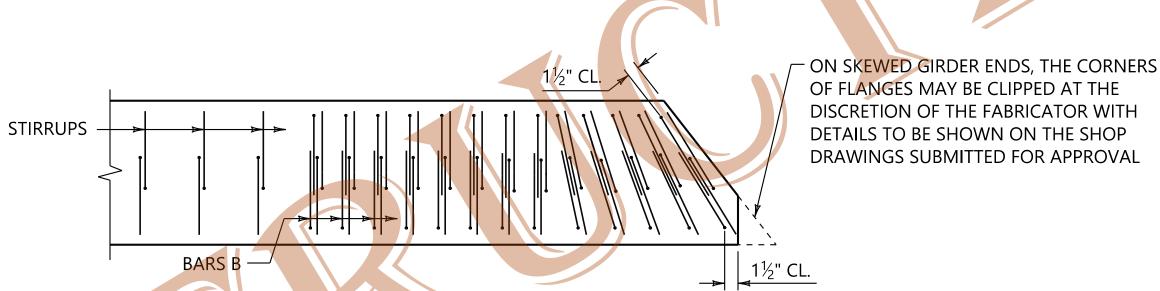




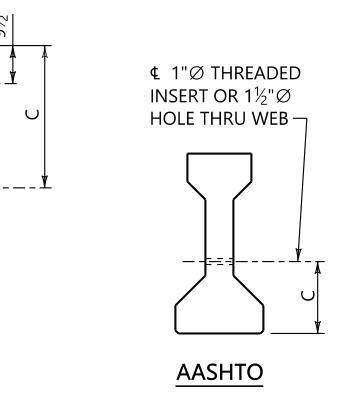
- 1. THREADED INSERTS AND %" \varnothing x 3" CAP SCREWS WITH 1 WASHER EACH SHALL BE INCLUDED IN PAY ITEM 513B - PRETENSIONED-PRESTRESSED CONCRETE GIRDERS.
- 2. CONNECTION ANGLES SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M 111. 7/8" O CAP SCREWS AND WASHERS SHALL BE HOT DIP GALVANIZED IN 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.
- . 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.



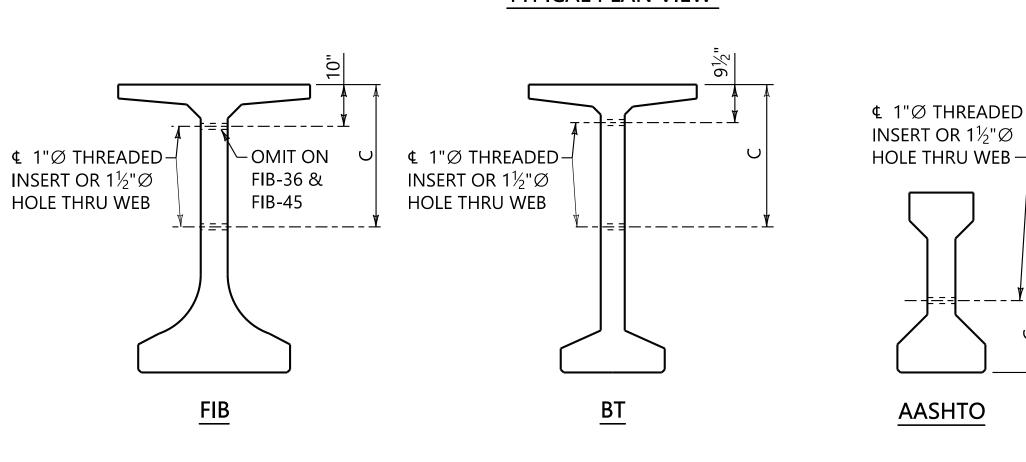
PLACEMENT OF STIRRUPS AND BARS B AT SKEWED GIRDER ENDS

CONNECTION ANGLE								
HOLE & SLOT SIZE								
BOLT	ROUND	SLOT						
AB-1	1¼"	1¼" x 7"						
AB-2	1½"	1½" x 7"						
AB-3	1¾"	1¾" x 7"						

GIRDER WEB —
END OF GIRDER
ALIGN WITH SKEW
`, `, `,
↓ Land threaded
INSERT OR 1½"Ø HOLF THRU WEB
HOLE THRU WEB
TYPICAL PLAN VIEW



DIMENSION TABLE								
GIRDER SHAPE	Α	В	С					
AASHTO TYPE I AASHTO TYPE I MOD.	4"	2"	1'-4"					
AASHTO TYPE I MOD. (III)	4"	4"	1'-4"					
AASHTO TYPE I MOD. (BT) AASHTO TYPE I MOD. (BT+)	3½"	6"	1'-3½"					
AASHTO TYPE II	4"	6"	1'-6"					
AASHTO TYPE II MOD.	4"	8"	1'-6"					
AASHTO TYPE III	4"	8"	1'-7½"					
AASHTO TYPE III MOD. BT-54 / BT-54 MOD. BT-56 / BT-56 MOD.	3½''	10''	1'-7½"					
BT-63 / BT-63 MOD. BT-65 / BT-65 MOD.	3½"	10''	2'-0½"					
BT-72 / BT-72 MOD. BT-74 / BT-74 MOD.	3½"	10''	2'-5½"					
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 THREADED **INSERTS AND HOLES IN WEBS**

ASSISTANT BRIDGE ENGINEER **BRIDGE ENGINEER** West, Cognite 3/14/24

ALABAMA DEPARTMENT **OF TRANSPORTATION**

⊈ GDR.

CONTRACT

REVISED NOTES, TABULATED DIMENSIONS, ADDED FIB DETAILS, AND REMOVED HOLD DOWN DETAIL.

REVISIONS

PLACEMENT OF BARS NB IN GIRDER END

AT ABUTMENTS (SEMI-INTEGRAL TYPE ONLY)

€ THREADED INSERTS

OR EXP.

- & BEARING &

& ANCHOR BOLTS

BOTTOM FLANGE -

TYPICAL PLAN VIEW

-BOTTOM FLANGE

CONNECTION ANGLES

TYPICAL END VIEW

⊈ BARS

NB#5---

- CONNECTION

ANGLES, FIXED

⁷⁄₈"∅ GALVANIZED CAP

WITH WASHER

- PROVIDE ½" GAP AT **EXPANSION END TO**

ALLOW FOR MOVEMENT;

CONNECTION ANGLE DETAILS

BARS NB#5

AASHTO

⊈ GDR.

OMIT ON -TYPE I

& BARS

NB#5 -

NO GAP AT FIXED END

SEE BRIDGE PLANS FOR

REQUIRED BEARING TYPE

⊈ BARS

NB#5—

€ GDR.-

SCREW (3" UNDER HEAD)

& ANCHOR BOLT —

& ANCHOR

BOLT-

THREADED INSERTS-

BOTTOM OF GIRDER AND

ANCHOR BOLTS

OMIT ON FIB-36

OMIT ON FIB-36 —

& FIB-45

BOTTOM OF CONN. ANGLE $^{\perp}$

(SEE PLAN DETAILS AND

BR. SP. PROJ. DWG. SBD-1) -

THIS BRIDGE SPECIAL PROJECT DRAWING FOR USE ONLY ON: PROJECT NO. COUNTY(S)

L 6" x 6" x ½"

PLAN (FIXED)

1'-0"

L 6" x 6" x ½"

PLAN (EXP.)

1'-0" L 6" x 6" x ½"

ELEVATION

♦ HOLE AND ANCHOR BOLT

♠ SLOT AND ANCHOR BOLT

¢ 1¼" x 4"

SLOTTED HOLES

(SEE CHART FOR SIZE)

(SEE CHART FOR SIZE) -

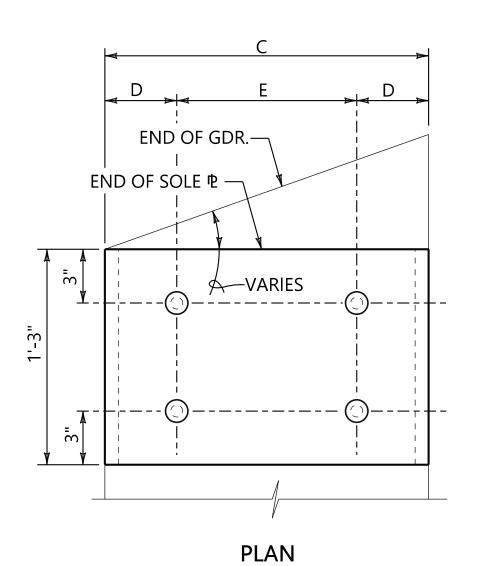
CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OI HESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

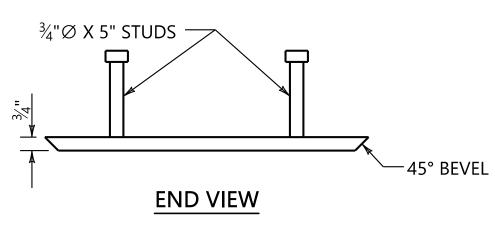
STANDARD PRESTRESSED GIRDER DETAILS

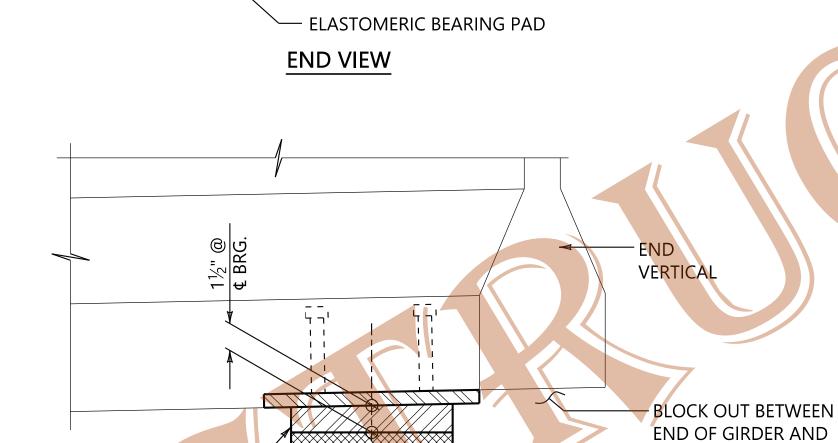
BRIDGE SPECIAL PROJECT DRAWING

SPGD-1

SHEET 1 OF 2







1 I 1 I

1 I 1 I

-SOLE № (REQUIRED FOR

OPTIONAL FOR BEARINGS

END OF SOLE ®

BEARINGS TYPE 4.

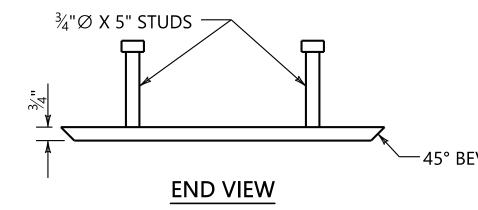
TYPE 2).

BEARING DETAIL

ELEVATION

- **⊈** GIRDER

12 GA. STEEL SHIM 屯 —



ELASTOMERIC BEARING PAD DETAIL

ELEVATION

 $\frac{1}{8}$ " (TYP. AT EDGES)

SOLE PLATE DETAIL

ELASTOMERIC BEARINGS TYPE 2												
ELASTOMERIC BEARING PAD DATA												
ELASTOMERIC	MAXIMUM SPAN	MAXIMUM LOAD	BEARIN	G PAD DIME	NSIONS		INDIVIDU	AL LAYERS	REQUIRED 12 GUAGE			
BEARING			THICKNESS	LENGTH WIDTH	WIDTH	EXTE	RIOR	INTE	INTERIOR		STEEL SHIM PLATES	
MARK	LENGTH	DL + LL	"A"	"B" WIDTH		NUMBER	THICKNESS	NUMBER	THICKNESS	NUMBER	LENGTH	WIDTH
B1	150 FT.	129 KIPS	1½"	1'-2½"	10"	2	1/4"	2	1/ "	3	1'-21/4"	93/4"
B2	200 FT.	154 KIPS	2"	1'-4½"	10"	2	1/4"	3	1/11	4	1'-41/4"	9¾"
В3	200 FT.	207 KIPS	2"	1'-8½"	10"	2	1/4"	3	1/2"	4	1'-8¼"	9¾"
B4	250 FT.	261 KIPS	2½"	2'-0½"	10"	2	1/4"	4	1/2"	5	2'-01/4"	9¾"
B5	300 FT.	289 KIPS	3"	2'-2½"	10"	2	1/4"	5	1/2"	6	2'-21/4"	9¾"
В6	300 FT.	430 KIPS	3"	3'-0½"	10"	2	1/4"	5	1/2"	6	3'-01/4"	9¾"

_																
	ELASTOMERIC BEARINGS TYPE 4															
	ELASTOMERIC BEARING PAD DATA										SOLE ® & BEARING ® DATA					
	ELASTOMERIC	MAXIMUM	MAXIMUM	BEARIN	IG PAD DIMEI	NSIONS		INDIVIDU	AL LAYERS		REC	UIRED 12 GU	AGE	LENIGTU	CONN	ECTION
	BEARING	SPAN	LOAD	THICKNESS	LENGTH	WIDTH	EXT	ERIOR	INTE	RIOR	STE	EL SHIM PLA	TES	LENGTH "C"	STUD S	PACING
	MARK	LENGTH	DL + LL	"A"	"B"	חוטוייי 	NUMBER	THICKNESS	NUMBER	THICKNESS	NUMBER	LENGTH	WIDTH		"D"	"E"
	VB1	150 FT.	129 KIPS	1½"	1'-2½"	10"	2	1/4"	2	1/2"	3	1'-21/4"	9¾"	1'-4"	4"	8"
	VB2	200 FT.	154 KIPS	2"	1'-4½"	10"	2	1/4"	3	1/2"	4	1'-41/4"	9¾"	1'-6"	5"	8"
	VB3	200 FT.	207 KIPS	2"	1'-8½"	10"	2	1/4"	3	1/2"	4	1'-81/4"	9¾"	1'-10"	5"	1'-0"
	VB4	250 FT.	261 KIPS	2½"	2'-0½"	10"	2	1/4"	4	1/2"	5	2'-01/4"	9¾"	2'-2"	5"	1'-4"
1	VB5	300 FT.	289 KIPS	3"	2'-2½"	10"	2	1/4"	5	1/2"	6	2'-21/4"	9¾"	2'-4"	6"	1'-4"
	VB6	300 FT.	430 KIPS	3"	3'-0½"	10"	2	1/4"	5	1/2"	6	3'-01/4"	9¾"	3'-2"	6"	2'-2"

NOTES

- 1. 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.
- 2. 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 BY WIRE BRUSHING JUST PRIOR TO FIELD WELDING THESE PLATES. 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.
- 4. 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.
- 5. MAXIMUM SPAN LENGTH BASED ON ALLOWABLE SHEAR DEFORMATION OF ELASTOMER. SPAN LENGTH MEASURED FROM & FIXED BEARING TO FURTHEST & EXPANSION BEARING.
- 6. EXTERIOR LAYER THICKNESS MEASURED FROM OUTSIDE SURFACE OF PAD TO € SHIM PLATE. INTERIOR LAYER THICKNESS MEASURED FROM € SHIM PLATE TO & SHIM PLATE.

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

ALABAMA DEPARTMENT **OF TRANSPORTATION**

REVISIONS REVISED NOTES, BEARING AND BEARING USAGE. REVISED ELEVATION DETAILS AND TABLES.

JTH 1/2024 JNW 1/2024 THIS BRIDGE SPECIAL PROJECT DRAWING FOR USE ONLY ON: PROJECT NO. COUNTY(S)

1½" x 10" x "C"

BEVELED BRG. セ (BEVEL

TO MATCH SLOPE FROM

BEARING TO BEARING) -

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STANDARD PRESTRESSED GIRDER DETAILS

BRIDGE SPECIAL PROJECT DRAWING

SPGD-1

2 OF 2