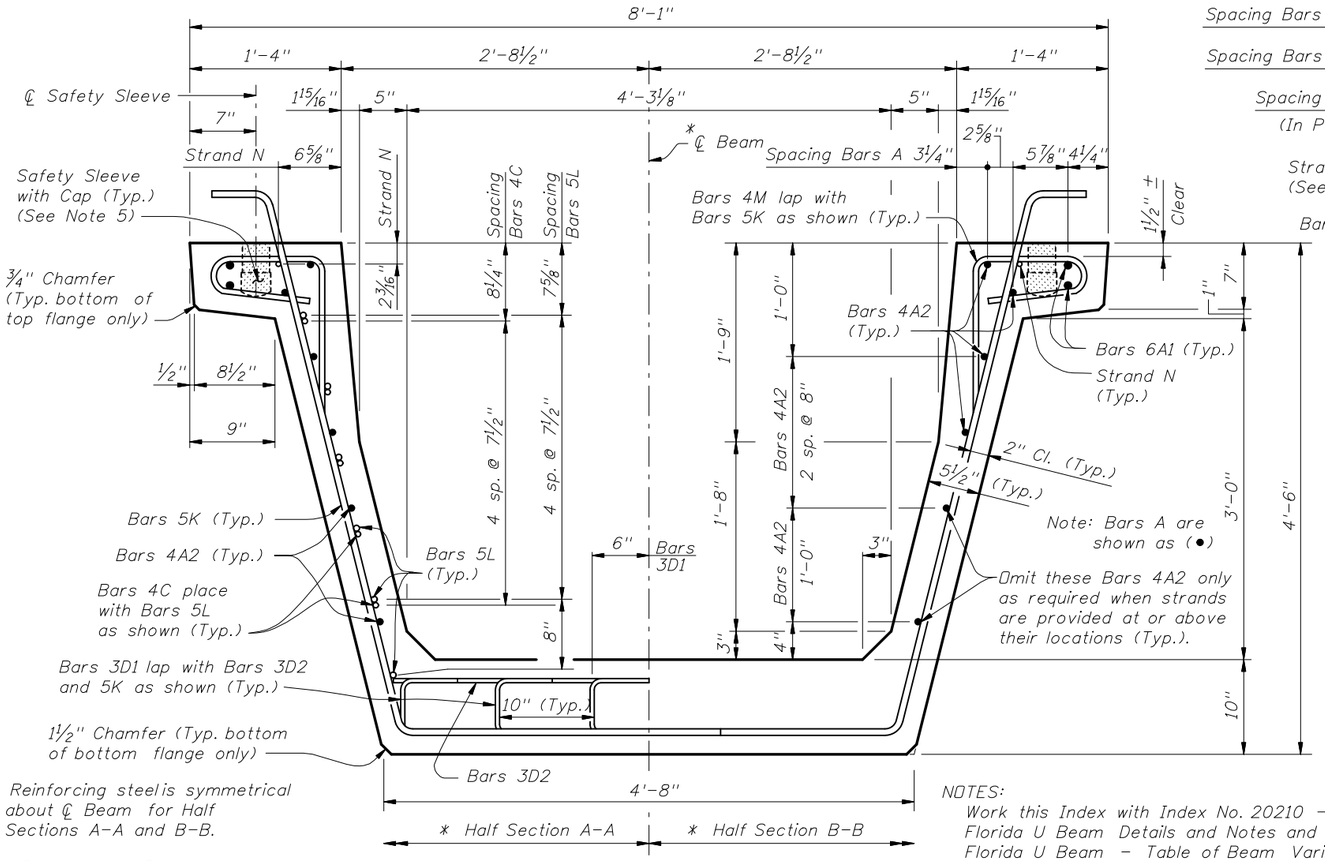
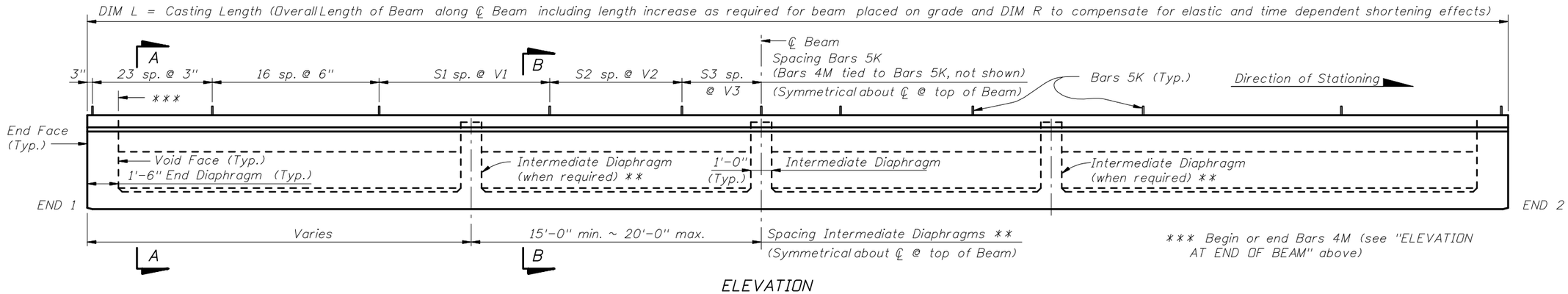


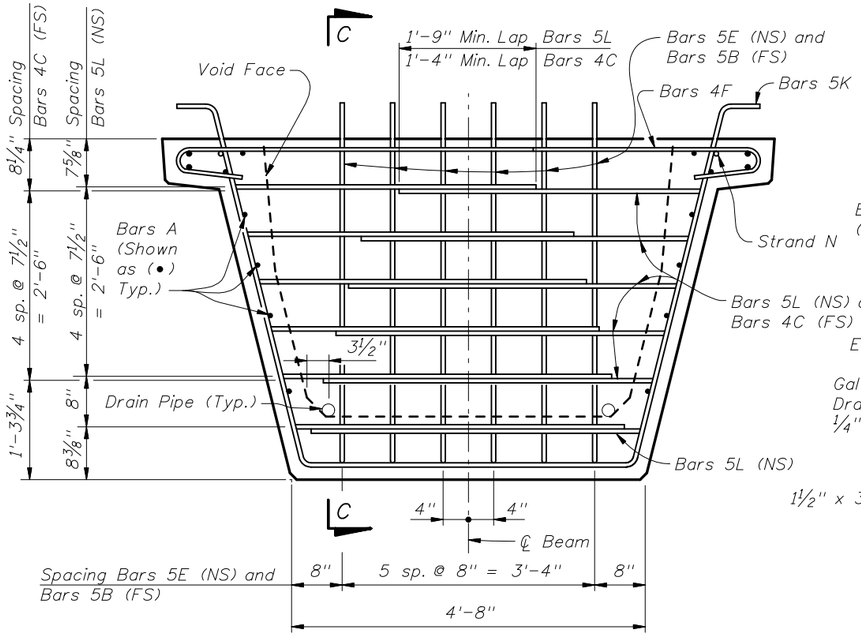

ELEVATION

2008 FDOT Design Standards

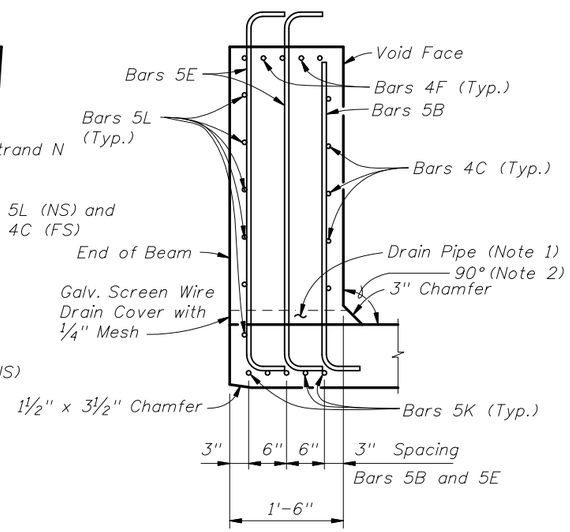
# FLORIDA U 54 BEAM - STANDARD DETAILS

| Last Revision | Sheet No. |
|---|---|
| 07/01/05 | 1 of 3 |

Index No. 20254



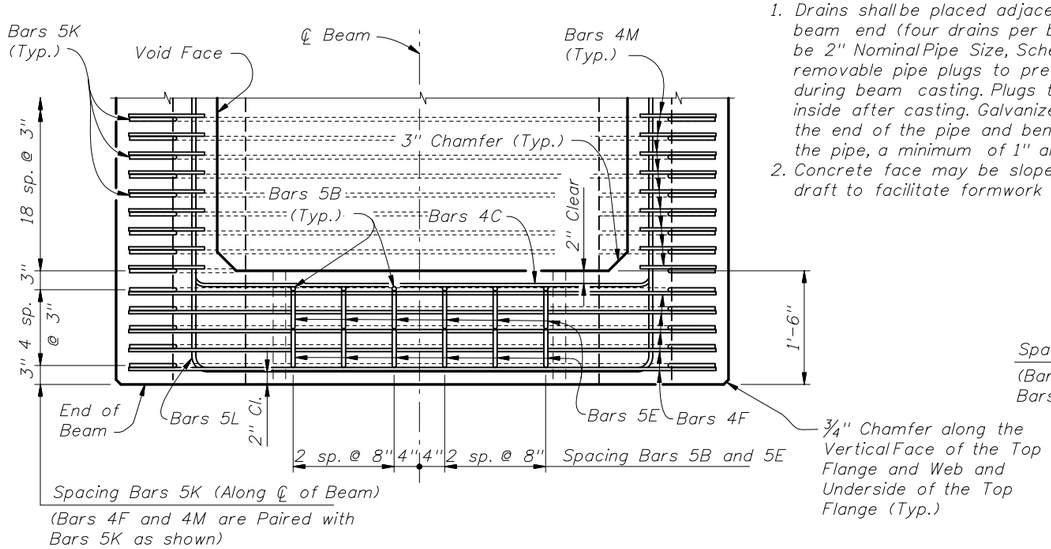

END VIEW AT END DIAPHRAGM



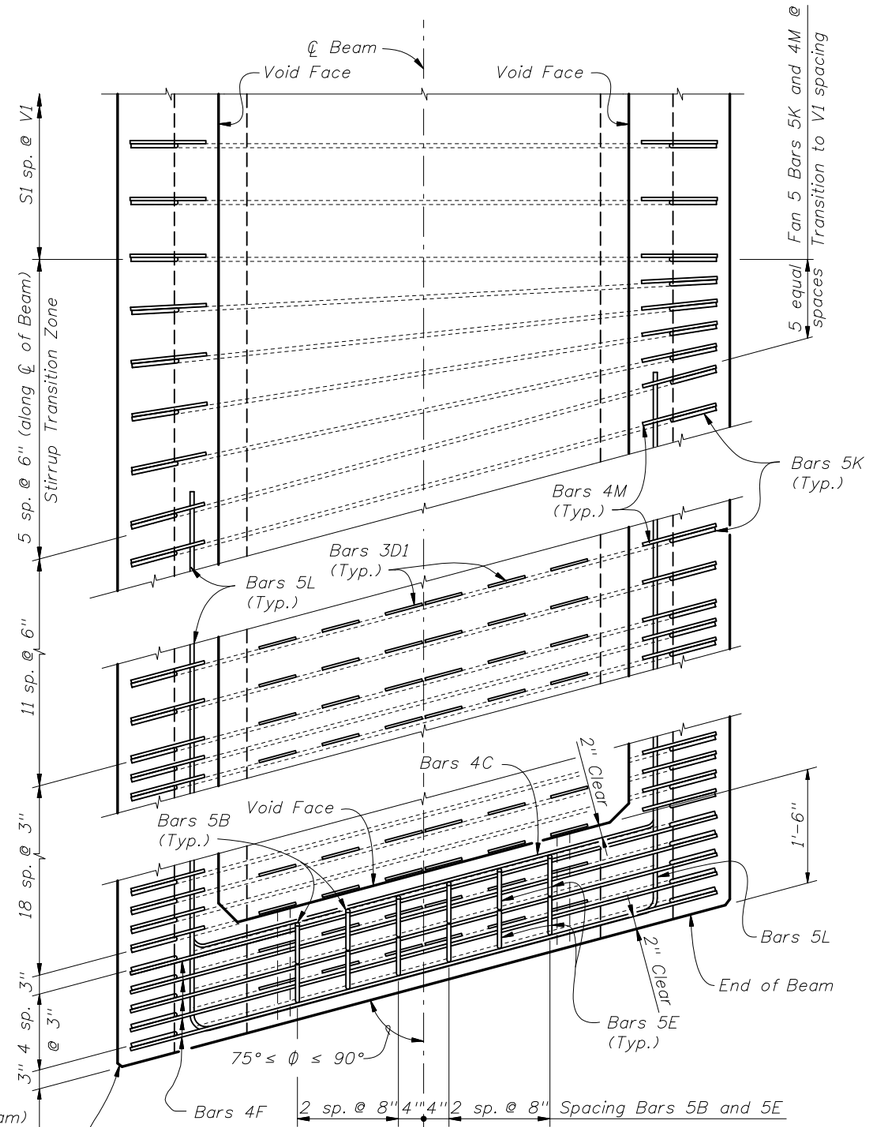

SECTION C-C

NOTES:

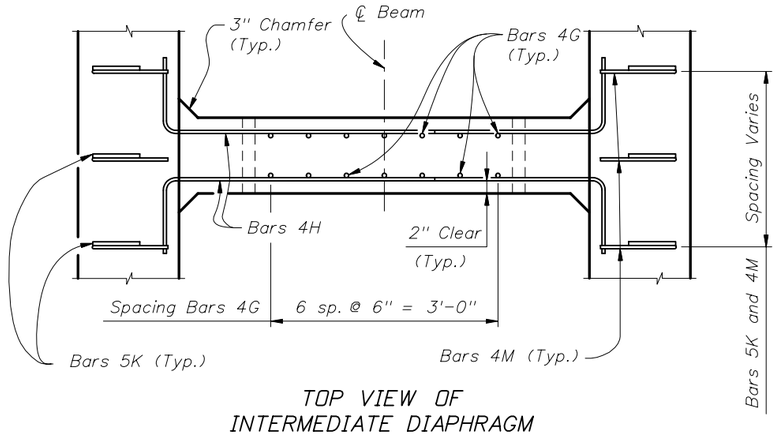
1. Drains shall be placed adjacent to each web at each beam end (four drains per beam). Drain Pipe shall be 2" Nominal Pipe Size, Schedule 80 PVC. Provide removable pipe plugs to prevent concrete entrance during beam casting. Plugs to be removed from the inside after casting. Galvanized screen wire shall 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.



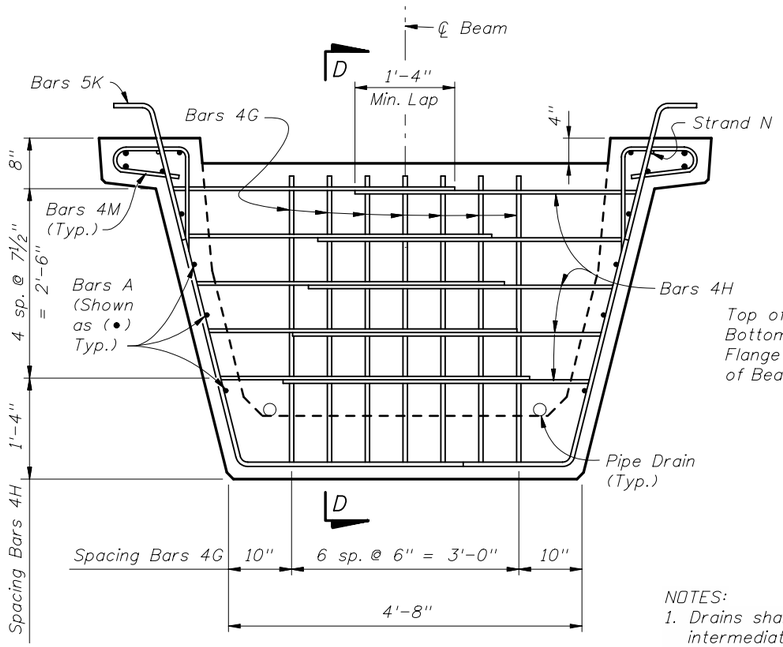

TOP VIEW OF END DIAPHRAGM
(Bars 3D1 And 3D2 Not Shown For Clarity)



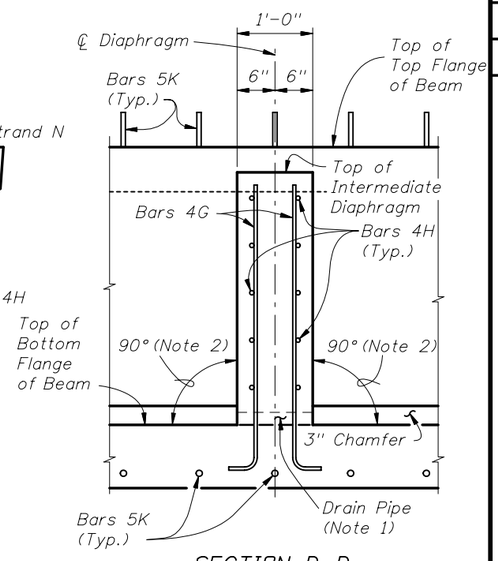

TOP VIEW OF SKEWED END DIAPHRAGM
AND STIRRUP TRANSITION ZONE
(Bars 3D2 Not Shown For Clarity)




TOP VIEW OF INTERMEDIATE DIAPHRAGM




SECTION AT INTERMEDIATE DIAPHRAGM



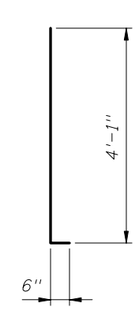

SECTION D-D

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.

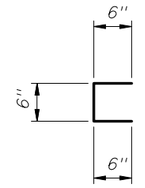
## CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

BILL OF REINFORCING STEEL
FOR ONE BEAM ONLY

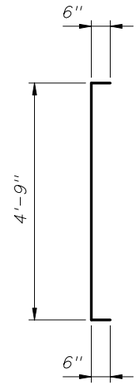
| MARK | SIZE | NO. REQD. | LENGTH |
|---|---|---|---|
| A1 | 6 | 4 | DIM L - 4" |
| A2 | 4 | 12 | DIM L - 4" |
| B | 5 | 12 | 4'-7" |
| C | 4 | 20 | 5'-3" |
| D1 | 3 | 228 | 1'-6" |
| D2 | 3 | 38 | 4'-6" |
| E | 5 | 24 | 5'-9" |
| F | 4 | 20 | 6'-4" |
| G | 4 | See Table | 4'-6" |
| H | 4 | See Table | 4'-9" |
| K | 5 | See Table | 8'-6" |
| L | 5 | 24 | 16'-2" |
| M | 4 | See Table | 3'-11" |
| N | ⅜" Ø Strand | 2 | DIM L - 3" |




Bars 5B




Bars 3D1

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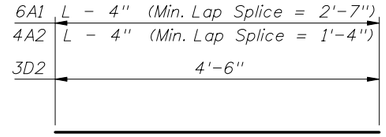
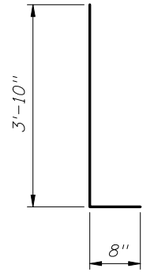



Bars 6A1, 4A2 and 3D2



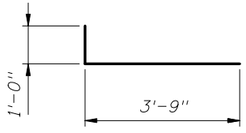

Bars 4F




Bars 4G




Bars 4C

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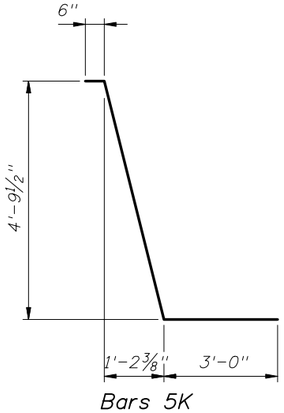


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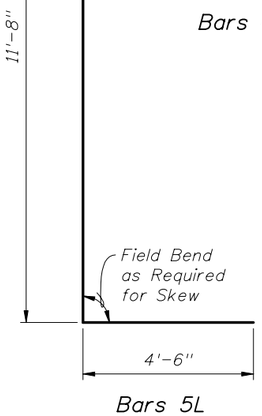


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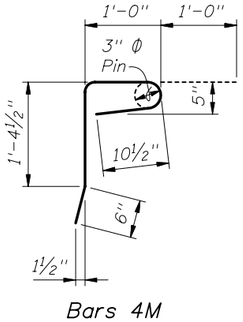


Bars 4M