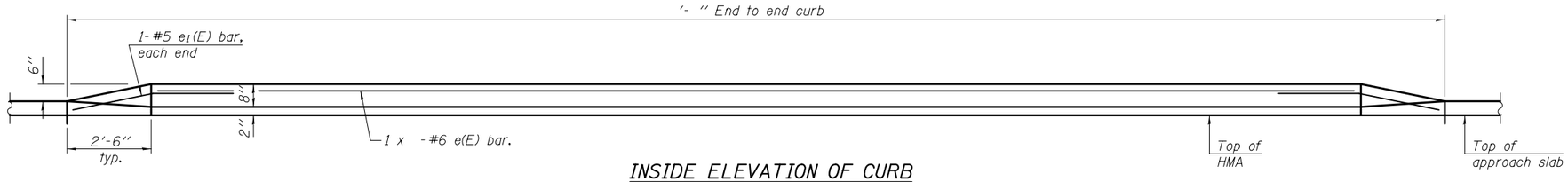
CROSS SECTION

(Looking)

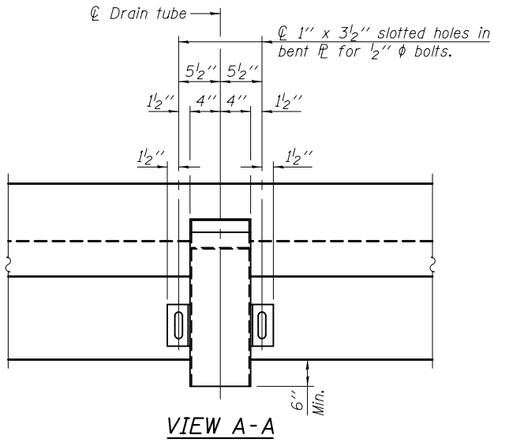
Notes:
See sheet of for Superstructure Details and Bill of Material.

PDS-HMA-11-M-T1-0 1-27-12

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -				
	PLOT SCALE =	DRAWN -	REVISED -				CONTRACT NO.
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT



INSIDE ELEVATION OF CURB

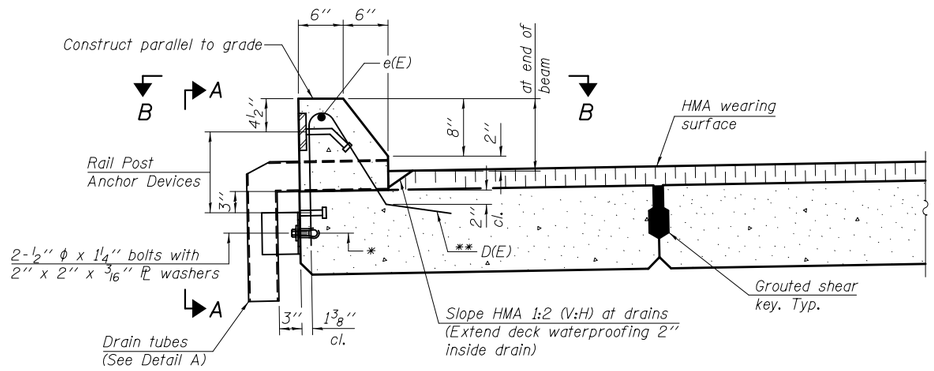


VIEW A-A

Note:
All drain tubes and accessories shall be galvanized according to AASHTO M111 or M232, (as applicable).
The cost of the drain tube assemblies and everything necessary for their installation is included with Concrete Superstructure.

MINIMUM BAR LAP

#6 bar 3'-7''

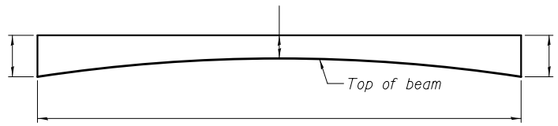


SECTION THRU CURB

Curbs shall be poured in the field.

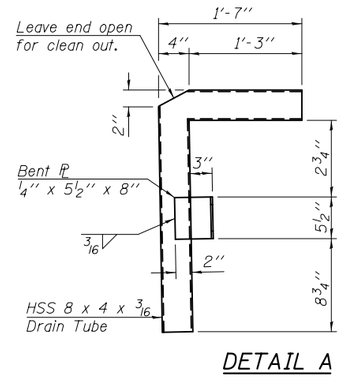
* ℄ Loop Ferrule inserts for ½'' ϕ bolts. Place at ℄ of beam depth.

** Place #5 D(E) bars at 12'' cts. in fascia beam for railing curb. Omit D(E) bars in curb transition. D(E) bar included in cost of beam.

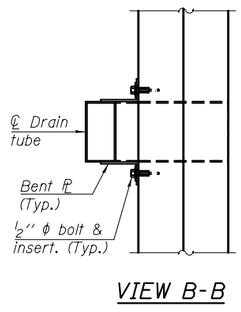


ANTICIPATED HMA WEARING SURFACE PROFILE

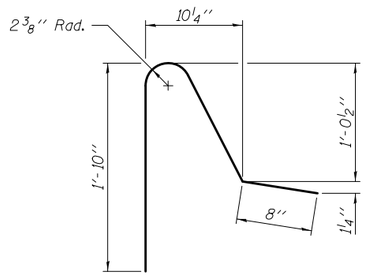
(For information only)



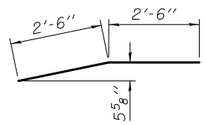
DETAIL A



VIEW B-B



BAR D(E)



BAR e1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
e(E)		#6		
e1(E)	4	#5	5'-0''	
Reinforcement Bars, Epoxy Coated			Pound	
Concrete Superstructure			Cu. Yd.	
HMA Wearing Surface			Tons	

Bars indicated thus 1 x -#6 etc. indicates 1 line of bars with lengths per line.

PDS-HMA-11-M-T1-D 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
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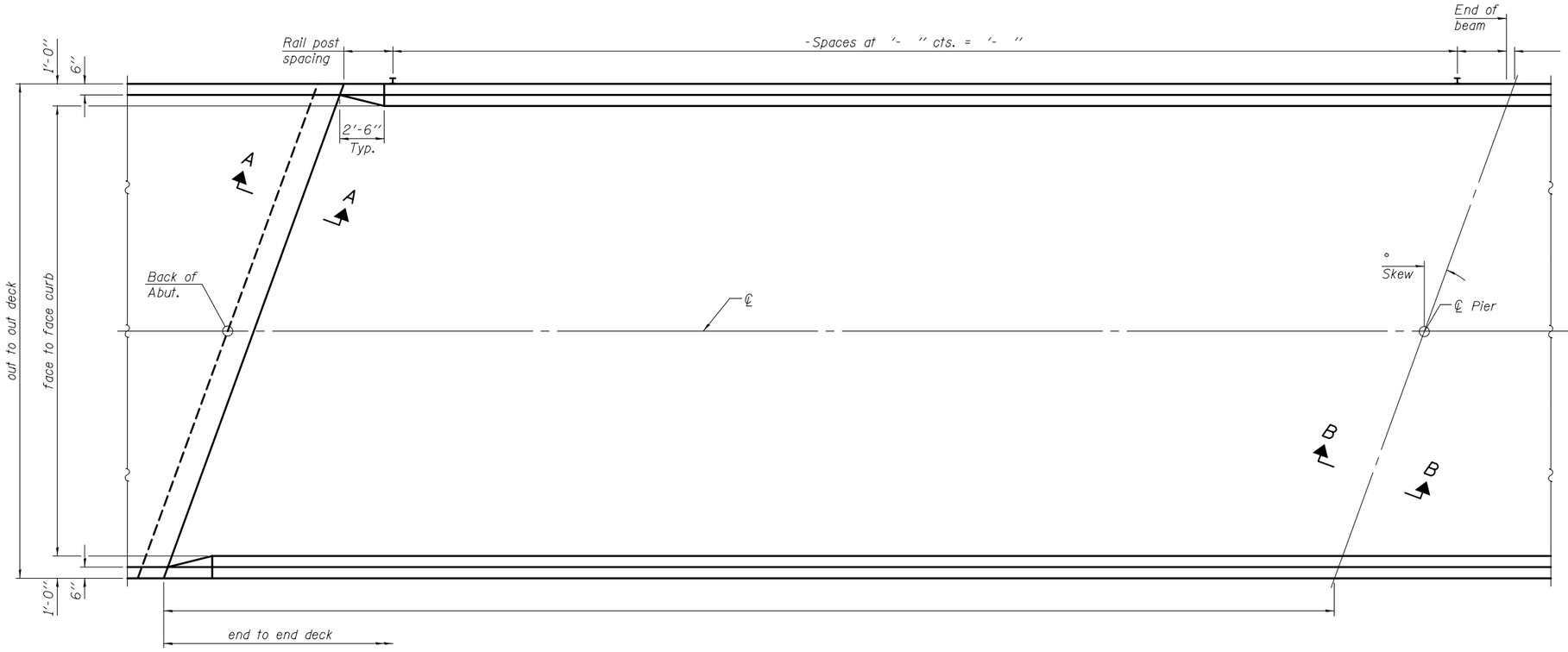
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

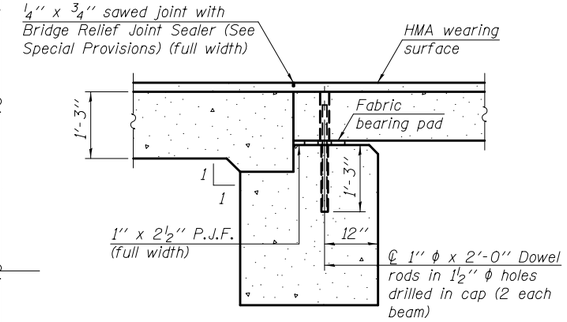
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

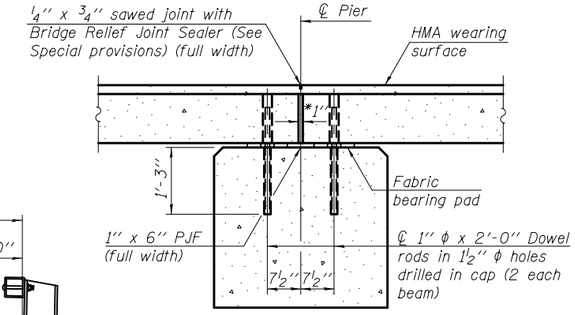


PLAN



SECTION A-A

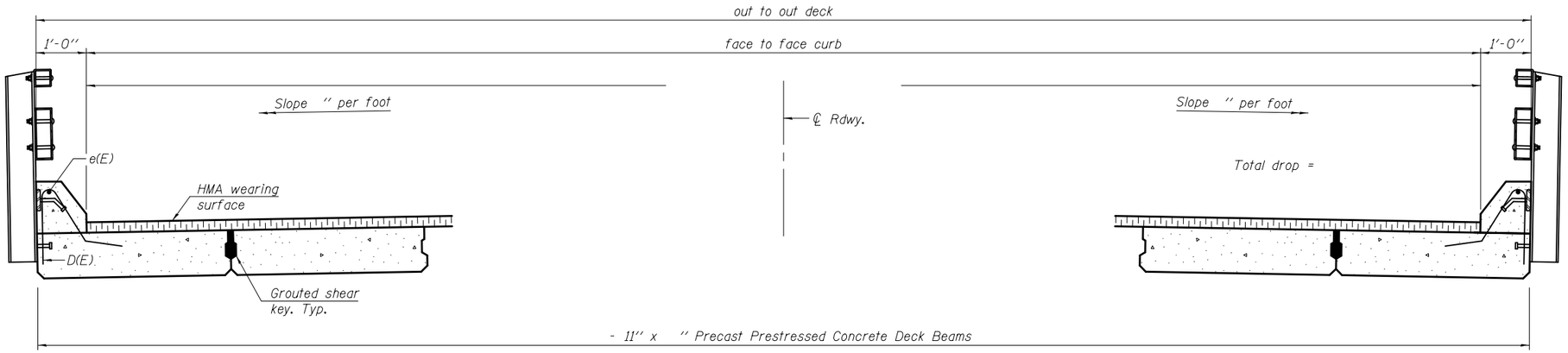
(Dimensions are at Rt. L's)
See sheet of for fabric bearing pad details.



SECTION B-B

(Dimensions are at Rt. L's)

*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.



CROSS SECTION

(Looking)

Notes:
See sheet of for Superstructure Details and Bill of Material.

PDS-HMA-11-M-T1-L 1-27-12

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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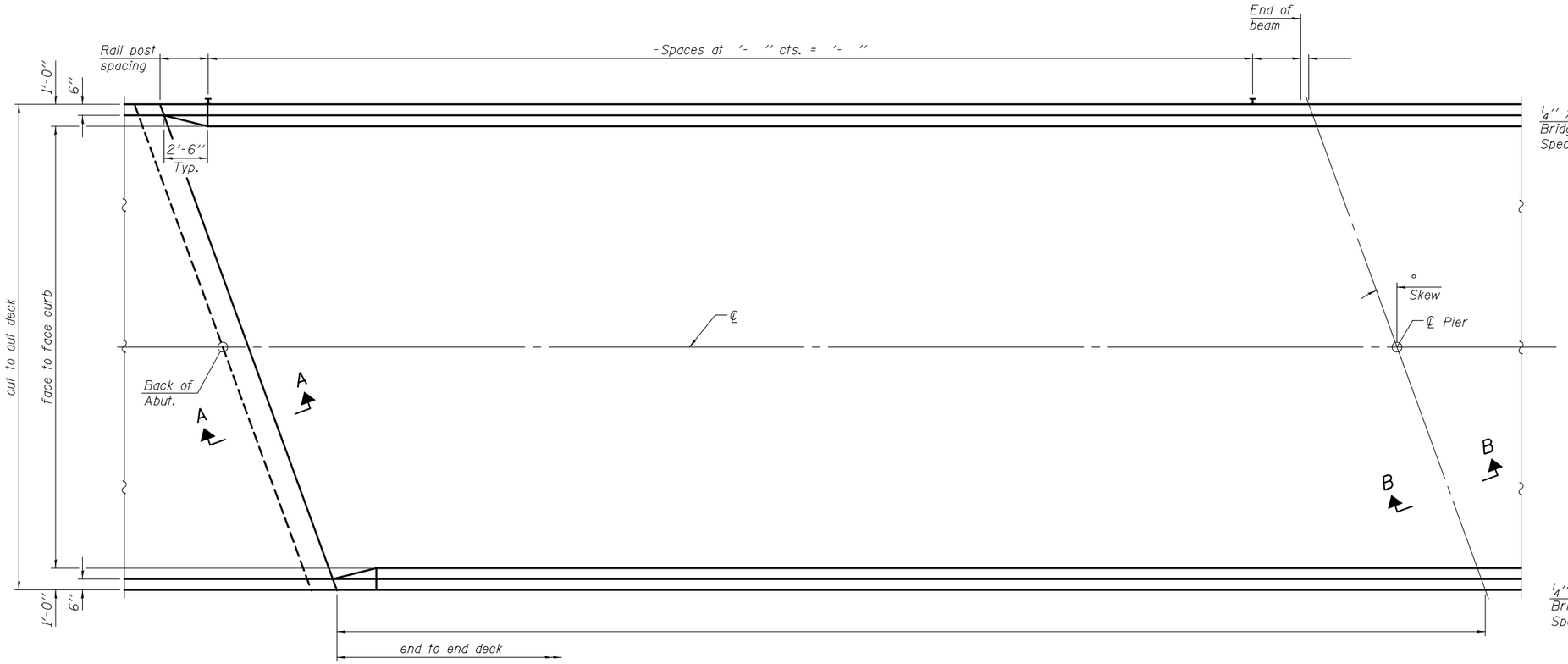
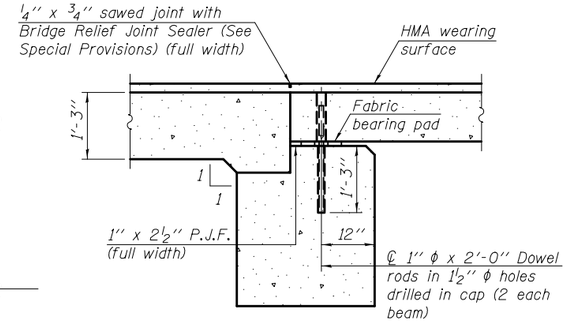
	PLOT SCALE =	DRAWN -	REVISED -					CONTRACT NO.		
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS	FED. AID PROJECT		

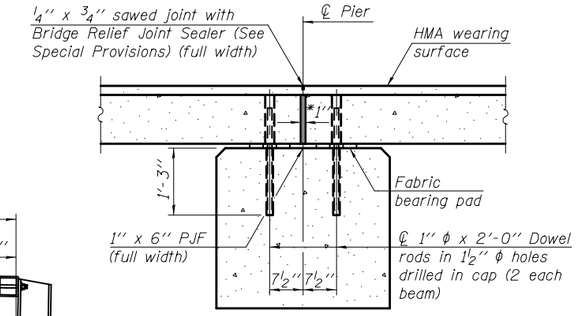


PLAN



SECTION A-A

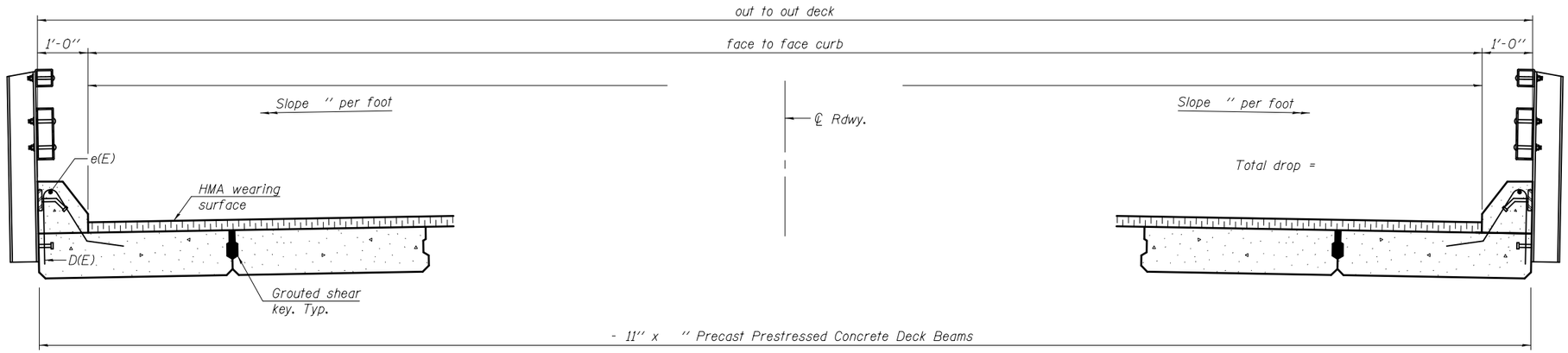
(Dimensions are at Rt. L's)
See sheet of for fabric bearing pad details.



SECTION B-B

(Dimensions are at Rt. L's)

*1'' Jt. shall be filled with non-shrink grout. 1'' dimension may vary to accommodate tolerance in beam lengths.



CROSS SECTION

(Looking)

Notes:
See sheet of for Superstructure Details and Bill of Material.

PDS-HMA-11-M-T1-R 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
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	PLOT SCALE =	DRAWN -	REVISED -				CONTRACT NO.
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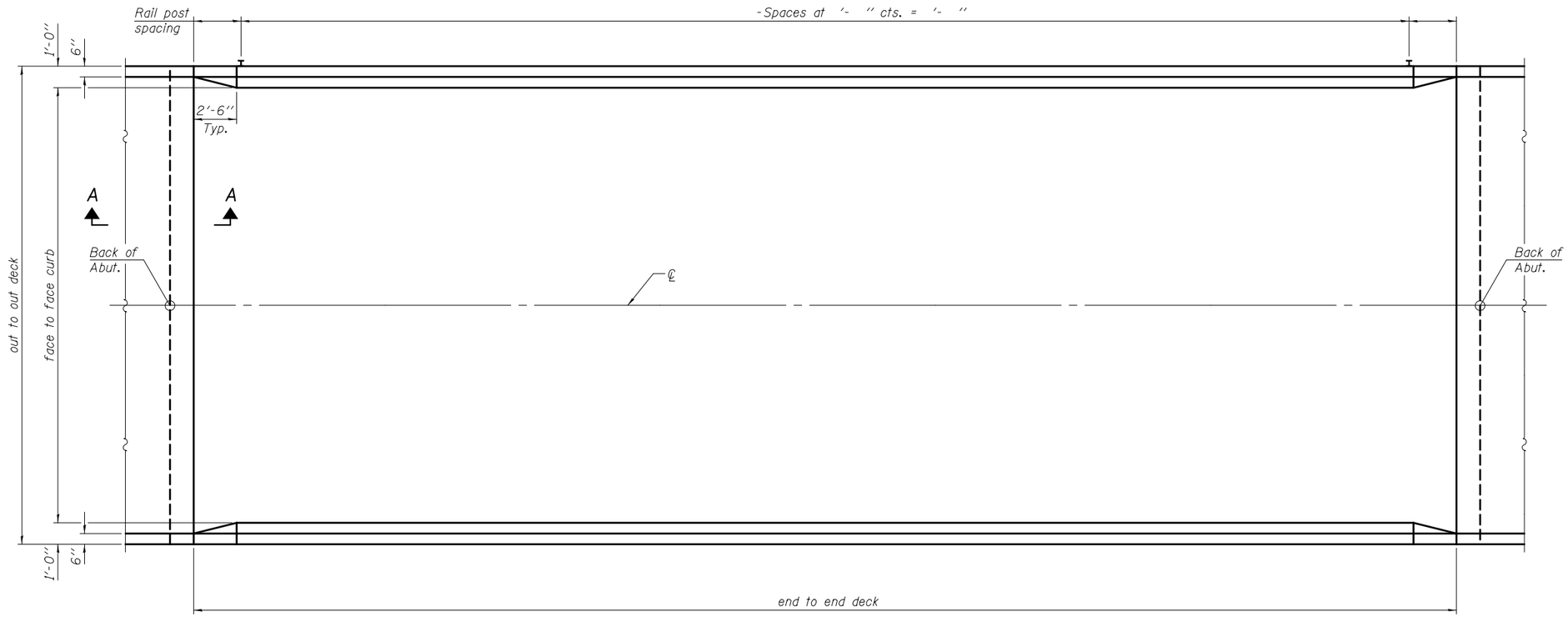
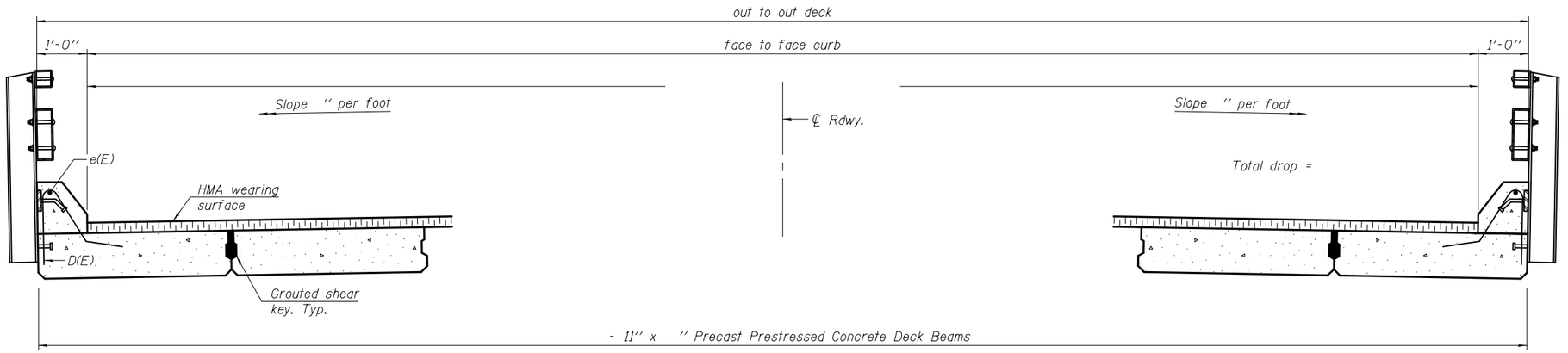


PLAN

SECTION A-A
See sheet of for fabric bearing pad details.



CROSS SECTION
(Looking)

Notes:
See sheet of for Superstructure Details and Bill of Material.

PDS-HMA-11-S-T1-0 7-1-10

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
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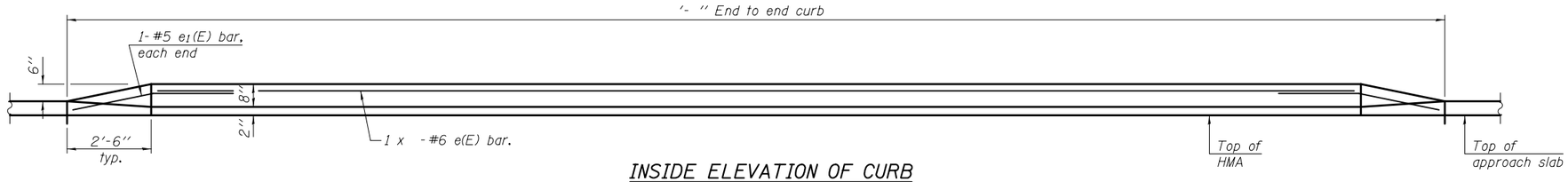
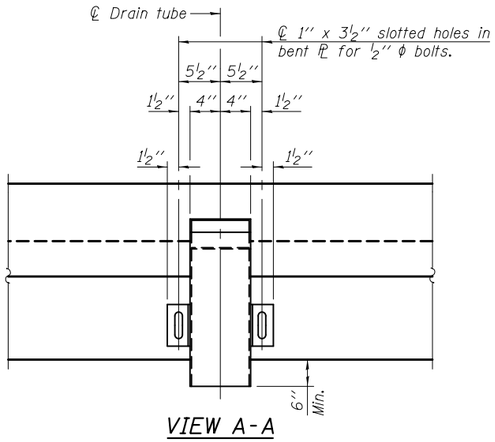


INSIDE ELEVATION OF CURB

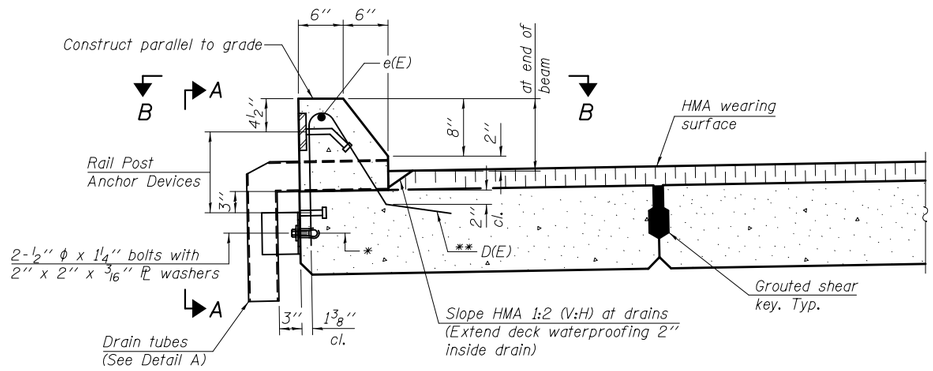


VIEW A-A

Note:
All drain tubes and accessories shall be galvanized according to AASHTO M111 or M232, (as applicable).
The cost of the drain tube assemblies and everything necessary for their installation is included with Concrete Superstructure.

MINIMUM BAR LAP

#6 bar 3'-7''

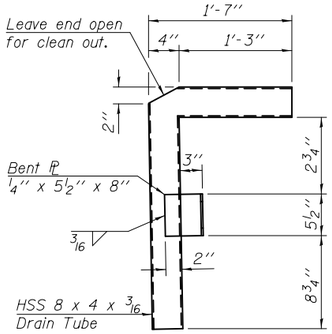


SECTION THRU CURB

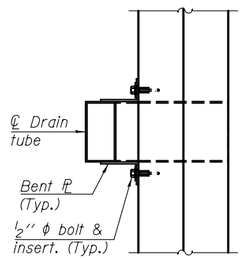
Curbs shall be poured in the field.

* ℄ Loop Ferrule inserts for ½'' ϕ bolts. Place at ℄ of beam depth.

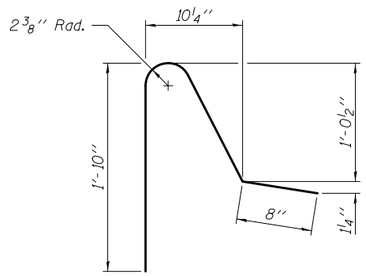
** Place #5 D(E) bars at 12'' cts. in fascia beam for railing curb. Omit D(E) bars in curb transition. D(E) bar included in cost of beam.



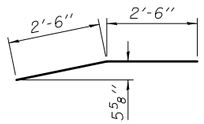
DETAIL A



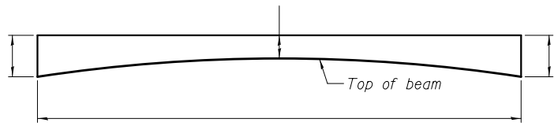
VIEW B-B



BAR D(E)



BAR e1(E)



ANTICIPATED HMA WEARING SURFACE PROFILE

(For information only)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
e(E)		#6		
e1(E)	4	#5	5'-0''	
Reinforcement Bars, Epoxy Coated			Pound	
Concrete Superstructure			Cu. Yd.	
HMA Wearing Surface			Tons	

Bars indicated thus 1 x -#6 etc. indicates 1 line of bars with lengths per line.

PDS-HMA-11-S-T1-D 6-8-15

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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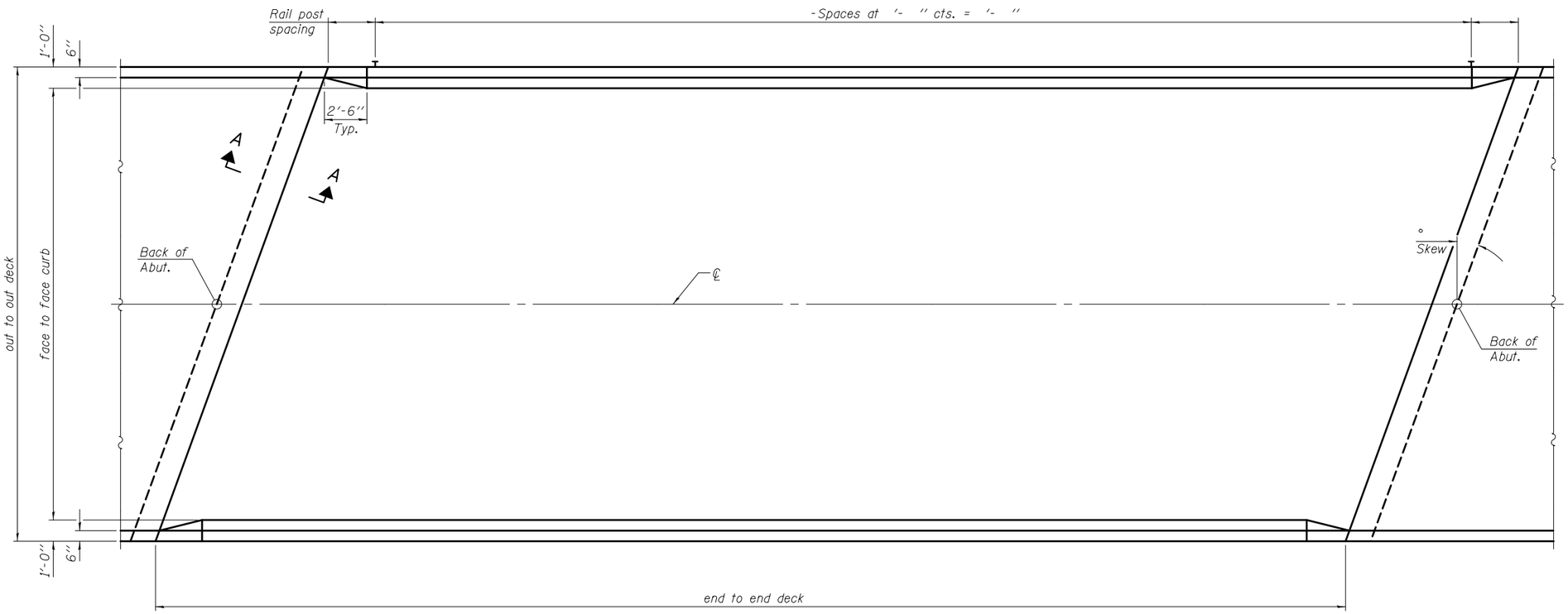
	ILLINOIS FED. AID PROJECT			



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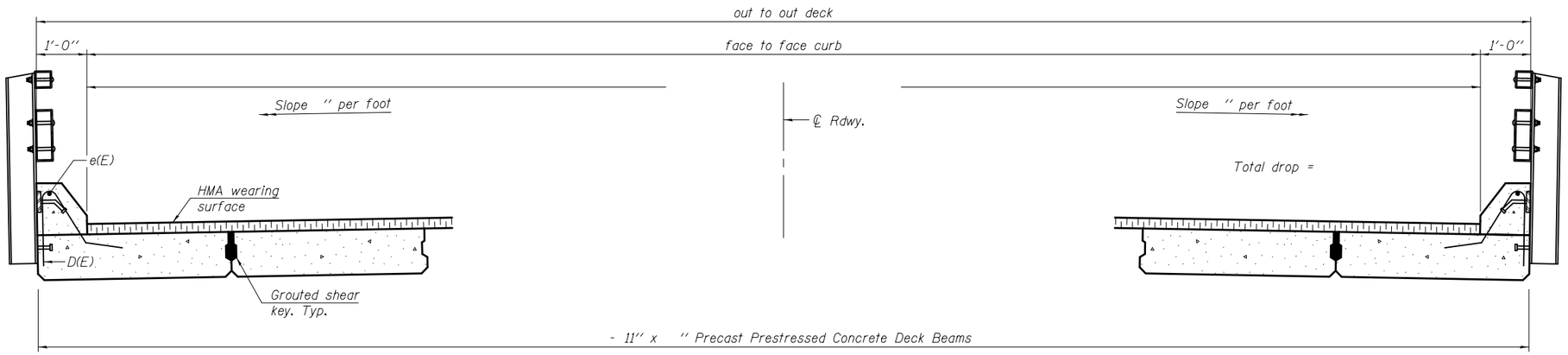

CROSS SECTION
(Looking)

SECTION A-A
(Dimensions are at Rt. L's)
See sheet of for fabric bearing pad details.

Notes:
See sheet of for Superstructure Details and Bill of Material.

PDS-HMA-11-S-T1-L 7-1-10

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
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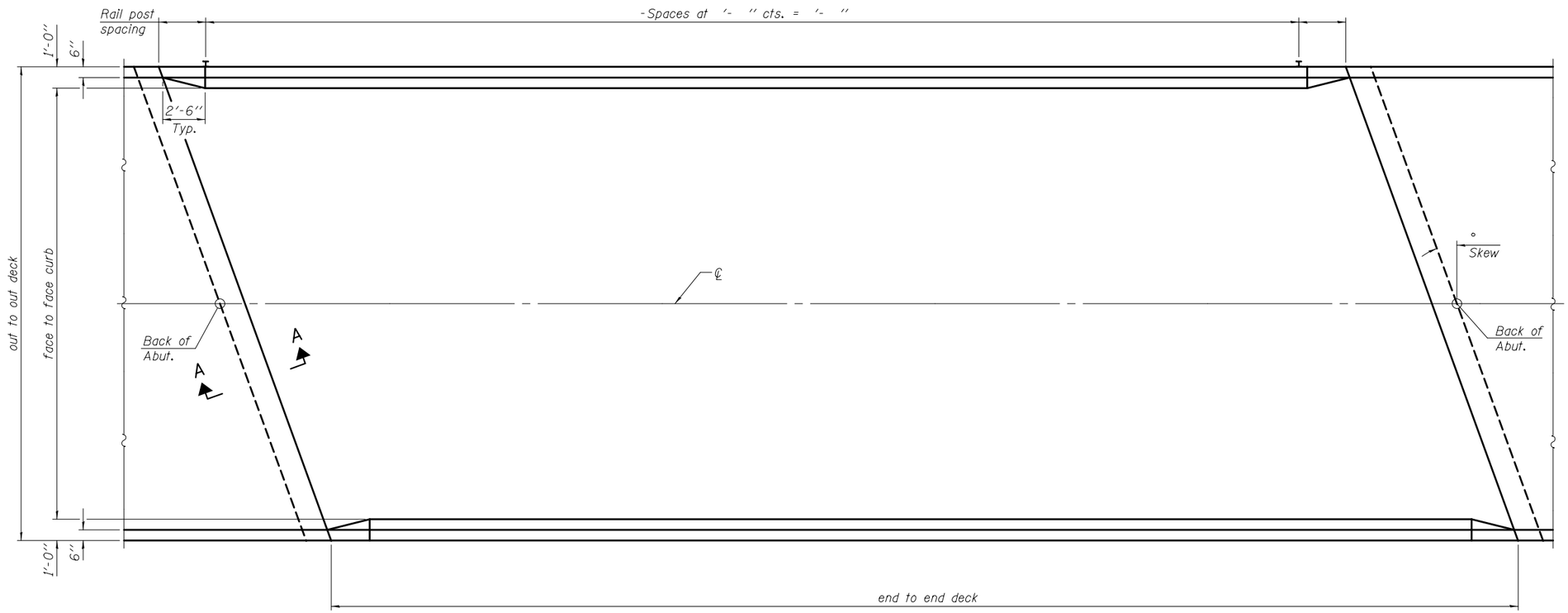
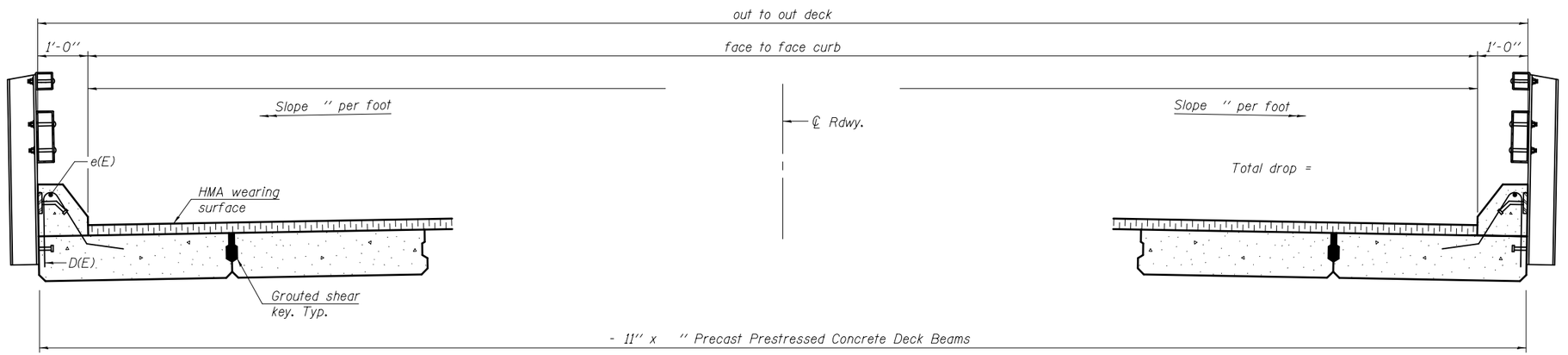
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT



PLAN



CROSS SECTION
(Looking)

SECTION A-A
(Dimensions are at Rt. L's)
See sheet of for fabric bearing pad details.

Notes:
See sheet of for Superstructure Details and Bill of Material.

MINIMUM BAR LAP

PDS-HMA-11-S-T1-R 7-1-10

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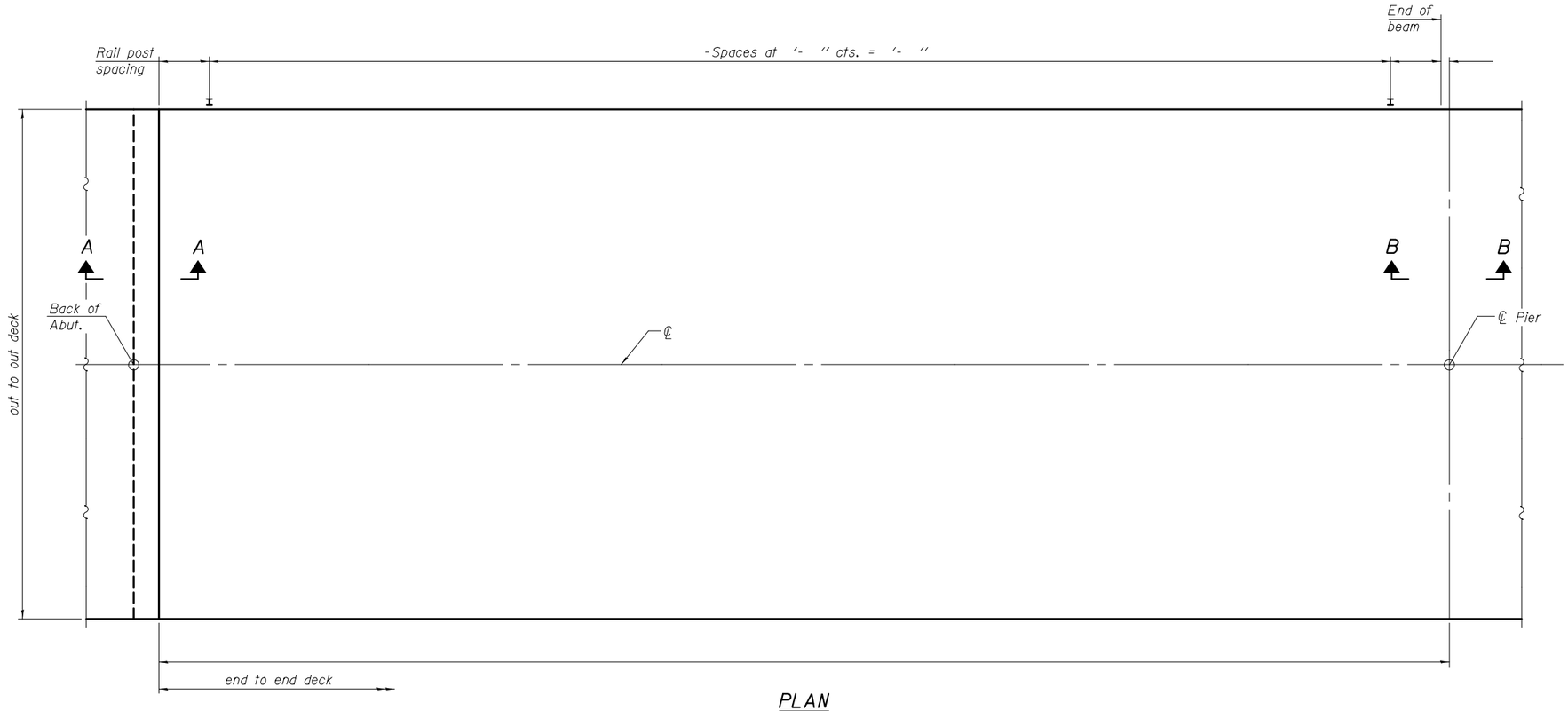
	PLOT DATE =	CHECKED -	REVISED -				



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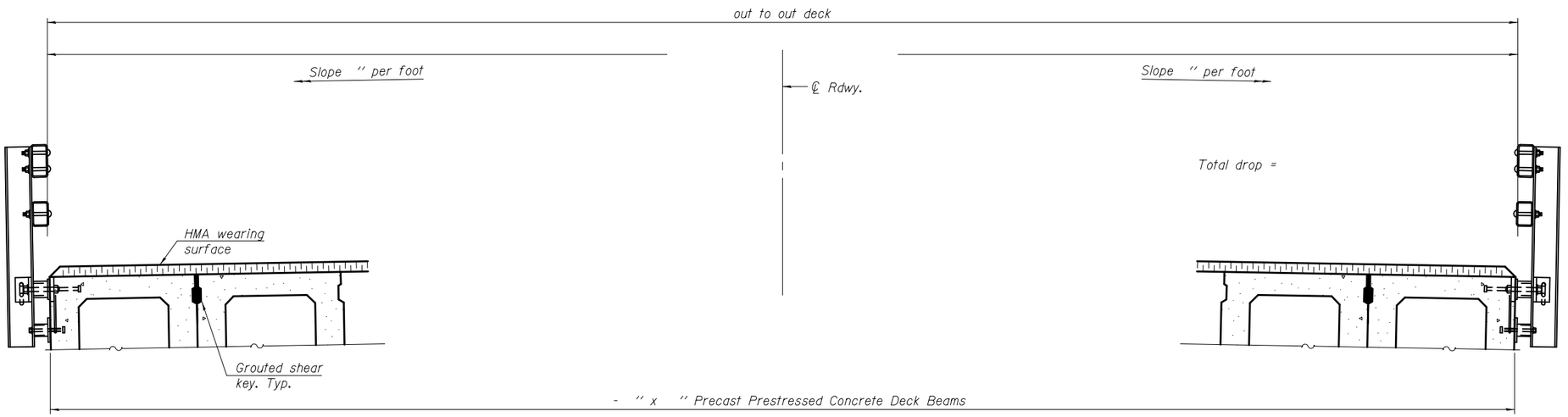


CROSS SECTION
(Looking)

SECTION A-A

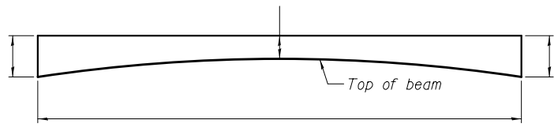
See sheet of for fabric bearing pad details.

SECTION B-B

*1'' Jt. shall be filled with non-shrink grout. 1'' dimension may vary to accommodate tolerance in beam lengths.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
HMA Wearing Surface	Tons	0



ANTICIPATED HMA WEARING SURFACE PROFILE
(For information only)

Notes:
See sheet of for Superstructure Details and Bill of Material.

PDS-HMA-M-R34-0 7-1-10

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY / TOTAL SHEETS / SHEET NO.
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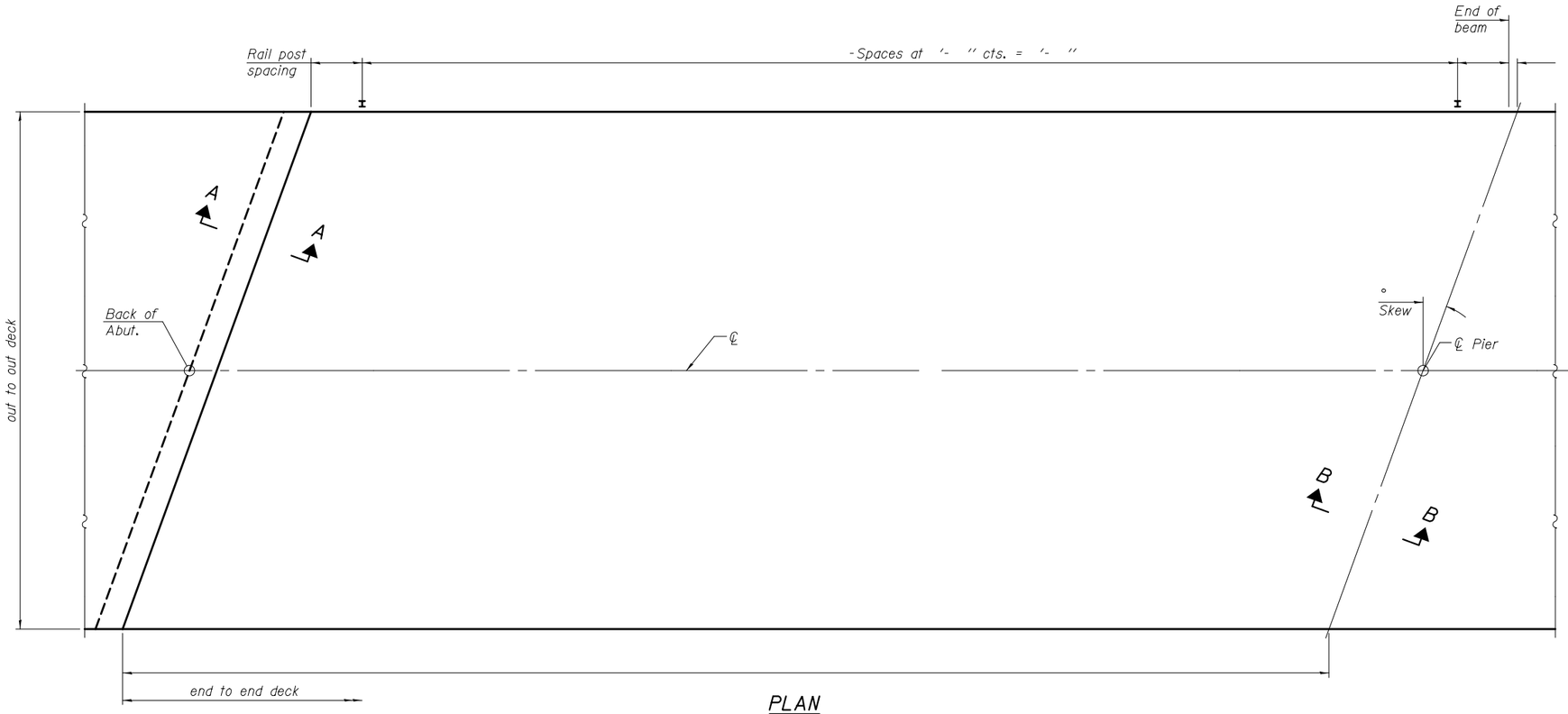

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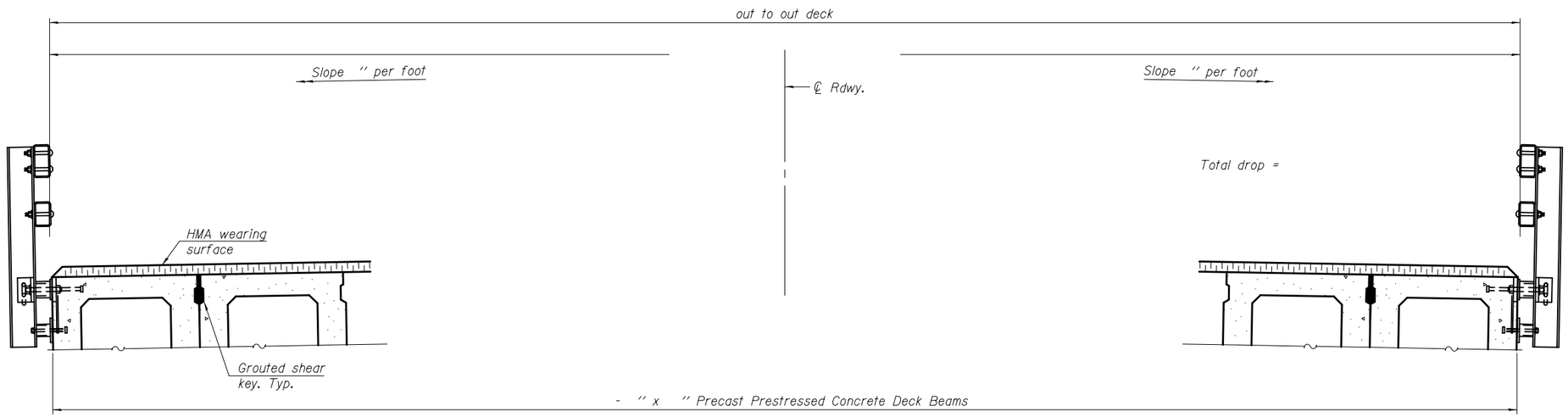


CROSS SECTION
(Looking)

SECTION A-A

(Dimensions are at Rt. L's)
See sheet of for fabric bearing pad details.

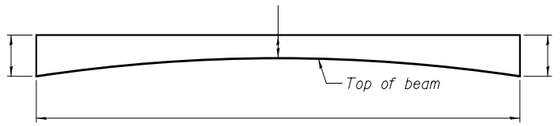
SECTION B-B

(Dimensions are at Rt. L's)

*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
HMA Wearing Surface	Tons	0



ANTICIPATED HMA WEARING SURFACE PROFILE
(For information only)

Notes:
See sheet of for Superstructure Details and Bill of Material.

PDS-HMA-M-R34-L 7-1-10

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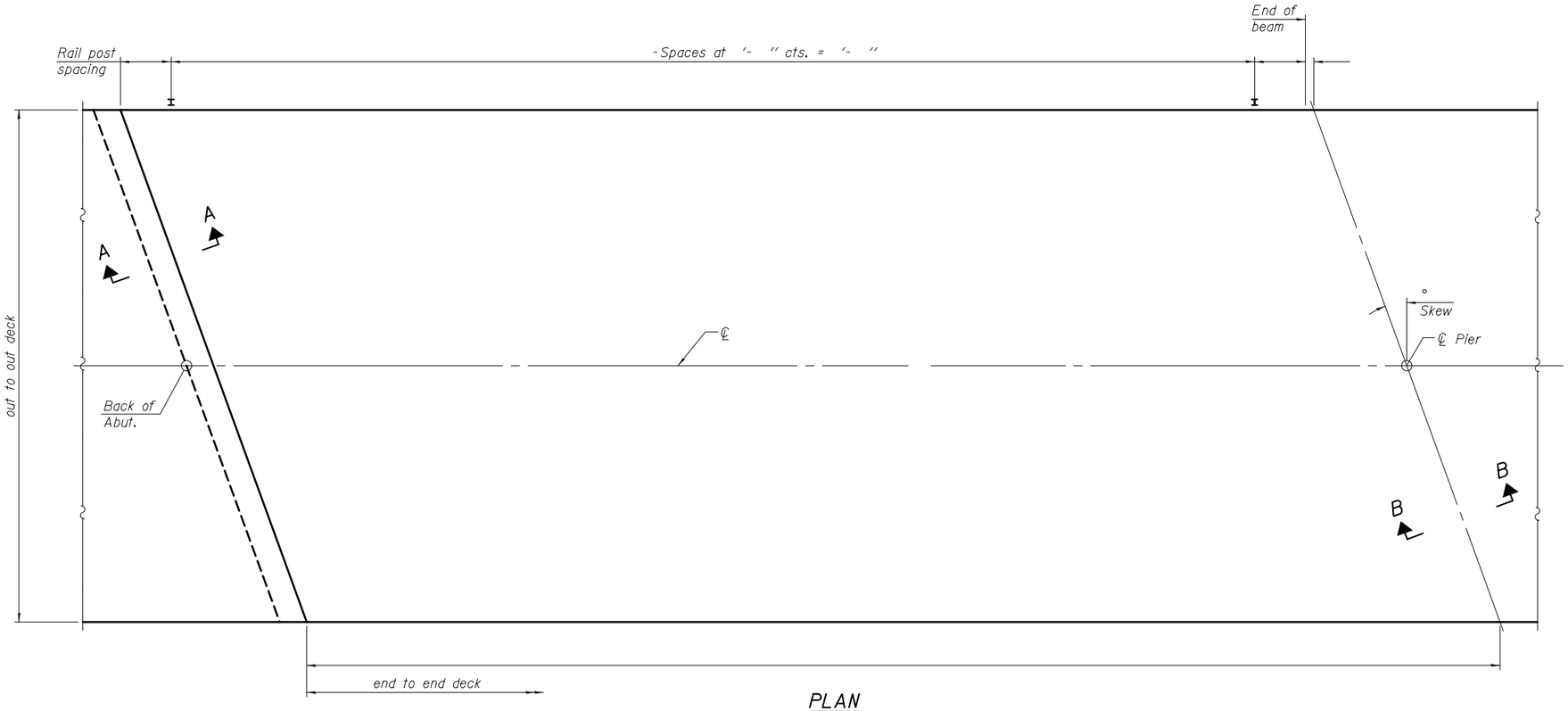

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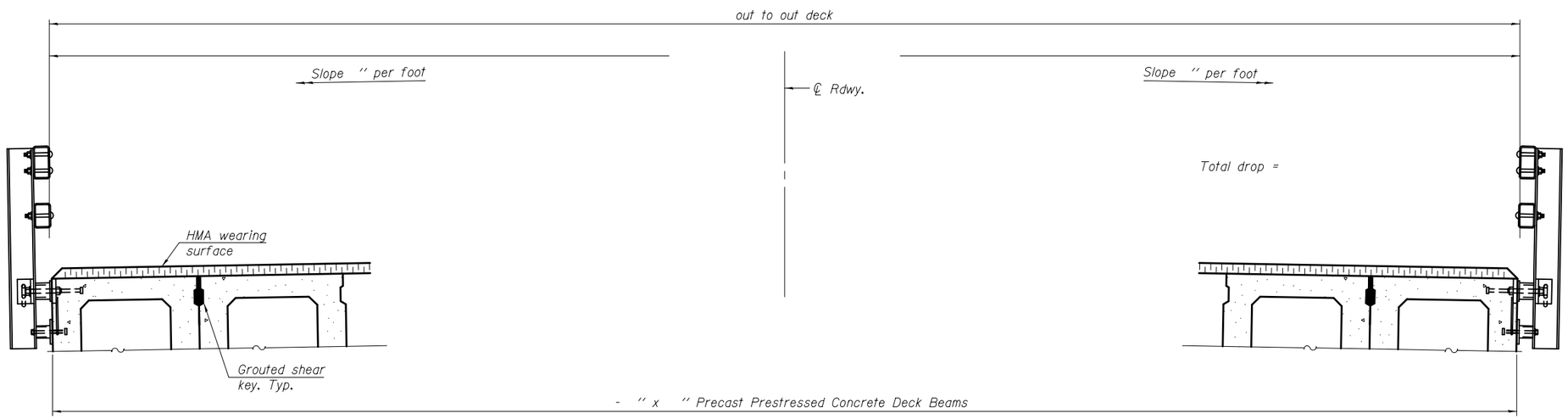


CROSS SECTION
(Looking)

Notes:
See sheet of for Superstructure Details and Bill of Material.

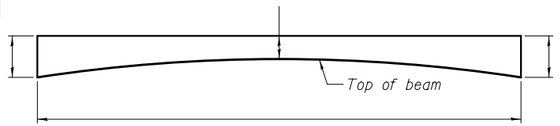
SECTION A-A
(Dimensions are at Rt. L's)
See sheet of for fabric bearing pad details.

SECTION B-B
(Dimensions are at Rt. L's)

*1'' Jt. shall be filled with non-shrink grout. 1'' dimension may vary to accommodate tolerance in beam lengths.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
HMA Wearing Surface	Tons	0



ANTICIPATED HMA WEARING SURFACE PROFILE
(For information only)

PDS-HMA-M-R34-R 7-1-10

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
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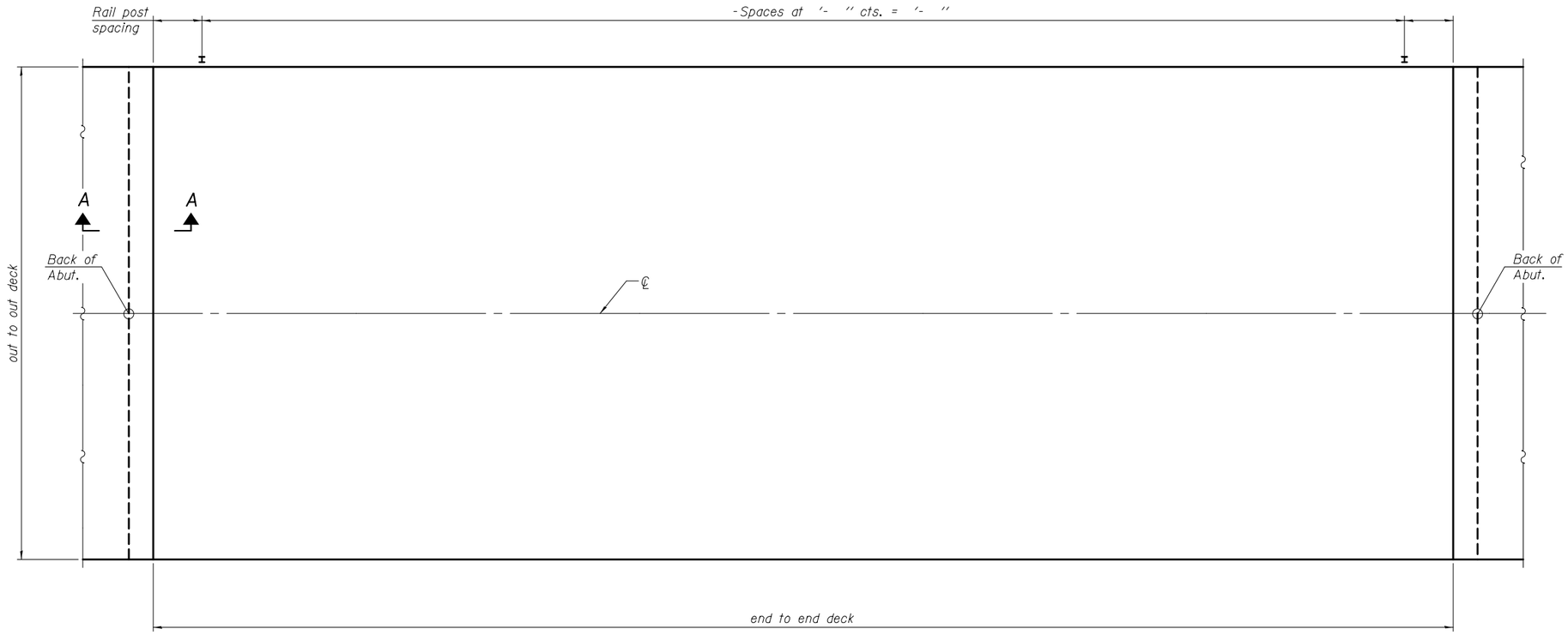
	PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



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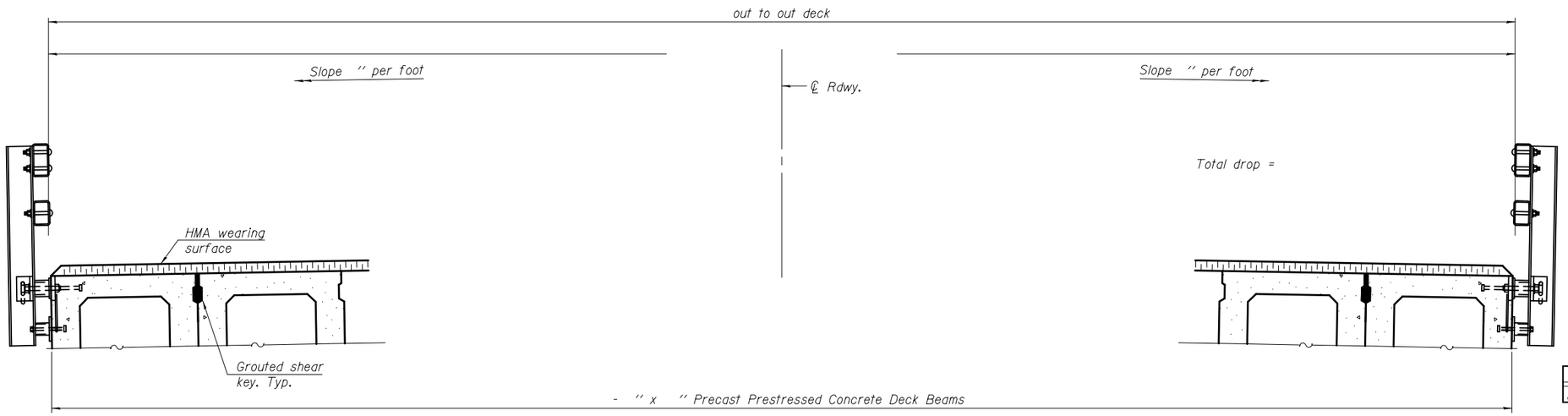
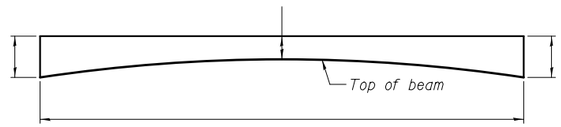


CROSS SECTION
(Looking)

SECTION A-A
See sheet of for fabric bearing pad details.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
HMA Wearing Surface	Tons	0



ANTICIPATED HMA WEARING SURFACE PROFILE
(For information only)

Notes:
See sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.

MINIMUM BAR LAP
#4 bar = 2'-7''

PDS-HMA-S-R34-0 7-1-10

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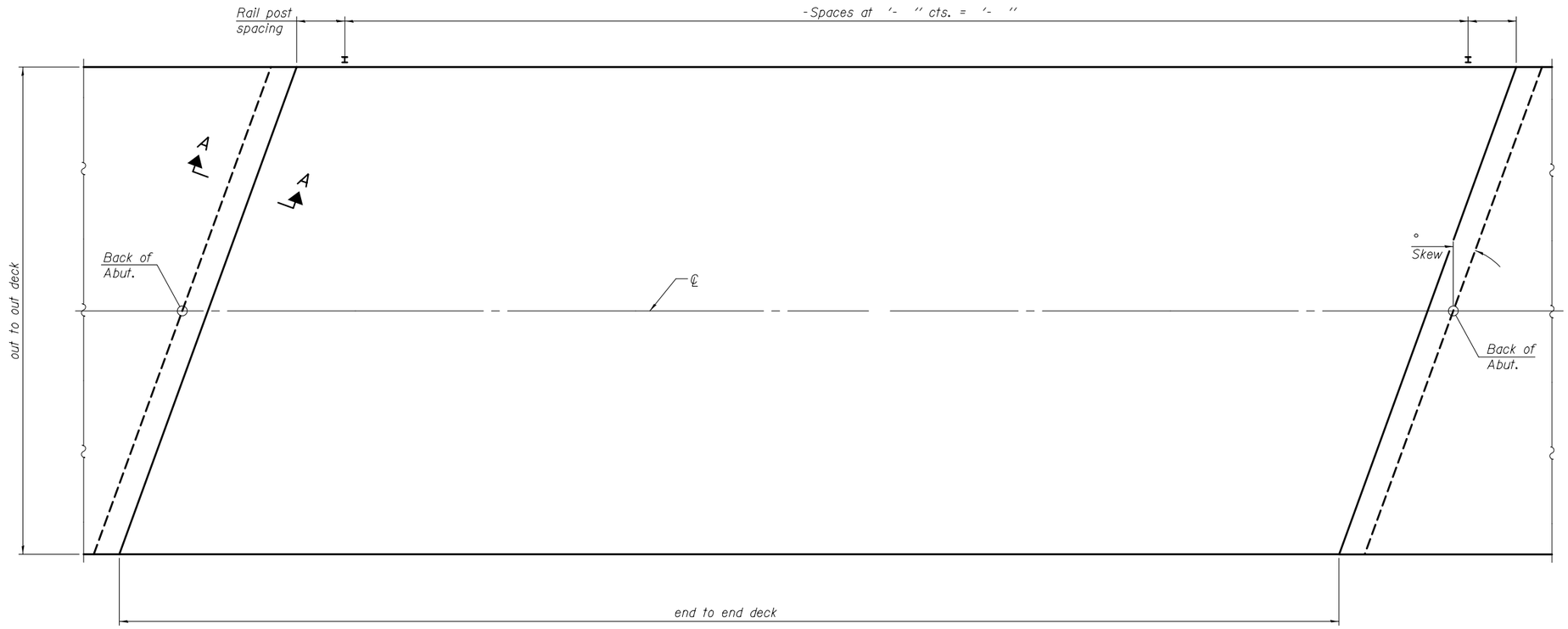

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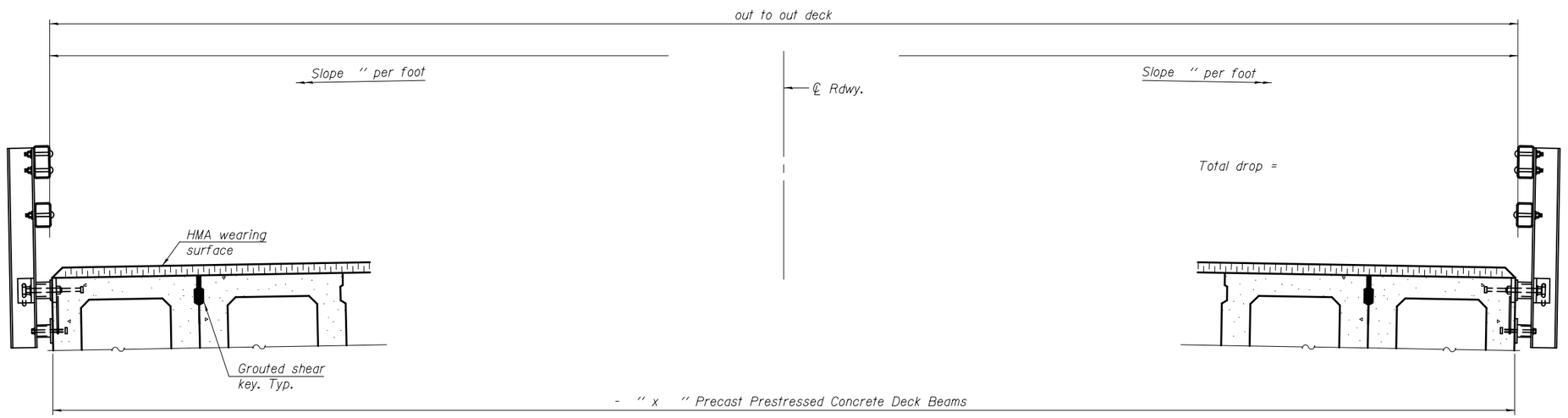


CROSS SECTION
(Looking)

SECTION A-A

(Dimensions are at Rt. L's)
See sheet of for
fabric bearing pad details.

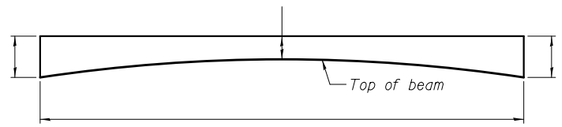
BILL OF MATERIAL

ITEM	UNIT	QUANTITY
HMA Wearing Surface	Tons	0

Notes:
See sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.
Spacing of d(E) bars shall be measured along the ℄ of structure.

MINIMUM BAR LAP

#4 bar = 2'-7"



ANTICIPATED HMA WEARING SURFACE PROFILE

(For information only)

PDS-HMA-S-R34-L 7-1-10

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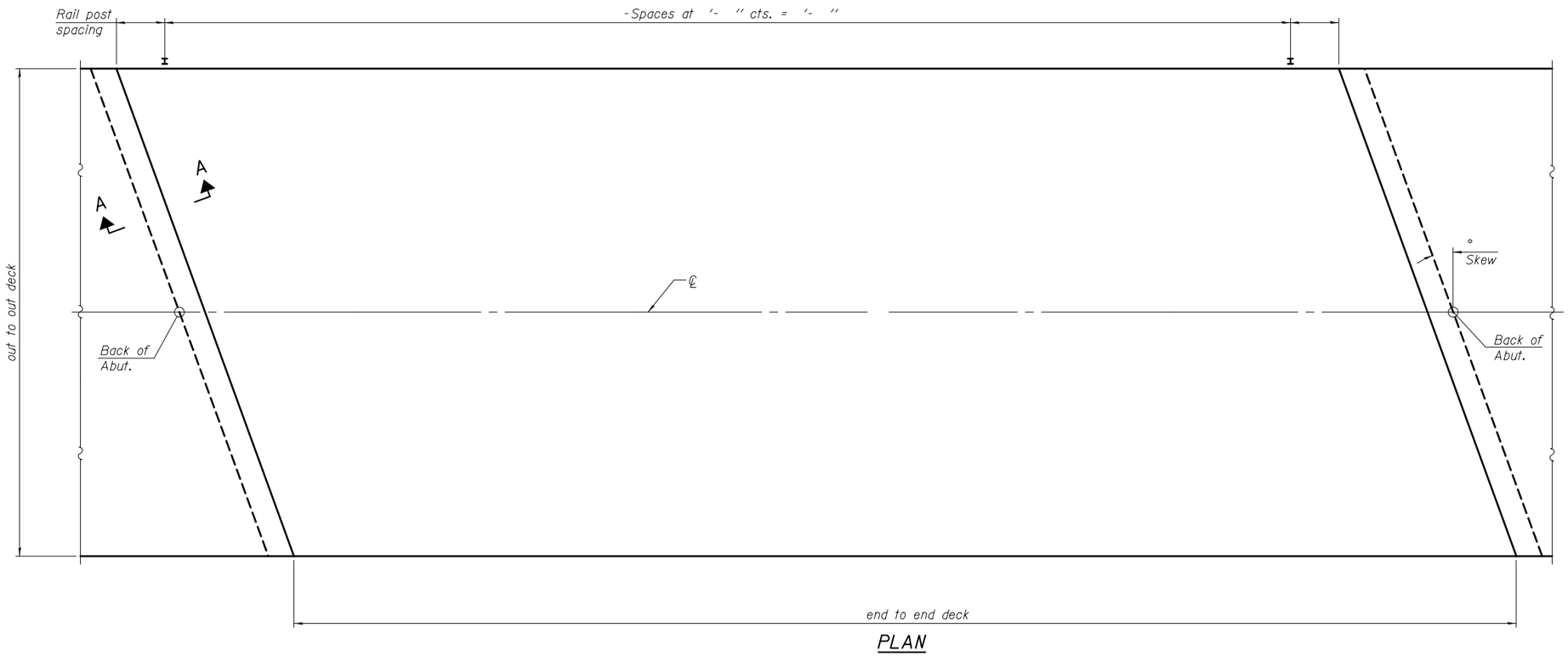
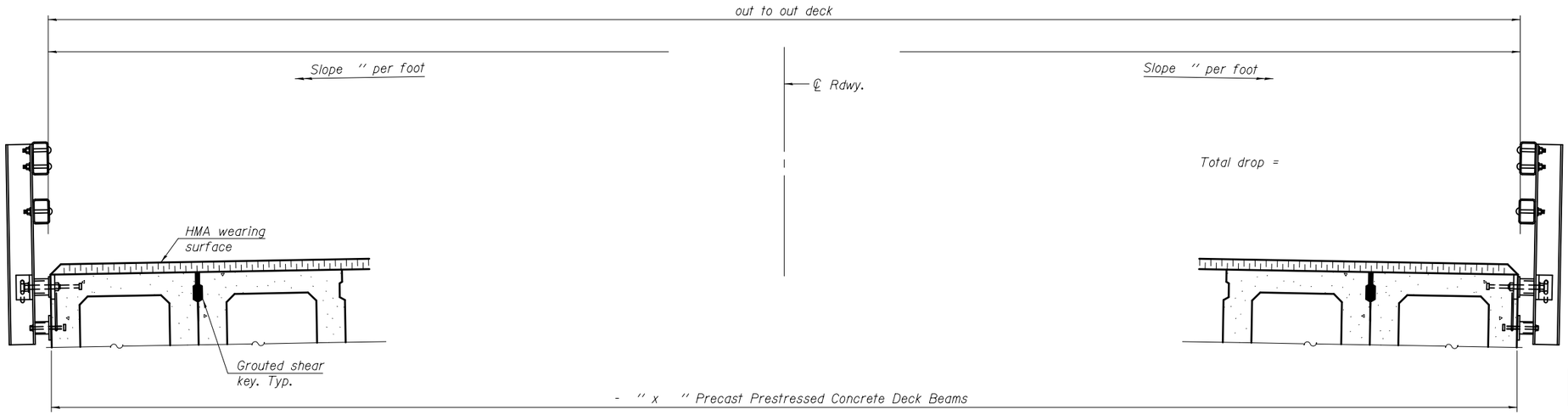
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT



PLAN

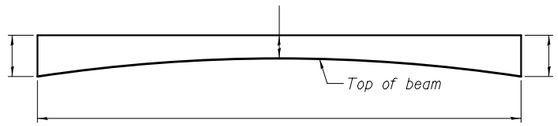


CROSS SECTION
(Looking)

SECTION A-A
(Dimensions are at Rt. L's)
See sheet of for fabric bearing pad details.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
HMA Wearing Surface	Tons	



ANTICIPATED HMA WEARING SURFACE PROFILE
(For information only)

Notes:
See sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.
Spacing of d(E) bars shall be measured along the ℄ of structure.

MINIMUM BAR LAP
#4 bar = 2'-7"

PDS-HMA-S-R34-R 7-1-10

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
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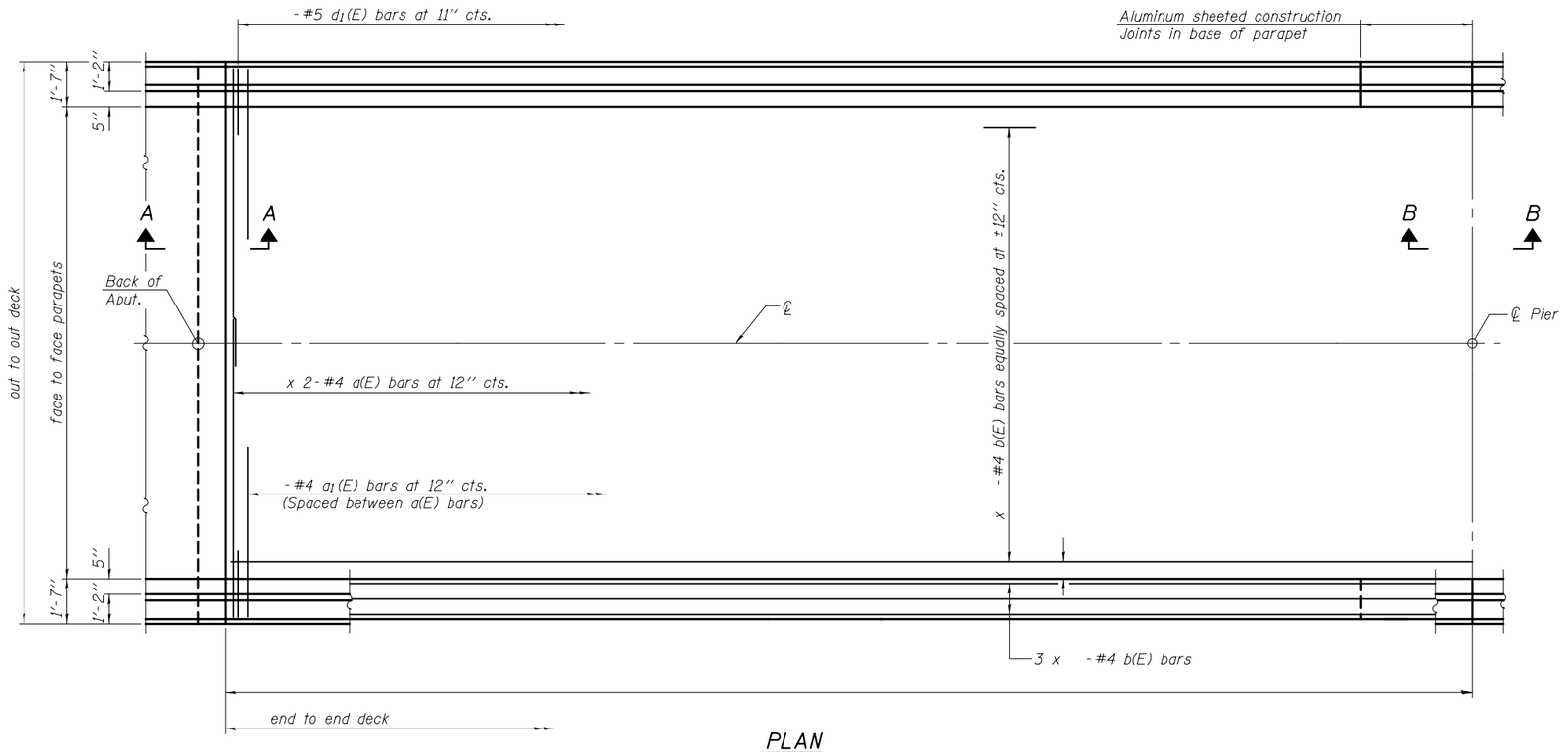
	PLOT DATE =	CHECKED -	REVISED -

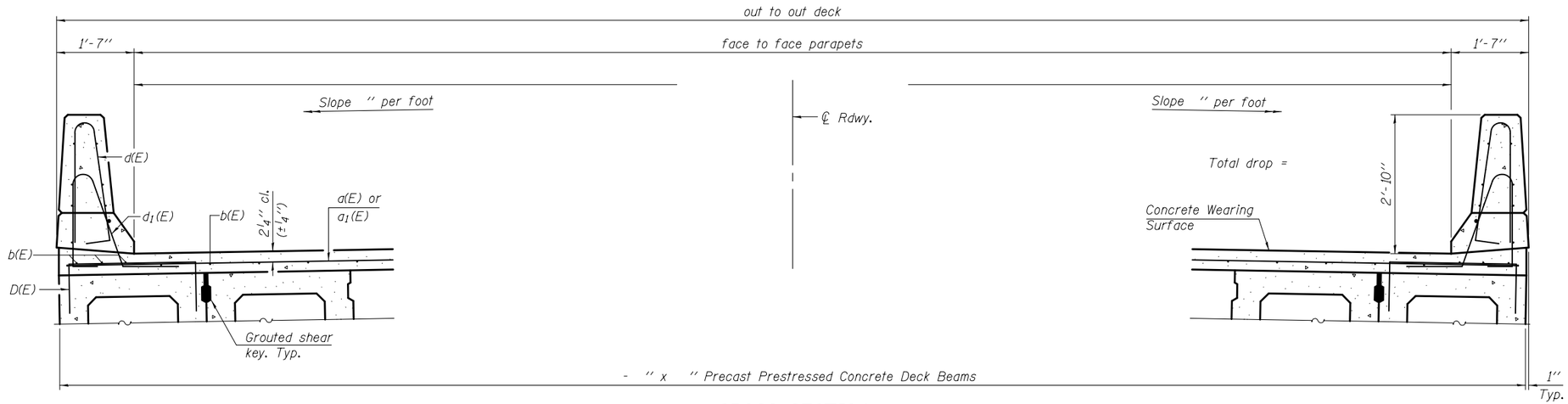
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



PLAN



CROSS SECTION
(Looking)

SECTION A-A

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet of for fabric bearing pad details.

SECTION B-B

*1'' Jt. shall be filled with non-shrink grout. 1'' dimension may vary to accommodate tolerance in beam lengths.

Notes:
See sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2- #4 etc. indicates 20 lines of bars with 2 lengths per line.

MINIMUM BAR LAP

#4 bar = 2'-2''

PDS-M-F-0 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
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	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
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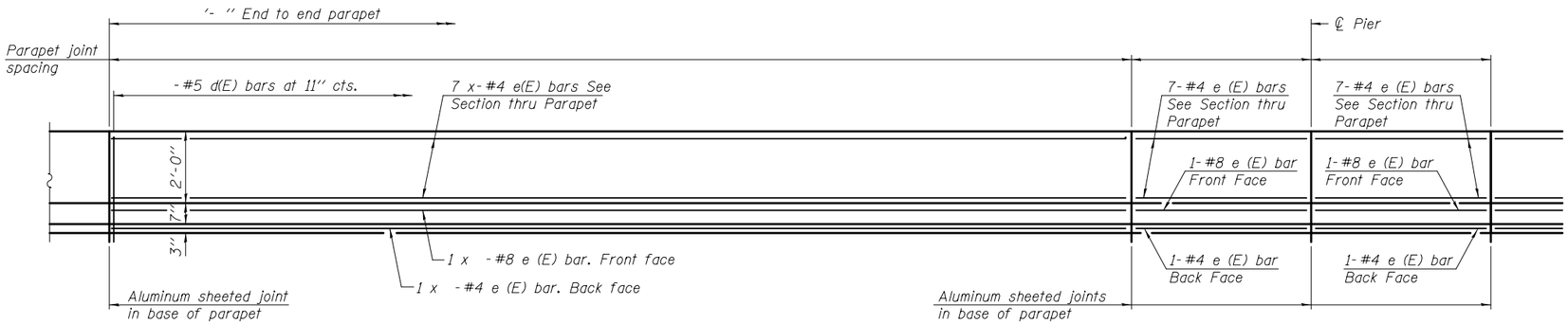
SUPERSTRUCTURE
STRUCTURE NO.

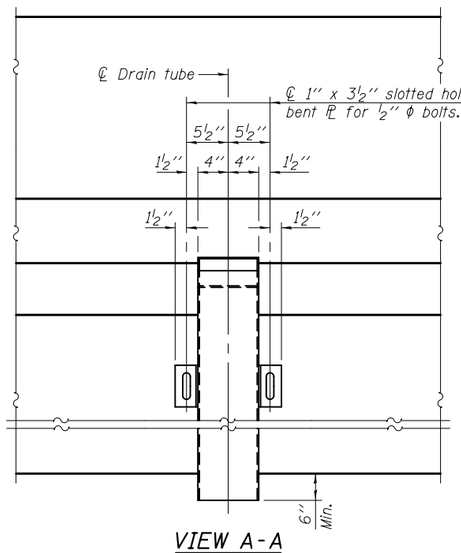
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



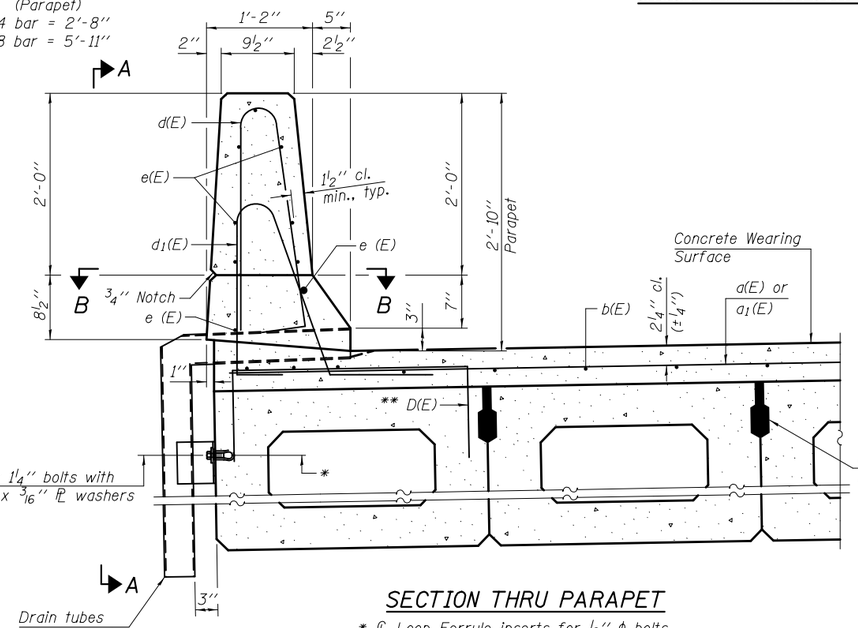
MINIMUM BAR LAP

(Parapet)
#4 bar = 2'-8''
#8 bar = 5'-11''

INSIDE ELEVATION OF PARAPET



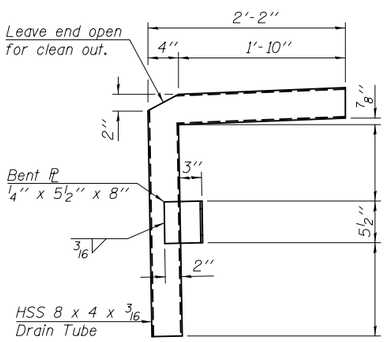
VIEW A-A



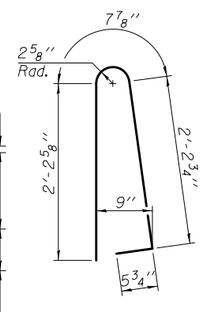
SECTION THRU PARAPET

* ℄ Loop Ferrule inserts for ½'' ϕ bolts. Place at ℄ of beam depth.

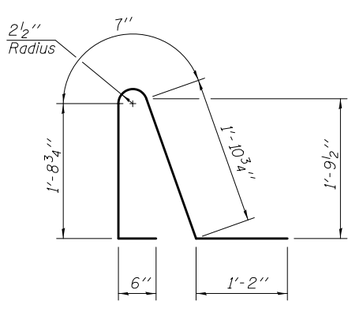
** Place #4 D(E) bars at 9'' cts. in fascia beam. D(E) bar included in cost of beam.



DETAIL A



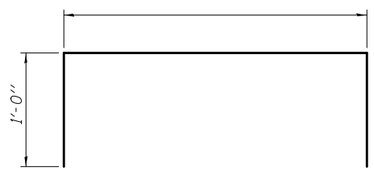
BAR d(E)



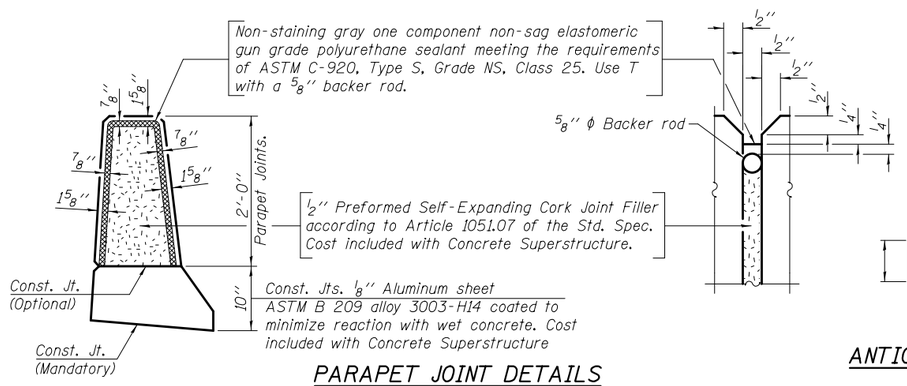
BAR d1(E)

SECTION B-B

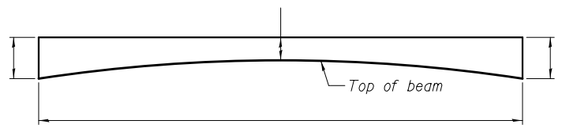
Note:
All drain tubes and accessories shall be galvanized according to AASHTO M111 or M232, (as applicable).
The cost of the drain tube assemblies and everything necessary for their installation is included with Concrete Superstructure.



BAR D(E)



PARAPET JOINT DETAILS



ANTICIPATED CONCRETE WEARING SURFACE PROFILE

(For information only)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)		#4		
a1(E)		#4	6'-0''	
b(E)		#4		
d(E)		#5	5'-7''	
d1(E)		#5	5'-11''	
e(E)		#4		
e (E)		#8		
e (E)		#4		
e (E)		#8		
e (E)		#4		
Reinforcement Bars, Epoxy Coated			Pound	
Concrete Superstructure			Cu. Yd.	
Concrete Wearing Surface, 5''			Sq. Yd.	

Bars indicated thus 1 x -#4 etc. indicates 1 line of bars with lengths per line.

PDS-M-F-D 6-8-15

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STATE OF ILLINOIS
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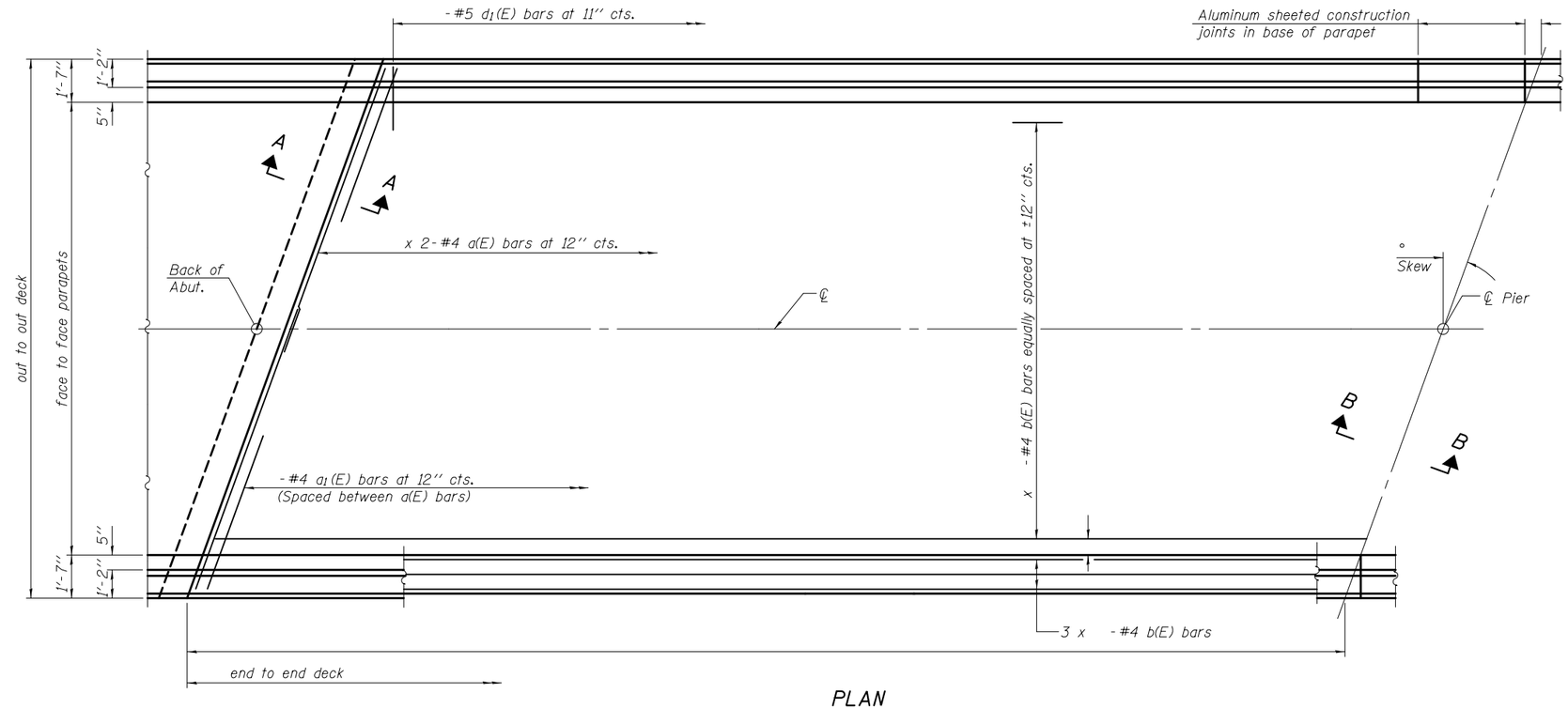
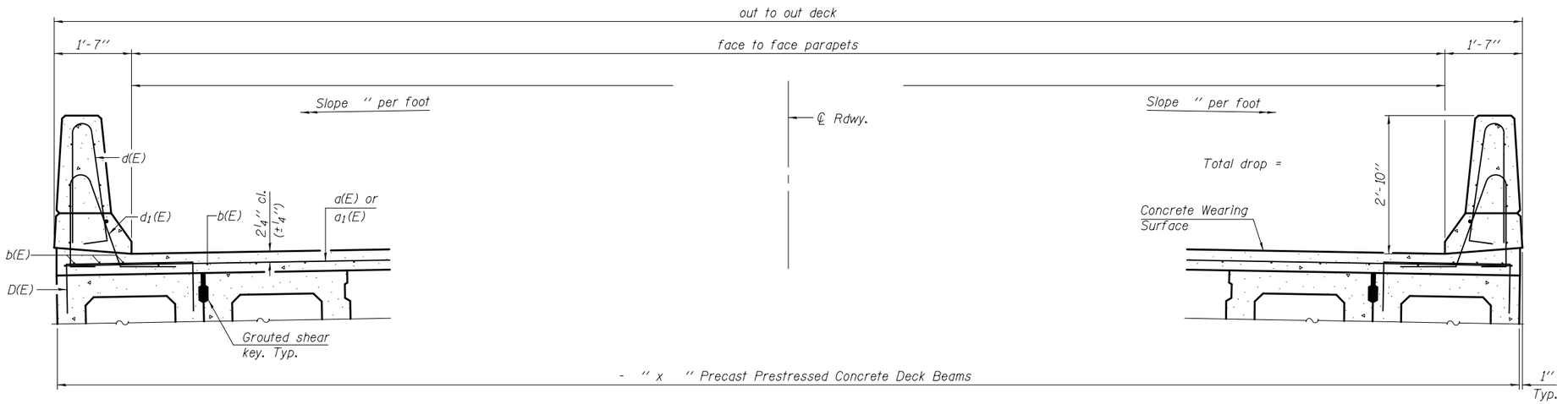
SUPERSTRUCTURE DETAILS
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



PLAN



CROSS SECTION

(Looking)

Notes:
See sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.
Spacing of a(E) and a1(E) bars shall be measured along the ℄ of structure.

SECTION A-A

(Dimensions are at Rt. L's)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet of for fabric bearing pad details.

SECTION B-B

(Dimensions are at Rt. L's)

*1'' Jt. shall be filled with non-shrink grout. 1'' dimension may vary to accommodate tolerance in beam lengths.

MINIMUM BAR LAP

#4 bar = 2'-2''

PDS-M-F-L 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -				
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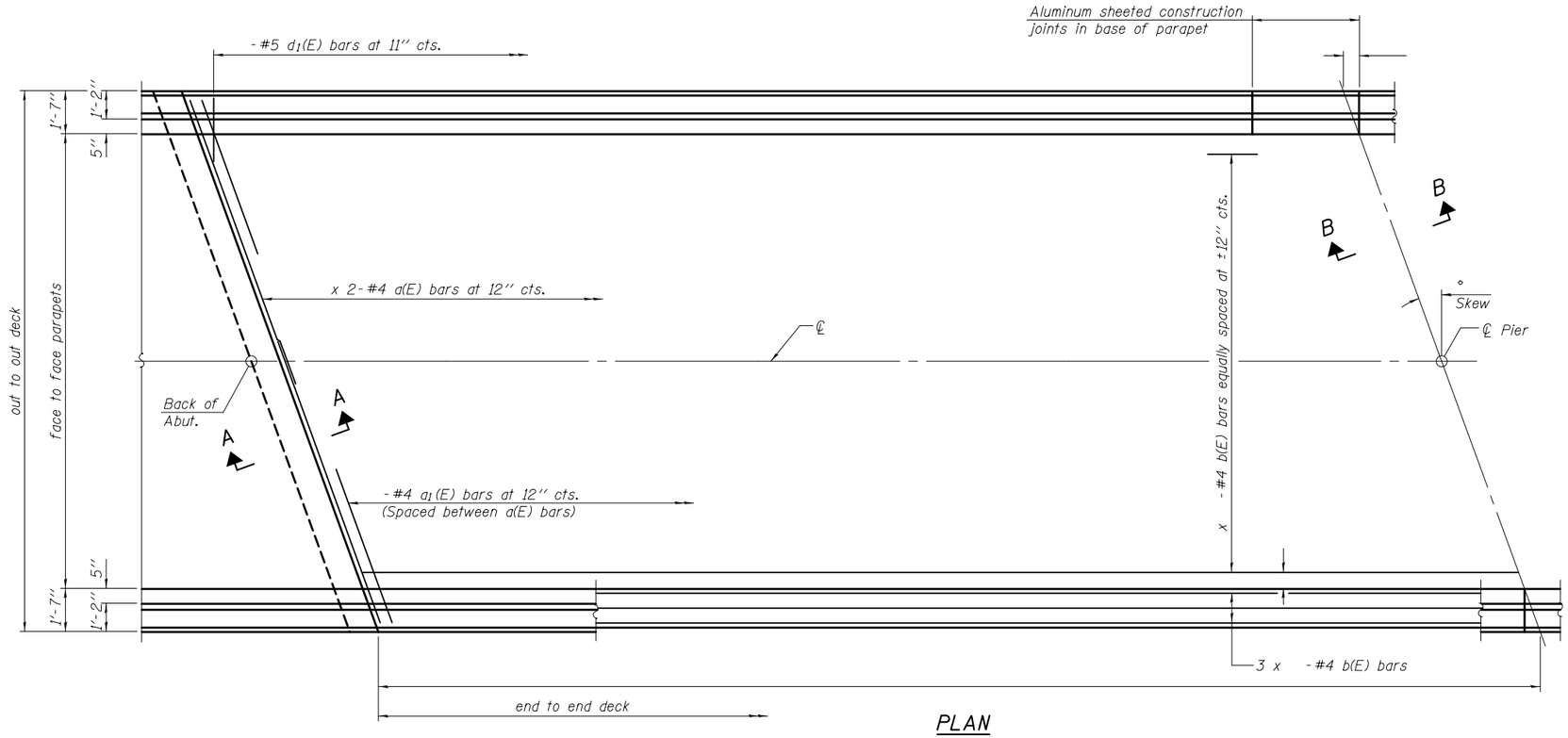
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT



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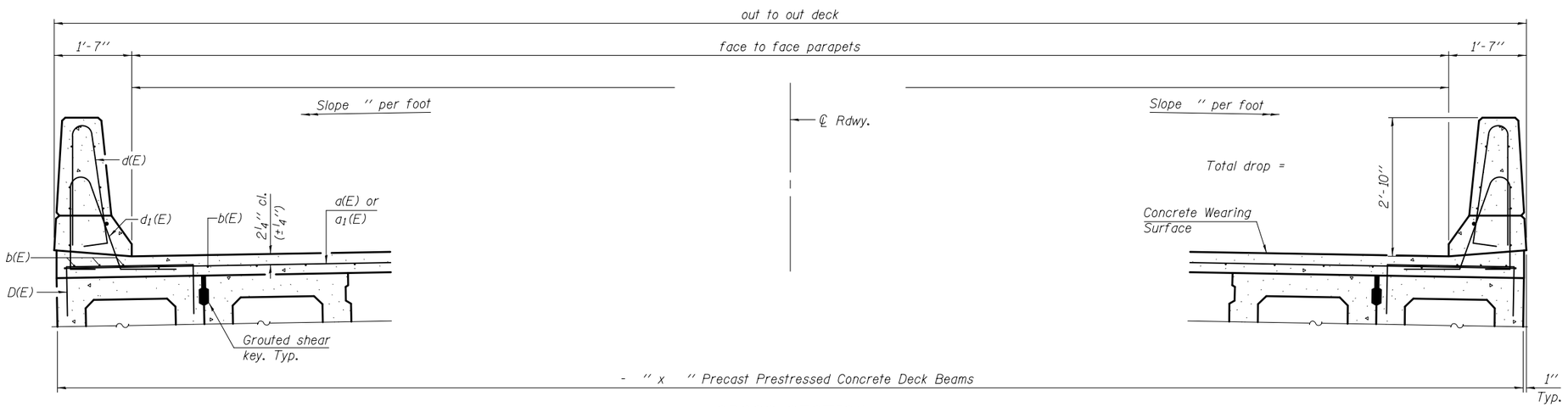

CROSS SECTION

(Looking)

Notes:
See sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.
Spacing of a(E) and a_1(E) bars shall be measured along the ℄ of structure.

SECTION A-A

(Dimensions are at Rt. L's)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet of for fabric bearing pad details.

SECTION B-B

(Dimensions are at Rt. L's)

*1'' Jt. shall be filled with non-shrink grout. 1'' dimension may vary to accommodate tolerance in beam lengths.

MINIMUM BAR LAP

#4 bar = 2'-2''

PDS-M-F-R 6-8-15

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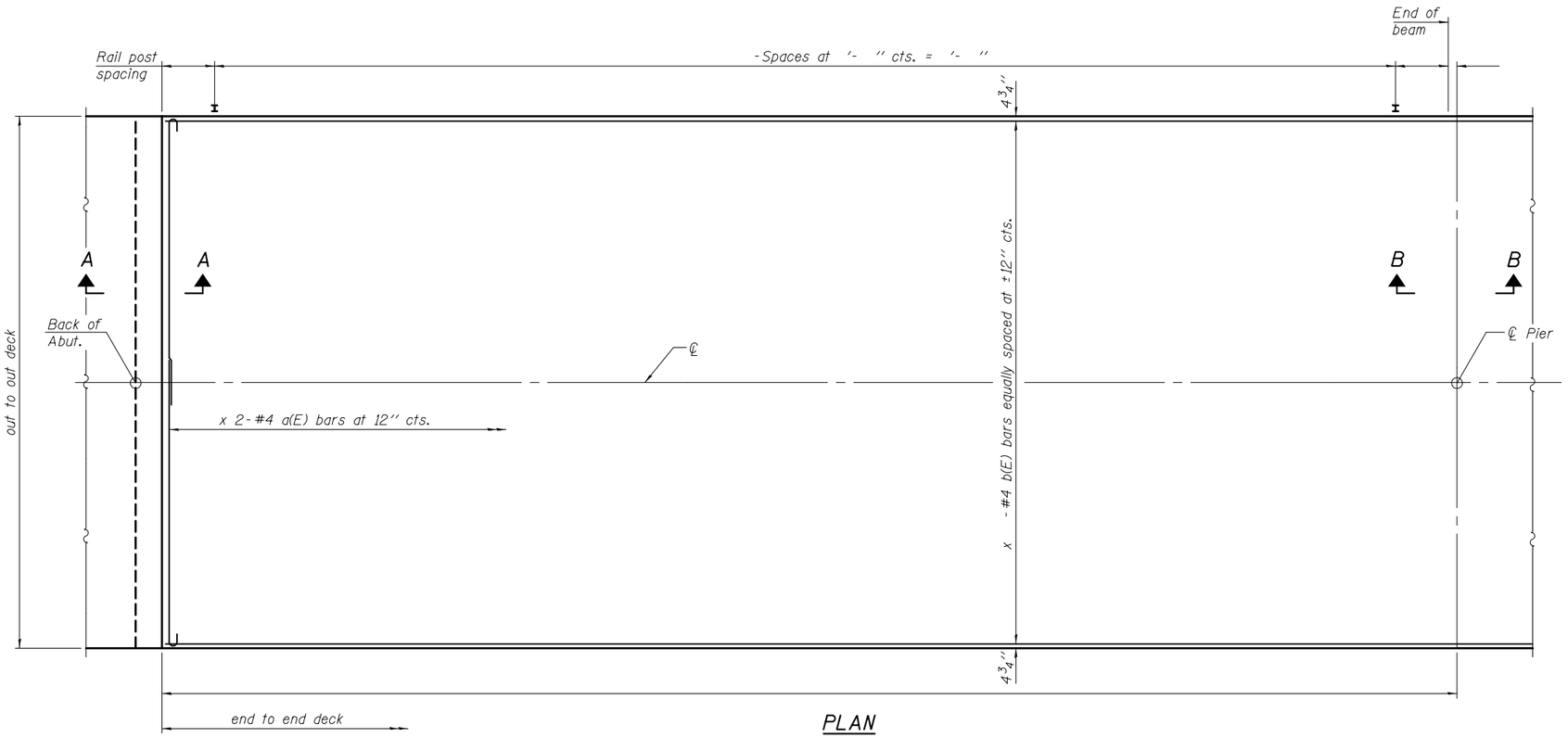
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT



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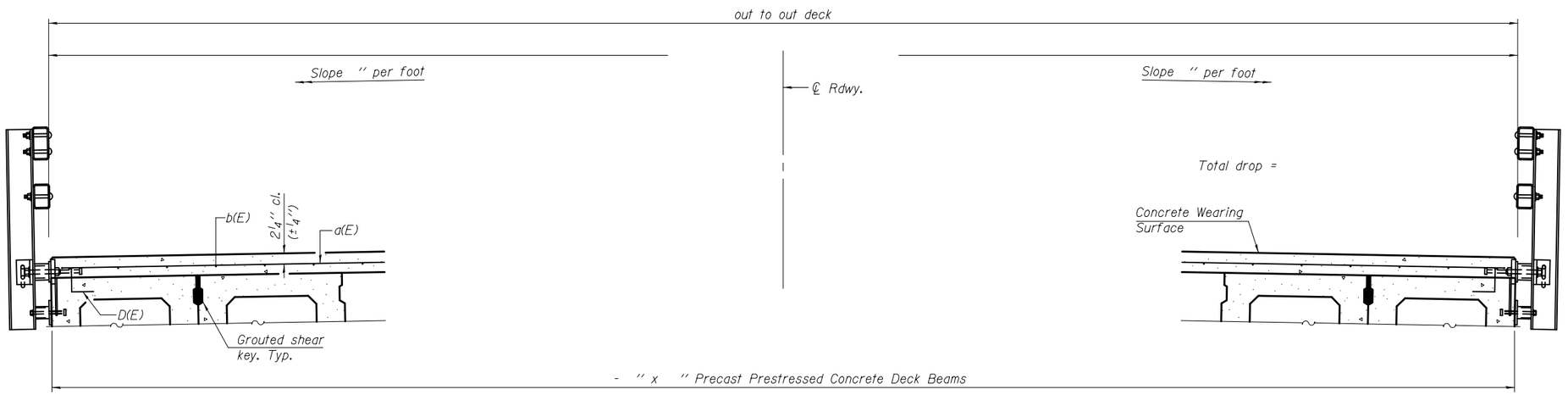

CROSS SECTION
(Looking)

SECTION A-A

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet of for fabric bearing pad details.

SECTION B-B

*1'' Jt. shall be filled with non-shrink grout. 1'' dimension may vary to accommodate tolerance in beam lengths.

Notes:
See sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.

MINIMUM BAR LAP

#4 bar = 2'-2''

PDS-M-R34-0 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
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STATE OF ILLINOIS
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SUPERSTRUCTURE
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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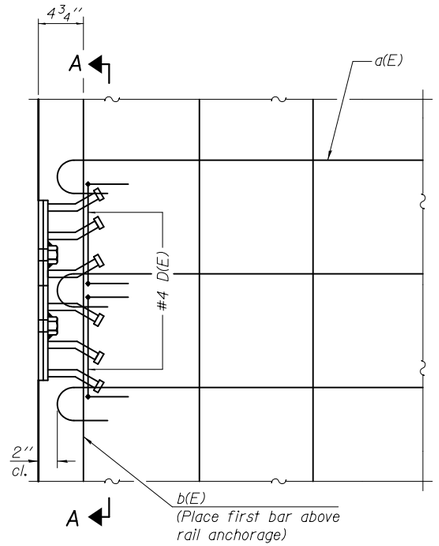
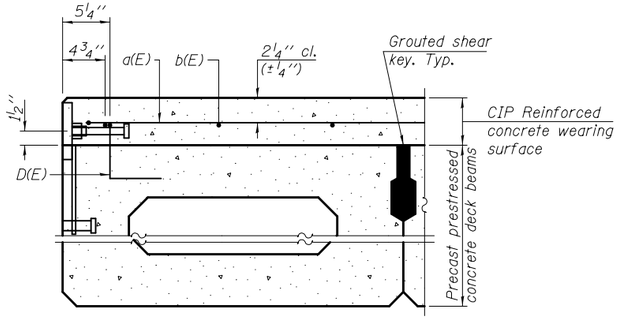
	ILLINOIS FED. AID PROJECT			

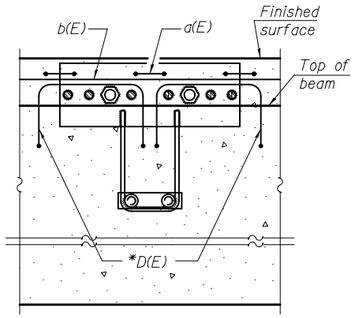


PLAN

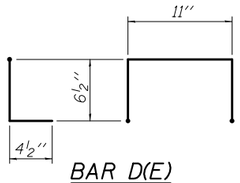
Notes:
Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam.



SECTION THRU FASCIA BEAM

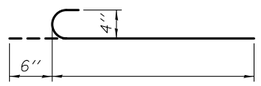


SECTION A-A

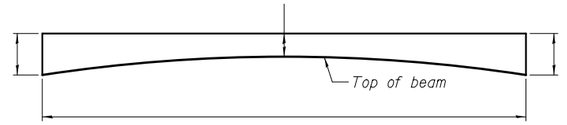


BAR D(E)

* Place 2-#4 D(E) bars in beam at each post location as shown. D(E) bar included in cost of beam.



BAR a(E)



ANTICIPATED CONCRETE WEARING SURFACE PROFILE
(For information only)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)		#4		
b(E)		#4		
Reinforcement Bars, Epoxy Coated			Pound	
Concrete Wearing Surface, 5''			Sq. Yd.	

Bars indicated thus 1 x -#4 etc. indicates 1 line of bars with lengths per line.

PDS-M-R34-D 1-27-12

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SUPERSTRUCTURE DETAILS
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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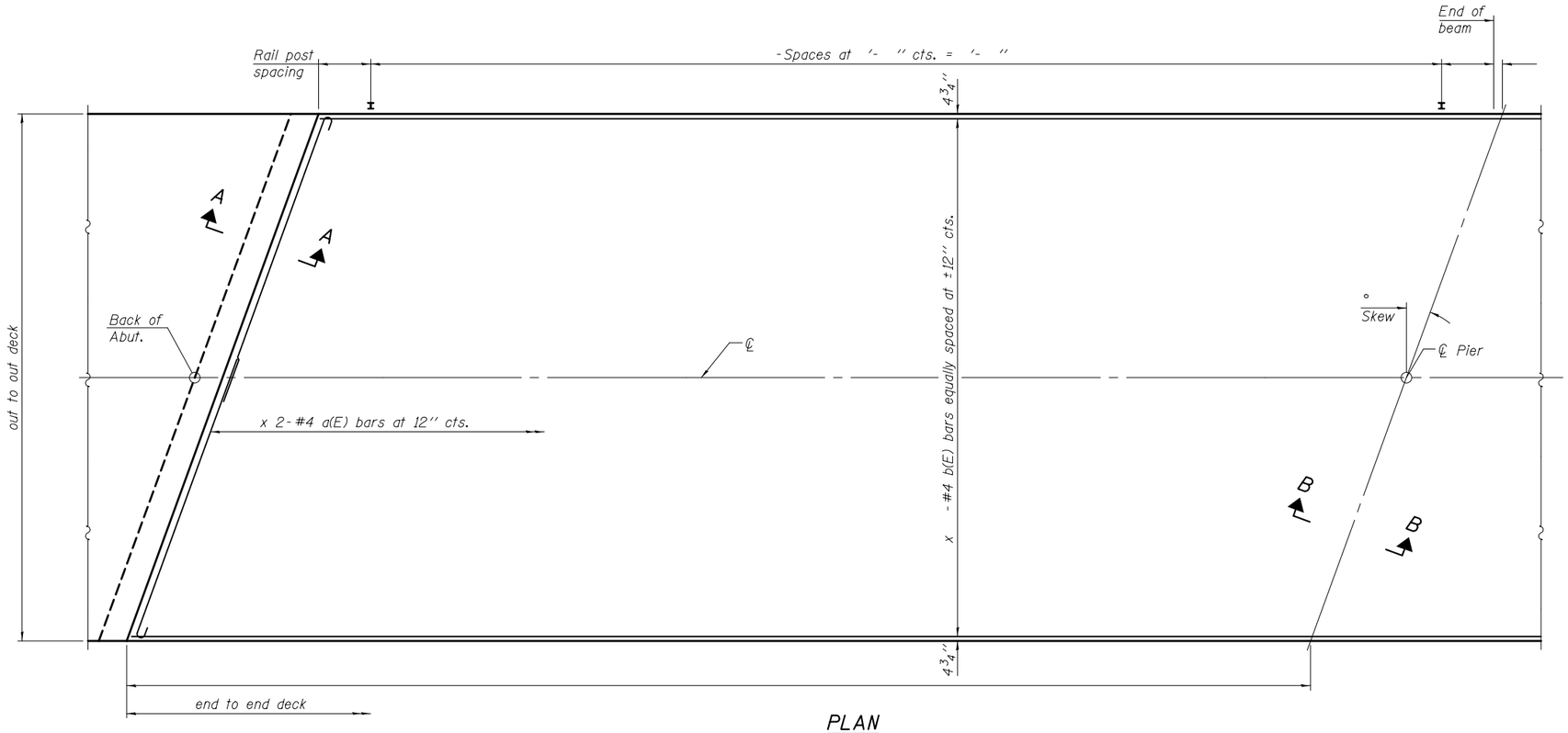
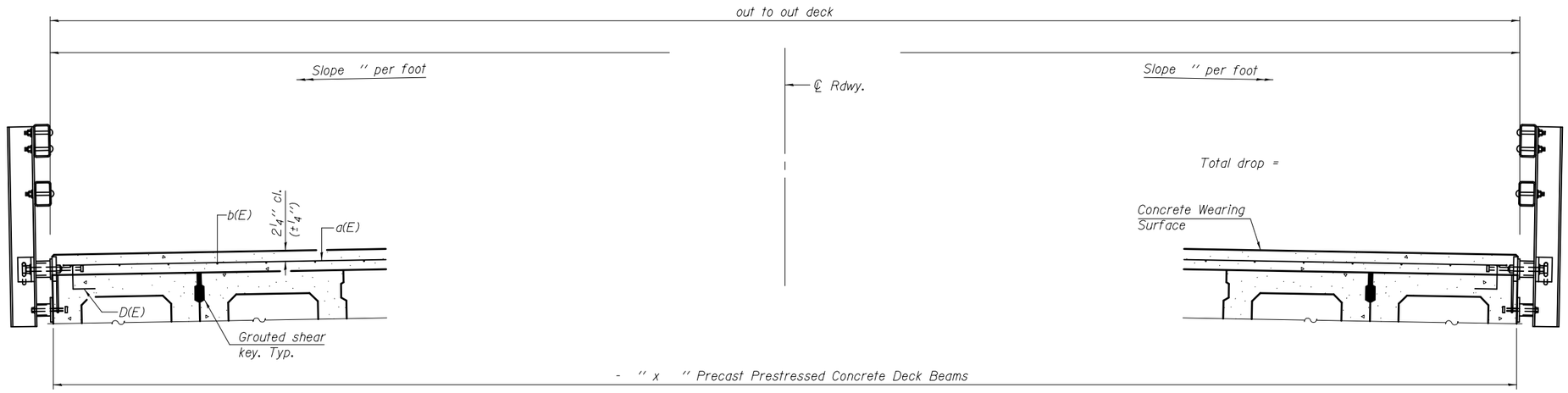
	ILLINOIS	FED. AID PROJECT		



PLAN



CROSS SECTION
(Looking)

Notes:
See sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.
Spacing of a(E) bars shall be measured along the ℄ of structure.

SECTION A-A
(Dimensions are at Rt. L's)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet of for fabric bearing pad details.

SECTION B-B
(Dimensions are at Rt. L's)

*1'' Jt. shall be filled with non-shrink grout. 1'' dimension may vary to accommodate tolerance in beam lengths.

MINIMUM BAR LAP
#4 bar = 2'-2''

PDS-M-R34-L 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
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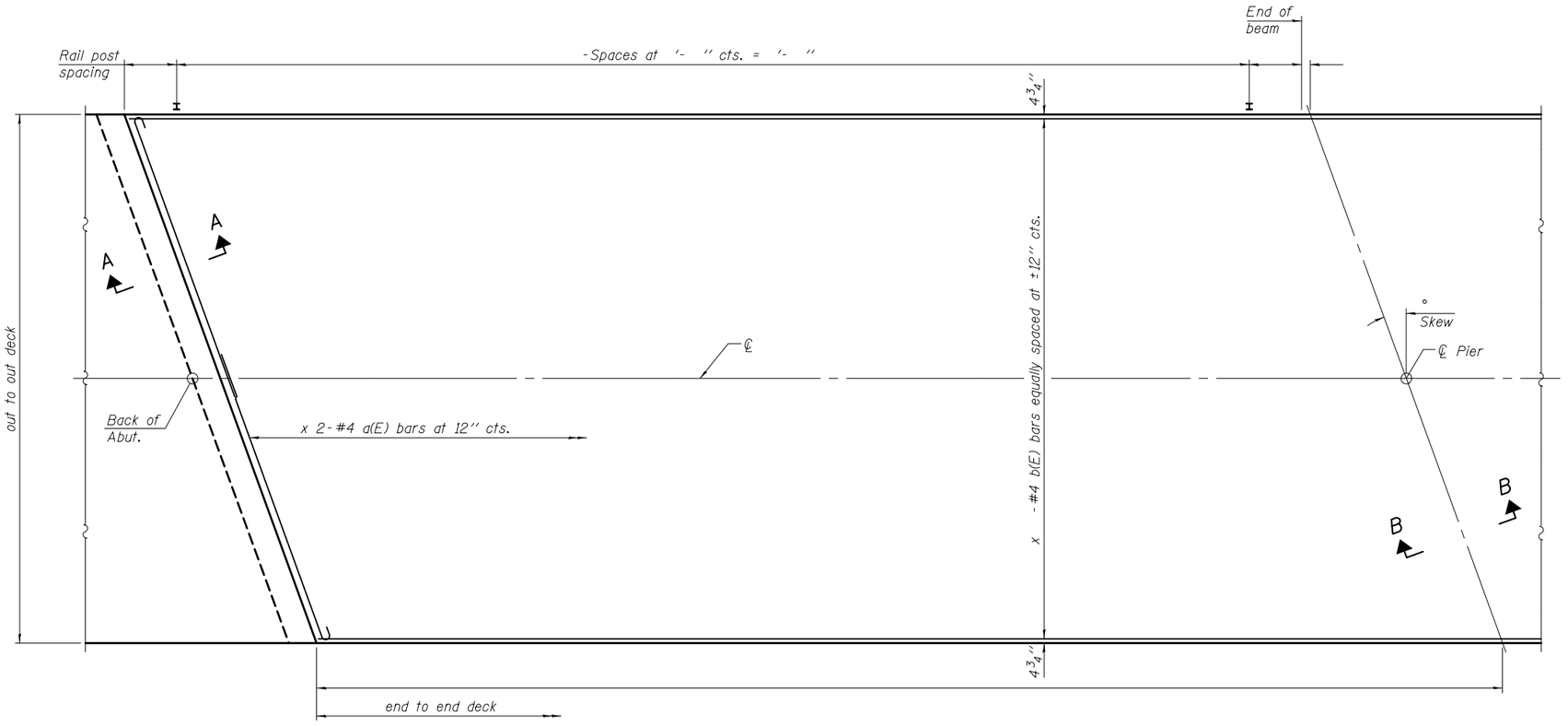

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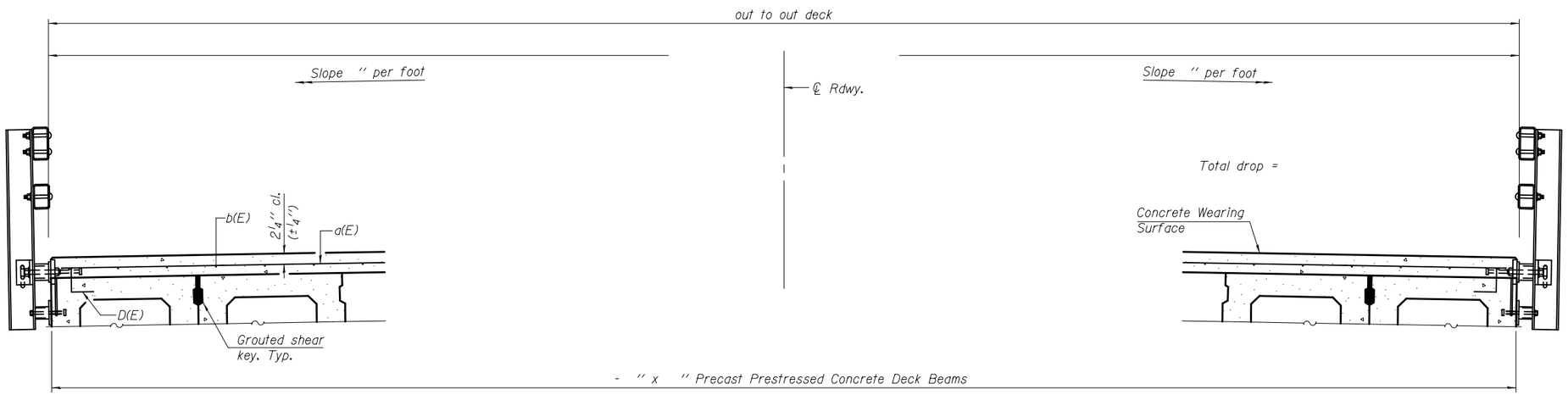

CROSS SECTION
(Looking)

Notes:
See sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.
Spacing of a(E) bars shall be measured along the ℄ of structure.

SECTION A-A
(Dimensions are at Rt. L's)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet of for fabric bearing pad details.

SECTION B-B
(Dimensions are at Rt. L's)

*1'' Jt. shall be filled with non-shrink grout. 1'' dimension may vary to accommodate tolerance in beam lengths.

MINIMUM BAR LAP
#4 bar = 2'-2''

PDS-M-R34-R 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
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STATE OF ILLINOIS
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STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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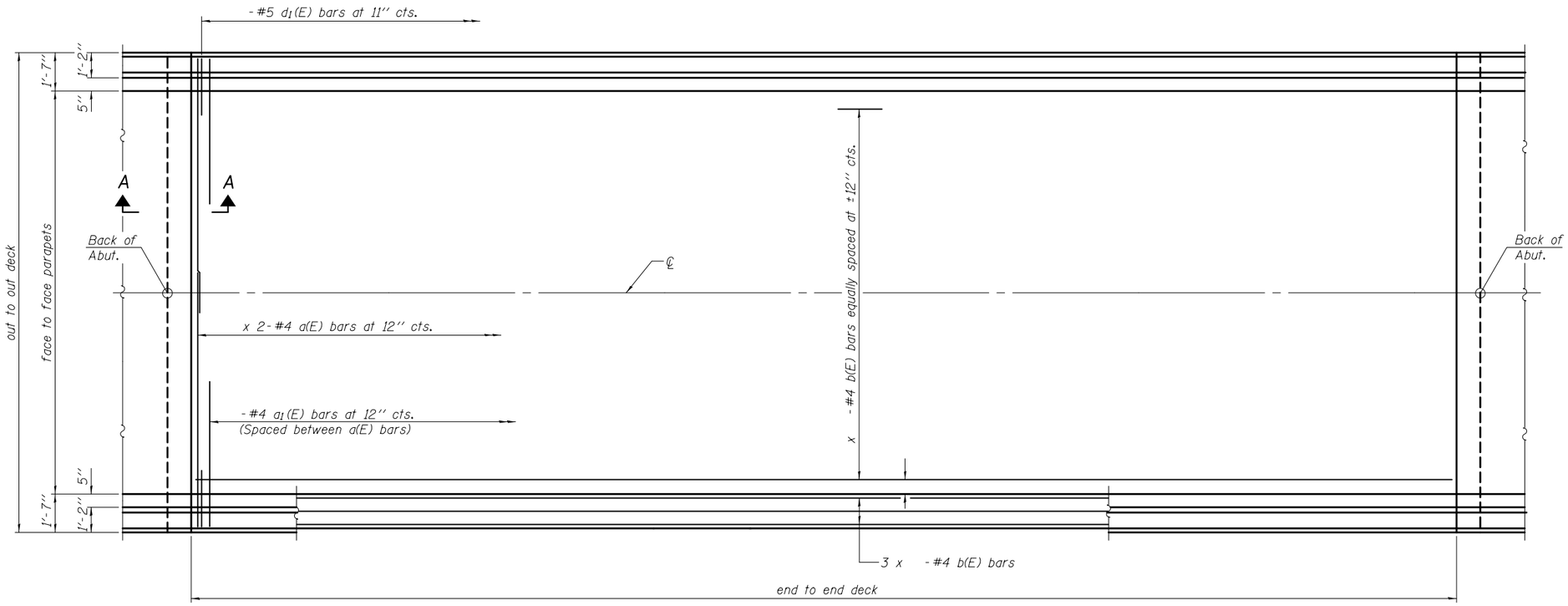
	ILLINOIS	FED. AID PROJECT		



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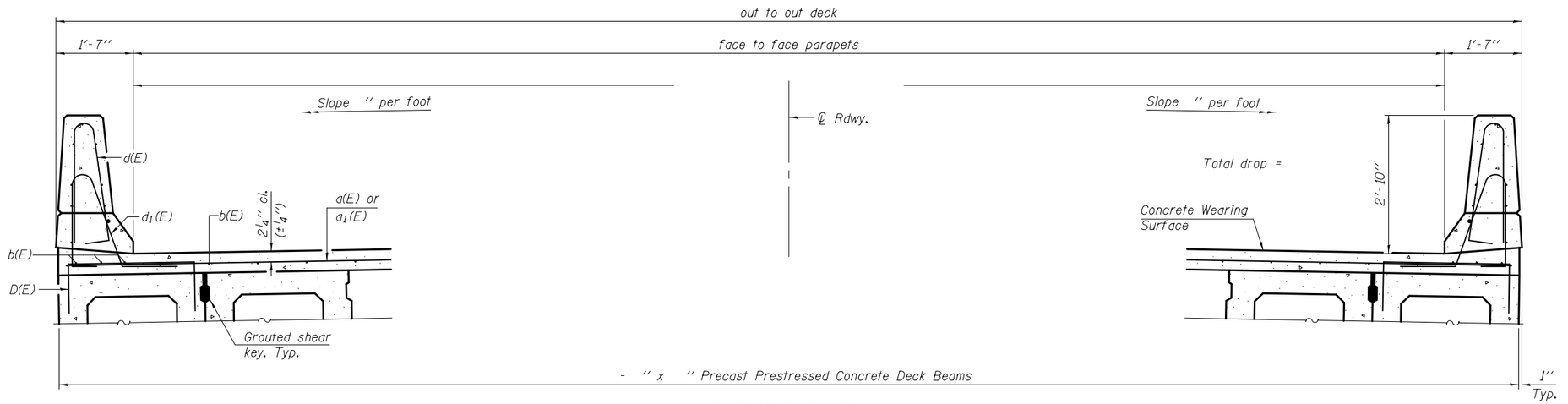

CROSS SECTION
(Looking)

SECTION A-A

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet of for fabric bearing pad details.

Notes:
See sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.

MINIMUM BAR LAP

#4 bar = 2'-2''

PDS-S-F-0 6-8-15

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
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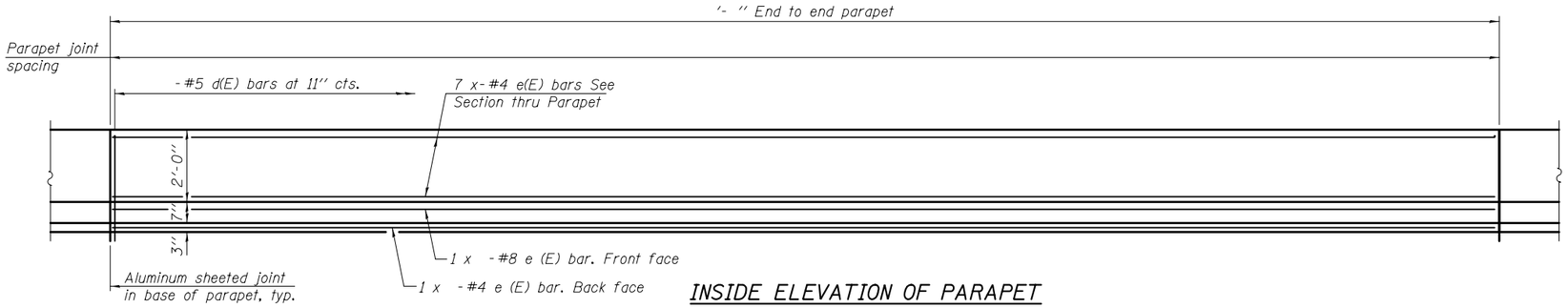
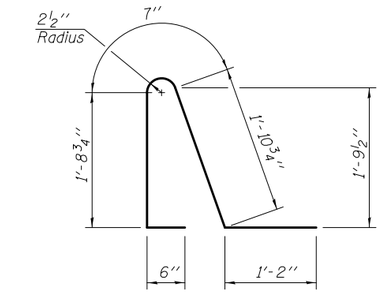
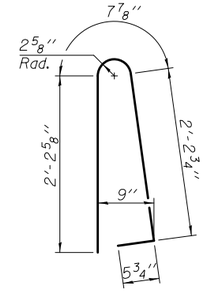


INSIDE ELEVATION OF PARAPET



BAR d_1(E)



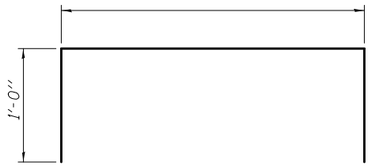
BAR d(E)

MINIMUM BAR LAP

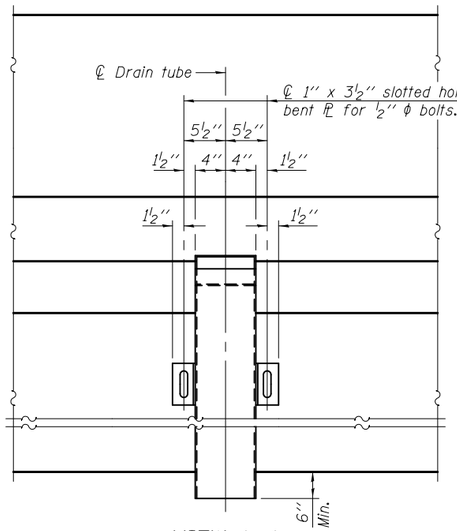
(Parapet)

#4 bar = 2'-8''

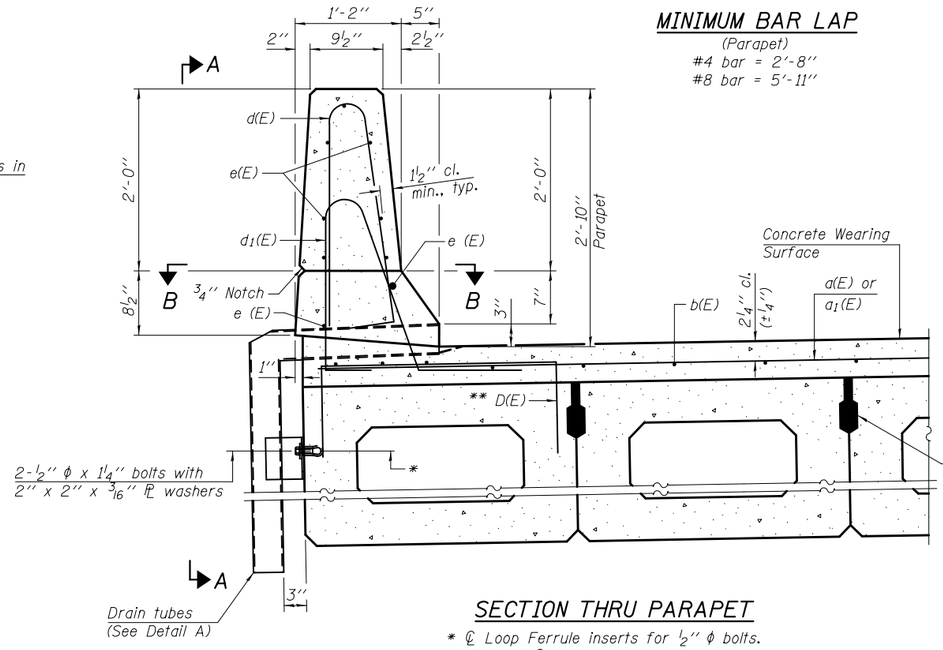
#8 bar = 5'-11''



BAR D(E)



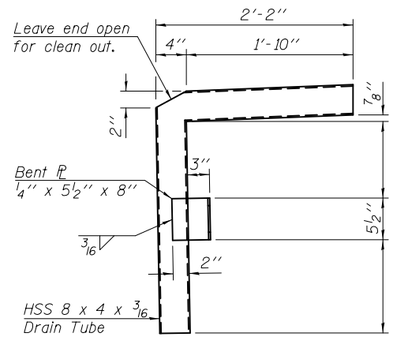
VIEW A-A



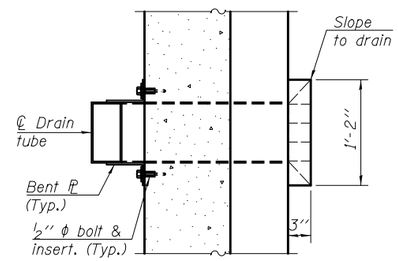
SECTION THRU PARAPET

* ℄ Loop Ferrule inserts for ½'' ϕ bolts. Place at ℄ of beam depth.

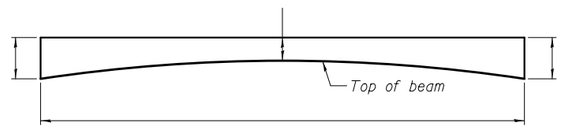
** Place #4 D(E) bars at 9'' cts. in fascia beam. D(E) bar included in cost of beam.



DETAIL A



SECTION B-B



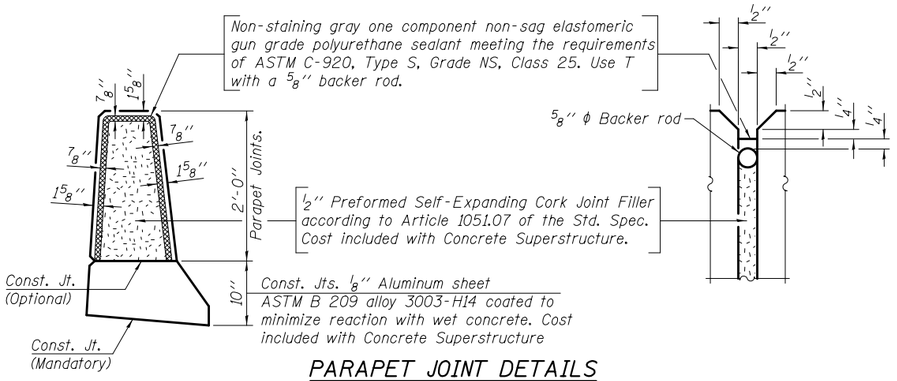
ANTICIPATED CONCRETE WEARING SURFACE PROFILE

(For information only)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	SIze	Length	Shape
a(E)		#4		
a_1(E)		#4	6'-0''	
b(E)		#4		
d(E)		#5	5'-7''	
d_1(E)		#5	5'-11''	
e(E)		#4		
e (E)		#8		
e (E)		#4		
Reinforcement Bars, Epoxy Coated			Pound	
Concrete Superstructure			Cu. Yd.	
Concrete Wearing Surface, 5''			Sq. Yd.	

Bars indicated thus 1 x -#4 etc. indicates 1 line of bars with lengths per line.



PARAPET JOINT DETAILS

Note:

All drain tubes and accessories shall be galvanized according to AASHTO M111 or M232, (as applicable).

The cost of the drain tube assemblies and everything necessary for their installation is included with Concrete Superstructure.

PDS-S-F-D 6-8-15

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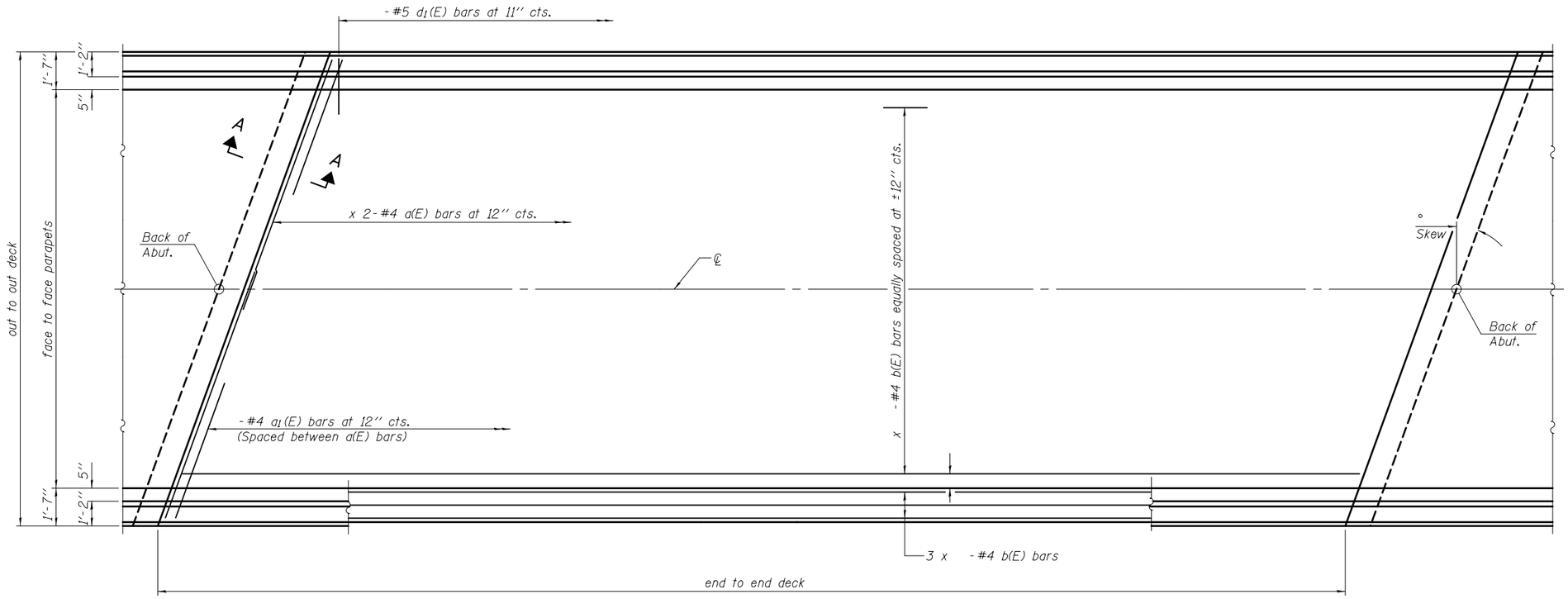
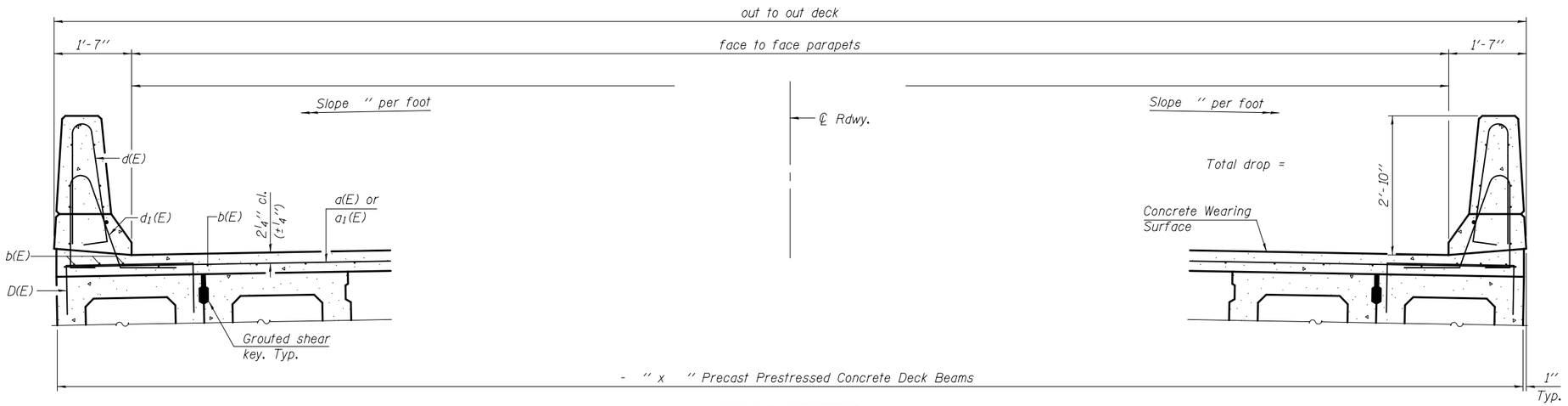
		CHECKED -	REVISED -				
	PLOT SCALE =	DRAWN -	REVISED -				CONTRACT NO.
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT



PLAN



CROSS SECTION

(Looking)

SECTION A-A

(Dimensions are at Rt. L's)

Notes:

All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.

See sheet of for fabric bearing pad details.

Notes:

See sheet of for Superstructure Details and Bill of Material.

Bars indicated thus 20 x 2- #4 etc. indicates 20 lines of bars with 2 lengths per line.

Spacing of a(E) and a1(E) bars shall be measured along the ℄ of structure.

MINIMUM BAR LAP

#4 bar = 2'-2''

PDS-S-F-L 6-8-15

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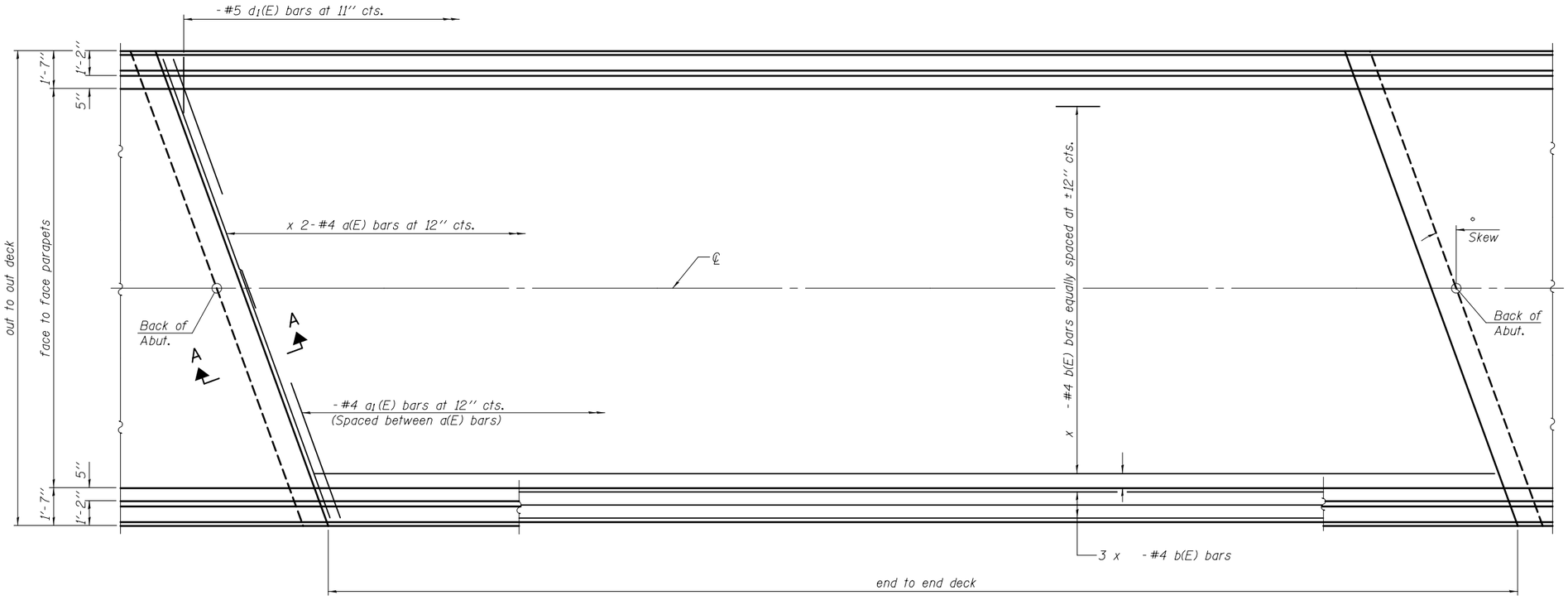
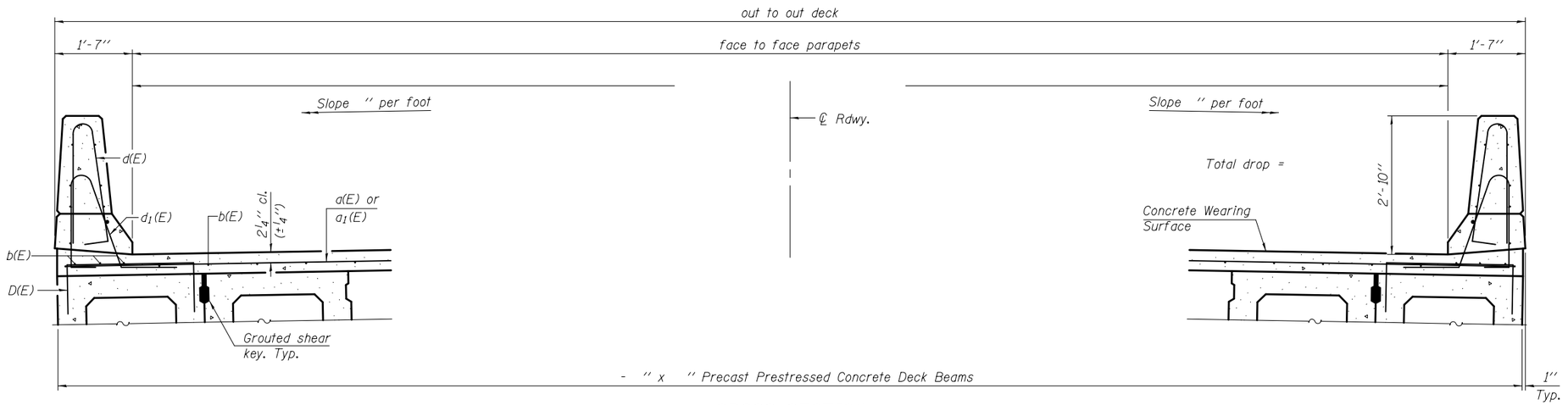


PLAN



CROSS SECTION

(Looking)

Notes:
See sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2- #4 etc. indicates 20 lines of bars with 2 lengths per line.
Spacing of a(E) and a_1(E) bars shall be measured along the ℄ of structure.

SECTION A-A

(Dimensions are at Rt. L's)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet of for fabric bearing pad details.

MINIMUM BAR LAP

#4 bar = 2'-2''

PDS-S-F-R 6-8-15

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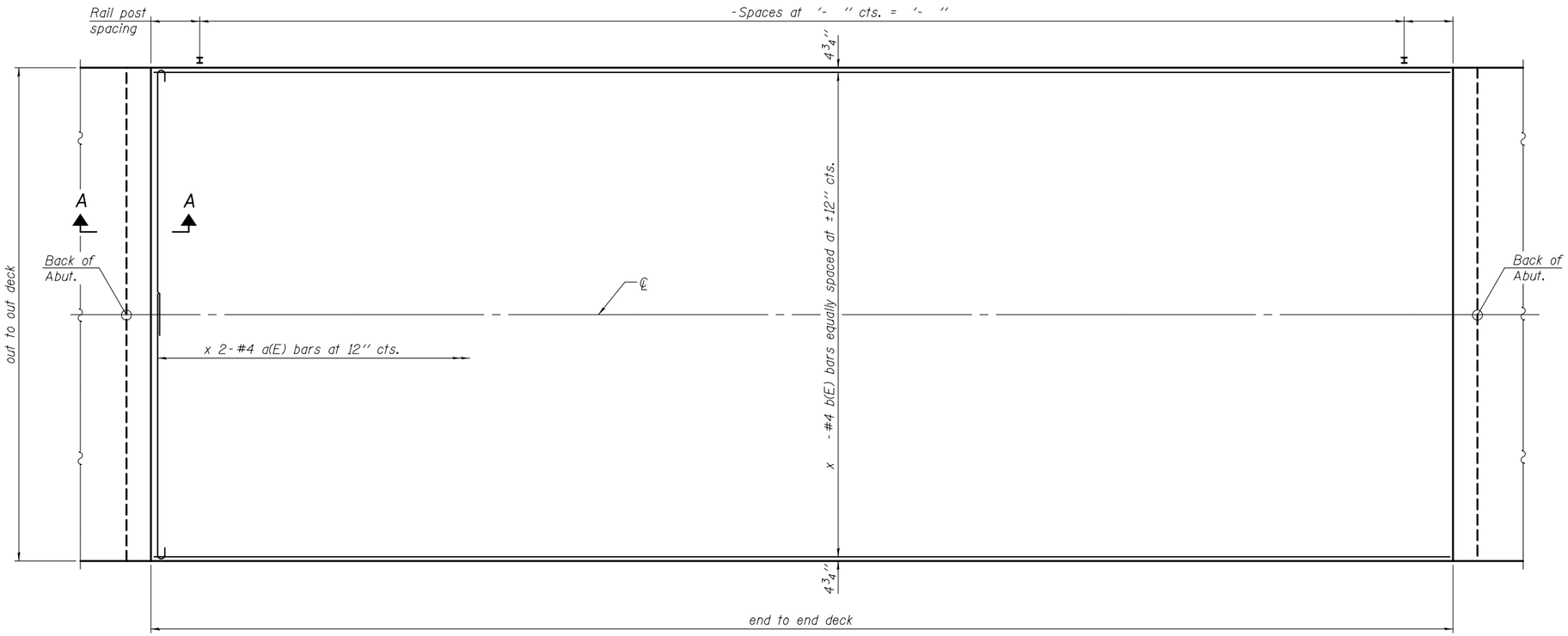
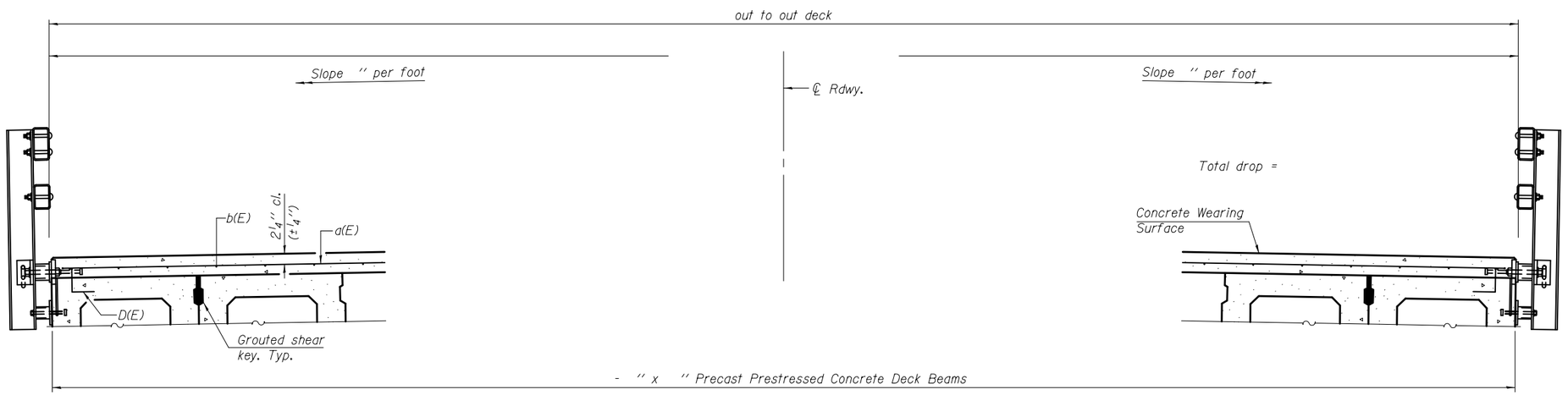


PLAN



CROSS SECTION
(Looking)

SECTION A-A

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet of for fabric bearing pad details.

Notes:
See sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.

MINIMUM BAR LAP

#4 bar = 2'-2''

PDS-S-R34-0 6-8-15

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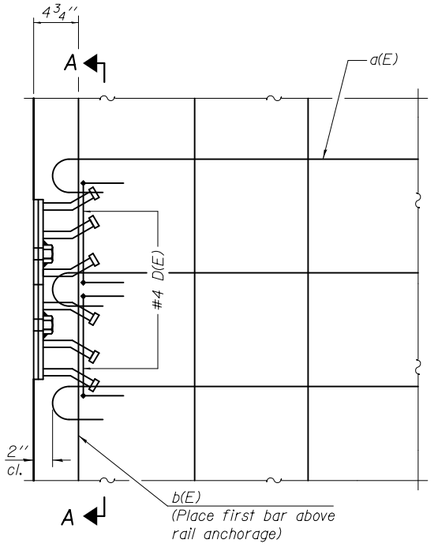
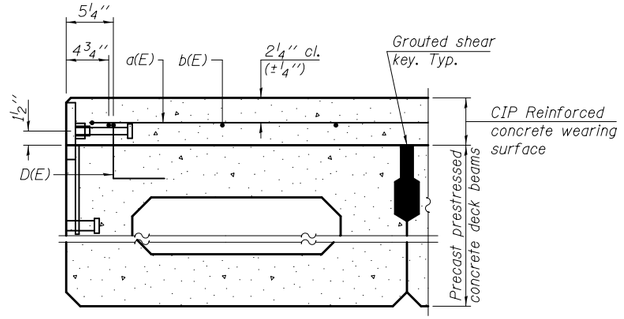
	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT

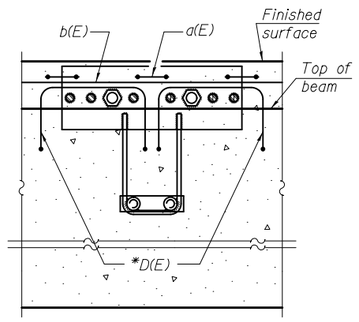


PLAN

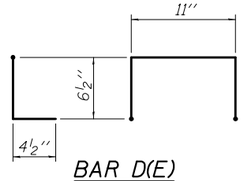
Notes:
Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam.



SECTION THRU FASCIA BEAM

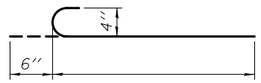


SECTION A-A

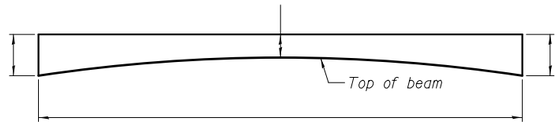


BAR D(E)

* Place 2-#4 D(E) bars in beam at each post location as shown. D(E) bar included in cost of beam.



BAR a(E)



ANTICIPATED CONCRETE WEARING SURFACE PROFILE
(For information only)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)		#4		
b(E)		#4		
Reinforcement Bars, Epoxy Coated			Pound	
Concrete Wearing Surface, 5''			Sq. Yd.	

Bars indicated thus 1 x - #4 etc. indicates 1 line of bars with lengths per line.

PDS-S-R34-D 1-27-12

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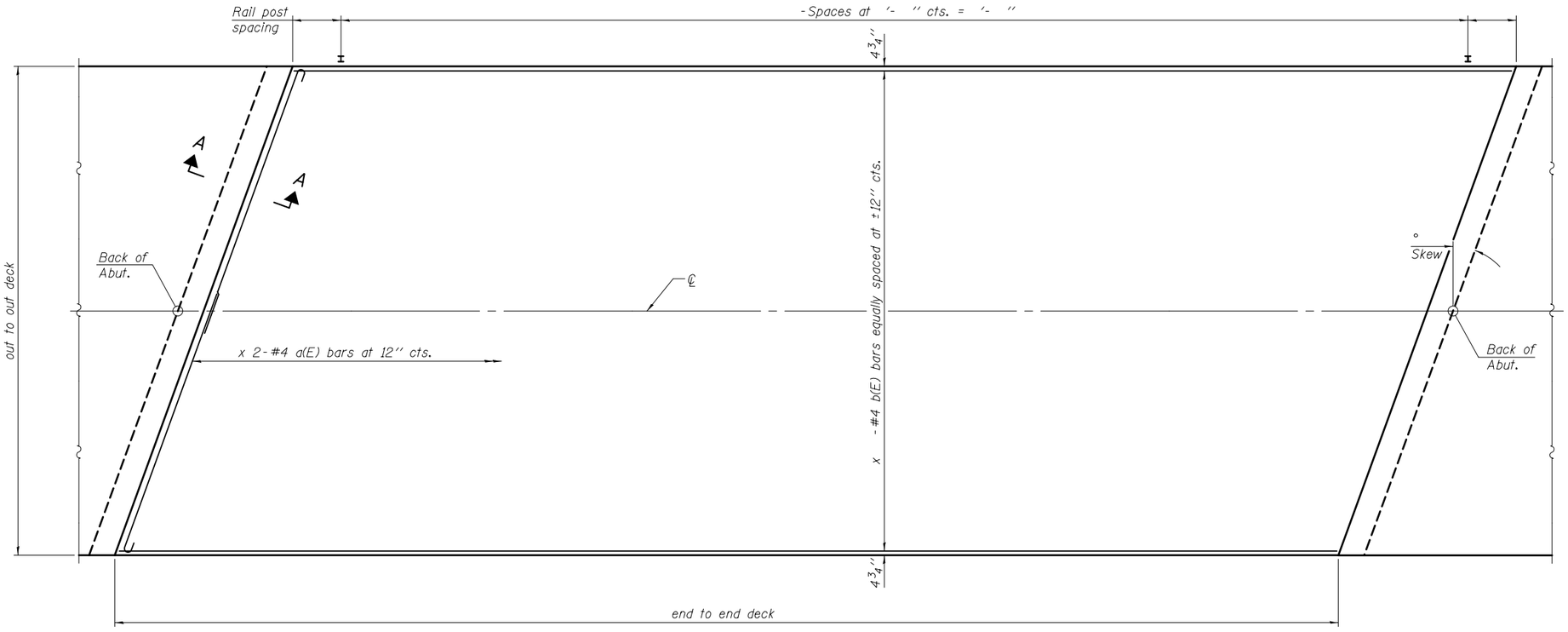
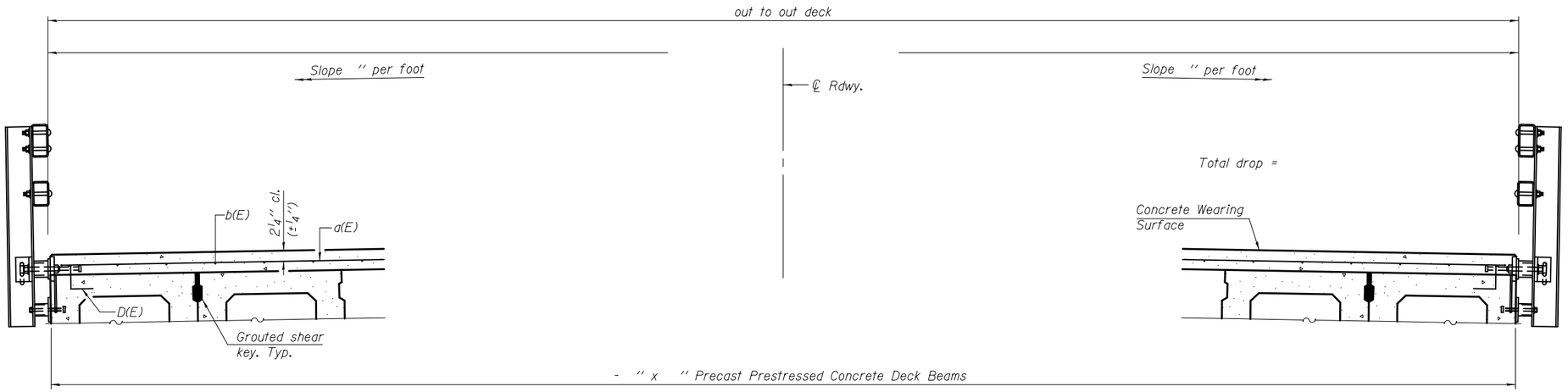
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



PLAN



CROSS SECTION
(Looking)

Notes:
See sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.
Spacing of d(E) bars shall be measured along the ℄ of structure.

SECTION A-A
(Dimensions are at Rt. L's)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet of for fabric bearing pad details.

MINIMUM BAR LAP
#4 bar = 2'-2''

PDS-S-R34-L 6-8-15

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		CHECKED -	REVISED -				
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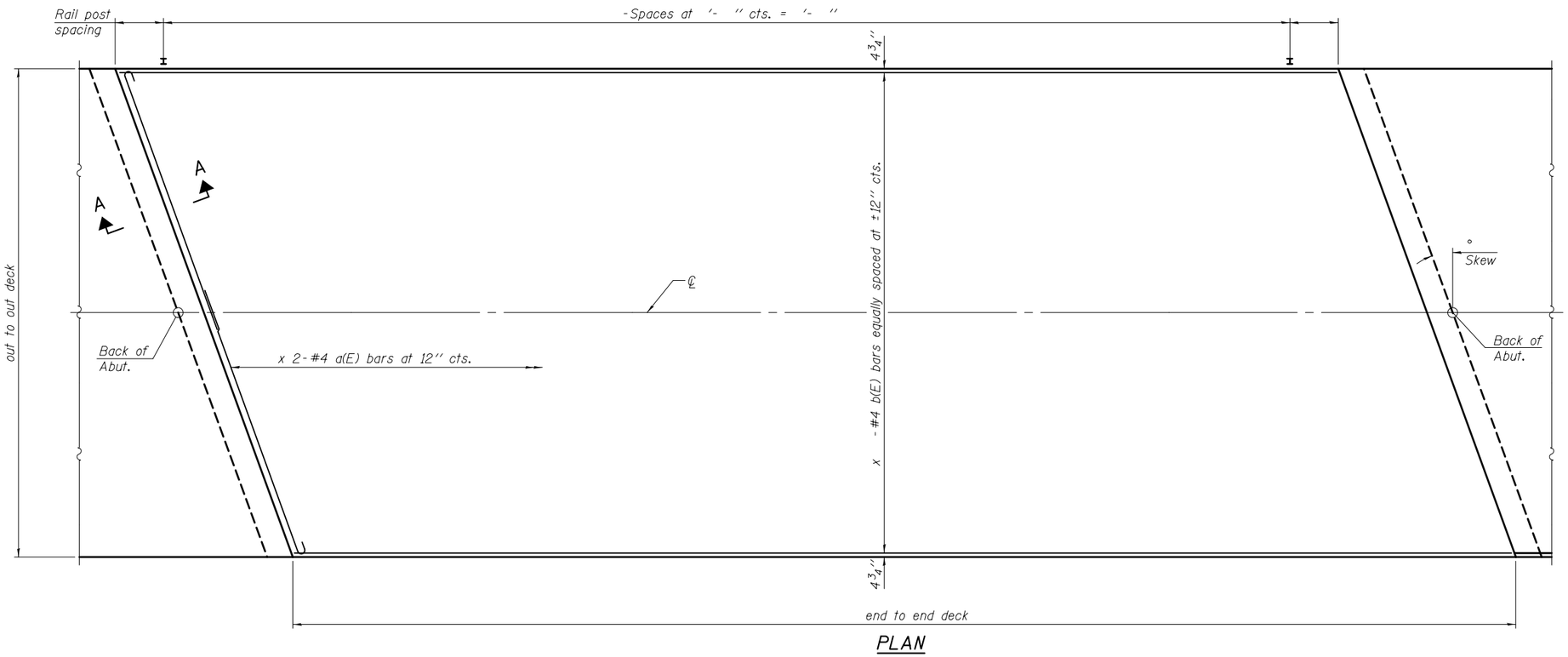

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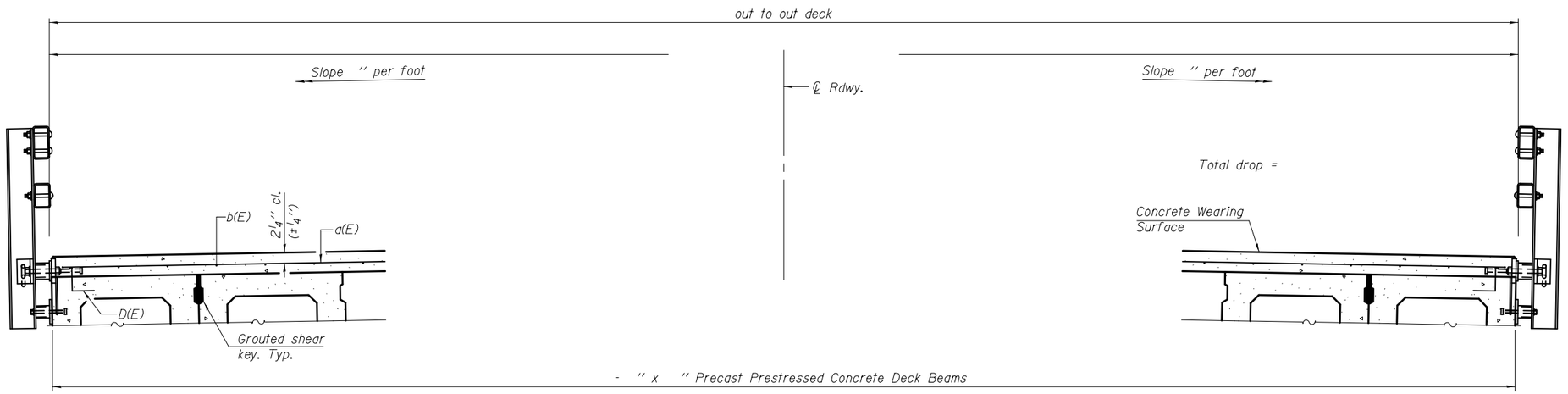

CROSS SECTION

(Looking)

SECTION A-A

(Dimensions are at Rt. L's)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet of for fabric bearing pad details.

Notes:
See sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.
Spacing of a(E) bars shall be measured along the ℄ of structure.

MINIMUM BAR LAP

#4 bar = 2'-2''

PDS-S-R34-R 6-8-15

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SUPERSTRUCTURE
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
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