

(D)	STRUCTURE NO.
	STRUCTURE NAME

GENERAL NOTES

1. DESIGN SPECIFICATIONS

(D) The AASHTO LRFD Bridge Design Specifications, with current interims as modified by Section 3 of the NBDOT Design Manual for Bridges and Structures.

2. LIVE LOAD

HL-93 or NDOT Permit Vehicle, whichever governs.

3. PRESTRESSING STEEL

The prestensioning 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 As 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.

4. CONCRETE DESIGN STRESSES

(D) Design compressive strength (f'c) = _____ psi, class _____ concrete,

(D) Compressive strength at prestress (f'ci) = _____ psi.

5. CONCRETE

All exposed corners shall be chamfered 3/4" or rounded to 3/4" radius. Angles of intersection between webs and flanges shall be rounded to minimum 3/4" radius. The surface of the concrete shall be finished to the satisfaction of the Engineer. At approximate time of initial set all laitance shall be removed with a stiff wire brush.

6. SOLE PLATES

Cost of Sole Plates shall be included in price bid for Prestressed Concrete Beams. Sole Plates shall be galvanized as per Specifications.

7. DIAPHRAGMS

For the angle Θ between the center line of beam and center line of diaphragms or bearings reference the Framing Plan.

8. 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 _____

BEAM NO.	Y MIDSPAN	Y ENDS	NO. OF STRANDS
(D)			

QUANTITIES			UNIT	CONTRACT QUANTITY
STANDARD ITEM NO.	DESCRIPTION	PREFENSIONED PRESTRESSED CONCRETE BEAMS, 63"	L.F.	
(D)				

63" PRETENSIONED PRESTRESSED CONCRETE BEAMS

ROUTE (D)

SECTION

STANDARD DRAWING PLATE 2.1-4

NEW JERSEY DEPARTMENT OF TRANSPORTATION

BUREAU OF STRUCTURAL ENGINEERING

REVISION	BY	CHKD	DATE

SCALE _____ NONE _____

BRIDGE SHEET NO. B _____ OF B _____

SCHEDULE OF MILD STEEL REINFORCEMENT

NO.	MARK SIZE	LENGTH	TYPE	A	B	C	D
(D)	* R1 #16	11'-6 3/4"	1	5'-6"	5 5/8"	—	—
(D)	* R2 #13	6'-7 3/4"	5	1'-7"	4"	2 1/2"	3'-3"
(D)	R3 #13	3'-5 5/8"	3	10 3/4"	10 3/4"	6"	1'-8"
(D)	* R4 (D)	10'-6"	2	9'-0"	1'-6"	—	—
(D)	* R5 #13	17'-0"	2	7'-6"	2'-0"	7'-6"	—
(D)	* R6 (D)	20'-11"	2	9'-0"	3'-0"	9'-0"	—
(D)	R7 #13	2'-1"	4	5"	6 1/2"	6 1/2"	—
(D)	* R8 #13	6'-7"	6	—	—	—	—
(D)	* R9 #16	(D)	STR.				
(D)	R10 #16	(D)	STR.				

1

2

3

4

5

6

1

2

3

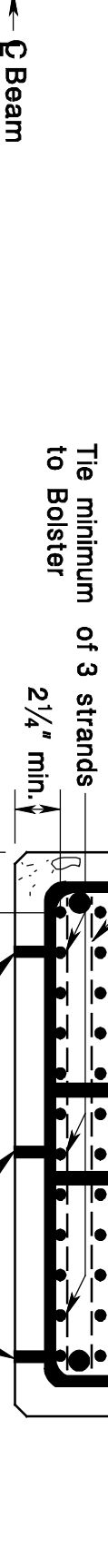
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5

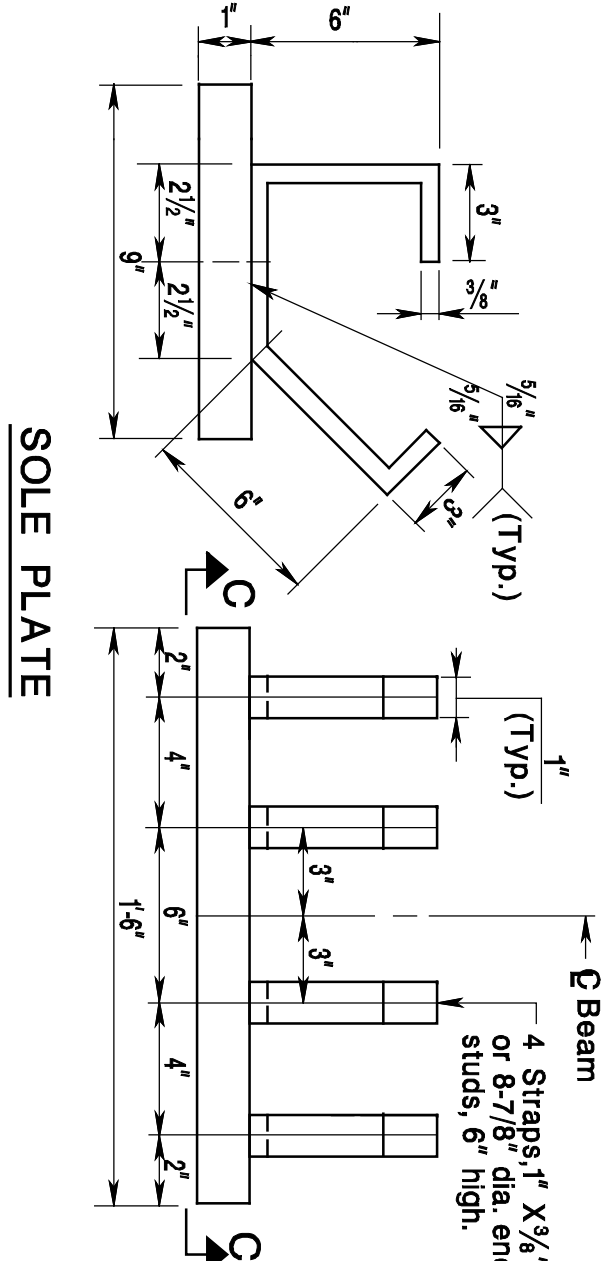
6

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

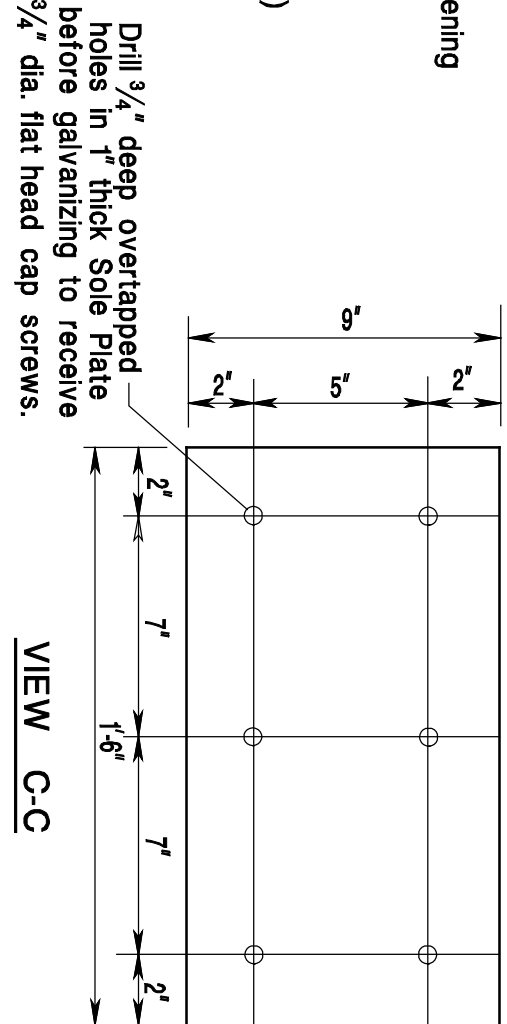
A MAXIMUM OF 12 STRANDS PER ROW MAY BE PLACED IN THE BOTTOM FLANGE.



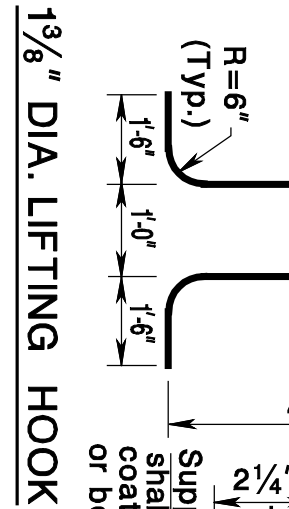
STRAND SUPPORT BOLSTER



SOLE PLATE

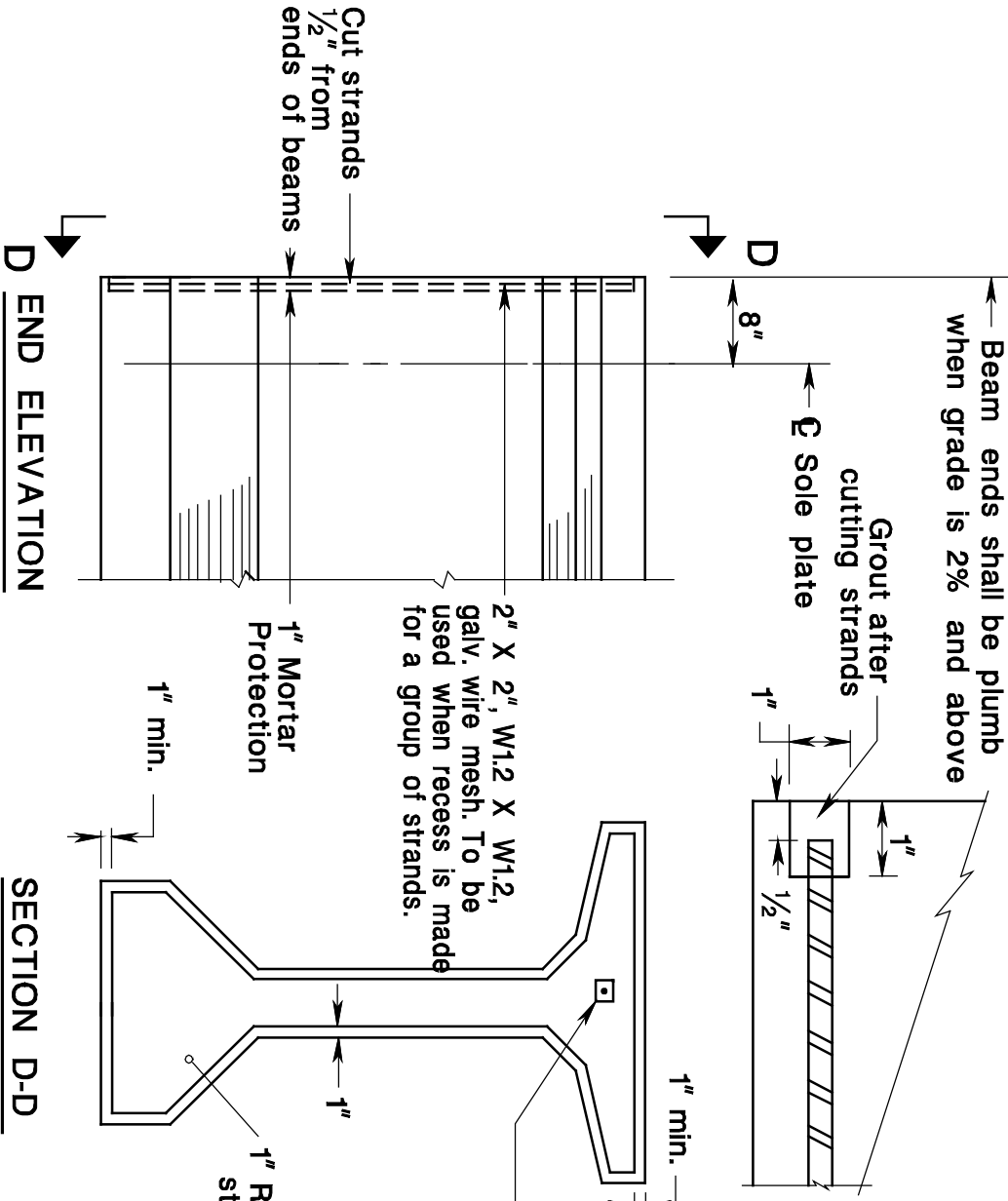


VIEW C-C



SECTION E-E

1 3/8" DIA. LIFTING HOOK (OR EQUAL)



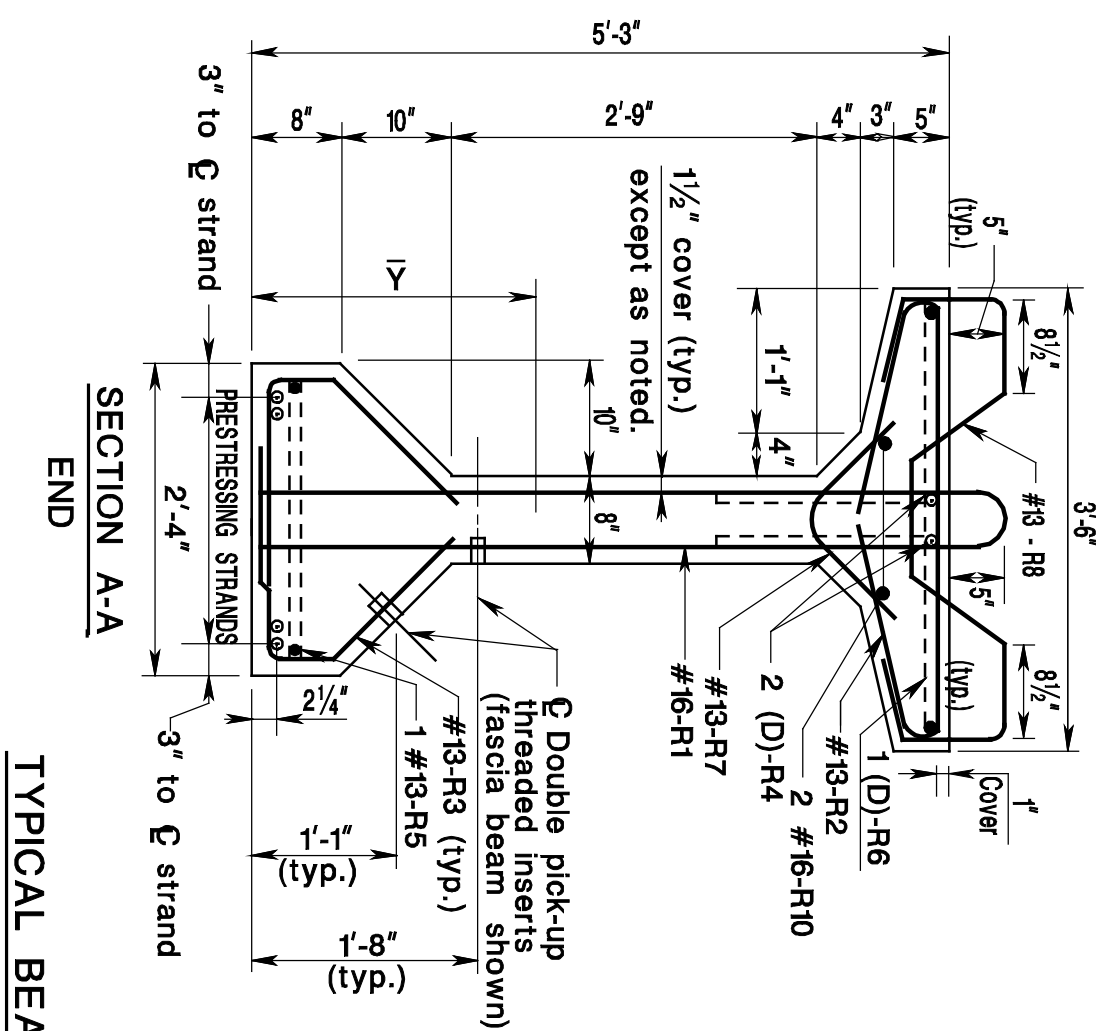
SECTION D-D

GROUTED RECESS FOR STRAND AT BEAM ENDS

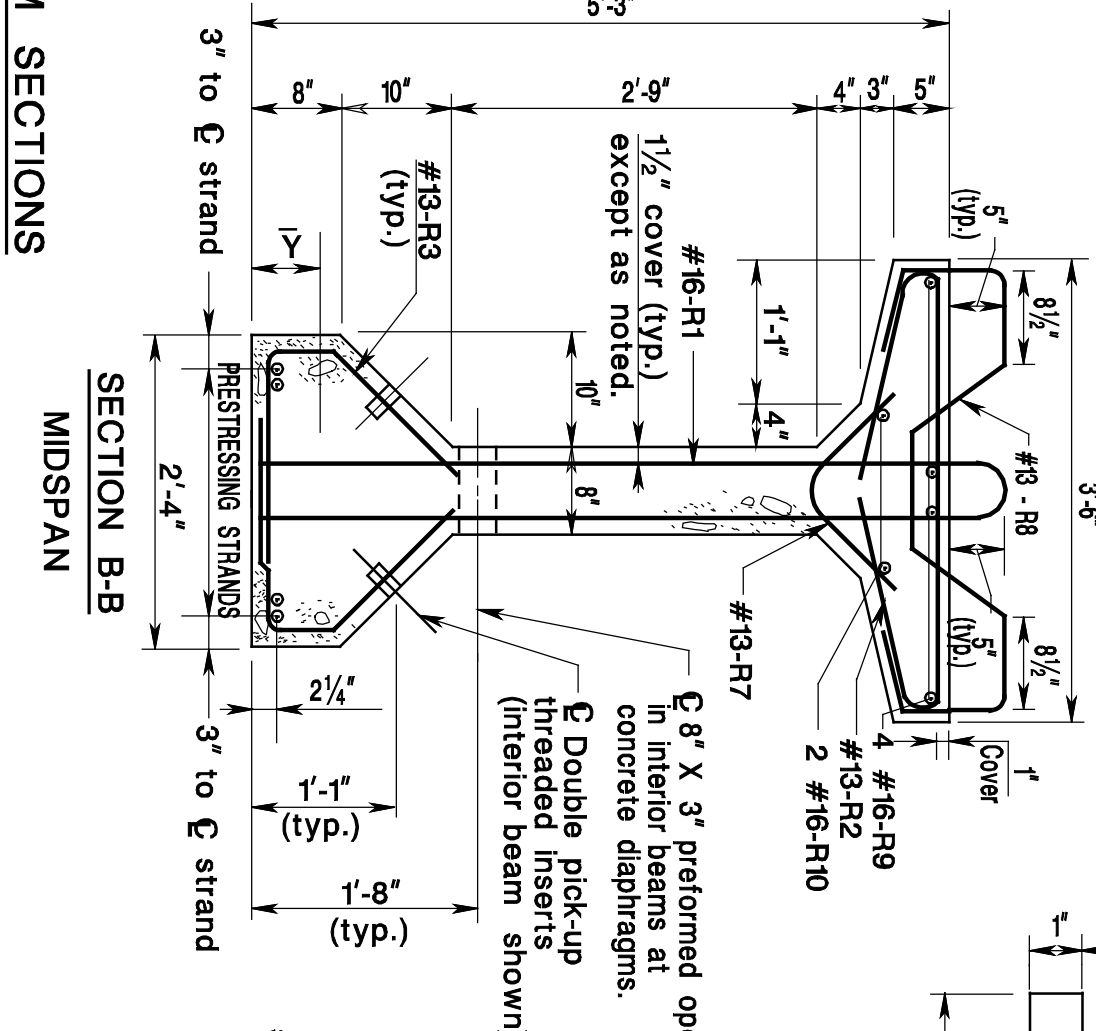
NOTE : Y LOCATES CENTROID OF STEEL PRESTRESSING GROUP

NOTE : OMIT THREADED INSERTS ON OUTSIDE FACE OF FASCIA BEAM

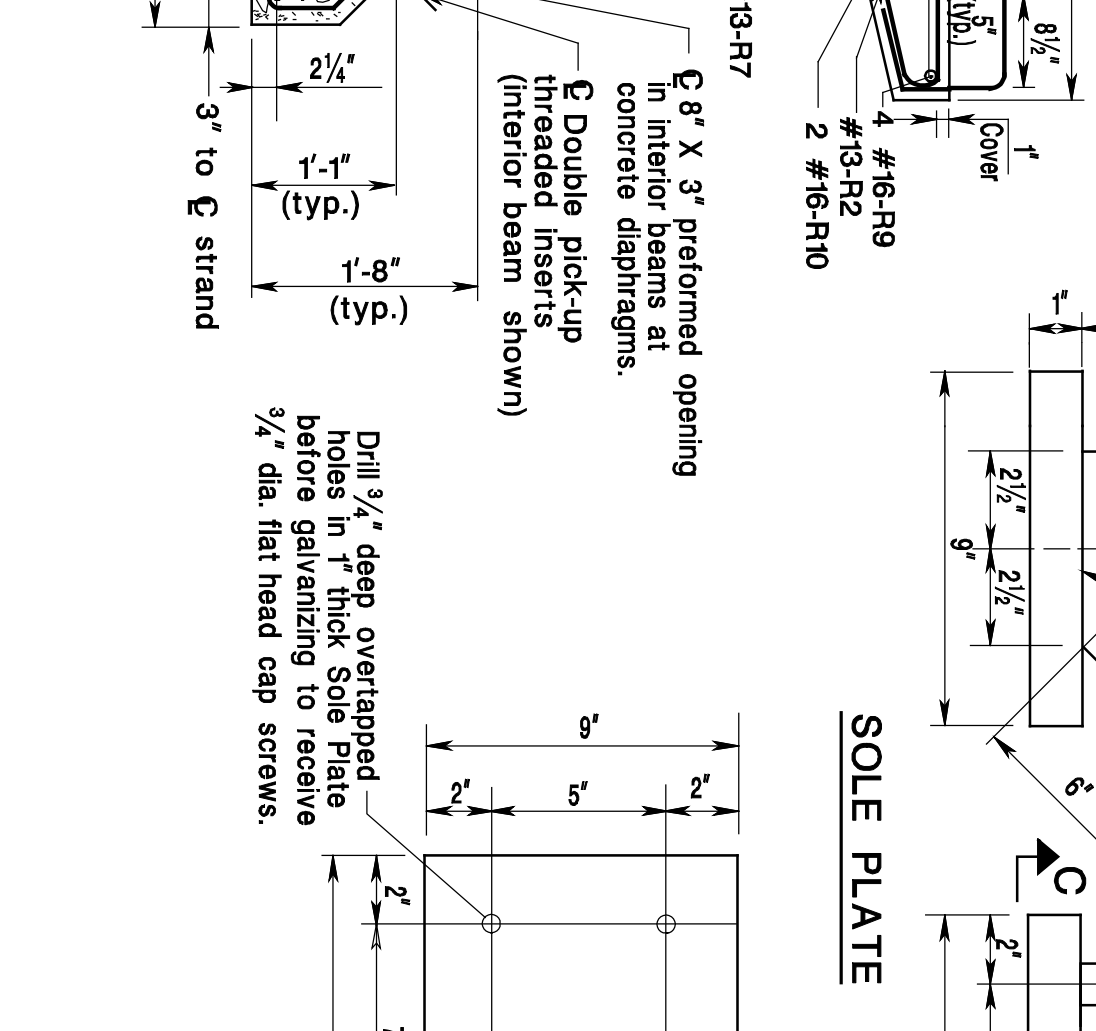
TYPICAL BEAM SECTIONS



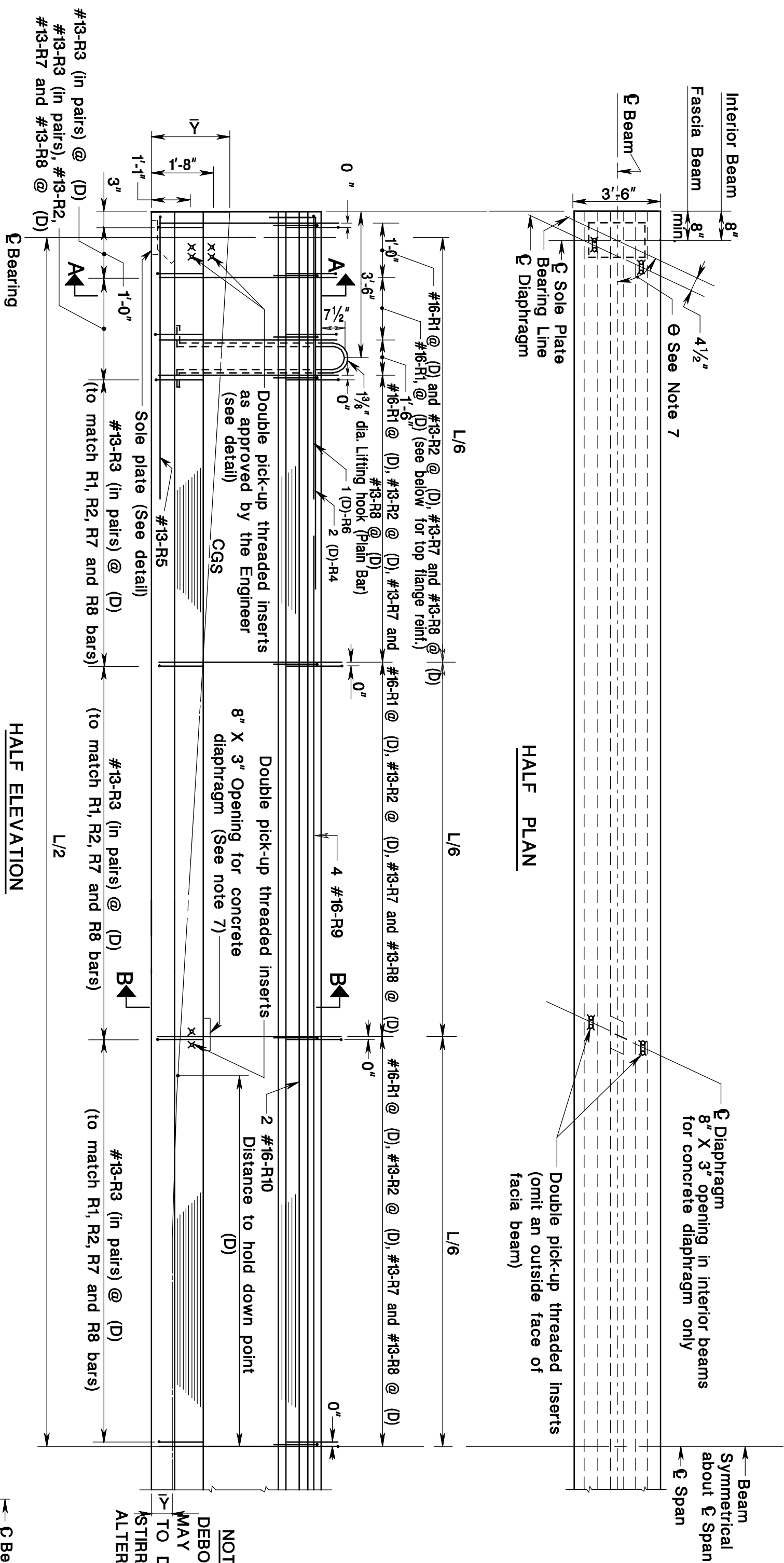
SECTION A-A



SECTION B-B



VIEW C-C



HALF ELEVATION

HALF PLAN

CONTROL SECTION	JOB NO.
DES BY	CHK BY
OWN BY	CHK BY
EST BY	CHK BY
DRAWN BY	CHK BY

BDC04MB-01