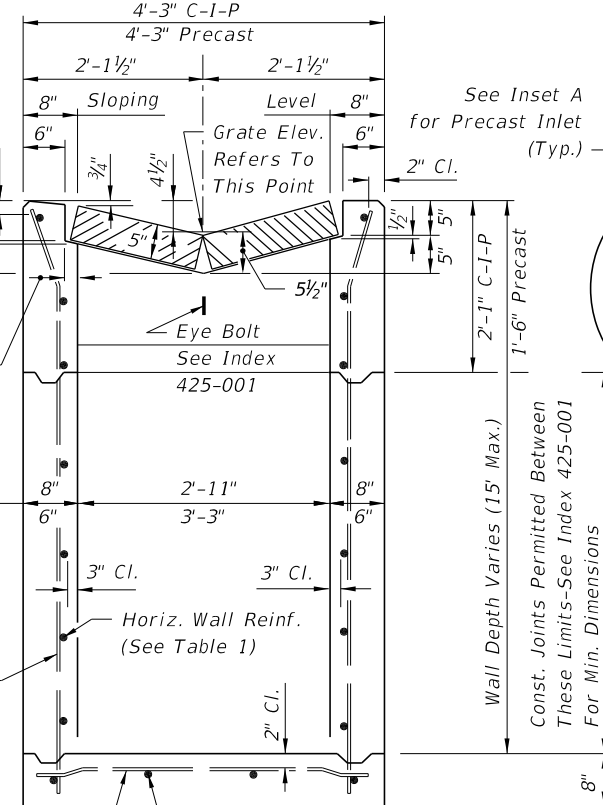
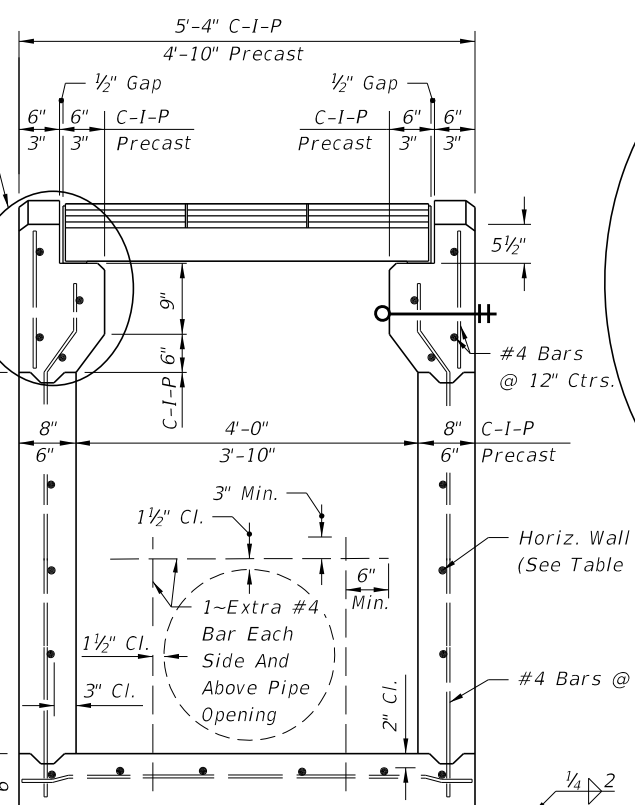


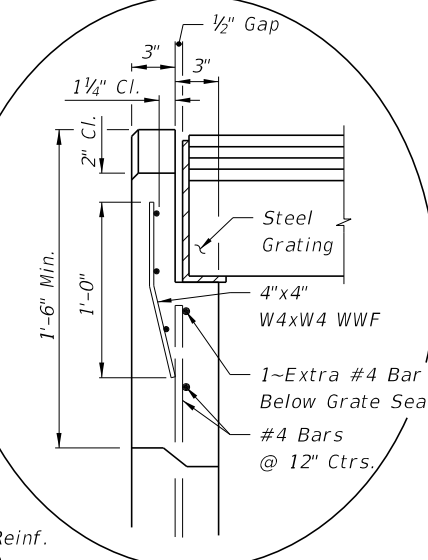
**PLAN**  
(CAST-IN-PLACE INLET WITHOUT GRATE SHOWN, PRECAST INLET SIMILAR)



**SECTION BB**  
(CAST-IN-PLACE INLET SHOWN, PRECAST INLET SIMILAR)



**SECTION AA**  
(PIPE OPENING SHOWN)

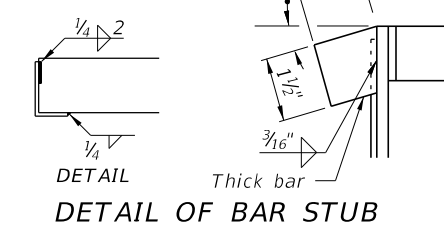


**INSET A**  
(PRECAST OPTION)

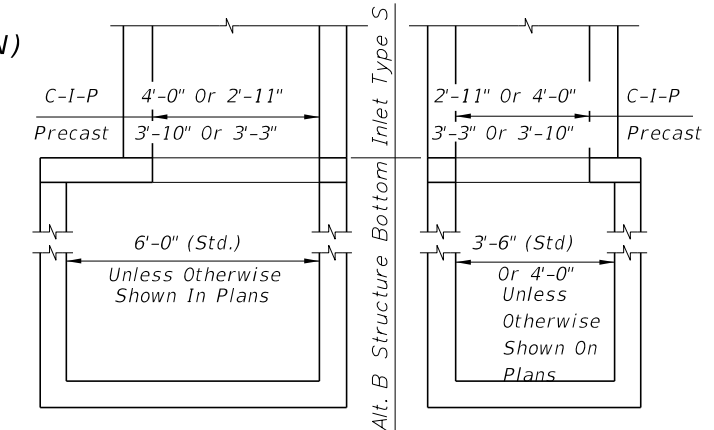
RECOMMENDED MAXIMUM PIPE SIZES	
INLET INSIDE WIDTH	PIPE SIZE
2'-11" or 3'-3"	24"
4'-0" or 3'-10"	30"

Note: Recommended sizes are for concrete pipe. Sizes for other types of pipe must be verified for fit in accordance with Index 425-001. For larger pipe see bottom detail below and Index 425-010.

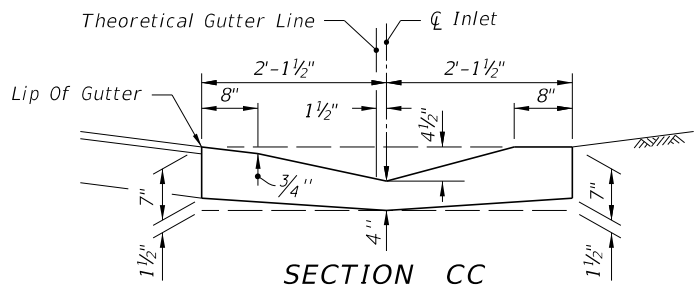
HORIZONTAL WALL REINFORCING SCHEDULE (TABLE 1)				
WALL DEPTH	SCHEDULE	AREA (in <sup>2</sup> /ft)	MAX. SPACING	
			BARS	WWR
0'-5'	A12	0.20	12"	8"
5'-9'	A6	0.20	6"	5"
9'-12'	A4	0.20	4"	3"
9'-15'	B5.5	0.24	5 1/2"	5"



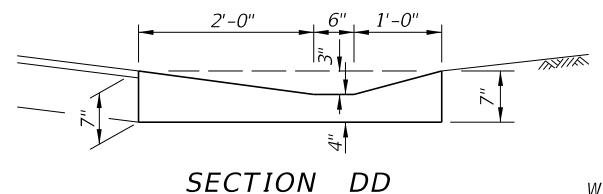
**DETAIL OF BAR STUB**



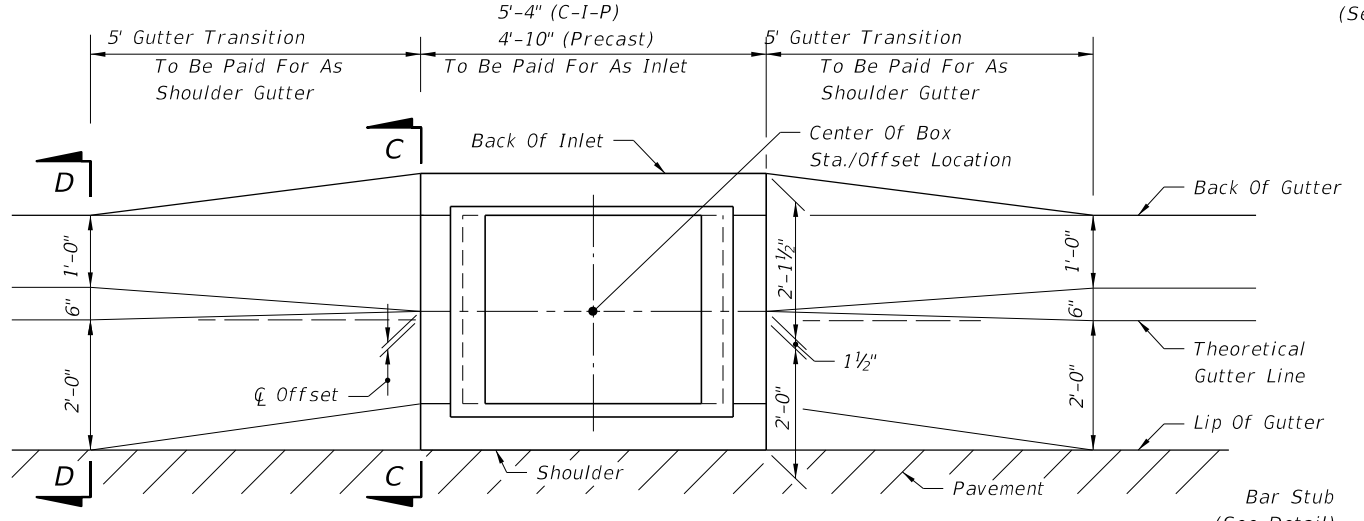
**Alt. B Structure Bottom**  
NOTE: Alt. B Structure Bottom Only. See Index 425-010 for structure bottom details and hole reinforcement.



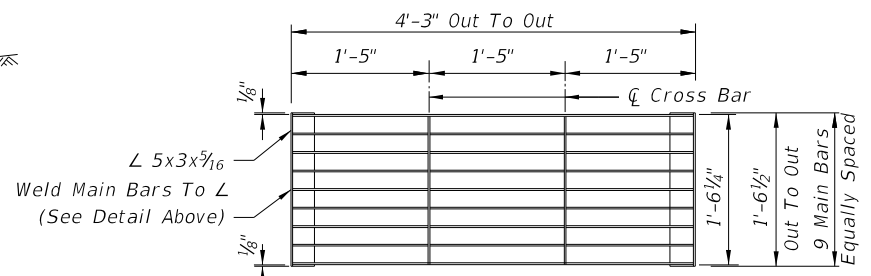
**SECTION CC**



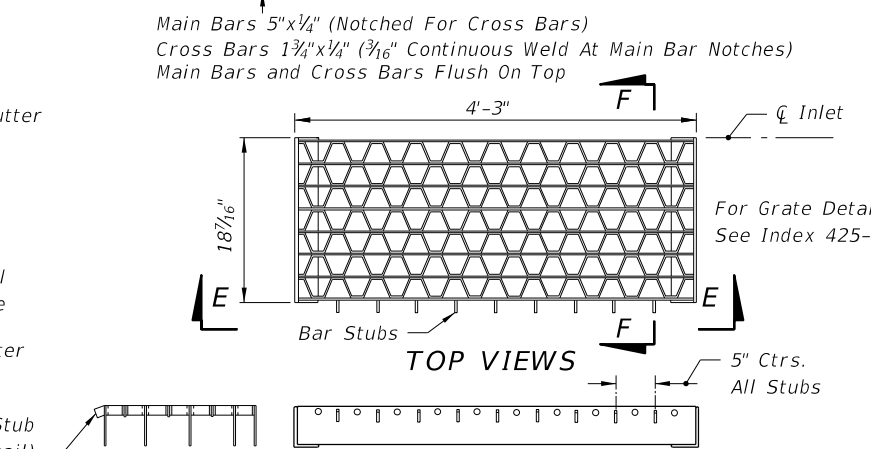
**SECTION DD**



**SHOULDER GUTTER TRANSITION**



**TOP VIEWS**

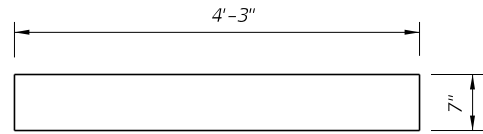


**SECTION EE**  
**STEEL GRATE**

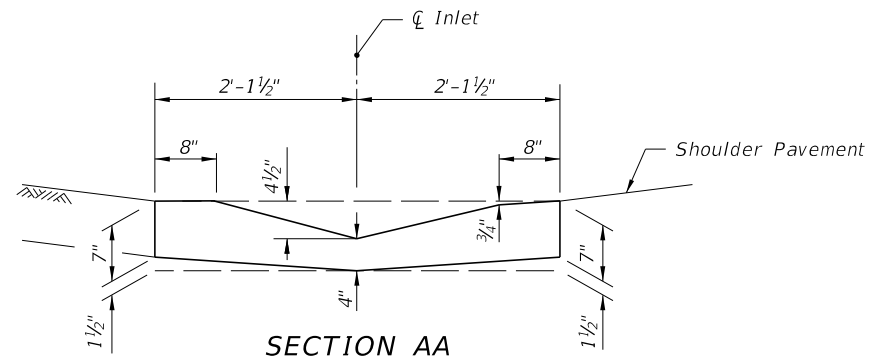
**SECTION FF**

- GENERAL NOTES**
1. This inlet is intended for use in shoulder gutter on facilities subject to heavy wheel loads.
  2. All reinforcing is Grade 60 bars with 2" min. cover unless otherwise noted. See Index 425-001 for equivalent area of welded wire fabric. Bars to be cut or bent for 1 1/2" minimum clearance around pipe.
  3. All exposed edges and corners must be 3/4" chamfer or tooled to 1/4" radius.
  4. When Alternate G grate is specified in plans, the grate is to be hot-dip galvanized after fabrication.
  5. For supplementary details and notes see Indexes 425-001 and 425-010.
  6. All dimensions are for both precast and cast-in-place inlets unless otherwise noted.
  7. Inlets to be paid for under the contract unit price for inlets (Gutter Type S), EA. Cost of concrete apron at terminal inlets to be included in the cost of the inlet.

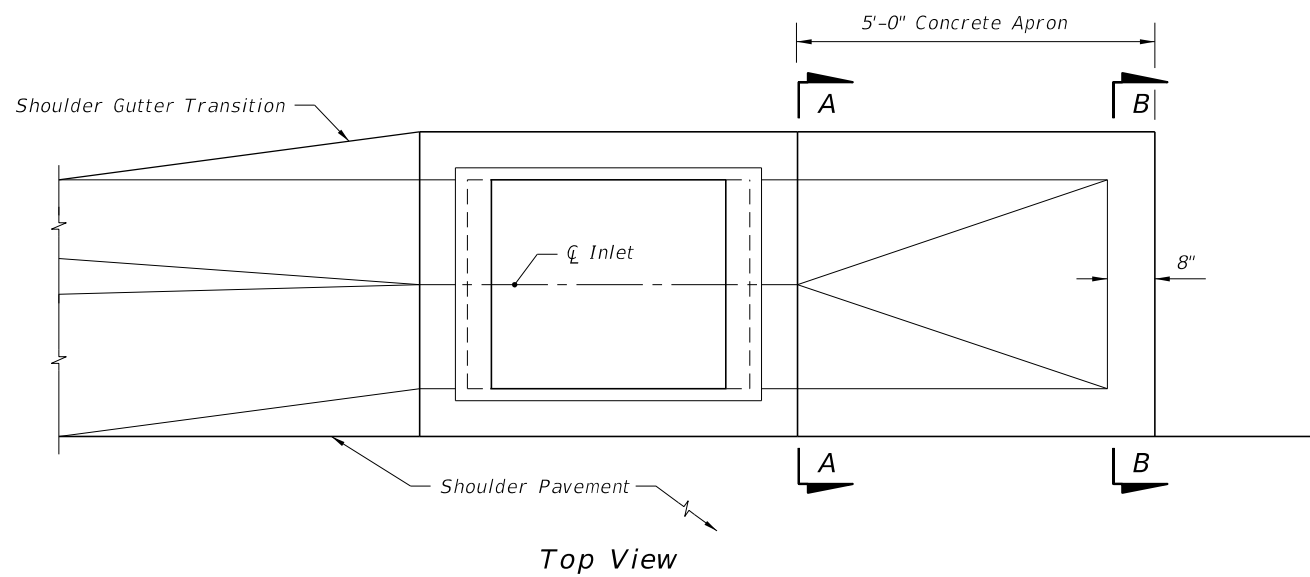
10/14/2019 9:11:21 AM



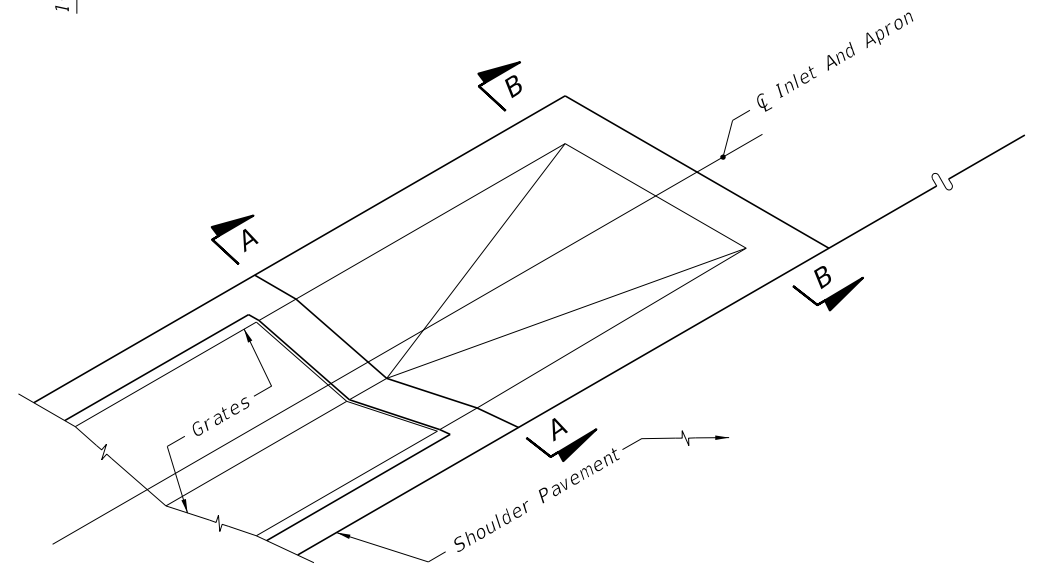
SECTION BB  
(Enlarged)



SECTION AA  
(Enlarged)



Top View



PICTORIAL VIEW

Apron To be Constructed At The Most Downstream Inlet In A Run Of Shoulder Gutter  
**CONCRETE APRON AT TERMINAL INLETS**

10/14/2019 9:11:22 AM

LAST REVISION  
11/01/17

REVISION DESCRIPTION:

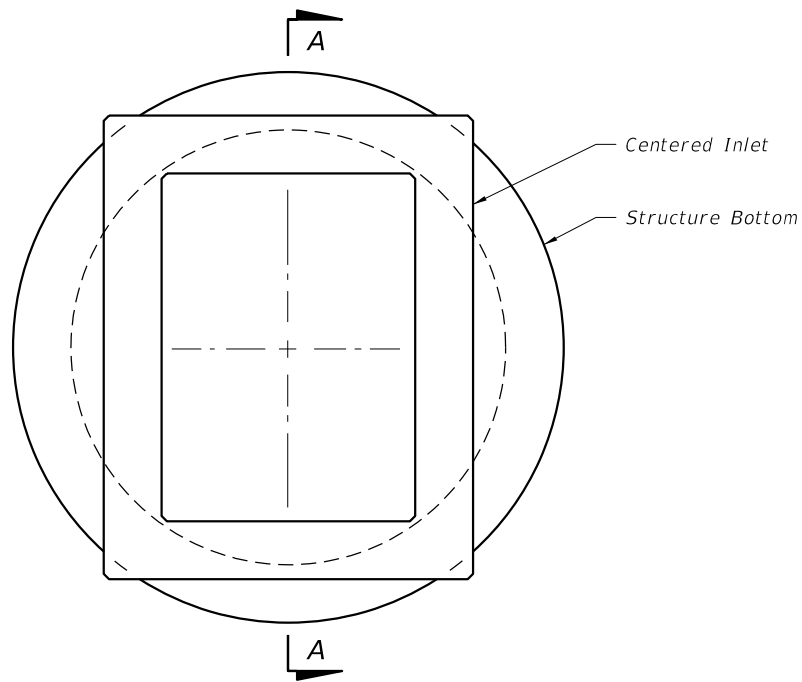


FY 2020-21  
STANDARD PLANS

GUTTER INLET TYPE S

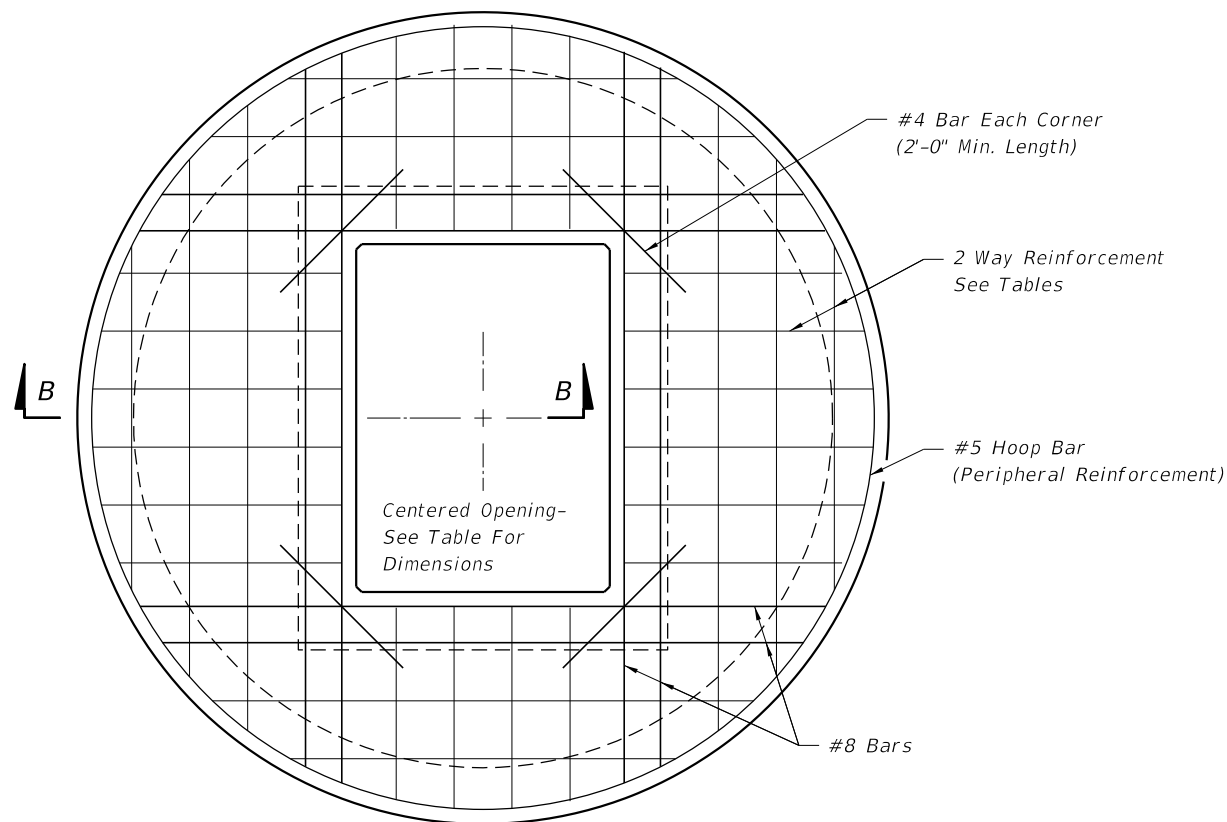
INDEX  
425-040

SHEET  
2 of 3



TOP VIEW

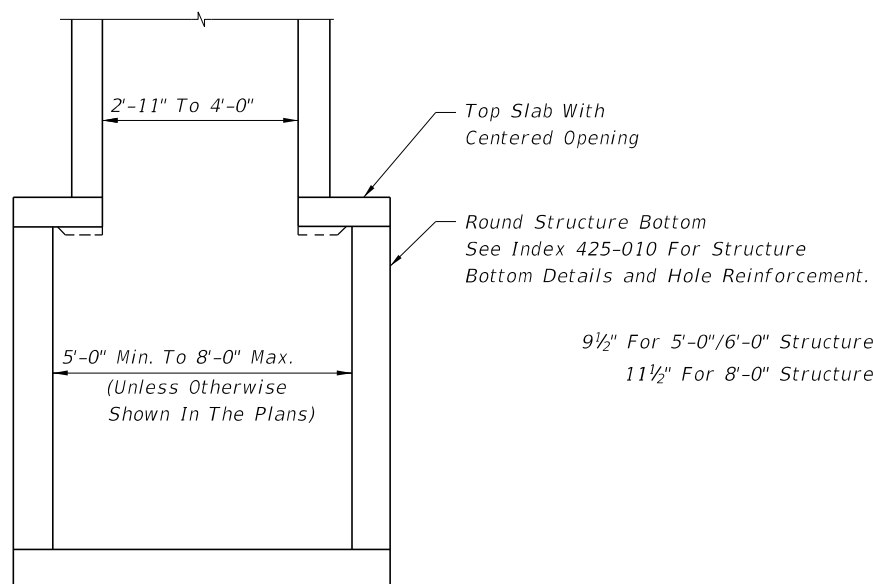
TOP SLAB OPENINGS		
DIAMETER	OPENING SIZE	
	MIN.	MAX.
5'-0" To 8'-0"	2'-11" x 4'-0"	3'-3" x 3'-10"



TOP SLAB REINFORCING DIAGRAM

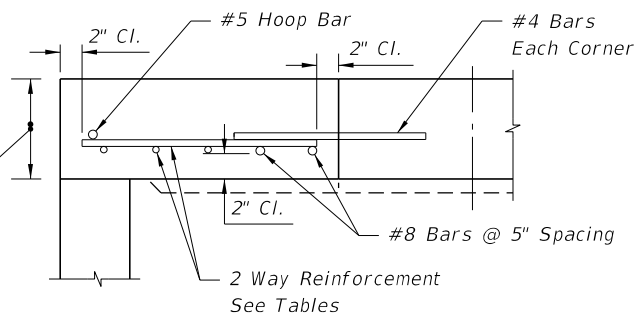
TOP SLAB REINFORCING SCHEDULE	
GRADE 60 (BAR) OR 65 KSI & 70 KSI (WIRE FABRIC)	
SCHEDULE	In <sup>2</sup> /ft.
A	0.20
B	0.24
C	0.37
D	0.53
E	0.73
F	1.06
G	1.45

TOP SLAB WITH CENTERED OPENING		
SLAB DEPTH	SLAB THICKNESS	REINFORCING (2 WAYS) SCHEDULE
SIZE: 5'-0"		
≥0.5' < 30'	9½"	C
30' - 40'	9½"	D
SIZE: 6'-0"		
≥0.5' < 8'	9½"	B
8' < 18'	9½"	C
18' < 30'	9½"	D
30' < 37'	9½"	E
37' - 40'	9½"	G
SIZE: 8'-0"		
≥0.5' < 9'	11½"	C
9' < 15'	11½"	D
15' < 23'	11½"	E
23' < 33'	11½"	E
33' - 40'	11½"	G



SECTION AA

9½" For 5'-0"/6'-0" Structure Bottoms  
11½" For 8'-0" Structure Bottoms



SECTION BB

ALT. A STRUCTURE BOTTOM FOR INLET TYPE S

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