

STATE	FEDERAL PROJECT NO.	SHEET	TOTAL SHEETS
N. J.			
(D)	STRUCTURE NO.		
	STRUCTURE NAME		

GENERAL NOTES

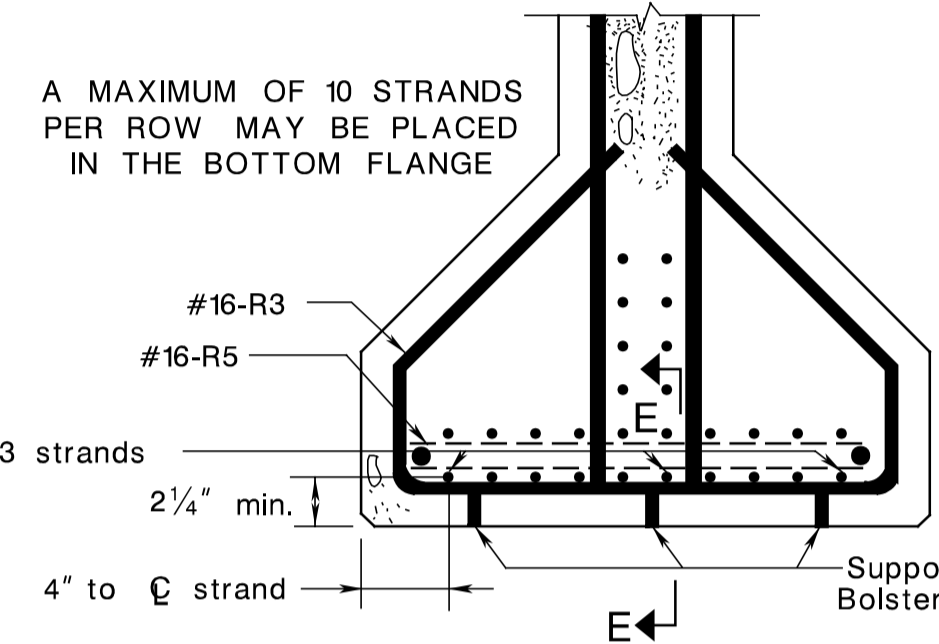
- DESIGN SPECIFICATIONS**
(D) The AASHTO LRFD Bridge Design Specifications, with current interims, as modified by Section 3 of the NJDOT Design Manual for Bridges and Structures.
- LIVE LOAD**
HL-93 or NJDOT Permit Vehicle, whichever governs.
- PRESTRESSING STEEL**
The pretensioning strands shall be 1/2" dia., or 0.6" dia., 7-wire uncoated steel strands conforming to current AASHTO M203 Grade 270 and shall be low relaxation strands. Each strand shall be given an initial tension of 0.75 f's x A_s as specified in applicable sections of the PCI Design Handbook - Precast and Prestressed Concrete. Any change in the system of prestressing must be accompanied by complete calculations for approval by the Engineer.
- CONCRETE DESIGN STRESSES**
(D) Design compressive strength (f'_c) = _____ psi, class _____ concrete,
(D) Compressive strength at prestress (f'_{ci}) = _____ psi.
- CONCRETE**
All exposed corners shall be chamfered 3/4" or rounded to 3/4" radius. All angles of intersection between web and flanges shall be rounded to not less than 3/4" radius. Top surface of beams shall be roughened to the satisfaction of the Engineer. At approximate time of initial set all laitance shall be removed with a stiff wire brush.
- SOLE PLATES**
Cost of Sole Plates shall be included in price bid for Prestressed Concrete Beams. Sole Plates shall be galvanized as per Specifications.
- DIAPHRAGMS**
For the angle θ between the center line of beam and center line of diaphragms or bearings reference the Framing Plan.
- MILD STEEL REINFORCEMENT**
Reinforcement bars shall conform to ASTM A615, Grade 60. Minimum clear cover shall be 1 1/2" unless otherwise noted. Cost of furnishing and placing reinforcement steel shall be included in the price bid for Prestressed Concrete Beams.
- (D) 9. For camber diagram see sheet No. B _____

SCHEDULE OF MILD STEEL REINFORCEMENT									
No.	MARK	SIZE	LENGTH	TYPE	A	B	C	D	
(D)	*R1	#16	9'-10"	1	4'-9 1/2"	5"	-	-	
(D)	R2	#16	4'-1"	3	7 1/8"	7 1/8"	6"	1'-5"	
(D)	R3	#16	3'-0"	4	9 3/4"	9 3/4"	5 1/4"	1'-5"	
(D)	*R4	(D)	9'-0"	2	7'-6"	1'-6"	-	-	
(D)	*R5	#16	13'-10"	2	6'-0"	1'-10"	6'-0"	-	
(D)	*R6	(D)	16'-4"	2	7'-6"	1'-4"	7'-6"	-	
(D)	R7	#16	(D)	STR	-	-	-	-	

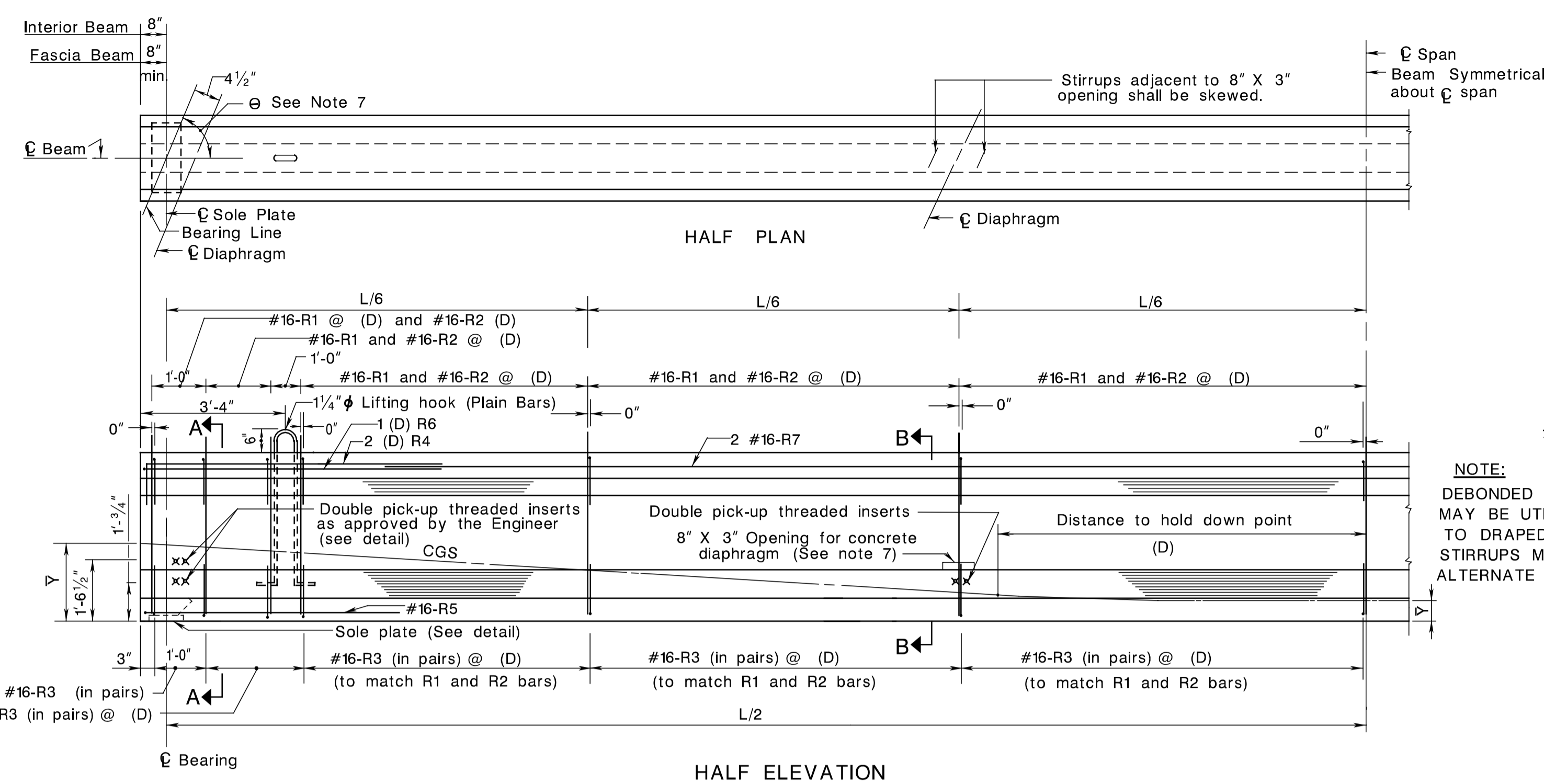
*CORROSION PROTECTED BARS (REFER TO SECTION 26 OF THIS MANUAL FOR TYPES OF CORROSION PROTECTED REINFORCEMENT STEEL THAT CAN BE USED)

NOTE:
DEBONDED STRAIGHT STRANDS MAY BE UTILIZED AS AN ALTERNATE TO DRAPED STRANDS. ONE PIECE STIRRUPS MAY UTILIZED AS AN ALTERNATE TO TWO PIECE STIRRUPS

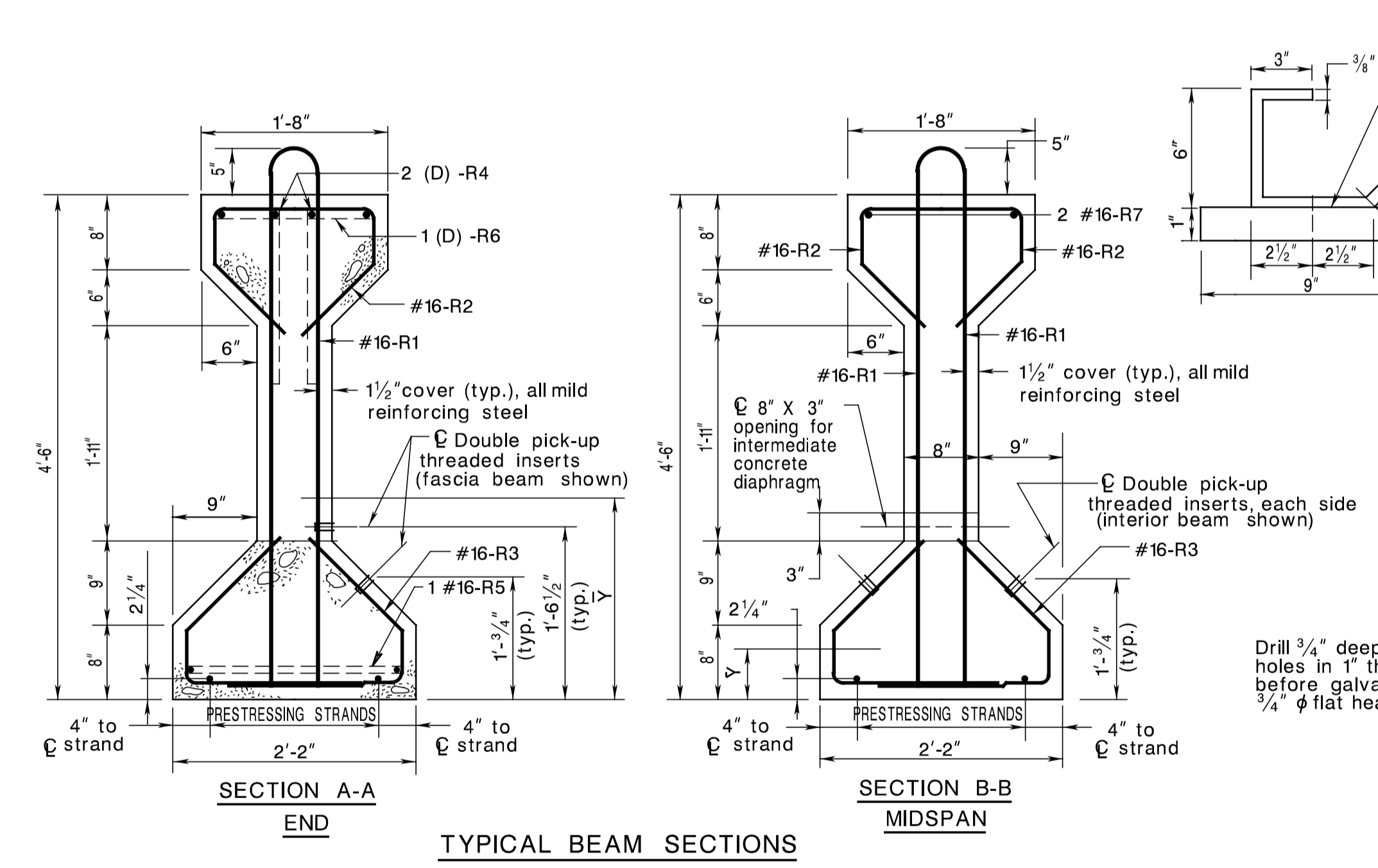
A MAXIMUM OF 10 STRANDS PER ROW MAY BE PLACED IN THE BOTTOM FLANGE



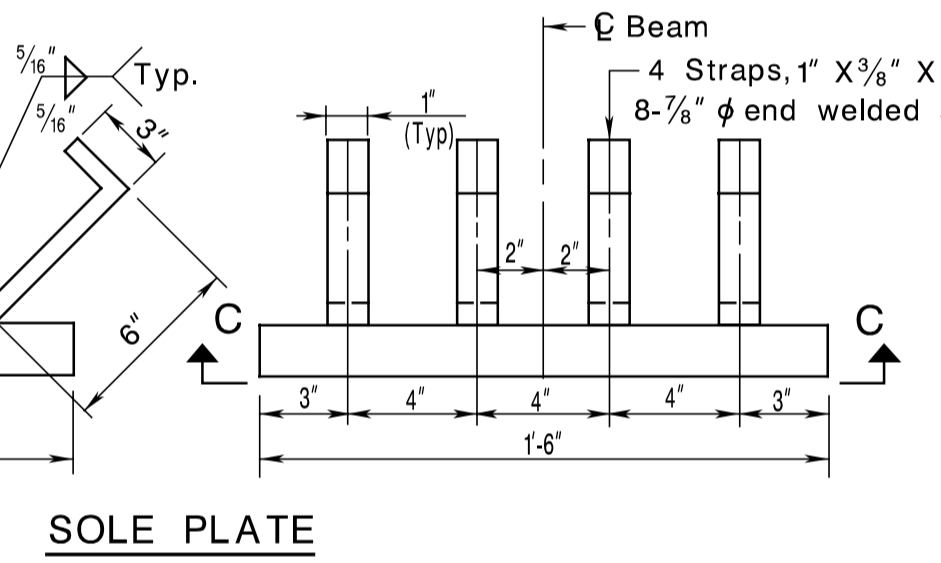
STRAND SUPPORT BOLSTER



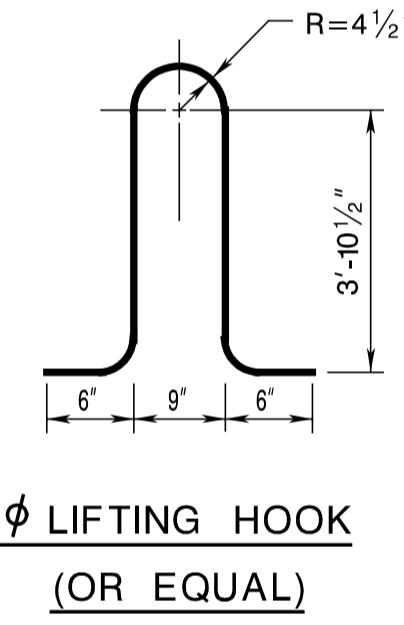
HALF ELEVATION



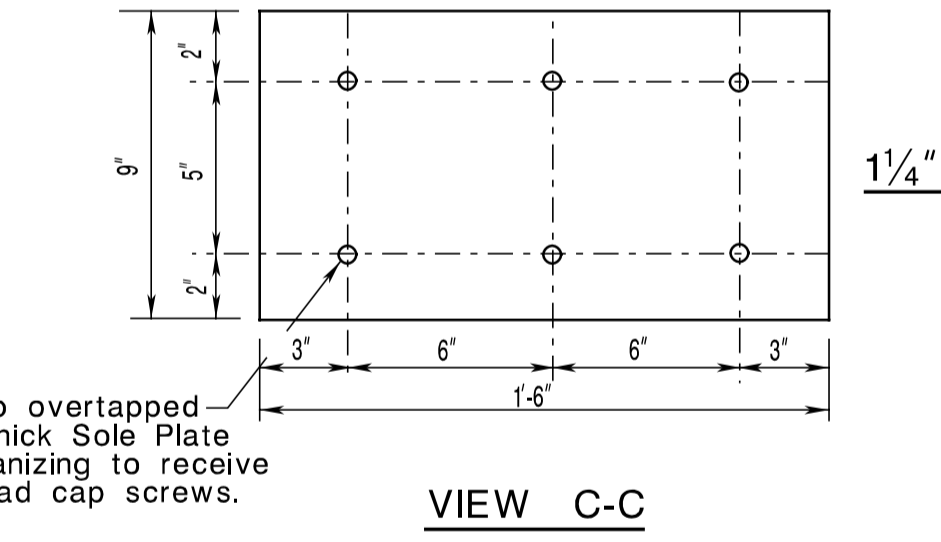
TYPICAL BEAM SECTIONS



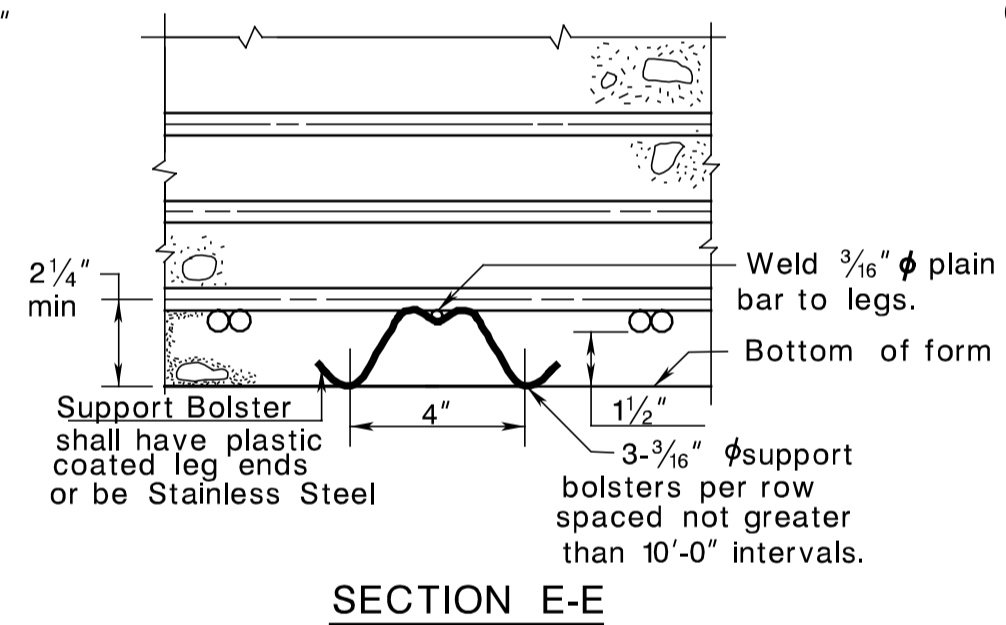
SOLE PLATE



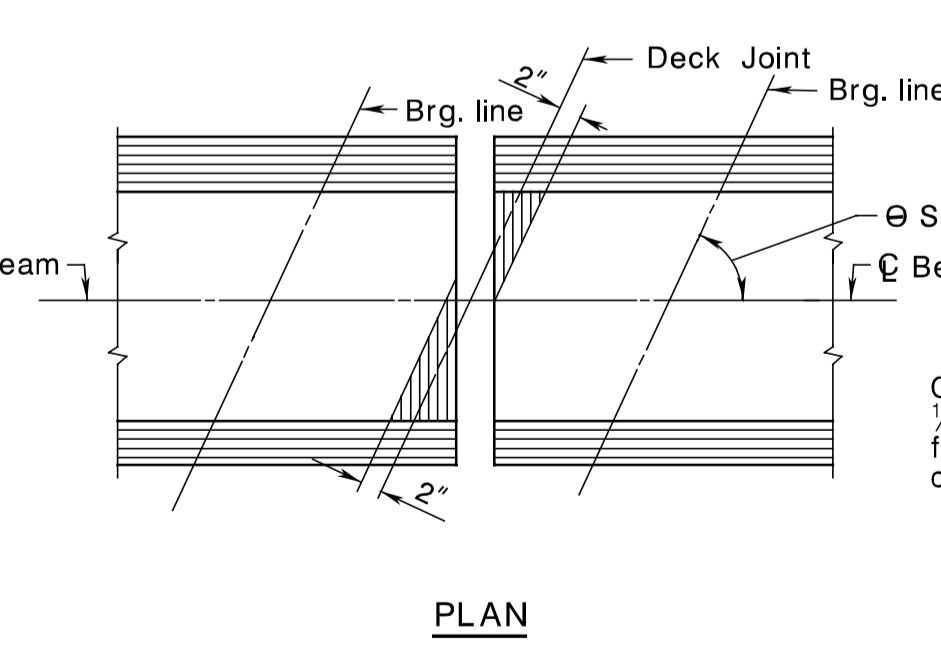
1/4" LIFTING HOOK (OR EQUAL)



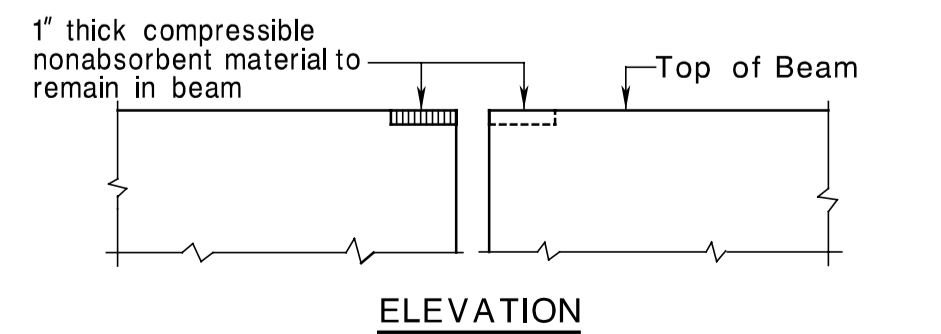
VIEW C-C



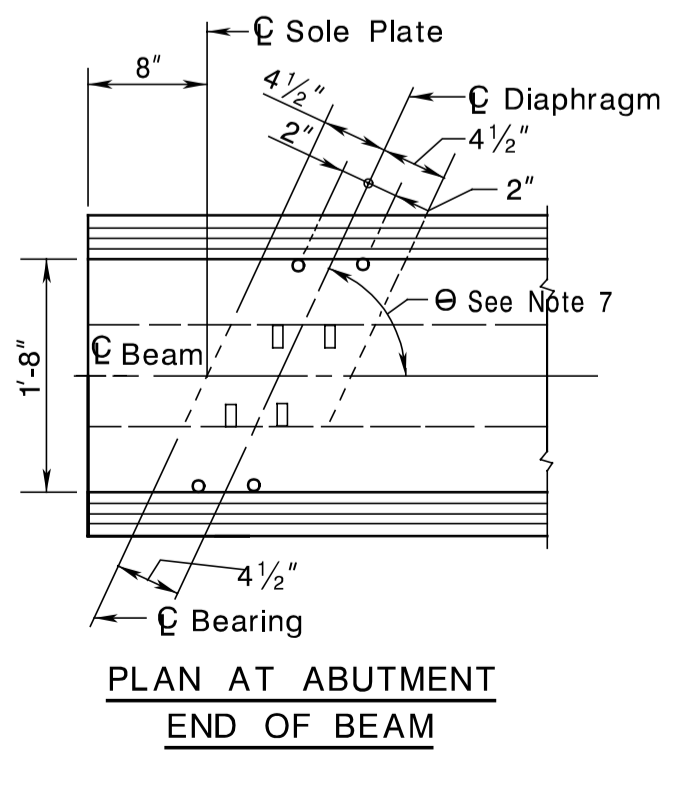
SECTION E-E



PLAN



ELEVATION



LOCATION PLAN OF THREADED INSERTS

NOTE: \bar{Y} LOCATES CENTROID OF STEEL PRESTRESSING GROUP.
NOTE: OMIT THREADED INSERTS ON OUTSIDE FACE OF FASCIA BEAM

CONTROL SECTION	JOB NO.
DES. BY	CHK. BY
DWN. BY	CHK. BY
EST. BY	CHK. BY
SPECS. BY	CHK. BY
IN CHARGE OF _____	

QUANTITIES			
PAY ITEM NO.	STANDARD ITEM NO.	DESCRIPTION	CONTRACT QUANTITY
(D)		PRETENSIONED PRESTRESSED CONCRETE BEAMS, 54".	L.F.

STANDARD DRAWING PLATE 2.4-2
NEW JERSEY DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURAL ENGINEERING

54" PRETENSIONED PRESTRESSED CONCRETE BEAMS

ROUTE (D) SECTION

REVISION	BY	CKD	DATE

SCALE: _____ NONE _____
BRIDGE SHEET NO. B _____ OF B _____

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