GENERAL NOTES:

1. Work this Index with Index 425-001 and Index 425-010.

2. Use Grade 60 reinforcing bars with 2" minimum cover unless otherwise noted. See Index 425-001 for equivalent area of welded wire fabric. Cut or bend bars to provide 1½" minimum clearance around pipe.

3. Chamfer all exposed edges and corners ¾" or tool to ¼" radius.

4. Dimensions are for both precast and cast-in-place inlets unless otherwise noted.

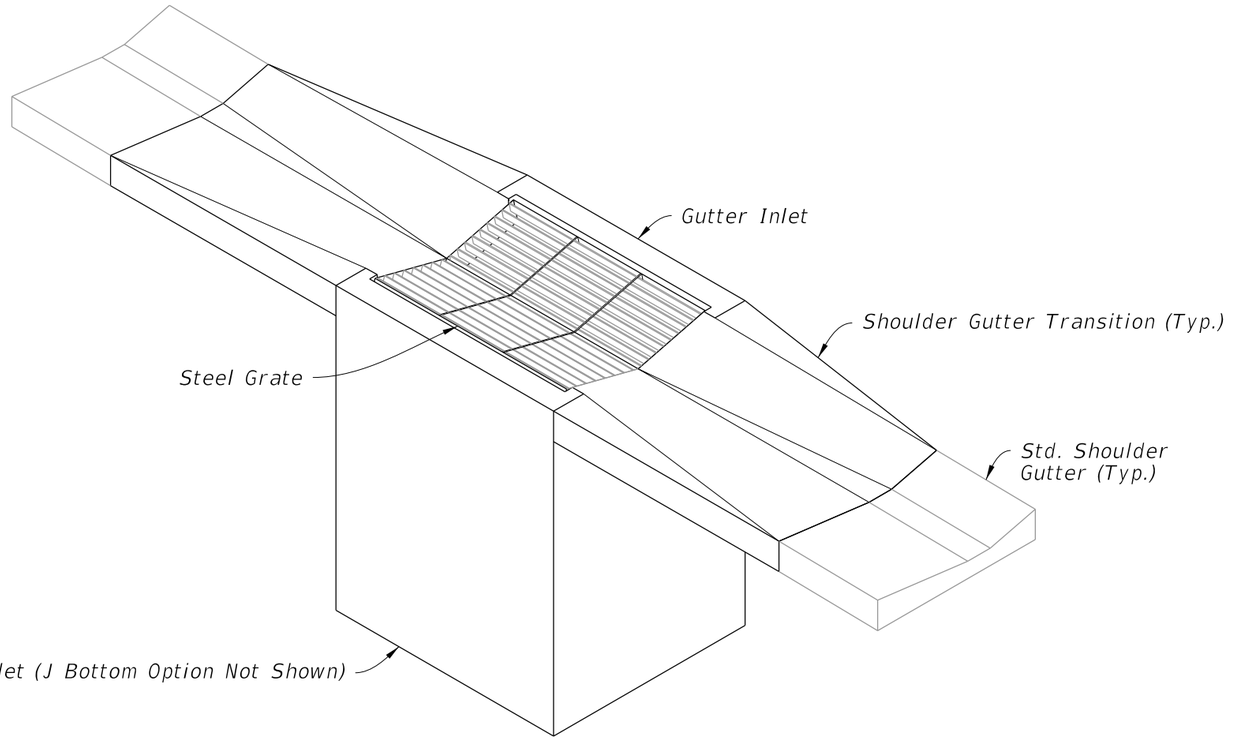

TABLE OF CONTENTS:

Sheet	Description
1	General Notes and Contents
2	Dimensional and Reinforcing Details
3	Transition and Apron Details
4	Steel Grate Details
5	Alternate A Structure Bottom – Top Slab Details

GUTTER INLET TYPE S

(Pipe Opening Not Shown)

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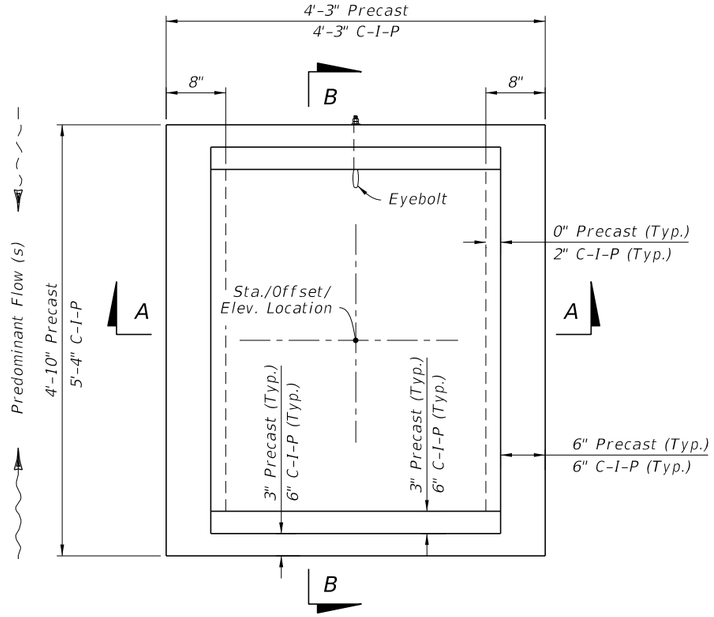

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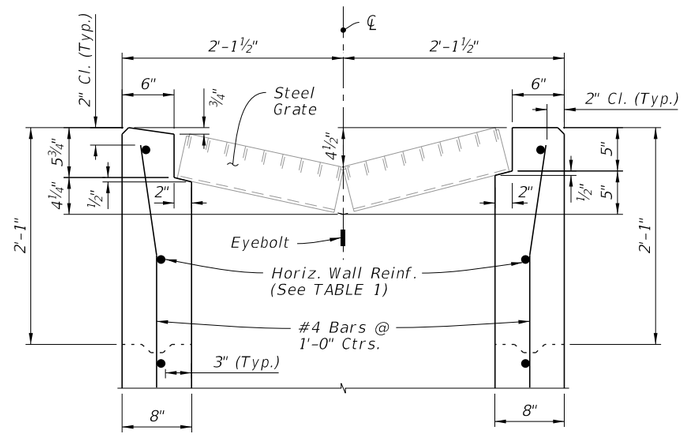
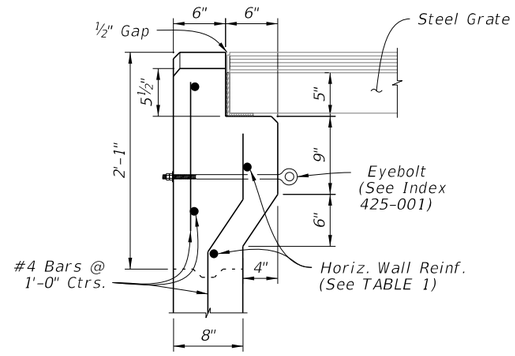


DETAIL "A"



DETAIL "B"

CAST-IN-PLACE OPTION

SECTION A-A
(Pipe Opening Not Shown)

SECTION B-B
(Pipe Opening Shown)

TABLE 1
HORIZONTAL WALL REINFORCING SCHEDULE

WALL DEPTH	SCHEDULE	AREA (in.²/ft.)	MAX. SPACING	
			BARS	WWR
0' - 5'	A12	0.20	12"	8"
5' - 9'	A6	0.20	6"	5"
9' - 12'	A4	0.24	4"	3"
9' - 15'	B5.5	0.24	5½"	5"

NOTES:

1. Concrete Apron/Transition not shown.
2. Construction joints permitted between these limits. See Index 425-001 for minimum dimensions.

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DIMENSIONAL AND REINFORCING DETAILS

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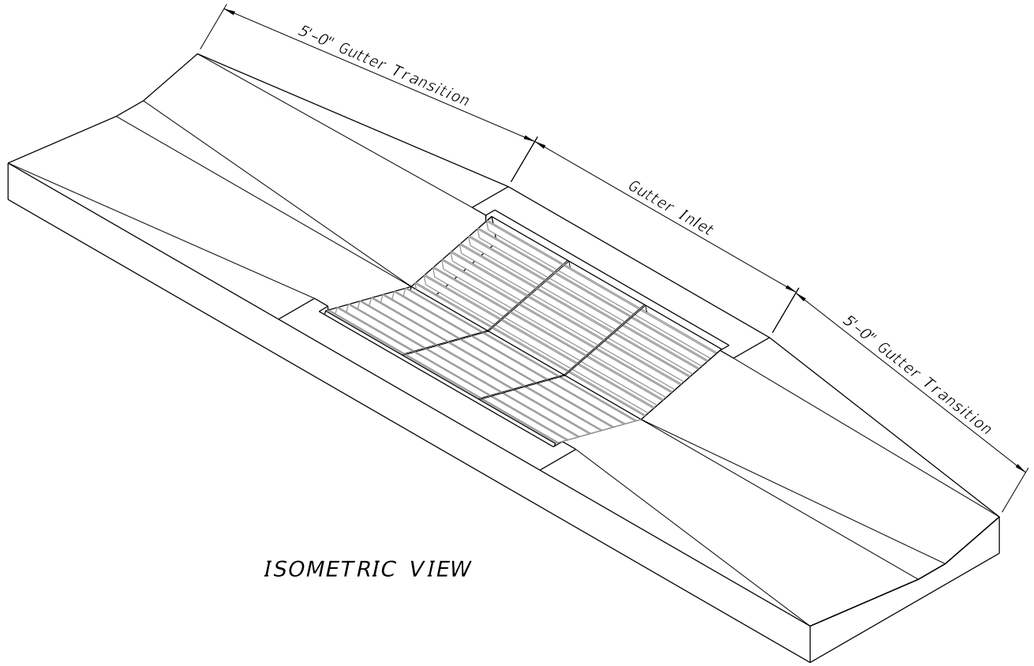

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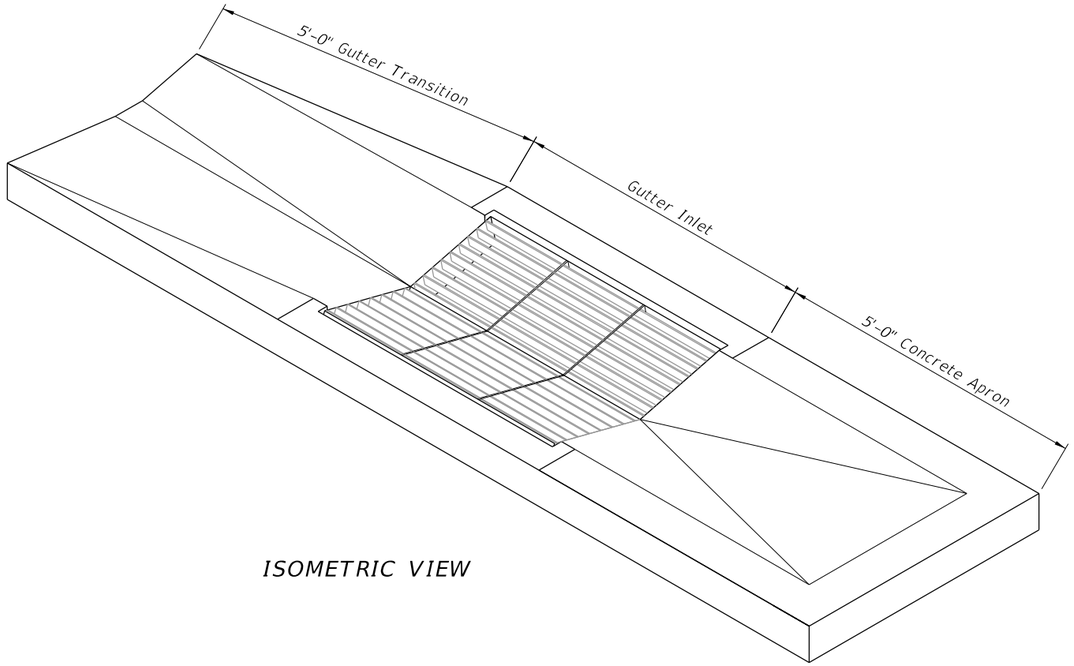

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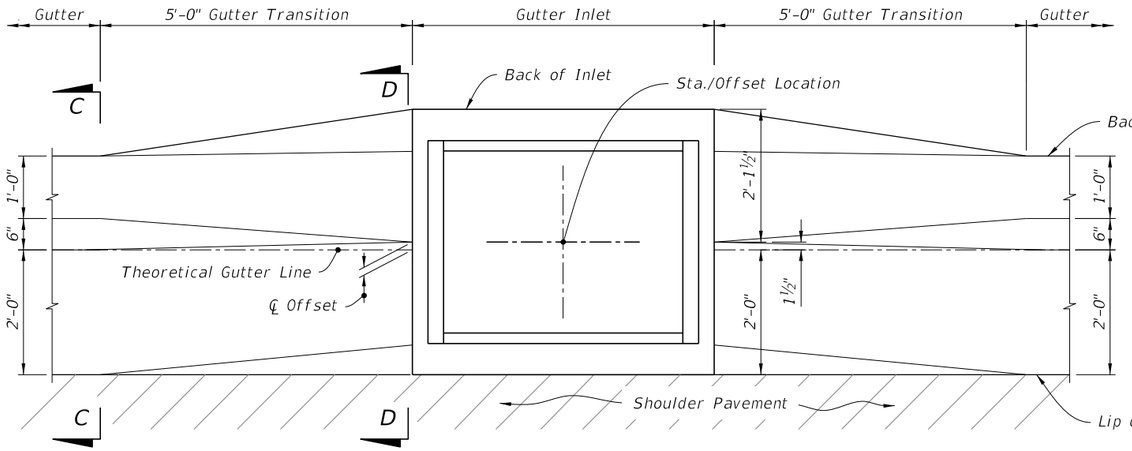
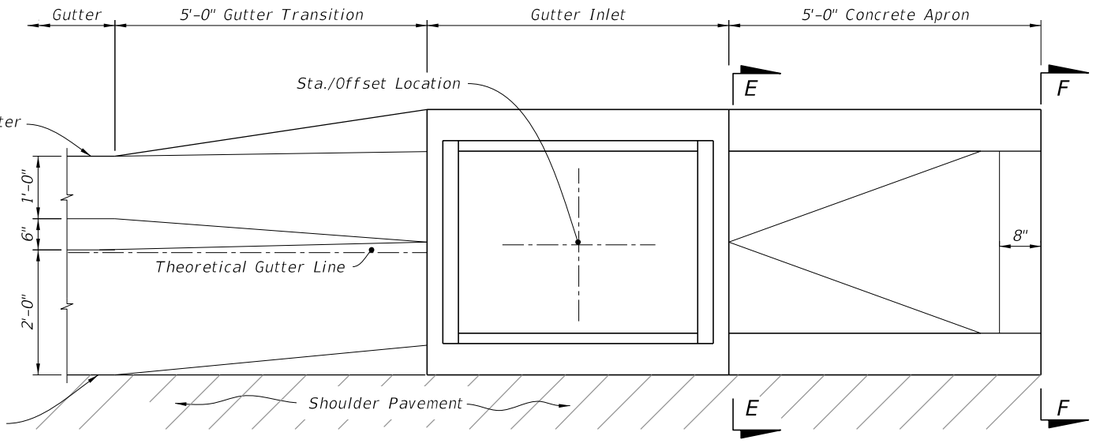
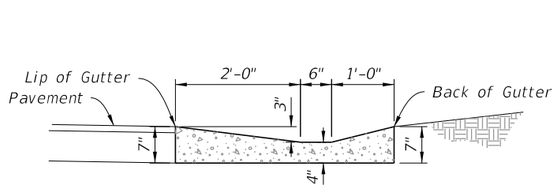
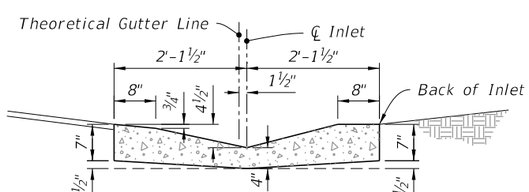






SECTION C-C



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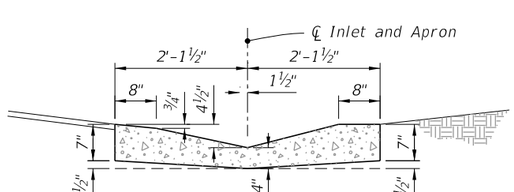

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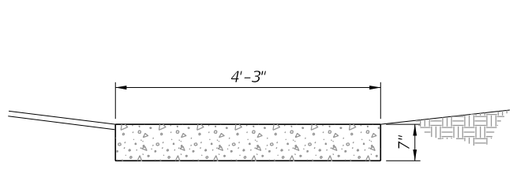

SECTION F-F

SHOULDER GUTTER TRANSITION

APRON AT TERMINAL INLETS

TRANSITION AND APRON DETAILS

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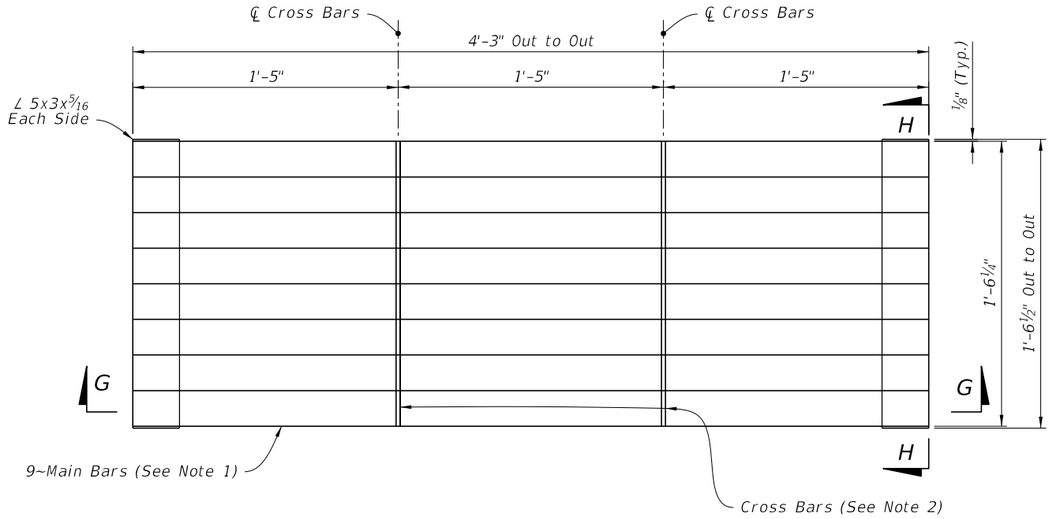

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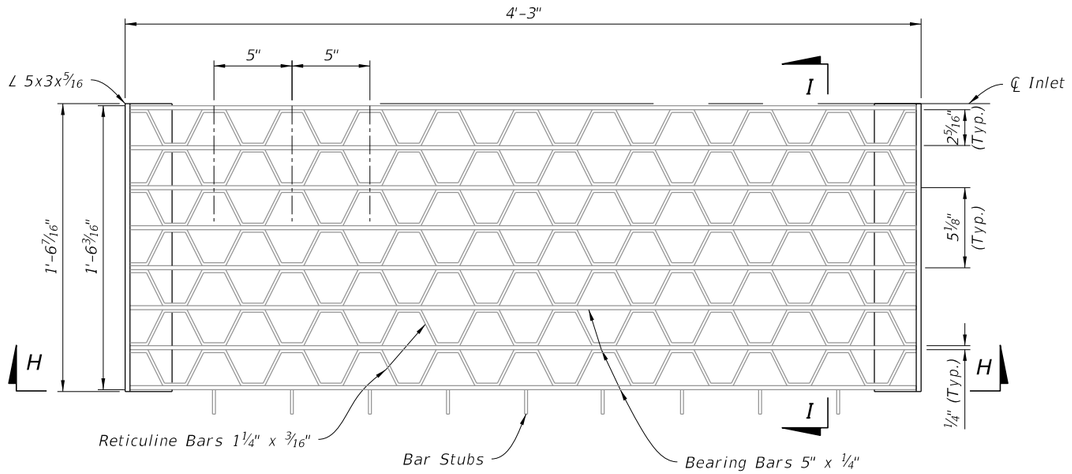

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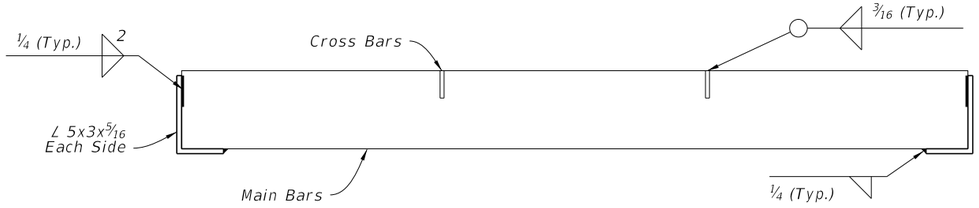

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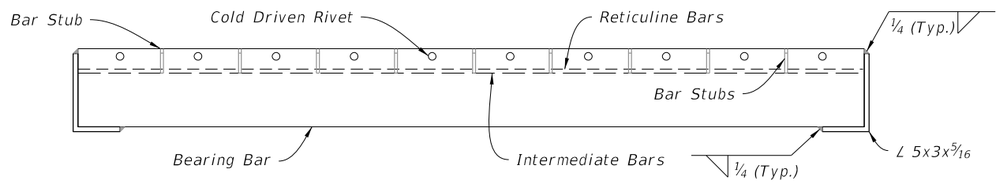
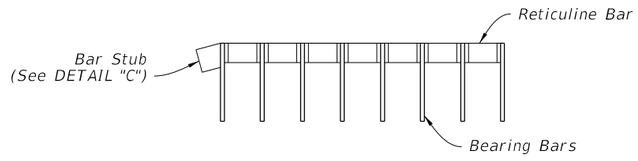


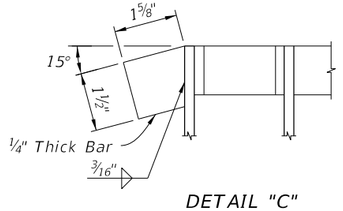
SECTION H-H

NOTES:

1. Main Bars are 5"x¼", notched for Cross Bars, and spaced equally apart.
2. Cross Bars are 1¾"x¼" and continuously welded at Main Bar Notches.
3. Main Bars and Cross Bars are flush on top.



SECTION I-I



DETAIL "C"

PARALLEL BARS

RETICULINE BARS

STEEL GRATE DETAILS

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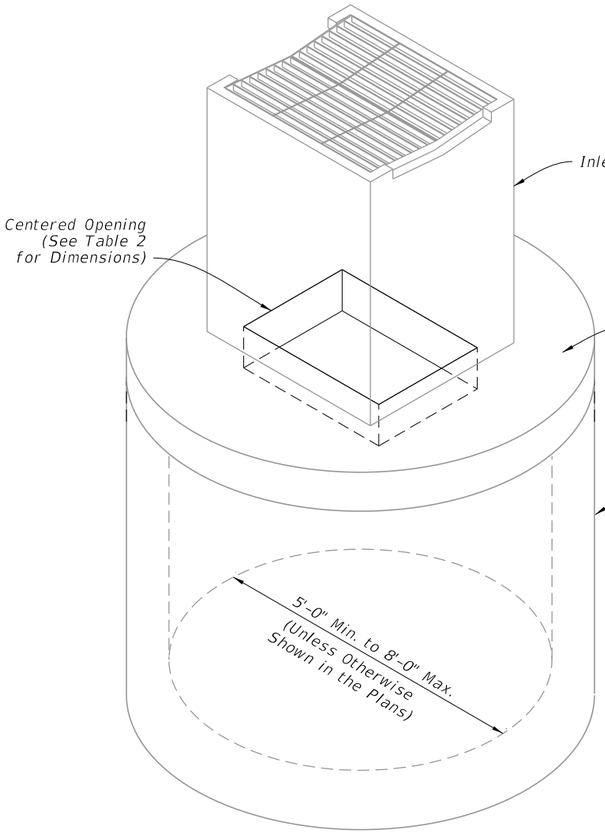
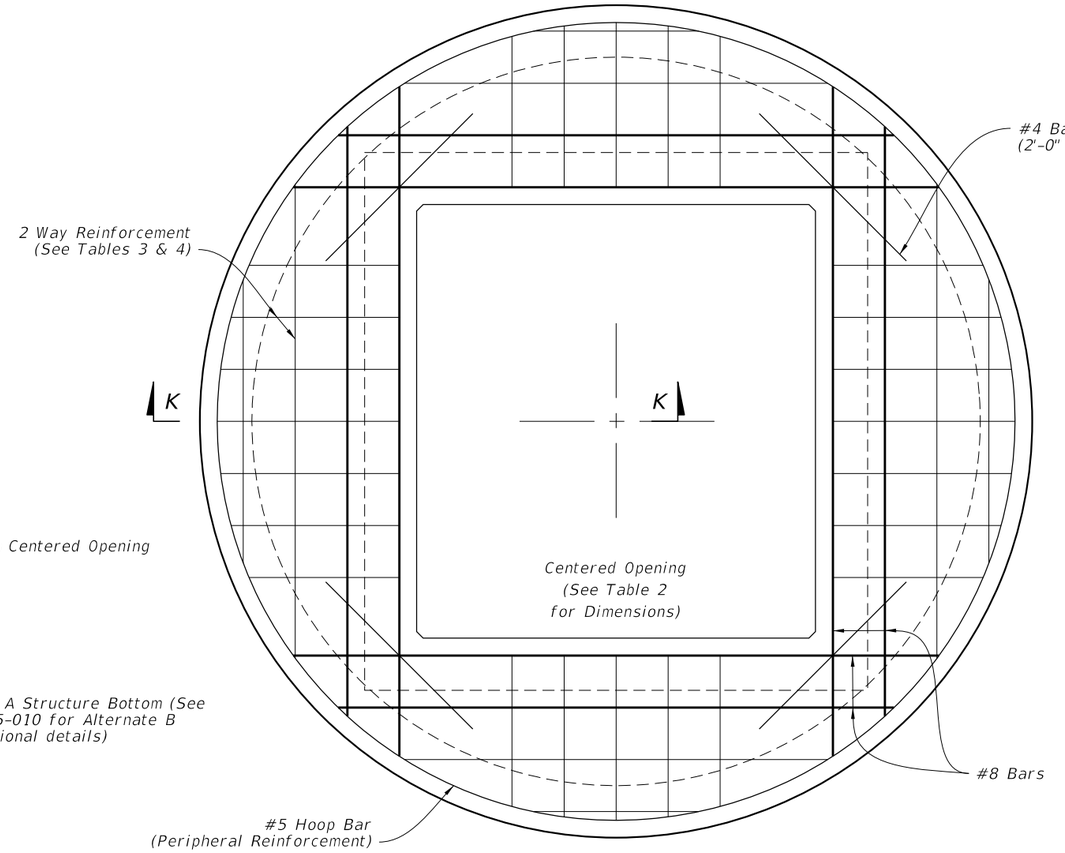


ISOMETRIC VIEW



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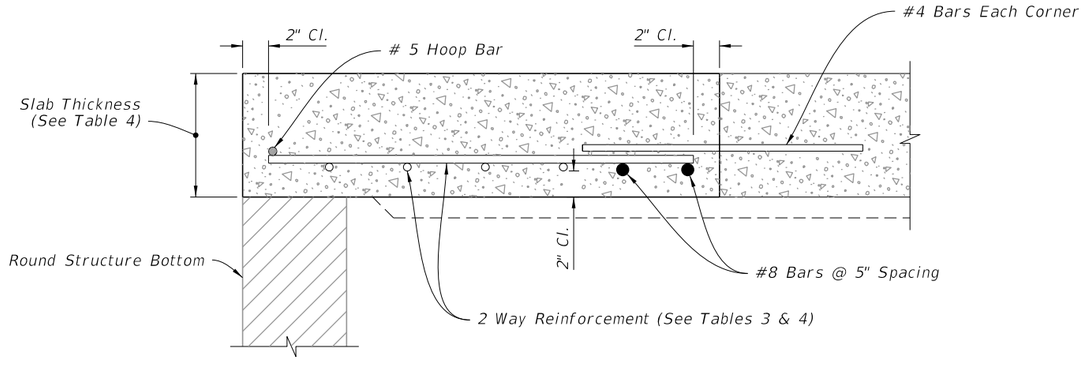

SECTION K-K

TOP SLAB REINFORCEMENT DETAILS

TABLE 2 TOP SLAB OPENING		
DIAMETER	OPENING SIZE	
	Min.	Max.
5'-0" to 8'-0"	2'-11" x 4'-0"	3'-3" x 3'-10"

TABLE 3 TOP SLAB REINFORCING SCHEDULE	
SCHEDULE	GRADE 60 (BAR) OR 65 KSI & 70 KSI (WIRE FABRIC) $In.^2/ft.$
A	0.20
B	0.24
C	0.37
D	0.53
E	0.73
F	1.06
G	1.45

TABLE 4 TOP SLAB WITH CENTERED OPENING		
STRUCTURE DEPTH	SLAB THICKNESS	REINFORCING (2 WAY) 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

ALTERNATE A STRUCTURE BOTTOM - TOP SLAB DETAILS

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