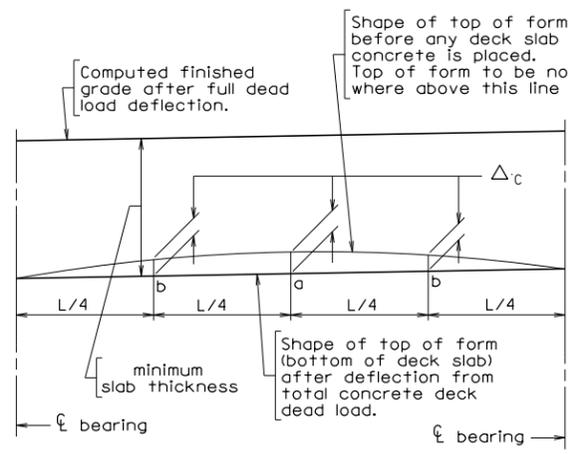


STATE	FEDERAL AID	STATE	SHEET NO.
ROUTE	PROJECT	ROUTE	PROJECT
VA.			



Adjustment of deck slab forms to correct for dead load deflections shall be made by varying thickness of concrete bolster between slab and beam without alteration of slab thickness. Longitudinal screed should be set above final finished grade by amounts = Δ_c

Δ_{c1} = Deflection of beam from dead load of concrete deck slab, bolsters and diaphragms and does not include the deflection of the beam from its own weight.

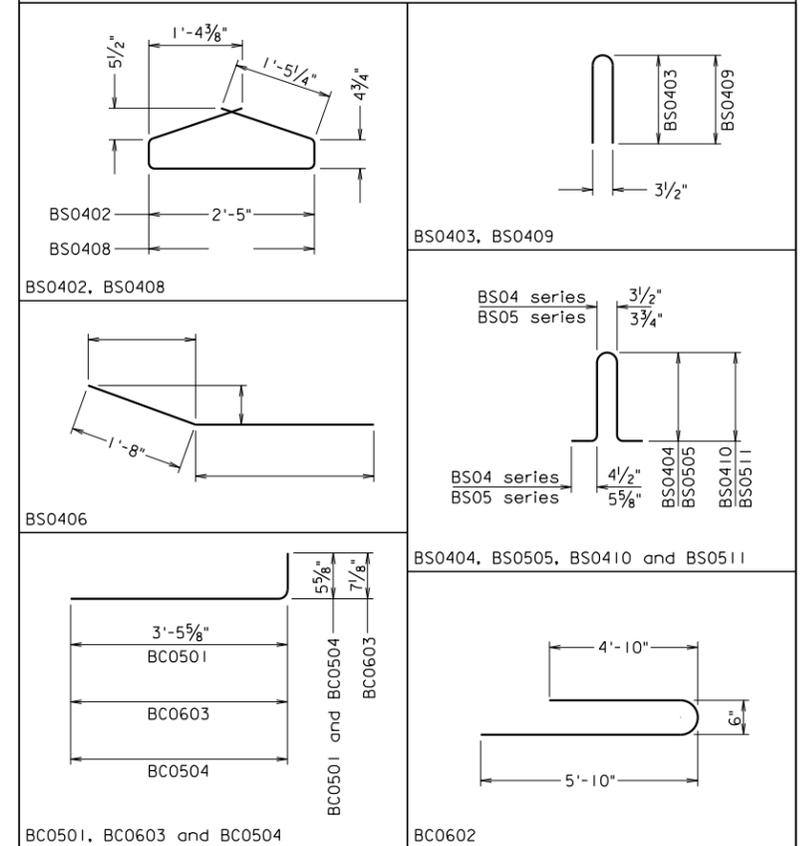
Δ_{c2} = Deflection of composite section from dead load (e.g. parapet and curb added after deck is cast).

$\Delta_c = \Delta_{c1} + \Delta_{c2}$

ANTICIPATED DEAD LOAD DEFLECTION				
Beam	At a		At b	
	Δ_{c1}	Δ_{c2}	Δ_{c1}	Δ_{c2}

DEAD LOAD DEFLECTION DIAGRAM

REINFORCING STEEL SCHEDULE

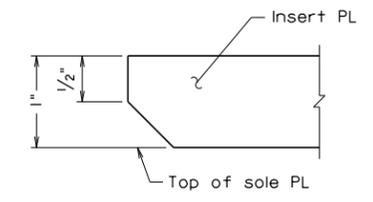


Mark	Size	No.	Length	Pin ϕ	Location
BC0501 *	#5		3'-10"	2 1/2"	Top flange - closure diaphragm
BC0602 *	#6		10'-10 1/4"	4 1/2"	Bottom flange - closure diaphragm
BC0603 *	#6			3 3/4"	Bott. flange - full or semi-integral
BC0504 *	#5			2 1/2"	Top flange - full or semi-integral
BS0401	#4		3'-7"		Top flange transverse
BS0402	#4		5'-9 3/4"	2"	Bottom flange - confinement
BS0403 *	#4			2 1/2"	Stirrup outside anchorage zone
BS0404 *	#4			2 1/2"	Anchorage zone stirrup
BS0505 *	#4			2 1/2"	Anchorage zone stirrup
BS0406	#4			3"	Top flange - left or right clip
BS0407	#4				Top flange - left or right skew
BS0408	#4			2"	Bottom flange confinement on skew
BS0409 *	#4			2 1/2"	Stirrup outside anch. zone - 2nd d
BS0410 *	#4			2 1/2"	Anchorage zone stirrup - 2nd depth
BS0511 *	#5			2 1/2"	Anchorage zone stirrup - 2nd depth
BL0501	#5				Top flange longitudinal

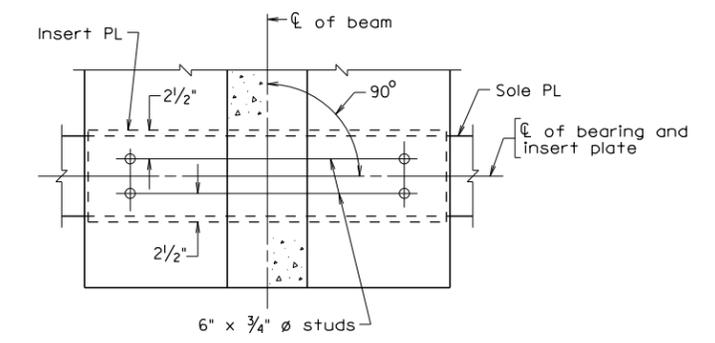
Mark	Size	No. each length	From	To	Vary by	Pin ϕ

Dimensions in bending diagram are out-to-out of bars.
 Reinforcing bars shown in the above schedule are for all beams shown on sheet -- .
 * Denotes reinforcing bars that shall be corrosion resistant reinforcing steel, Class I.
 At the Contractor's option and at no additional cost, bar BS0402 and BS0408 may be fabricated as a two piece bar with a minimum 1'-4" lap.

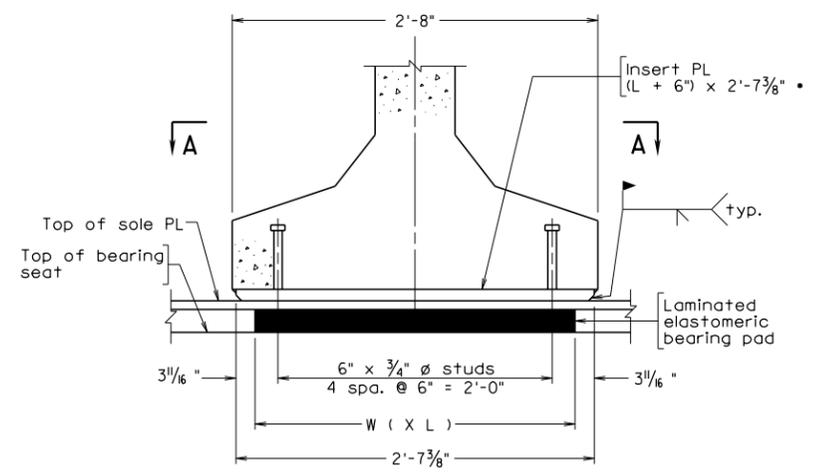
Notes:
 Insert plate shall provide uniform bearing over its entire contact area.
 For beam details and notes, see sheet ...
 For bearing details, see sheet ...



INSERT PLATE CHAMFER DETAIL



SECTION A-A



INSERT PLATE DETAILS

* For laminated elastomeric bearing pad dimensions, see sheet -- .

PCBT-MISC I 10-15-2015 pcbtmisc1.dgn

Sealed and Signed by:
 Prasad L. Nallapareni
 Lic. No. 033003
 On the date of
 October 15, 2015

A copy of the original sealed and signed standard drawing is on file in the Central Office.

VDOT S&B DIVISION
 RICHMOND, VA
 STRUCTURAL ENGINEER

Not to scale

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COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION STRUCTURE AND BRIDGE DIVISION			
PRESTRESSED CONCRETE BULB-T MISCELLANEOUS BEAM DETAILS			
No.	Description	Date	Designed:
			Drawn:
			Checked:
			Date
			Plan No.
			Sheet No.
Revisions			PCBT-MISC I

**PRESTRESSED CONCRETE BEAM
BULB-T
MISCELLANEOUS BEAM DETAILS**

NOTES TO DESIGNER:

Include this standard in the plan assembly when using Bulb-T beam standards.

The reinforcing steel bar details (REINFORCING STEEL SCHEDULE) shown and reinforcing steel bars listed in the table are for typical beam end at end diaphragms, closure diaphragms and integral backwalls for 0° skew and for skew other than 0°.

Cells for modifying the standard are located in pcb.cel library.

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

DEAD LOAD DEFLECTION DIAGRAM:

Deflection diagram is shown for a gradient. For hump or sag vertical curves, replace diagram with appropriate diagram from cell library. Complete table of anticipated dead load deflections using 1/8" increments. Fill in the value for " minimum slab thickness" on the deflection diagram.

REINFORCING STEEL SCHEDULE:

Add reinforcing bars to table as required and delete bar(s) not required.

Complete dimensions, numbers and lengths of reinforcing bars in table.

Add appropriate plan sheet number to notes "see sheet _ _."

NOTES:

Add appropriate plan sheet number to notes "see sheet _ _."