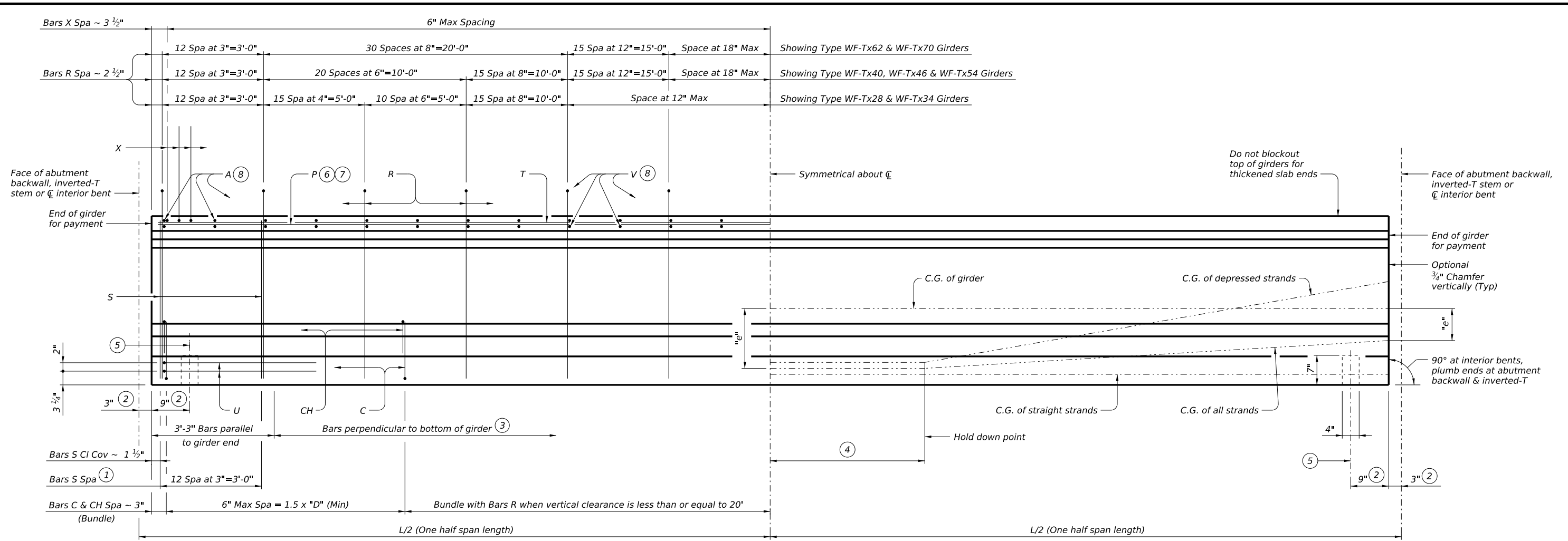


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GIRDER ELEVATION

Curb not shown, see applicable Section and Curb Relief Joint Detail for Reinforcing

- ① Bundle with Bars R.
- ② Measured along \bar{C} girder at interior bents; perpendicular to abutment backwall or inverted-T stem.
- ③ The average of the top and bottom spacing of Bars R cannot exceed the required spacing.
- ④ L/20, but not less than 5'-0" (-0,+2').
- ⑤ \bar{C} 4" x 1 1/2" Vertical slotted hole at doweled girder end [labeled (D) on Bridge Layout]. Required for outside girder only or as shown on substructure details. Anchorage holes may be tapered (4 3/4" x 1 5/8") at base. If holes are formed with sheet metal, forms may be left in place.
- ⑥ Bars P (#6) required in WF-Tx62 and WF-Tx70 girders. At the Fabricator's option, bars larger than #6 may be used.
- ⑦ Bars P (#6) are only required in WF-Tx28, WF-Tx34, WF-Tx40, WF-Tx46, and WF-Tx54 girders when "e" at girder ends exceeds 0.25 x "D". At the Fabricator's option bars larger than #6 may be used.
- ⑧ Space Bars A and Bars V at 12" Max. Tie to Bars R as necessary.

- ⑨ Bars may be cut or bent at skewed end as required.
- ⑩ Increase as necessary for bars at skewed end.
- ⑪ No portion of bar less than 15 ft.
- ⑫ For Welded Wire Reinforcement (WWR) option, area of Bars R may be reduced in proportion to the increase in reinforcement yield strength over 60 ksi. Yield strength of WWR is limited to 75 ksi.

MATERIAL NOTES:
 Provide Grade 60 reinforcing steel.
 Provide Class H concrete.
 An equal area of deformed Welded Wire Reinforcement (WWR) (ASTM A1064) may be substituted for Bars A, C, R or T unless otherwise noted.

GENERAL NOTES:
 Designed in accordance with AASHTO LRFD Bridge Design Specifications.
 It is permissible for bars or strands to come into contact with material used in forming anchor holes.
 When vertical clearance of the span is less than or equal to 20 feet, provide additional Bars C and CH in every girder of that span.
 Screenshot rails must be supported at the centerline of girder.
 The use of Wide Flange I-Girders is restricted to tangent edge of decks and is not permitted to be chorded on curve deck edges.

Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing bar dimensions shown are out-to-out of bar.

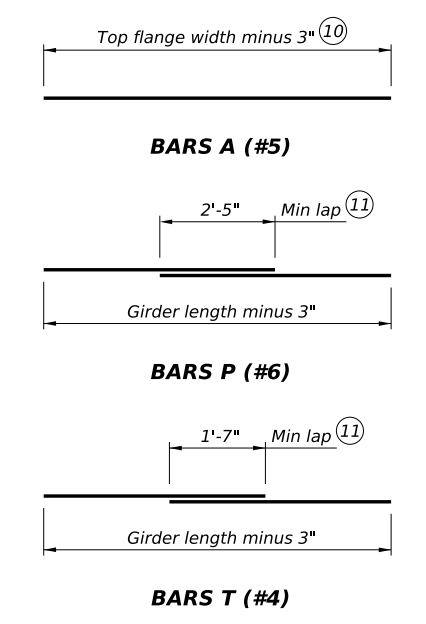
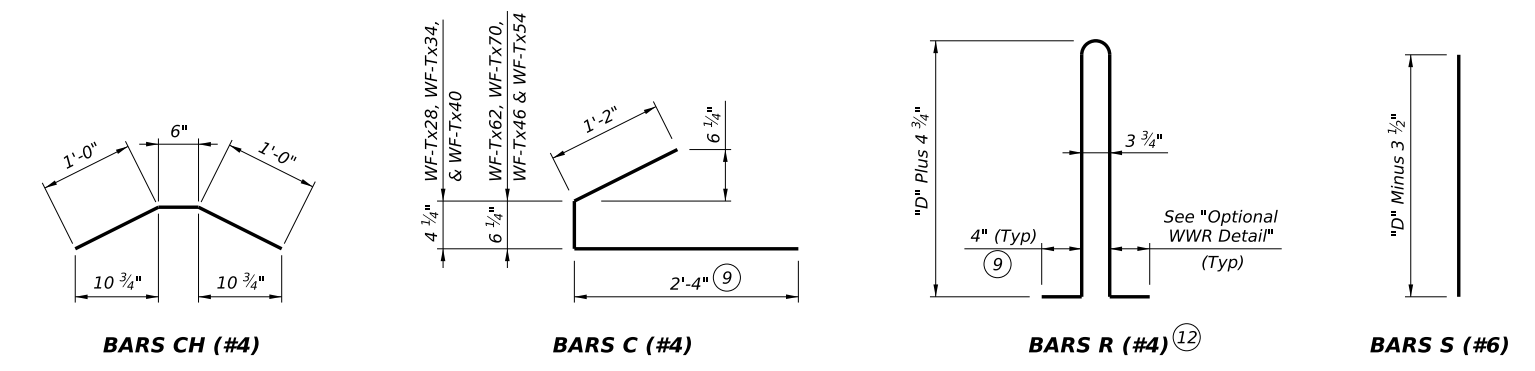
HL93 LOADING SHEET 1 OF 3



PRESTR CONC WIDE FLANGE I-GIRDER DETAILS

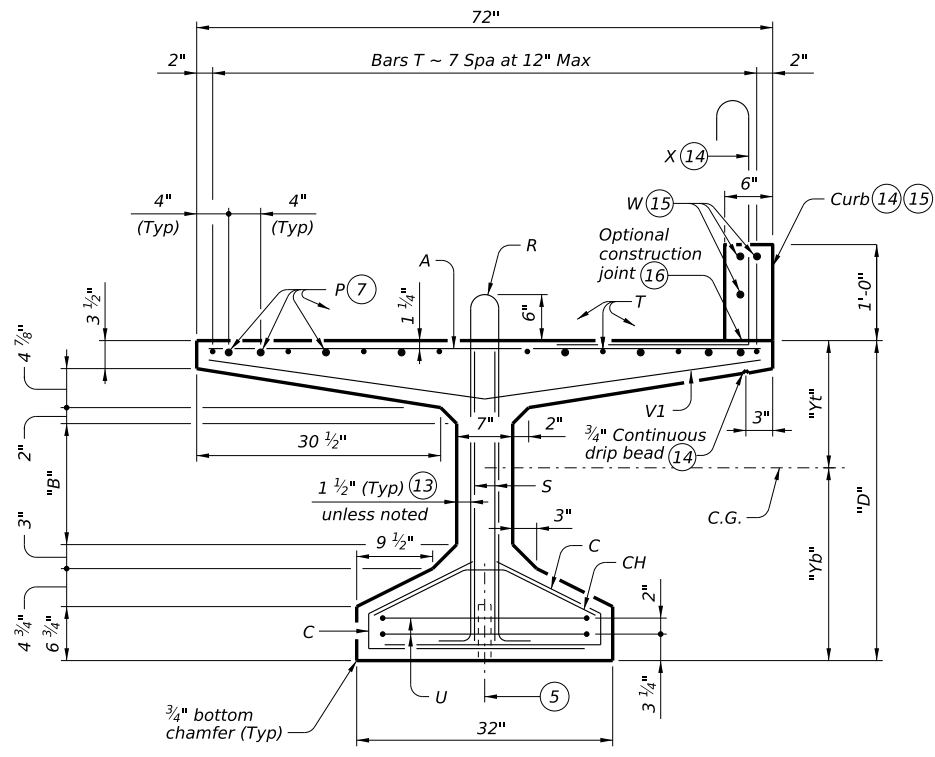
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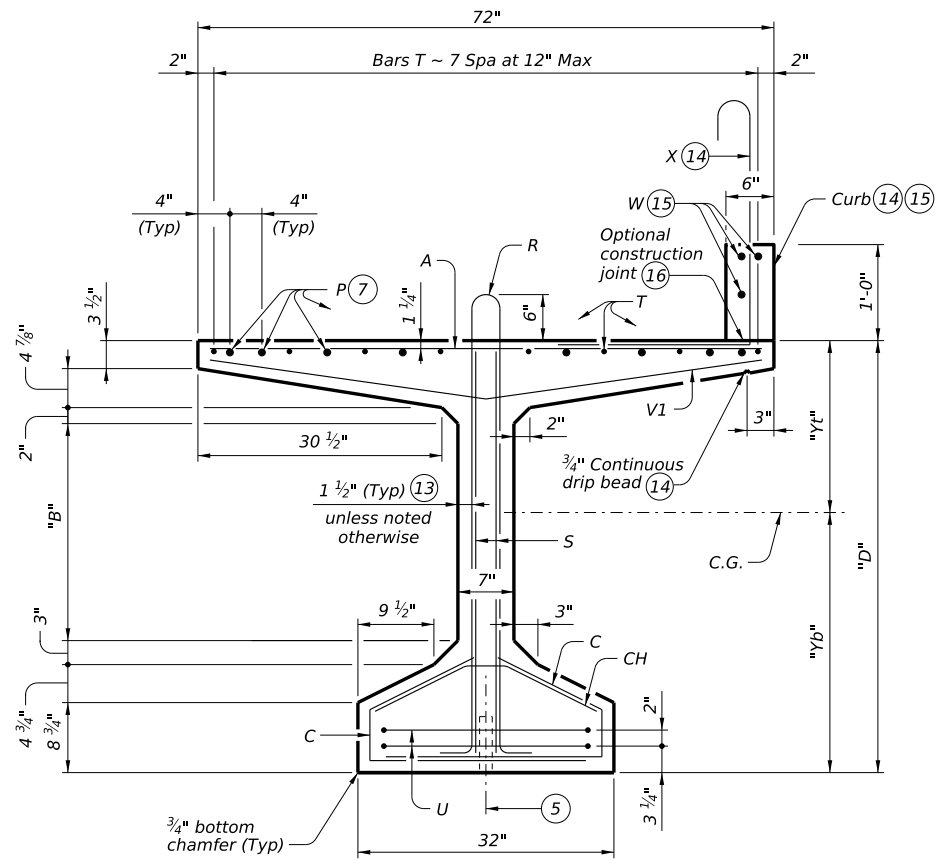


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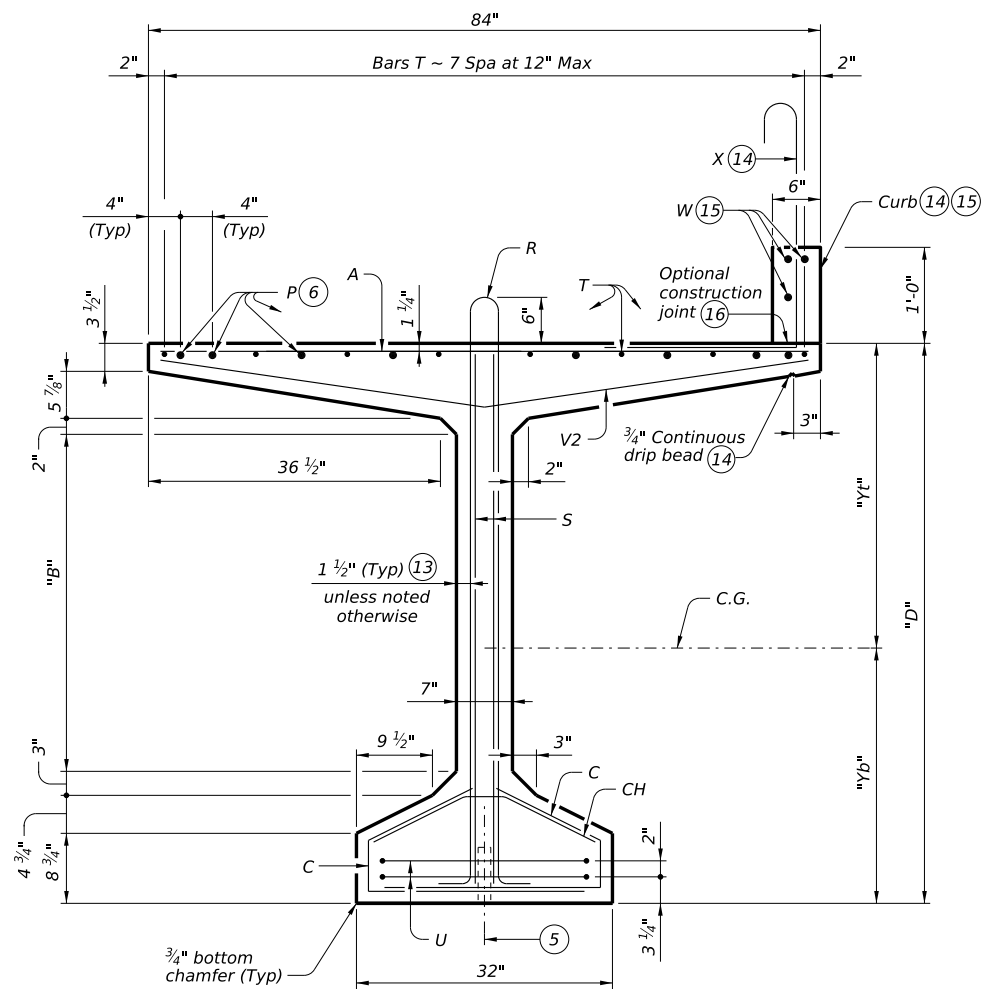
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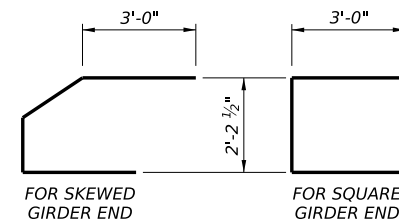
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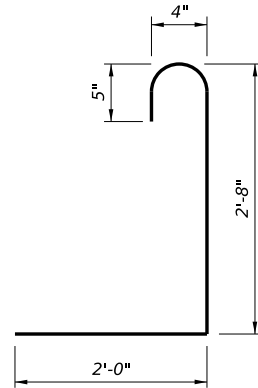
TYPE WF-Tx46 & WF-Tx54



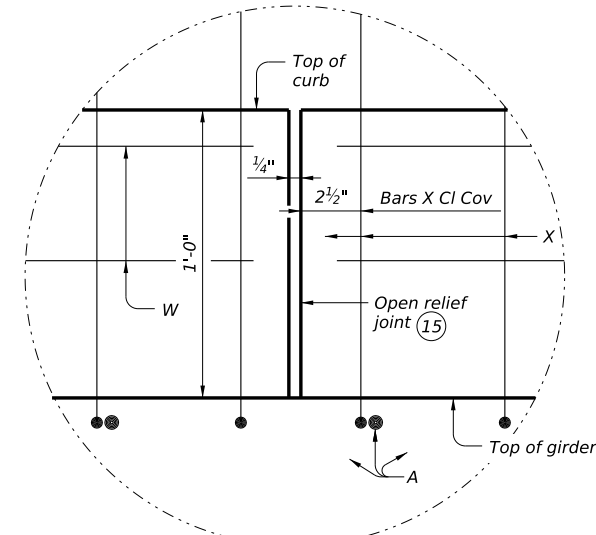
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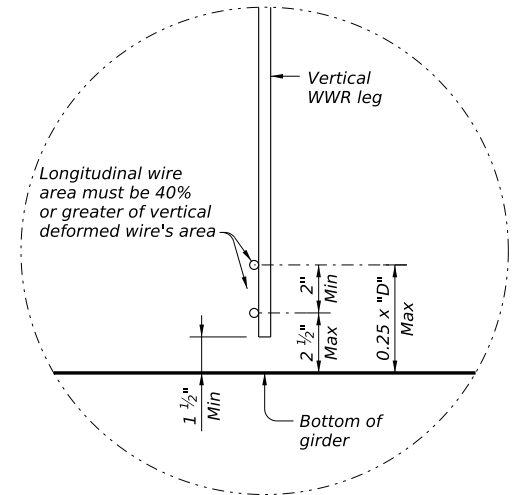
BARS U (#5)



BARS X (#4)



CURB RELIEF JOINT



OPTIONAL WELDED WIRE REINFORCEMENT (WWR) DETAIL

GIRDER DIMENSIONS AND SECTION PROPERTIES

Girder Type	"D"	"B"	"Yt"	"Yb"	Area (in. ²)	"Ix"	"Iy"	Weight (17) (plf)
	(in.)	(in.)	(in.)	(in.)		(in. ⁴)	(in. ⁴)	
WF-Tx28	28	3 1/8"	11.53	16.47	847	77,175	177,678	911
WF-Tx34	34	9 1/8"	14.14	19.86	889	129,931	177,849	956
WF-Tx40	40	15 1/8"	16.79	23.21	931	198,439	178,021	1,002
WF-Tx46	46	19 1/8"	20.23	25.77	1023	295,105	183,597	1,101
WF-Tx54	54	27 1/8"	24.01	29.99	1079	443,002	183,825	1,161
WF-Tx62	62	34 1/8"	25.73	36.27	1246	660,613	286,765	1,341
WF-Tx70	70	42 1/8"	29.31	40.69	1302	918,917	286,994	1,402

- 5) 4" x 1 1/2" Vertical Slotted Hole at doweled girder end [labeled (D) on Bridge Layout]. Required for outside girder only or as shown on substructure details. Anchorage holes may be tapered (4 3/4" x 1 1/8") at base. If holes are formed with sheet metal, forms may be left in place.
- 6) Bars P (#6) required in WF-Tx62 and WF-Tx70 girders. At the Fabricator's option bars larger than #6 may be used.
- 7) Bars P (#6) are only required in WF-Tx28, WF-Tx34, WF-Tx40, WF-Tx46, and WF-Tx54 girders when "e" at girder ends exceeds 0.25 x "D". At the Fabricator's option bars larger than #6 may be used.
- 13) 1 3/8" Clear Cover to Bars S.
- 14) Outer side of exterior girders only. Omit drip bead, curb and Bars X on interior girders.
- 15) Provide a curb width and height by 1/4" wide open relief joint spaced at no less than 10' and no more than 20' along girder. Bars W shall be the length of curb section minus 4"
- 16) If optional construction joint is used, Fabricator shall determine when to cast curb to minimize cracking.
- 17) Based on 155 pcf total weight of concrete and reinforcing steel.

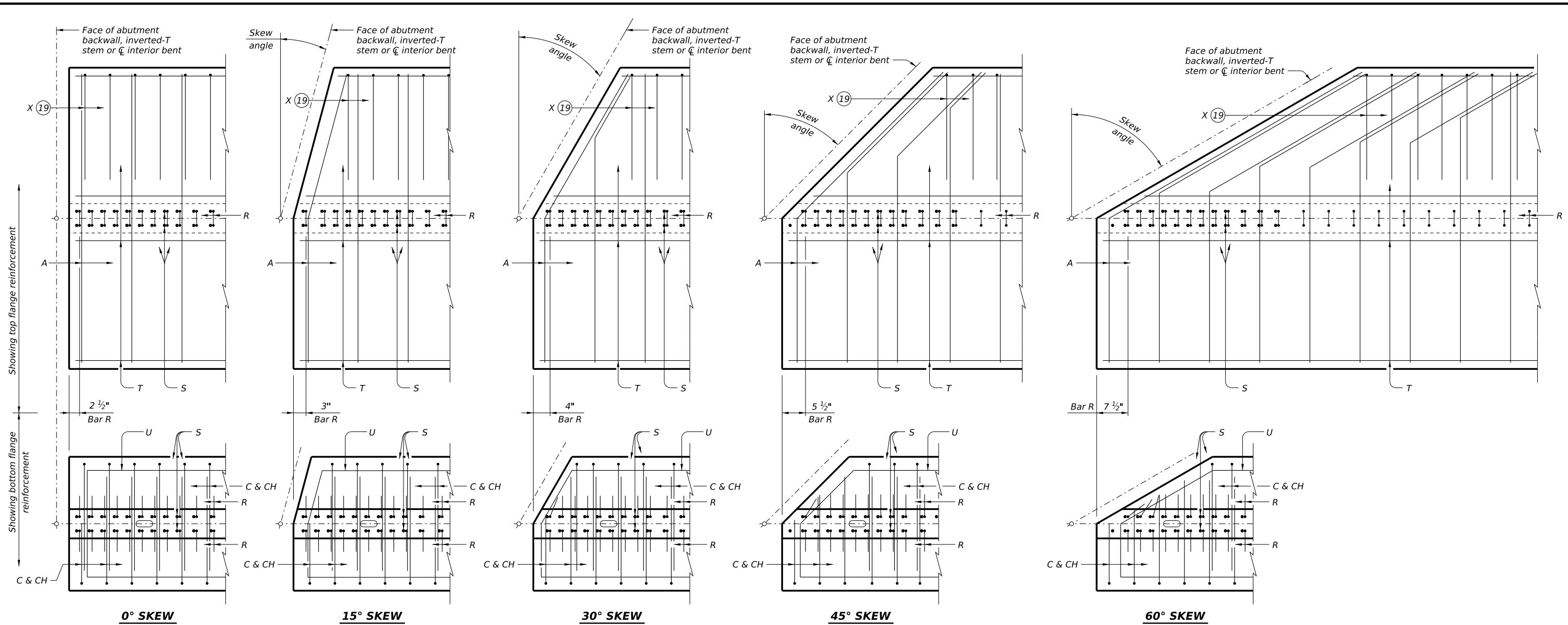
PRESTR CONC WIDE FLANGE I-GIRDER DETAILS

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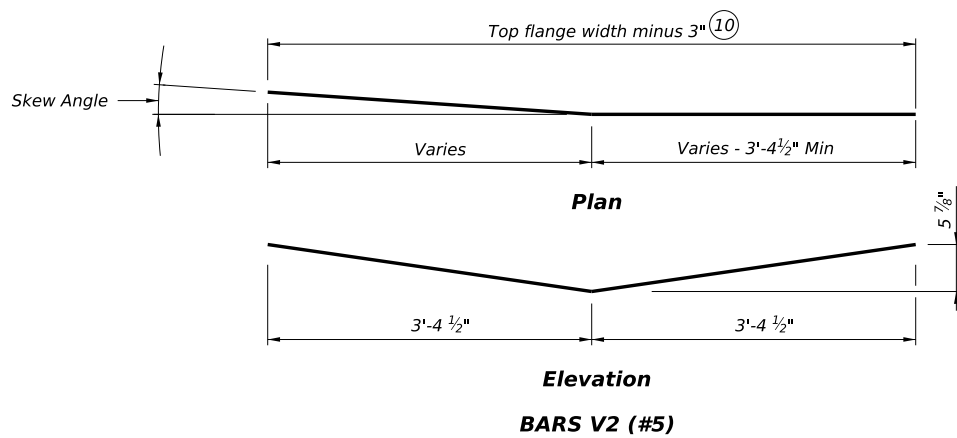
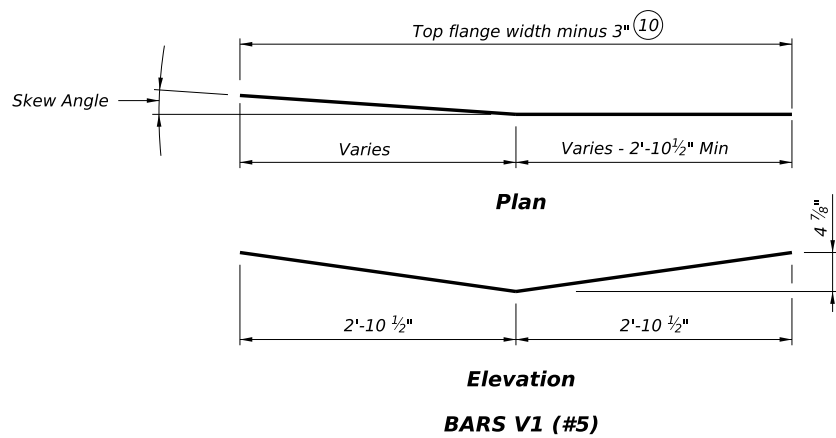
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PLAN OF GIRDER ENDS⁽¹⁸⁾

- (10) Increase as necessary for bars at skewed end.
- (18) Reinforcing patterns shown are provided as guides to determine reinforcement placement in skewed ends. Place Bars S as close to girder end as cover requirements permit, which may prevent them to be bundled with Bars R.
- (19) Bars X to be placed on outer side of exterior girder only. Place perpendicular to girder centerline.



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