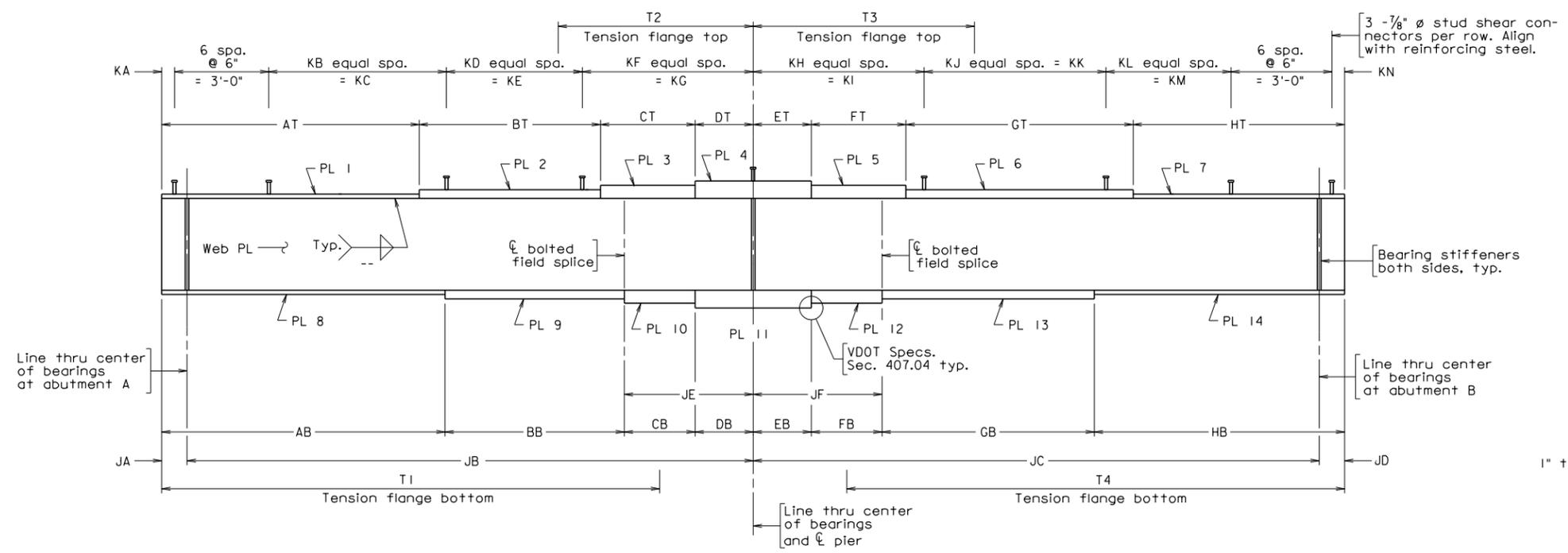


STATE	FEDERAL AID		STATE		SHEET NO.
ROUTE	PROJECT	ROUTE	PROJECT		
VA.					



Notes:

The Contractor has the option of eliminating the transverse intermediate stiffeners by increasing the web thickness to . . .

For spacing of intermediate diaphragm connector plates and transverse web stiffener plates, see Framing Plan, sheet . . .

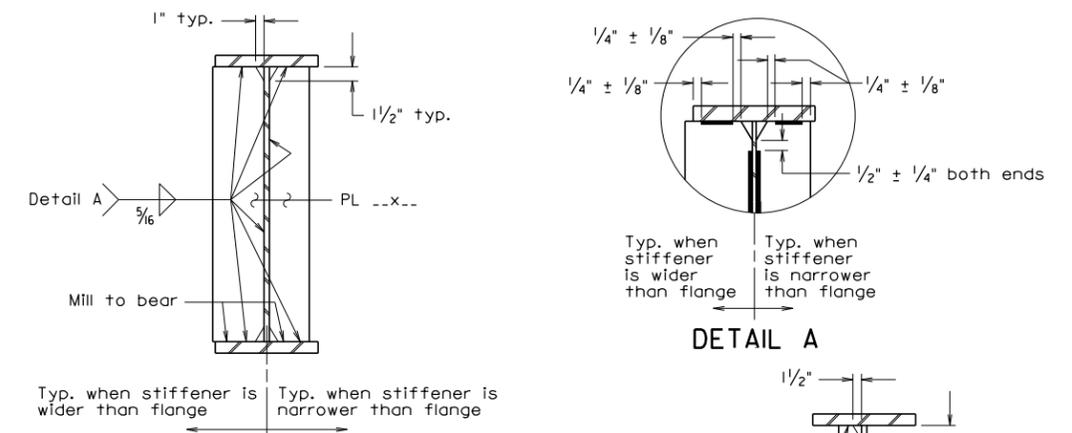
For spacing of stud shear connectors in vicinity of bolted field splice, see Bolted Splice Details, sheet . . .

The top and bottom flanges as shown in Girder Elevation, the web and all splice plates are areas of tensile stress for Charpy V-Notch impact requirements.

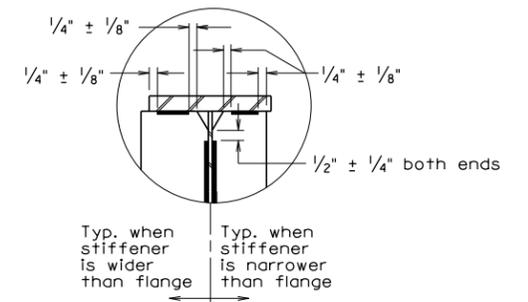
If the contractor, chooses eliminating one or more bolted field splice(s), the Contractor shall submit their shipping and erection plans along with the shop drawings to the Department for review and approval. The shipping and erection plans shall be signed and sealed by a Professional Engineer, holding a valid license to practice engineering in the Commonwealth of Virginia. Approval for eliminating of a bolted field splice does not imply issuance of a hauling permit.

Symbol  $\phi$  = diameter.

**GIRDER ELEVATION**  
Scale: --" = 1'-0" horizontal only



**BEARING STIFFENERS**

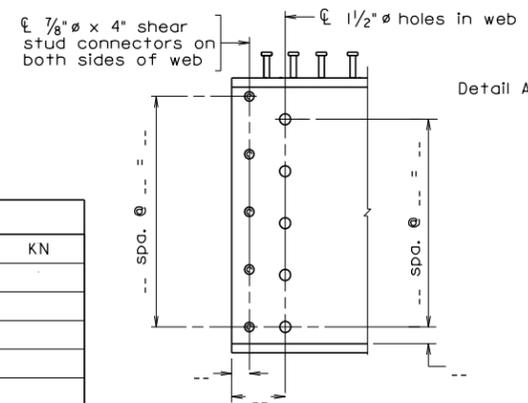


**DETAIL A**

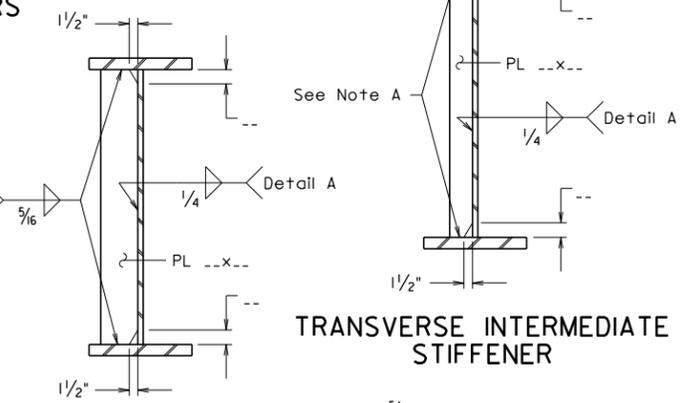
Girder	Web PL	PL 1	PL 2	PL 3	PL 4	PL 5	PL 6	PL 7	PL 8	PL 9	PL 10	PL 11	PL 12	PL 13	PL 14

Girder	AB	AT	BB	BT	CB	CT	DB	DT	EB	ET	FB	FT	GB	GT	HB	HT

Girder	Radius	JA	JB	JC	JD	JE	JF	KA	KB	KC	KD	KE	KF	KG	KH	KI	KJ	KK	KL	KM	KN	



**TYPICAL BEAM END DETAIL**  
(Bearing stiffeners not shown for clarity)



**CROSS FRAME CONNECTOR PLATE**

Note A: 5/16" fillet weld (both sides) to compression flange(s). Tight fit to tension flange(s).

Girder	T1	T2	T3	T4

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION STRUCTURE AND BRIDGE DIVISION				
<b>GIRDER DETAILS</b>				
No.	Description	Date	Designed: .....	Date
			Drawn: .....	Plan No.
			Checked: .....	Sheet No.
Revisions			<b>SGDET2C</b>	

SGDET2C 05-18-2016 sgdet2c.dgn

**STEEL PLATE GIRDER  
2-SPAN CONTINUOUS – TRAPEZOIDAL OR CURVED  
GIRDER DETAILS**

**NOTES TO DESIGNER:**

Standard is to be used for trapezoidal or curved, 2-span continuous, steel plate girders. The standard includes girder details; tables for plate sizes, dimensions, and tension flange limits; and details for stiffeners, connector plates, etc. The standard is used along with standards SGCAM2C (camber diagram) and SGDL2C (dead load deflection and top of slab elevations along centerline girder).

**ADD THE FOLLOWING NOTES, DIMENSIONS, DETAILS, ETC. TO STANDARD:**

GIRDER ELEVATION:

Draw horizontal lengths of plates to scale and draw thickness and vertical lengths of plates proportional. Add horizontal scale. Show size of welds between web and flange. Show size of bearing stiffeners. Remove the plates and their dimension designations that are not used.

NOTES:

Complete first note (alternate web thickness). Add sheet number(s) to note(s).

PLATE DIMENSION TABLE:

Fill in table. Remove unused columns.

GIRDER DIMENSION TABLE:

Fill in table. Remove unused columns.

TENSION FLANGES:

Fill in table.

BEARING STIFFENERS:

Add plate size(s) and location(s).

CROSS FRAME CONNECTOR PLATE:

Add dimensions. See Part 2, Chapter 11, of this manual. Add plates size(s) and location(s).

TRANSVERSE INTERMEDIATE STIFFENER:

Add plate size and dimensions. See Part 2, Chapter 11, of this manual.

**STEEL PLATE GIRDER  
2-SPAN CONTINUOUS – TRAPEZOIDAL OR CURVED  
GIRDER DETAILS**

**ADD THE FOLLOWING NOTES, DIMENSIONS, DETAILS, ETC. TO STANDARD (Cont'd):**

FLANGE CLIP DETAIL:

Add flange clip detail from cell library (sg.cel) for skewed bridges. Add angle, dimension(s) and location(s). Details may have to be moved to place cell. See Part 2, Chapter 11, of this manual.

TYPICAL BEAM END DETAIL:

Fill in number of spaces and spacing of shear stud connectors and 1 ½" ø holes in web. Fill in dimensions between end of beam and centerlines of shear stud connectors and 1 ½" ø holes.