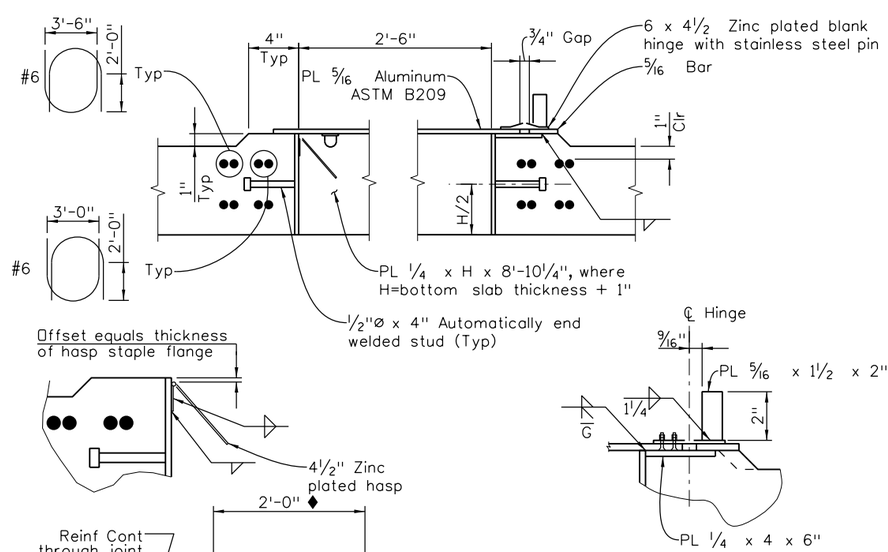
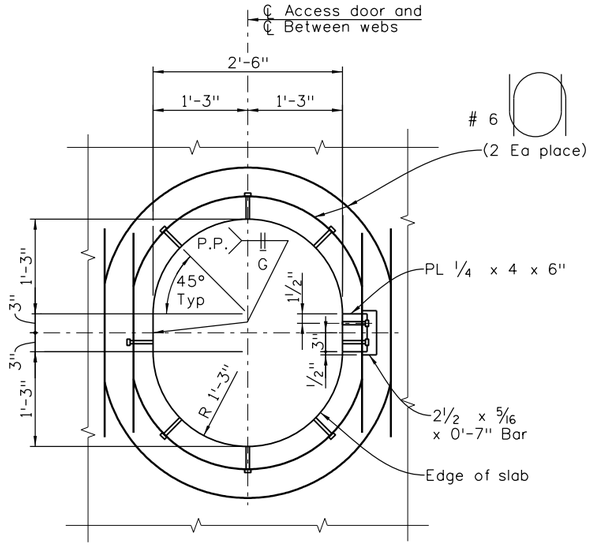
B-618-2

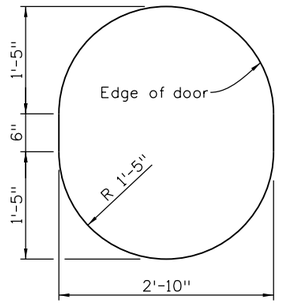
(use with B-618-1 and B-618-3; also add B-618-7 when horizontal curve is present.)

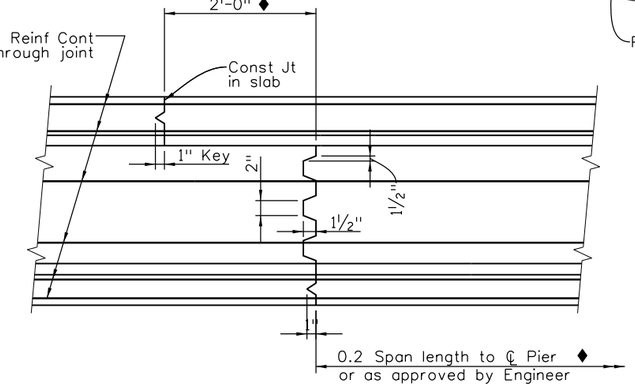
NOTES:

1. See abutment details and superstructure details for dimensions and reinforcing not shown.
2. Prior to welding, grind galvanizing from frame, where the hasp or hinge attaches. After welding, paint the weld and surrounding areas with zinc rich paint meeting Military Specifications DOD-P-21035A.
3. Attach door with 4-¼"ø zinc plated bolts with countersunk heads. Use double nuts; burr threads after tightening. Attach hasp staple in a similar manner. Leave door open while pouring the bottom slab.
4. Paint door with zinc rich paint, meeting the above specification after welding.





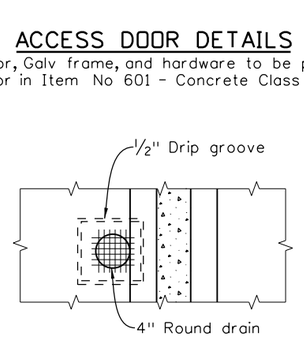




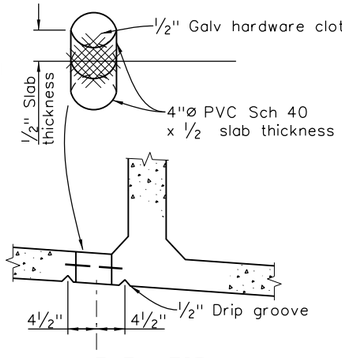
TRANSVERSE WEB CONSTRUCTION JOINT

ACCESS DOOR DETAILS

Door, Galv frame, and hardware to be paid for in Item No 601 - Concrete Class D



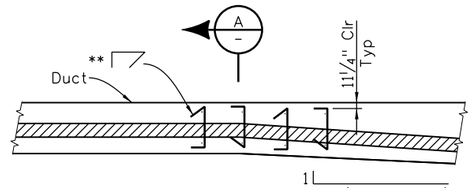
PLAN



ELEVATION

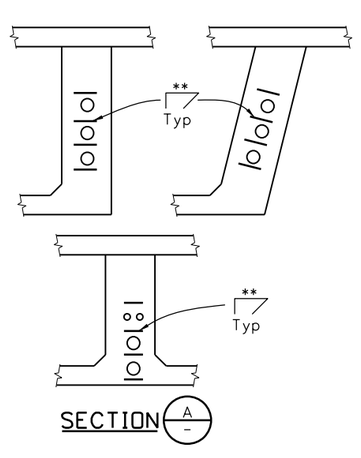
BOTTOM SLAB DRAIN DETAIL

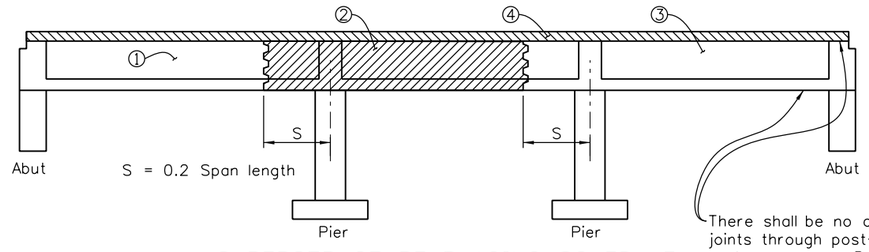
Locate at low point of each cell



The webs shall be flared near the anchorage as required to maintain a 1½" Min cover over the ducts and a 1" Min cover over the stirrups. The flare may be on one side only for exterior girder webs. Provide ** ties above, below, and between each row of ducts, tie to five stirrups at beginning of web flare.

PLAN VIEW OF DUCTS AT GIRDER WEB FLARE



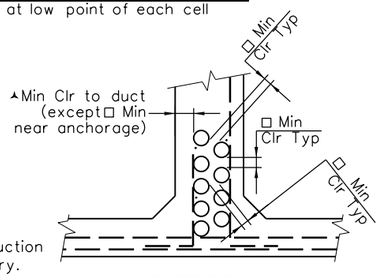


SUPERSTRUCTURE PLACING SCHEDULE

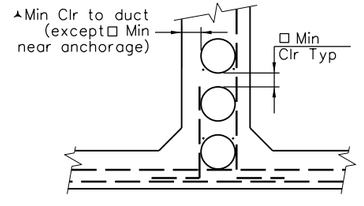
Numbers ①, ②, and ③ indicate sequence of placing bottom slab and web concrete when each section constitutes a separate pour. ④ may be placed continuously or in parts, as indicated above and as approved by the Engineer. Contractor may submit an alternate placing schedule to the Engineer for approval.

♦ Except when staged construction requires alternate joint locations.

There shall be no construction joints through post-tensioning anchorage zone. Revise construction joints at abutments as necessary.



PATTERN 1



PATTERN 2

CLEARANCE REQUIREMENTS FOR DUCTS

▲ = 0.75 Duct diameter Min clearance to duct, or 3" Min
□ = 0.44 Duct diameter Min clearance between ducts, or 1½" Min

Designer/Detailer

Jacking force per duct	** No of stirrups per layer & size	Min duct radius*
0 to 308 Kip	2 - #3	83 Ft
308 to 527 Kip	4 - #3	142 Ft
527 to 835 Kip	4 - #4	225 Ft
835 to 1186 Kip	6 - #4	320 Ft

* For curved webs and ducts greater than 4" diameter use # 3 ** bars @ 14" Max spacing for the full length of curved webs.
For tighter radii than shown, a custom duct spacing greater than the □ Min shown and more ** reinforcing must be designed.
See B-618-7

Revision Dates					
11/99	5/00	4/02	9/02	3/07	10/13	3/23	9/ 24

INITIALS	DESIGN	DATE	DETAIL	DATE	QUANTITY	DATE
By						
Checked By						

All seals for this set of drawings are applied to the cover page(s)

Print Date: $DATE$
File Name: Sheet_B-618-2.dgn
Horiz. Scale: None Vert. Scale: As Noted
Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
2829 West Howard Place, 3rd Floor
Denver, CO 80204
Phone: 303-512-4079
FAX: 303-757-9197
Staff Bridge Branch

Initials

As Constructed
No Revisions:
Revised:
Void:

CAST-IN-PLACE POST-TENSIONED BOX GIRDER DETAILS

Designer:	XXXXXXXX	Structure Numbers	X-XX-XX
Detailer:	XXXXXXXX		X-XX-XX
Sheet Subset:	BRIDGE	Subset Sheets:	BXX of XXX

Project No./Code
Project Number
Code
Sheet Number

$PLOT_INFO$