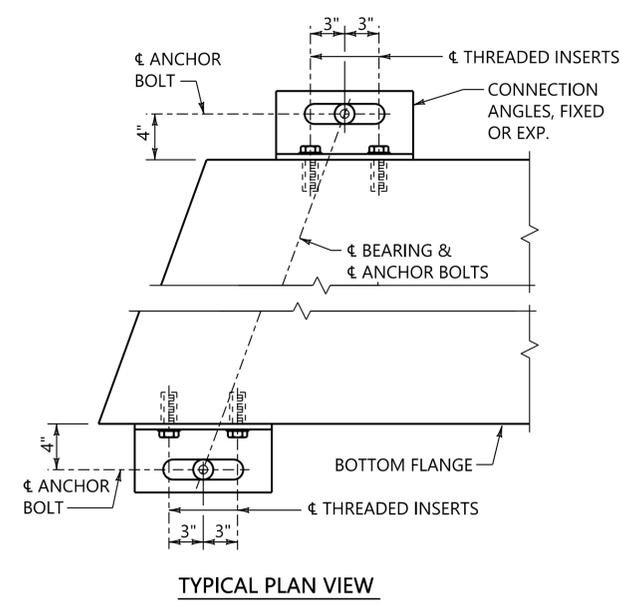
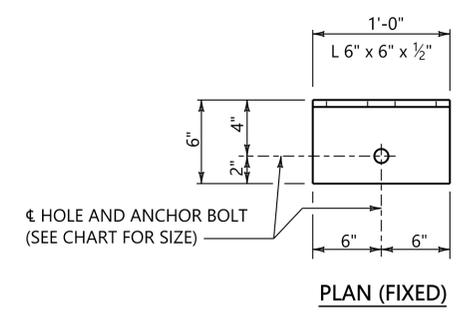


**NOTES:**

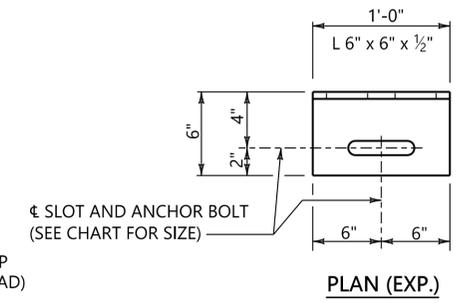
1. THREADED INSERTS AND 7/8"Ø x 3" CAP SCREWS WITH 1 WASHER EACH SHALL BE INCLUDED IN PAY ITEM 513B - PRETENSIONED-PRESTRESSED CONCRETE GIRDERS.
2. CONNECTION ANGLES SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M 111. 7/8"Ø CAP SCREWS AND WASHERS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M 232. DAMAGED GALVANIZED SURFACES NOT TO BE ENCASED IN CONCRETE SHALL BE REPAIRED IN ACCORDANCE WITH STANDARD SPECIFICATION 855.15.
3. FOR SEMI-INTEGRAL TYPE ABUTMENTS ONLY, CAST BARS NB 2'-0" INTO END OF GIRDER. BARS MAY BE BENT AFTER REMOVAL OF FORMS.
4. FOR SKEWED GIRDER ENDS, PLACE FIRST SET OF STIRRUPS AND BARS B PARALLEL TO GIRDER END AND INCREMENTALLY ADJUST OVER THE FIRST FEW SETS UNTIL 90° TO GIRDER IS OBTAINED.



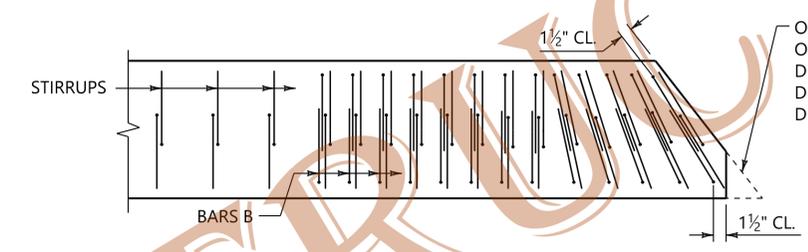
TYPICAL PLAN VIEW



PLAN (FIXED)

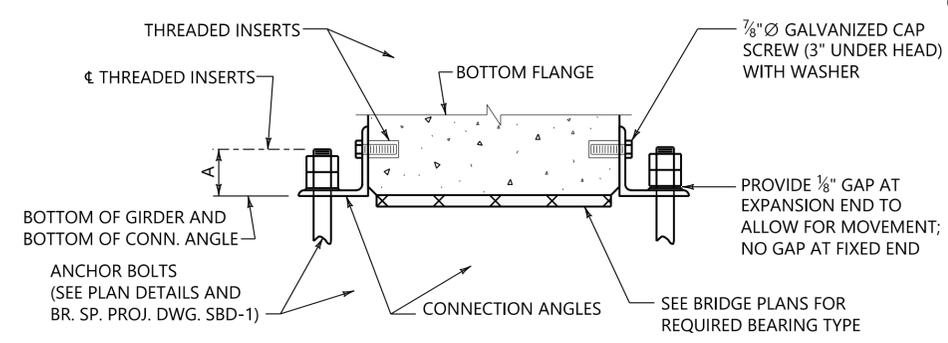


PLAN (EXP.)

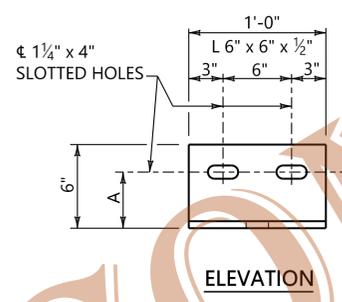


PLACEMENT OF STIRRUPS AND BARS B AT SKEWED GIRDER ENDS

ON SKEWED GIRDER ENDS, THE CORNERS OF FLANGES MAY BE CLIPPED AT THE DISCRETION OF THE FABRICATOR WITH DETAILS TO BE SHOWN ON THE SHOP DRAWINGS SUBMITTED FOR APPROVAL

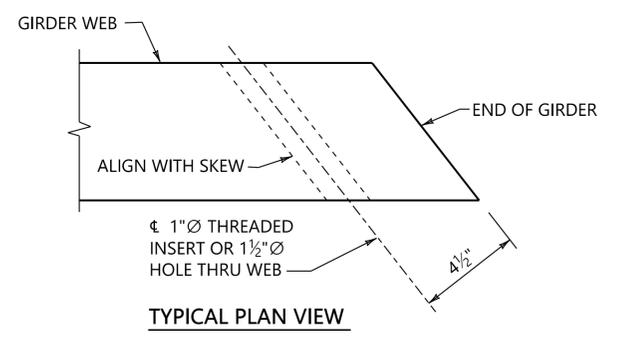


TYPICAL END VIEW



ELEVATION

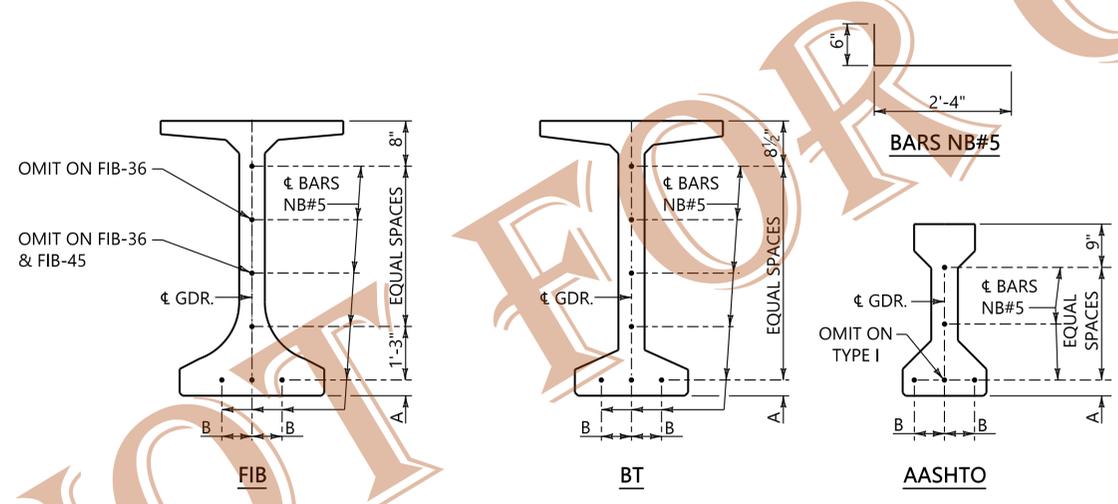
**CONNECTION ANGLE DETAILS**



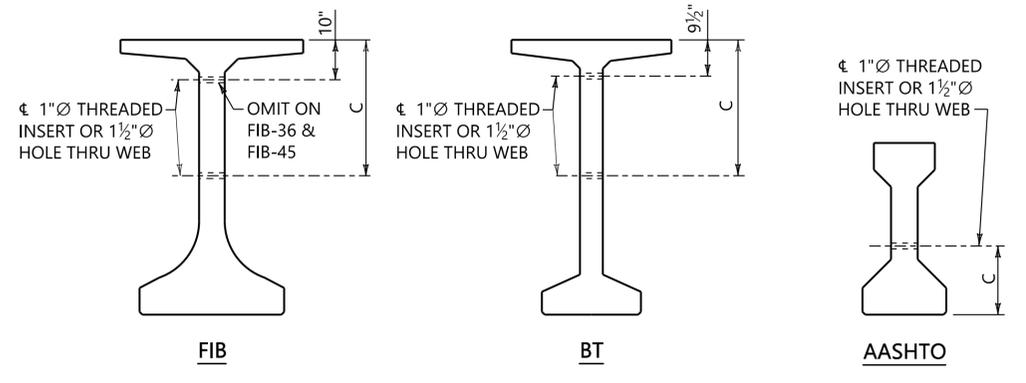
TYPICAL PLAN VIEW

CONNECTION ANGLE HOLE & SLOT SIZE		
BOLT	ROUND	SLOT
AB-1	1 1/4"	1 1/4" x 7"
AB-2	1 1/2"	1 1/2" x 7"
AB-3	1 3/4"	1 3/4" x 7"

DIMENSION TABLE			
GIRDER SHAPE	A	B	C
AASHTO TYPE I	4"	2"	1'-4"
AASHTO TYPE I MOD.	4"	4"	1'-4"
AASHTO TYPE I MOD. (III)	4"	4"	1'-4"
AASHTO TYPE I MOD. (BT)	3 1/2"	6"	1'-3 1/2"
AASHTO TYPE I MOD. (BT+)	3 1/2"	6"	1'-3 1/2"
AASHTO TYPE II	4"	6"	1'-6"
AASHTO TYPE II MOD.	4"	8"	1'-6"
AASHTO TYPE III	4"	8"	1'-8"
AASHTO TYPE III MOD.	3 1/2"	10"	1'-7 1/2"
BT-54 / BT-54 MOD.	3 1/2"	10"	1'-8 1/2"
BT-56 / BT-56 MOD.	3 1/2"	10"	1'-8 1/2"
BT-63 / BT-63 MOD.	3 1/2"	10"	2'-1 1/2"
BT-65 / BT-65 MOD.	3 1/2"	10"	2'-1 1/2"
BT-72 / BT-72 MOD.	3 1/2"	10"	2'-6 1/2"
BT-74 / BT-74 MOD.	3 1/2"	10"	2'-6 1/2"
FIB-36	4"	11"	10"
FIB-45	4"	11"	1'-3"
FIB-54	4"	11"	1'-8"
FIB-63	4"	11"	2'-1"
FIB-72	4"	11"	2'-6"

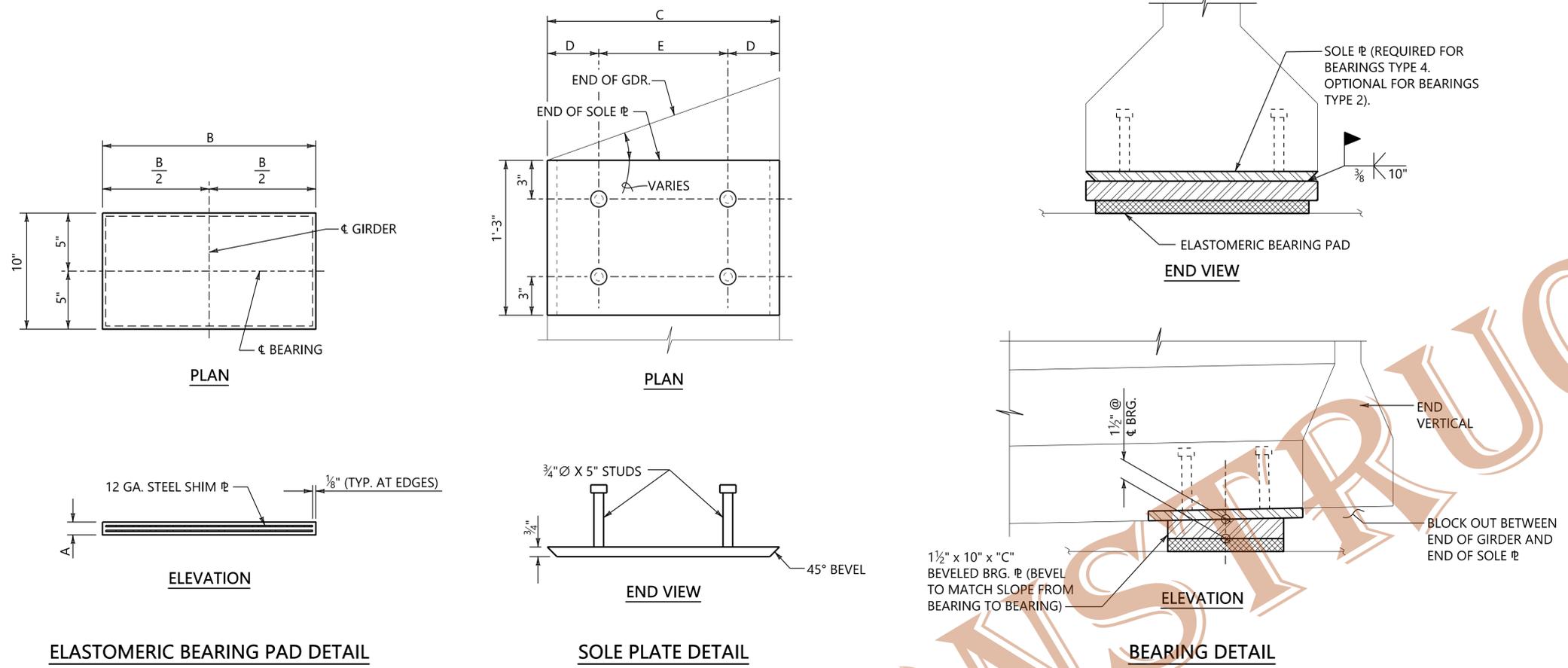


PLACEMENT OF BARS NB IN GIRDER END AT ABUTMENTS (SEMI-INTEGRAL TYPE ONLY)



PLACEMENT OF THREADED INSERTS AND HOLES IN WEBS

ASSISTANT BRIDGE ENGINEER <i>J. Waller</i> 1/28/25	BRIDGE ENGINEER <i>W. Waller</i> 1/28/25
DATE	DATE



**NOTES:**

- SOLE PLATES SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH AASHTO M 111. BEVELED EDGES OF THE SOLE PLATE TO RECEIVE FIELD WELDING SHALL BE GROUND TO BARE METAL BEFORE BEING CAST IN GIRDER. SOLE PLATES SHALL BE INCLUDED IN PAY ITEM 513B.
- A BEARING LAYOUT (ERECTION PLAN) SHALL BE PROVIDED BY THE MANUFACTURER OF THE BEARINGS WHENEVER TYPE 4 ELASTOMERIC BEARINGS ARE SPECIFIED IN THE BRIDGE PLANS. THE LAYOUT SHALL BE INCLUDED IN THE BEARING PAD FABRICATION DRAWINGS SUBMITTED TO THE BRIDGE ENGINEER FOR APPROVAL AND SHALL INCLUDE ALL BEARINGS OF ALL TYPES FOR EACH STRUCTURE. THE LAYOUT SHALL LOCATE EACH BEARING WITH RESPECT TO UNIQUE IDENTIFICATION NUMBERS AND SHALL INDICATE CORRECT PLACEMENT OF BEARING WITH RESPECT TO BEVELING.
- THE CONTRACTOR SHALL REMOVE ANY RUST THAT APPEARS IN THE FIELD WELD AREAS OF THE BEARING PLATE AND SOLE PLATE. ALL DECK POURS SHALL BE COMPLETED PRIOR TO WELDING BEARING PLATE TO SOLE PLATE. SEE SECTIONS 511 AND 837 OF THE STANDARD SPECIFICATIONS FOR BEARING PLATE PREPARATION REQUIREMENTS.
- BEARING MARK INDICATES TYPICAL USAGE WITH ALDOT STANDARD PRESTRESSED GIRDER SHAPES AS INDICATED IN TABLE. BEARINGS MAY BE ADAPTED FOR USE WITH OTHER MODIFIED SHAPES AS APPROPRIATE.
- MAXIMUM SPAN LENGTH BASED ON ALLOWABLE SHEAR DEFORMATION OF ELASTOMER. SPAN LENGTH MEASURED FROM  $\Phi$  FIXED BEARING TO FURTHEST  $\Phi$  EXPANSION BEARING.
- EXTERIOR LAYER THICKNESS MEASURED FROM OUTSIDE SURFACE OF PAD TO  $\Phi$  SHIM PLATE. INTERIOR LAYER THICKNESS MEASURED FROM  $\Phi$  SHIM PLATE TO  $\Phi$  SHIM PLATE.

**ELASTOMERIC BEARINGS TYPE 2**

ELASTOMERIC BEARING MARK	MAXIMUM SPAN LENGTH	MAXIMUM LOAD DL + LL	BEARING PAD DIMENSIONS			INDIVIDUAL LAYERS				REQUIRED 12 GAUGE STEEL SHIM PLATES		
			THICKNESS "A"	LENGTH "B"	WIDTH	EXTERIOR		INTERIOR		NUMBER	LENGTH	WIDTH
						NUMBER	THICKNESS	NUMBER	THICKNESS			
B1	150 FT.	129 KIPS	1 1/2"	1'-2 1/2"	10"	2	1/4"	2	1/2"	3	1'-2 1/4"	9 3/4"
B2	200 FT.	154 KIPS	2"	1'-4 1/2"	10"	2	1/4"	3	1/2"	4	1'-4 1/4"	9 3/4"
B3	200 FT.	207 KIPS	2"	1'-8 1/2"	10"	2	1/4"	3	1/2"	4	1'-8 1/4"	9 3/4"
B4	250 FT.	261 KIPS	2 1/2"	2'-0 1/2"	10"	2	1/4"	4	1/2"	5	2'-0 1/4"	9 3/4"
B5	300 FT.	289 KIPS	3"	2'-2 1/2"	10"	2	1/4"	5	1/2"	6	2'-2 1/4"	9 3/4"
B6	300 FT.	430 KIPS	3"	3'-0 1/2"	10"	2	1/4"	5	1/2"	6	3'-0 1/4"	9 3/4"

BEARING USAGE	
MARK	GIRDER SHAPE
B1 OR VB1	AASHTO TYPE I
B2 OR VB2	AASHTO TYPE II AASHTO TYPE I MOD.
B3 OR VB3	AASHTO TYPE III AASHTO TYPE II MOD. AASHTO TYPE I MOD. (III)
B4 OR VB4	BULB-TEE AASHTO TYPE III MOD. AASHTO TYPE I MOD. (BT & BT+)
B5 OR VB5	BULB-TEE MOD.
B6 OR VB6	FLORIDA FIB

**ELASTOMERIC BEARINGS TYPE 4**

ELASTOMERIC BEARING MARK	MAXIMUM SPAN LENGTH	MAXIMUM LOAD DL + LL	BEARING PAD DIMENSIONS			INDIVIDUAL LAYERS				REQUIRED 12 GAUGE STEEL SHIM PLATES			SOLE $\Phi$ & BEARING $\Phi$ DATA		
			THICKNESS "A"	LENGTH "B"	WIDTH	EXTERIOR		INTERIOR		NUMBER	LENGTH	WIDTH	LENGTH "C"	CONNECTION STUD SPACING	
						NUMBER	THICKNESS	NUMBER	THICKNESS					"D"	"E"
VB1	150 FT.	129 KIPS	1 1/2"	1'-2 1/2"	10"	2	1/4"	2	1/2"	3	1'-2 1/4"	9 3/4"	1'-4"	4"	8"
VB2	200 FT.	154 KIPS	2"	1'-4 1/2"	10"	2	1/4"	3	1/2"	4	1'-4 1/4"	9 3/4"	1'-6"	5"	8"
VB3	200 FT.	207 KIPS	2"	1'-8 1/2"	10"	2	1/4"	3	1/2"	4	1'-8 1/4"	9 3/4"	1'-10"	5"	1'-0"
VB4	250 FT.	261 KIPS	2 1/2"	2'-0 1/2"	10"	2	1/4"	4	1/2"	5	2'-0 1/4"	9 3/4"	2'-2"	5"	1'-4"
VB5	300 FT.	289 KIPS	3"	2'-2 1/2"	10"	2	1/4"	5	1/2"	6	2'-2 1/4"	9 3/4"	2'-4"	6"	1'-4"
VB6	300 FT.	430 KIPS	3"	3'-0 1/2"	10"	2	1/4"	5	1/2"	6	3'-0 1/4"	9 3/4"	3'-2"	6"	2'-2"

PLOTTED: 27-Jan-25 at 14:10  
 \\bvrms002\Bridges\Standard\Special\Bridges\Special DGN Files\2025\SPGD-1 Standard Prestressed Girder Details.dgn