

\* Reinforcing steel is symmetrical about  $\bar{C}$  Beam for Half Sections A-A and B-B.

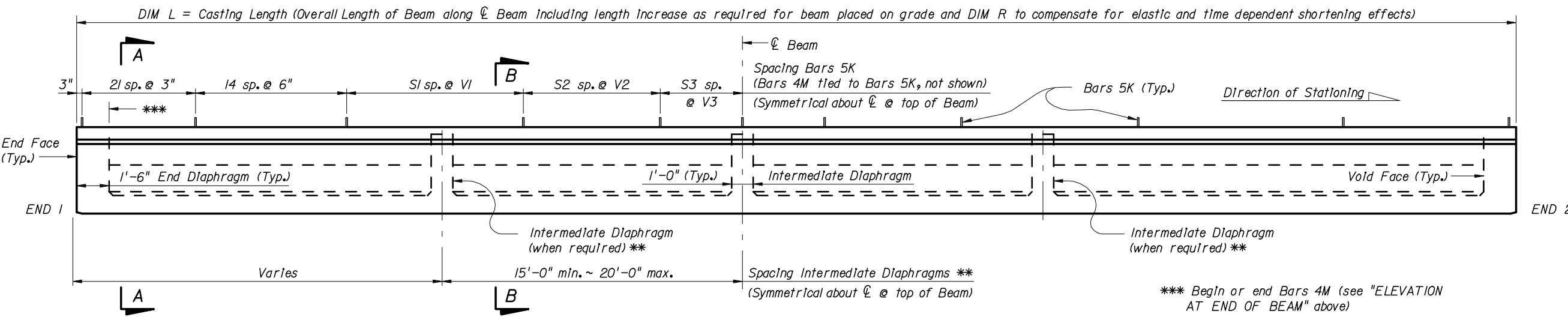
\*\* Intermediate Diaphragms shall be provided:

- (1) - At midspan.
- (2) - At 20'-0" max. from midspan when beam length (L) exceeds 60 ft.

NOTES:

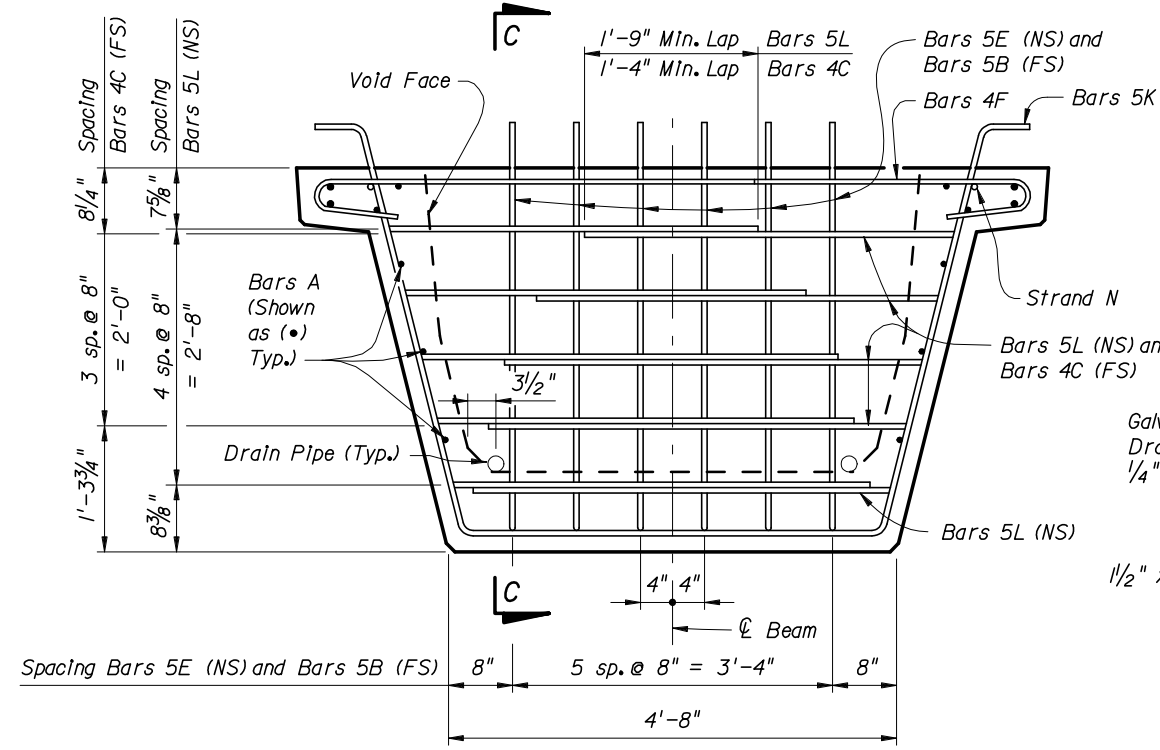
Work this Index with Index No. 20210 - Typical Florida U Beam Details and Notes and the Florida U Beam - Table of Beam Variables in Structures Plans.

For referenced notes see Index No. 20210.

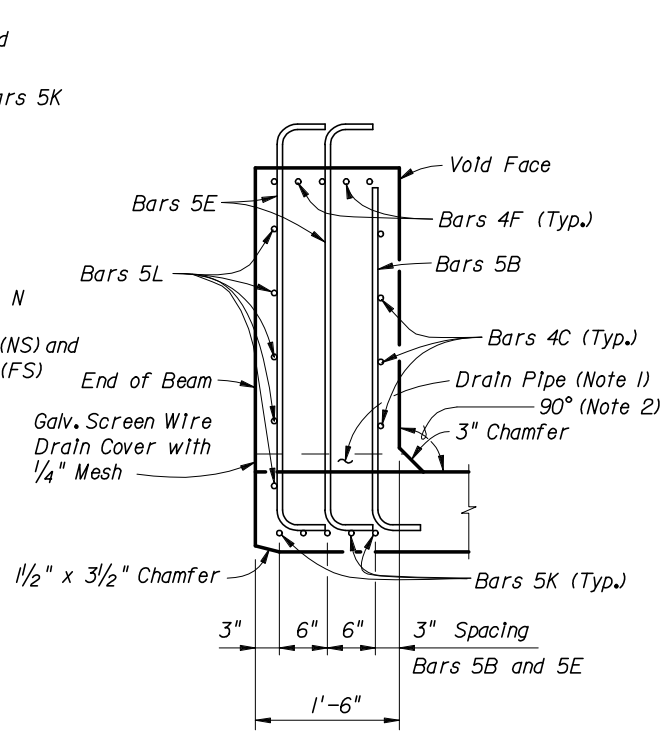


DIM L = Casting Length (Overall Length of Beam along  $\bar{C}$  Beam including length increase as required for beam placed on grade and DIM R to compensate for elastic and time dependent shortening effects)

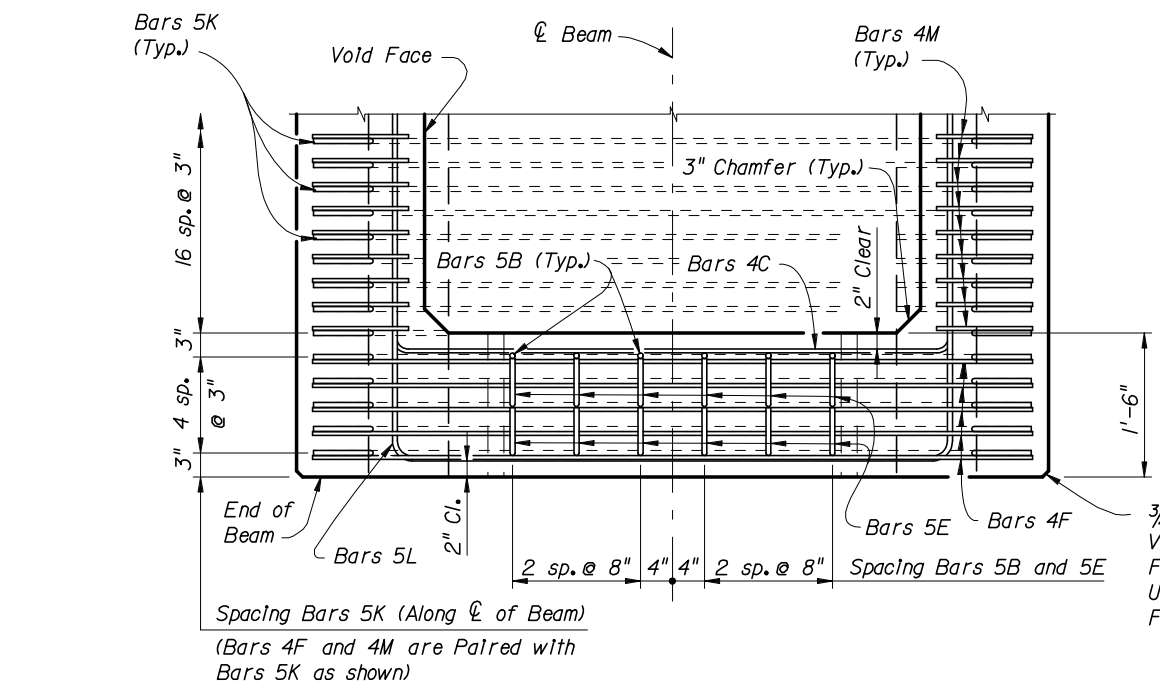
\*\*\* Begin or end Bars 4M (see "ELEVATION AT END OF BEAM" above)



END VIEW AT END DIAPHRAGM

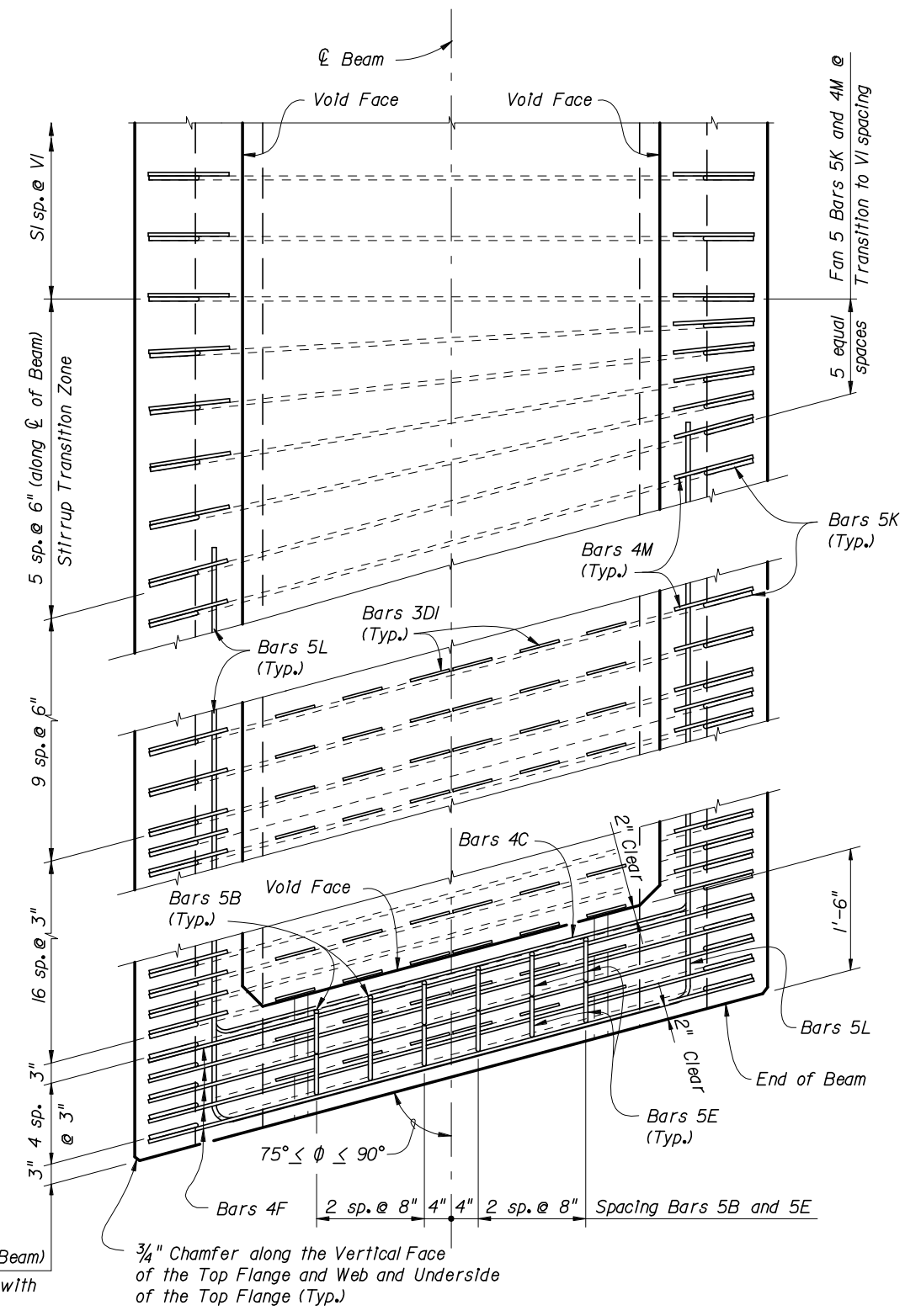


SECTION C-C



TOP VIEW OF END DIAPHRAGM  
(Bars 3D1 And 3D2 Not Shown For Clarity)

NOTES:  
 1. Drains shall be placed adjacent to each web at each beam end (four drains per beam). Drain Pipe shall be 2" Nominal Pipe Size, Schedule 80 PVC. Provide removable pipe plugs to prevent concrete entrance during beam casting. Plugs to be removed from the inside after casting. Galvanized screen wire shall cover the end of the pipe and bent down around the sides of the pipe, a minimum of 1" and secured prior to casting.  
 2. Concrete face may be sloped with a maximum 1:24 draft to facilitate formwork removal.

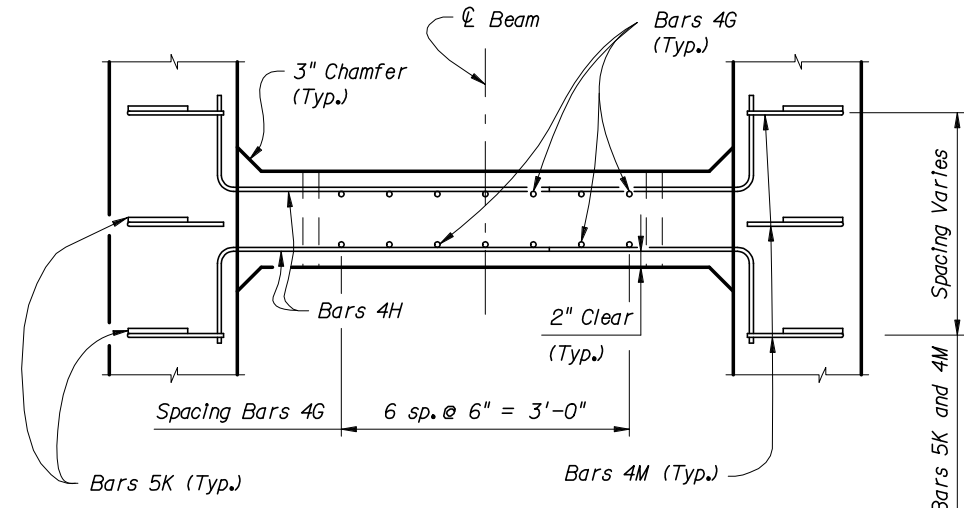
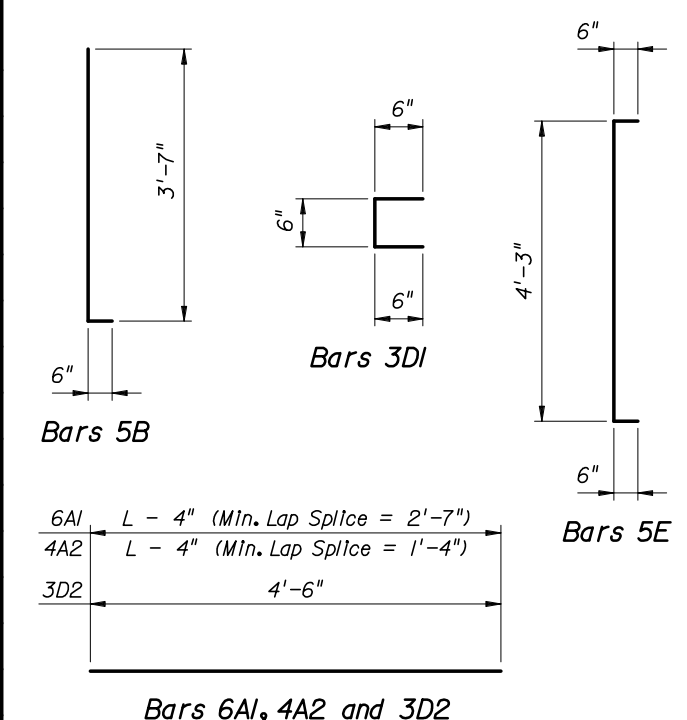


TOP VIEW OF SKEWED END DIAPHRAGM AND STIRRUP TRANSITION ZONE  
(Bars 3D2 Not Shown For Clarity)

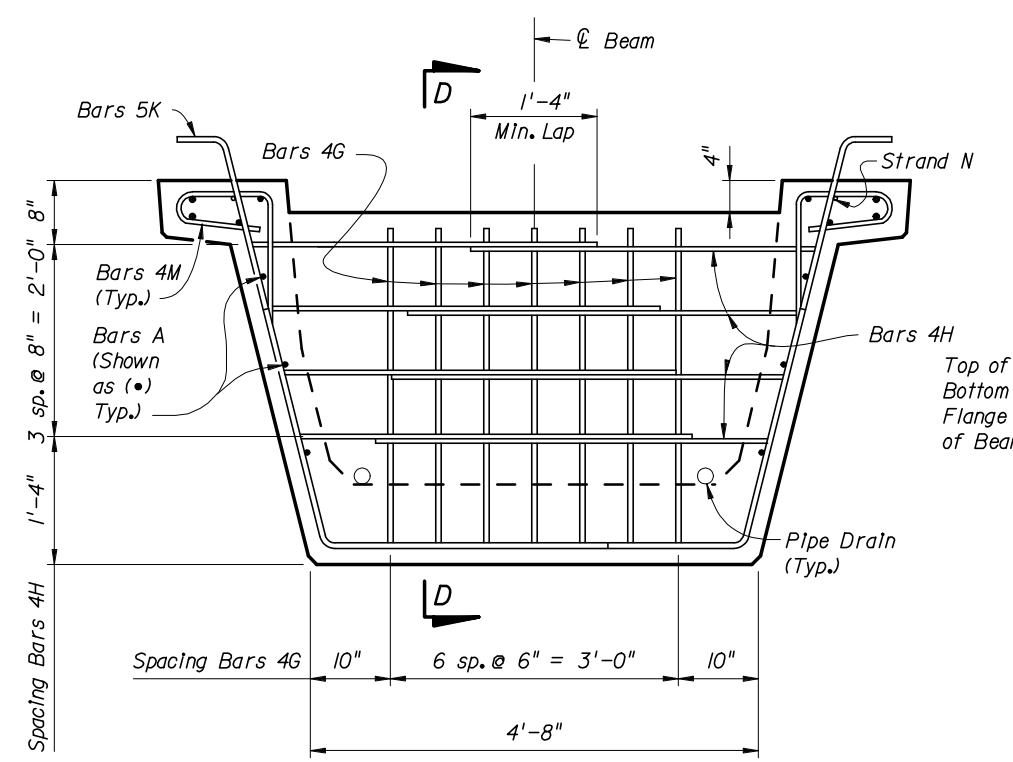
CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

BILL OF REINFORCING STEEL FOR ONE BEAM ONLY

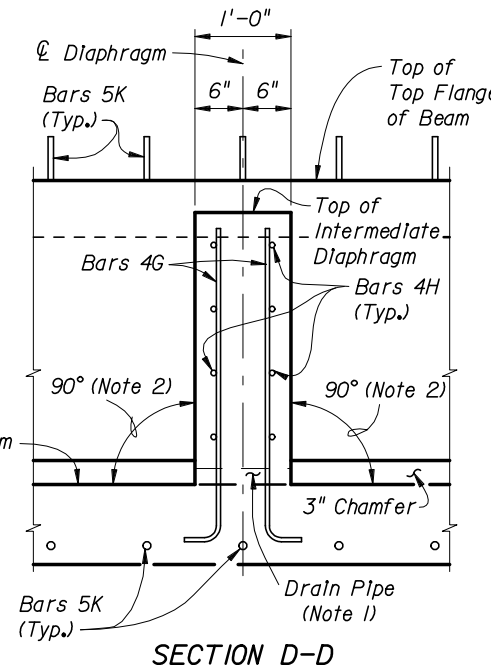
MARK	SIZE	NO. REQ'D	LENGTH
A1	6	4	DIM L - 4"
A2	4	10	DIM L - 4"
B	5	12	4'-1"
C	4	16	5'-1"
D1	3	228	1'-6"
D2	3	38	4'-6"
E	5	24	5'-3"
F	4	20	6'-2"
G	4	See Table	4'-0"
H	4	See Table	4'-7"
K	5	See Table	8'-0"
L	5	20	14'-0"
M	4	See Table	3'-11"
N	3/8" $\phi$ Strand	2	DIM L - 3"



TOP VIEW OF INTERMEDIATE DIAPHRAGM

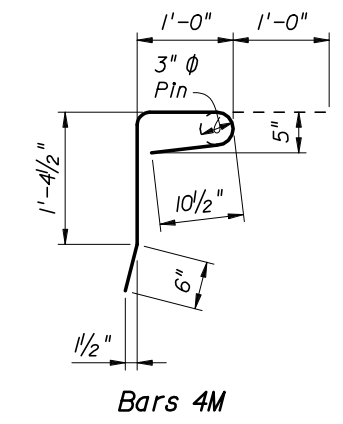
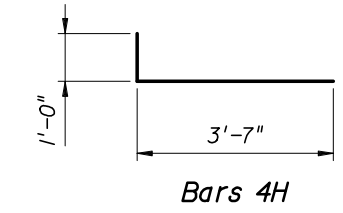
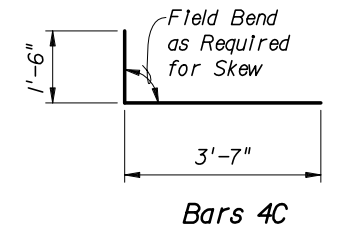
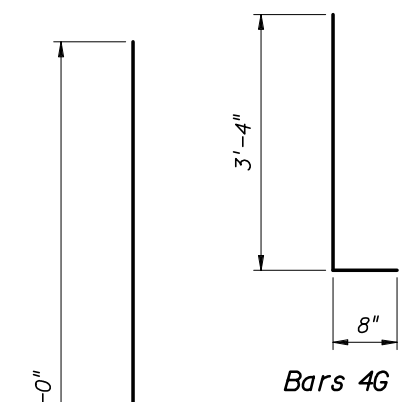
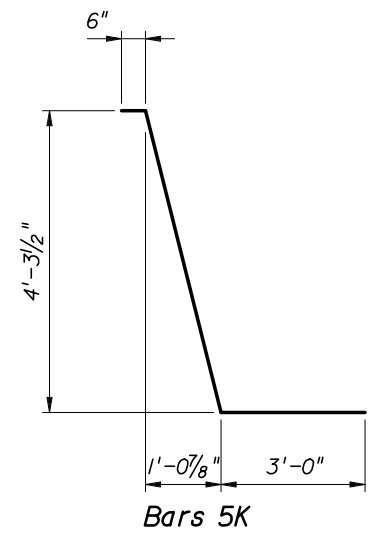
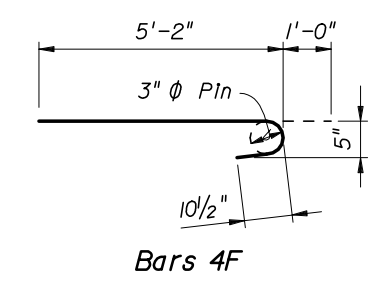


SECTION AT INTERMEDIATE DIAPHRAGM



SECTION D-D

- NOTES:
1. Drains shall be placed adjacent to each web at each intermediate diaphragm (two drains per intermediate diaphragm). Drain Pipe shall be 2" Nominal Pipe Size, Schedule 80 PVC. Provide removable pipe plugs to prevent concrete entrance during beam casting. Plugs to be removed from the inside after casting.
  2. Concrete face may be sloped with a maximum 1:24 draft to facilitate formwork removal.
  3. Intermediate diaphragms must be cast and concrete release strength obtained prior to removing beam from casting bed.



2006 FDOT Design Standards

FLORIDA U 48 BEAM - STANDARD DETAILS

Last Revision 07/01/05  
 Sheet No. 3 of 3  
 Index No. 20248