GENERAL NOTES:

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

2. All reinforcing is Grade 60 bars with 2" minimum cover unless otherwise noted. See Index 425-001 for equivalent area of welded wire fabric. Bars to be cut or bent for min. 1½" clearance around pipe.

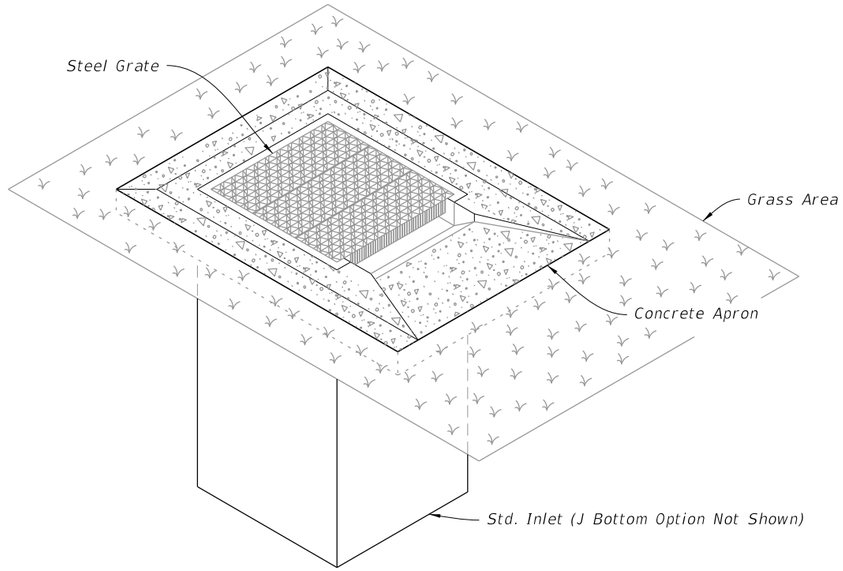
3. Chamfer all exposed edges and corners ¾" or tooled to ¼" radius.

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

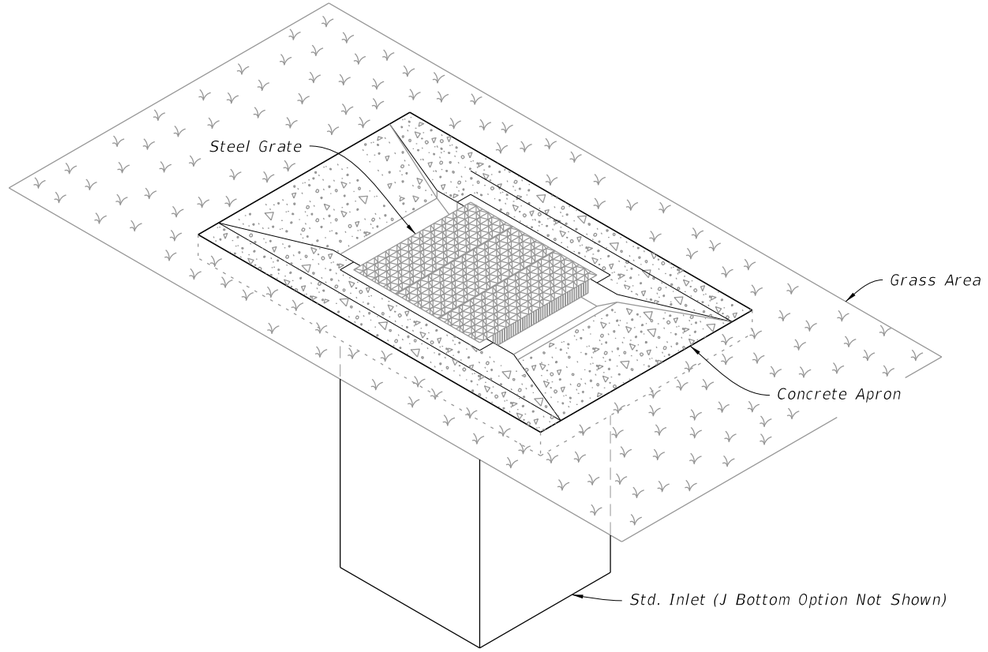
5. Quantities are for informational and estimating purposes only.

TABLE OF CONTENTS:

Sheet	Description
1	General Notes and Contents
2	Dimensional, Reinforcing, and Grate Details
3	Traversable Top Details
4	Concrete Apron and Sodded Area Details
5	Alternate A Structure Bottom - Top Slab Details



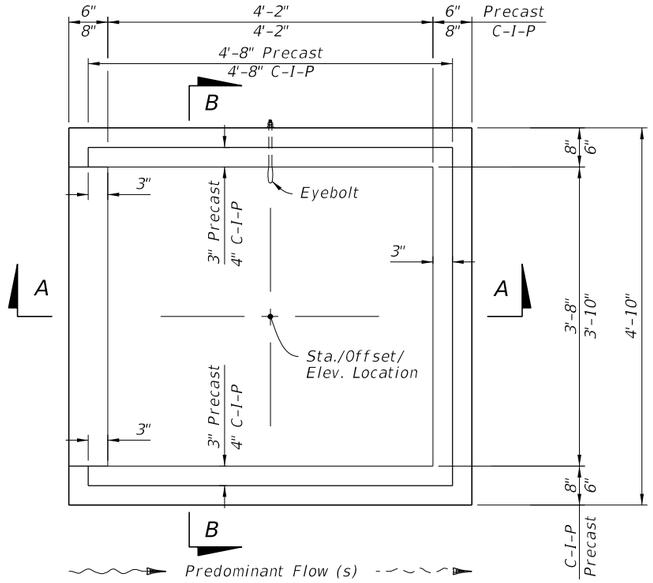
SINGLE SLOT INLET
(Pipe Connection Not Shown)



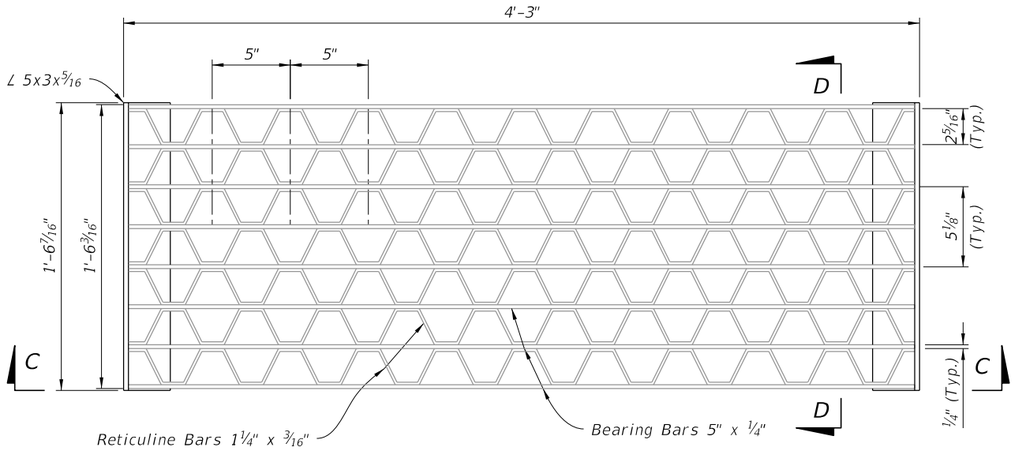
DOUBLE SLOT INLET
(Pipe Connection Not Shown)

9/10/2024 11:42:07 AM

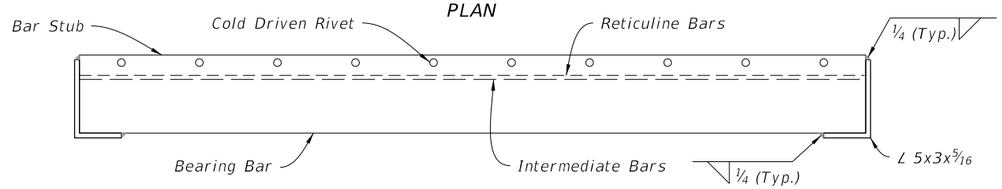
LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2025-26 STANDARD PLANS	DITCH BOTTOM INLET TYPE B	INDEX	SHEET
11/01/20						425-051	1 of 5



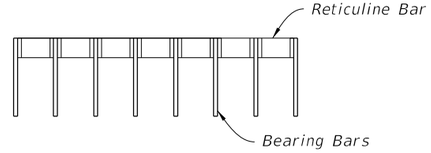
PLAN



PLAN

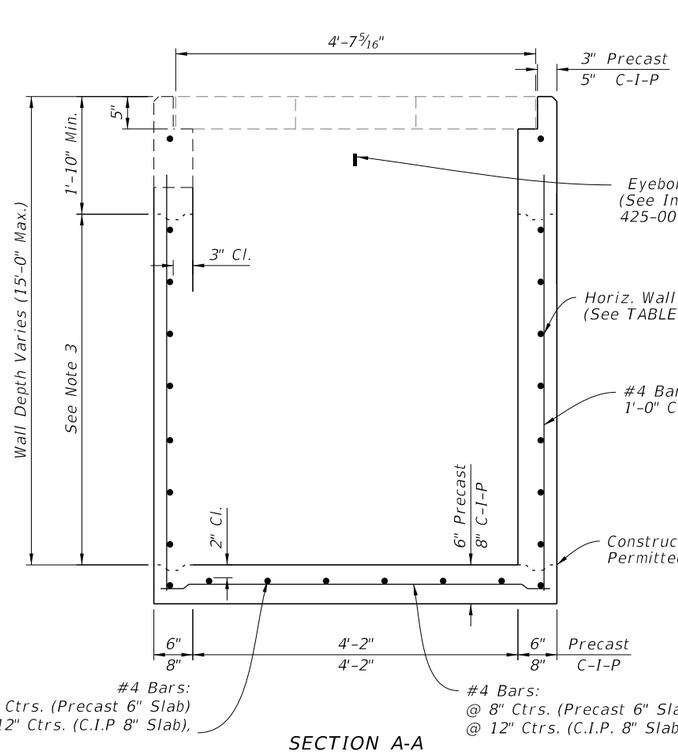


SECTION C-C

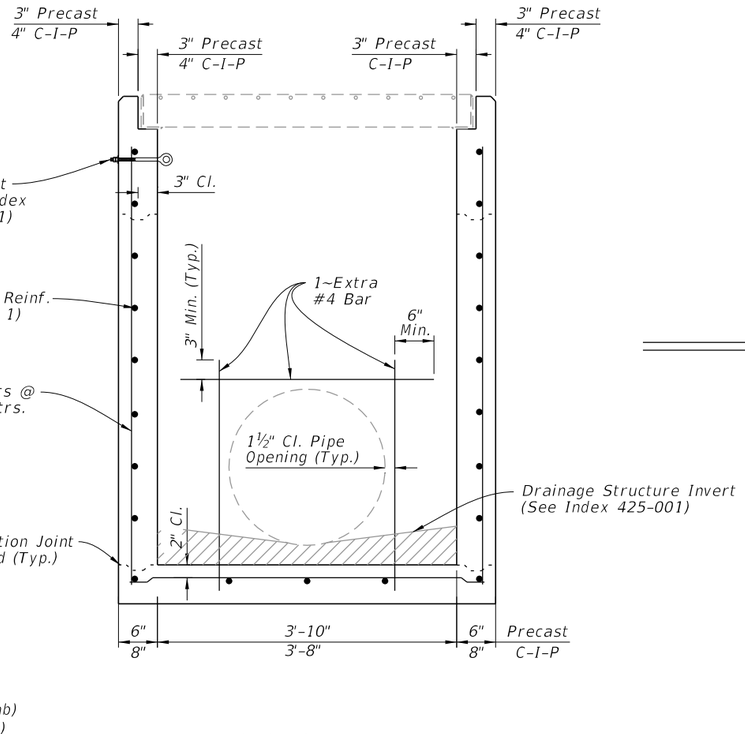


SECTION D-D

STEEL GRATE DETAILS



SECTION A-A
(Pipe Opening Not Shown)



SECTION B-B
(Pipe Opening Shown)

DIMENSIONAL AND REINFORCING DETAILS

TABLE 1
HORIZONTAL WALL REINFORCING SCHEDULE

WALL DEPTH	SCHEDULE	AREA ($in.^2/ft.$)	MAX. SPACING	
			BARS	WWR
0' – 5'	A12	0.200	12"	8"
5' – 9'	A6	0.200	6"	5"
9' – 13'	B5.5	0.240	5½"	5"
13'-15'	Special	0.267	5"	4"

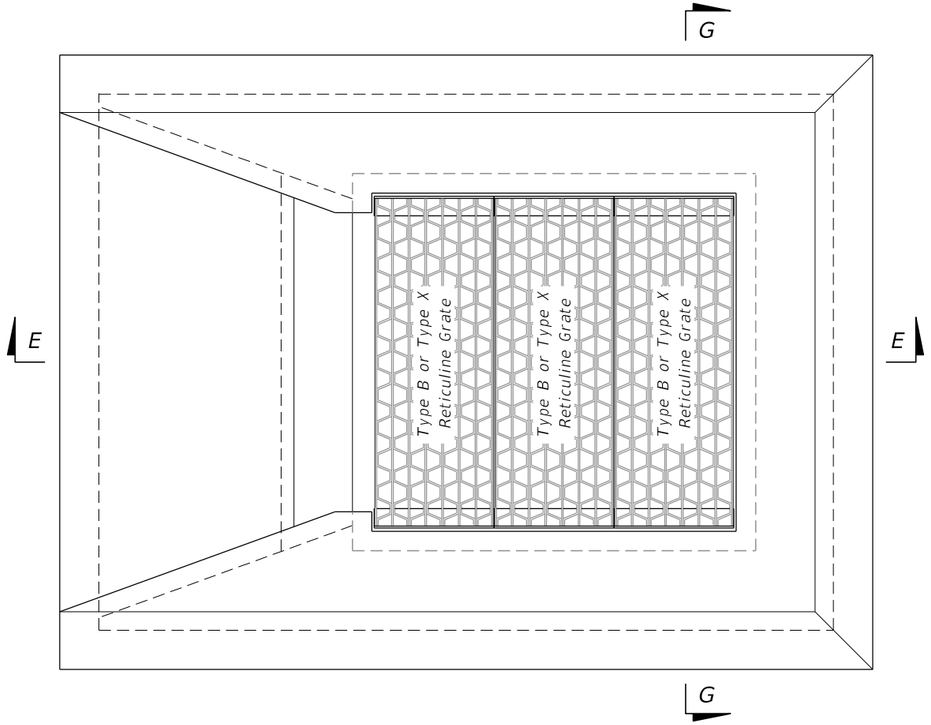
NOTES:

1. Plan View; grate, apron, slots and sod not shown.
2. See Sheet 3 for apron and traversable slot details.
3. Construction joints permitted between these limits. See Index 425-001 for minimum dimensions.

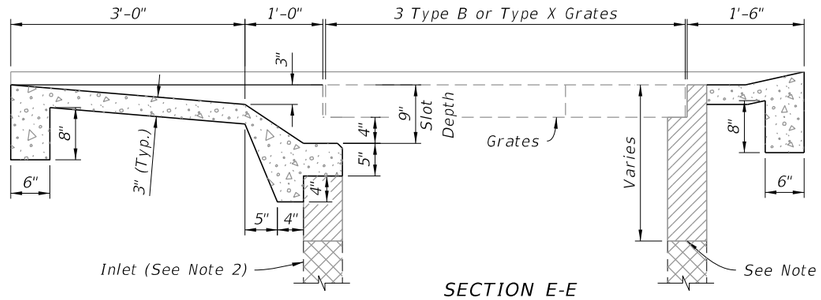
DIMENSIONAL, REINFORCING, AND GRATE DETAILS

LAST REVISION	REVISION	DESCRIPTION:			
11/01/20			FY 2025-26 STANDARD PLANS	DITCH BOTTOM INLET TYPE B	INDEX 425-051 / SHEET 2 of 5

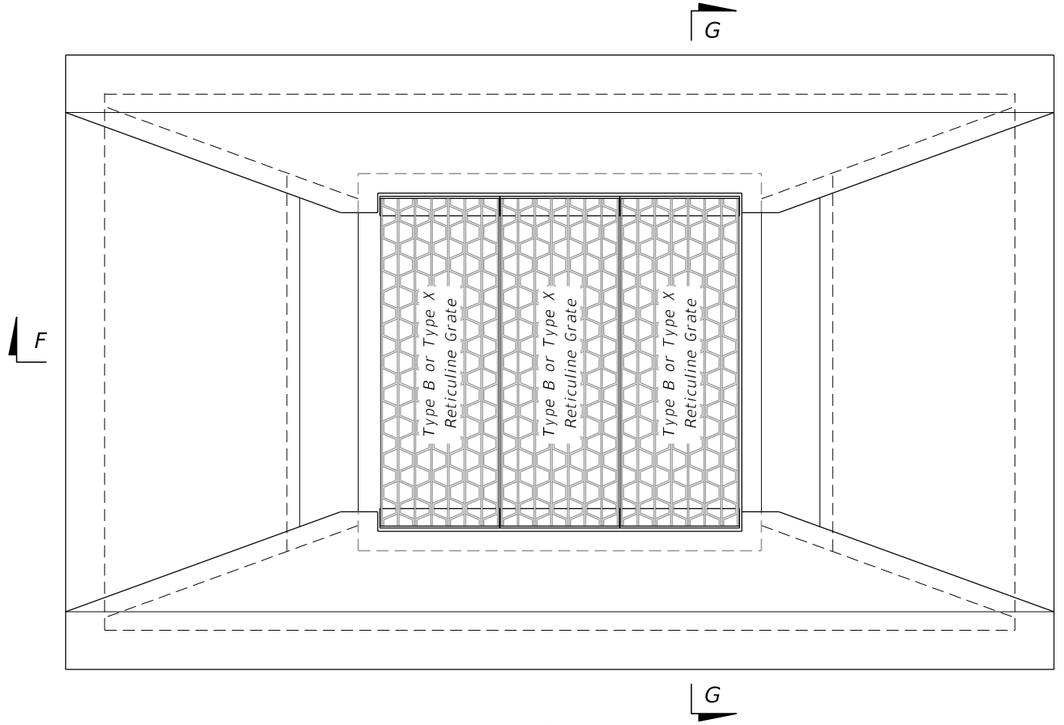
9/10/2024 11:42:14 AM



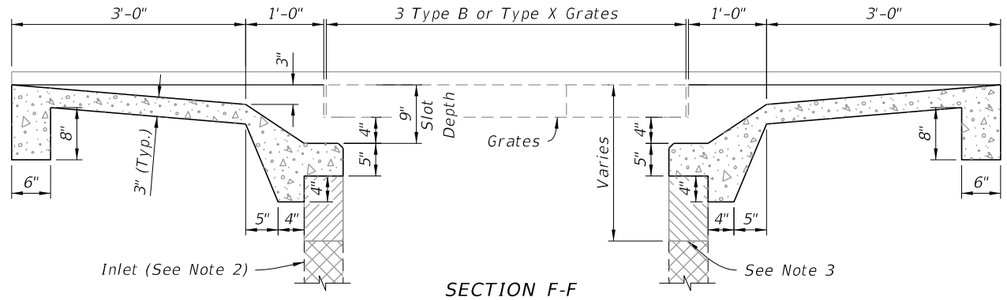
PLAN



SECTION E-E



PLAN



SECTION F-F

SINGLE SLOT

DOUBLE SLOT

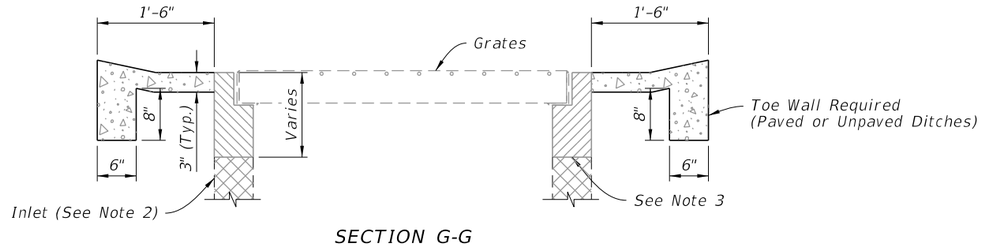
NOTES:

1. These traversable tops are for new or existing Type B Inlets and for conversion of existing Type X Inlets.

2. Inlet box (line type indicates existing box to facilitate depiction of partial construction on existing inlets)

3. On new boxes the traversable top may be cast as a monolithic unit or cast in segments, and the location of this line may be lower to facilitate handling and placement; however, the slot depth is to remain at 9 inches. See Index 425-001 for top to wall connection. For converting to traversable tops on existing inlets remove concrete to this line and expose the existing reinforcement. Reshape or splice in reinforcement to penetrate the rim and returns of the grate seat, and bend the reinforcement into the slot shelf to extend into the abutting throat pavement.

4. See Sheet 2 for Precast and C-I-P dimensions.

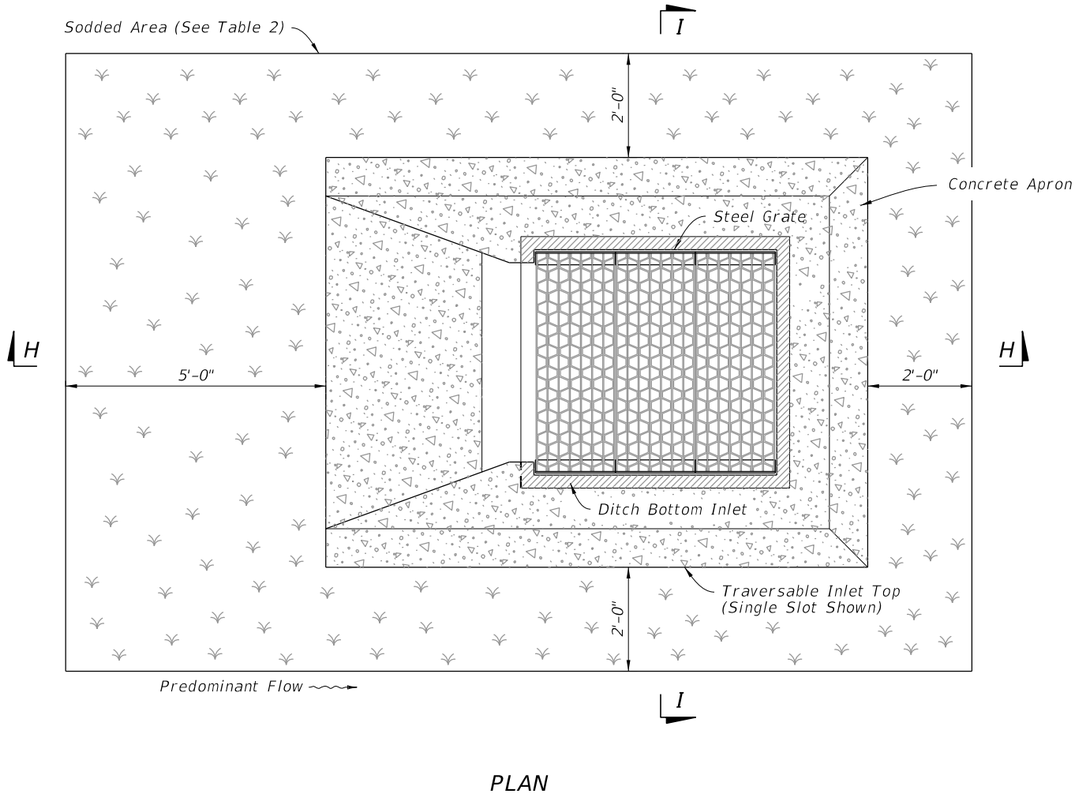


SECTION G-G

TRAVERSABLE TOP DETAILS

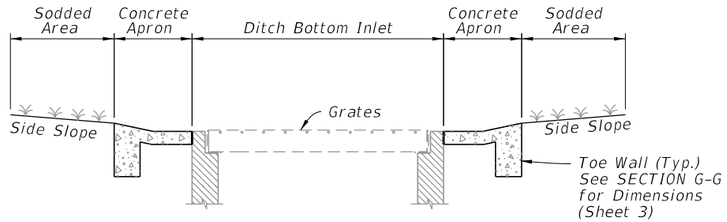
LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/20			FY 2025-26 STANDARD PLANS	DITCH BOTTOM INLET TYPE B	425-051	3 of 5

9/10/2024 11:42:22 AM

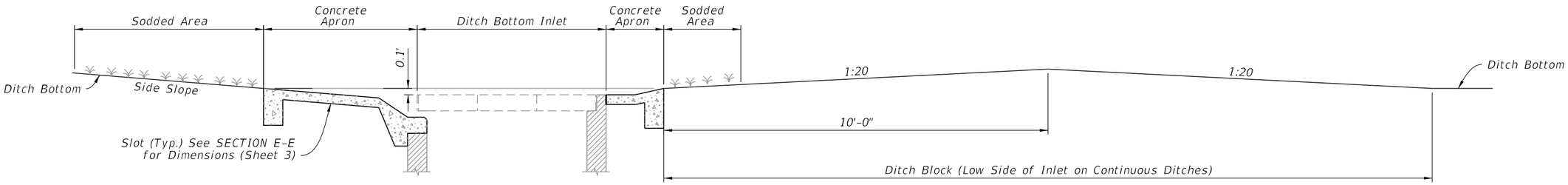


PLAN

TABLE 2 ESTIMATED QUANTITIES			
SLOT TYPE	Concrete Apron		SOD
	SY	CY	SY
Single	6.2	0.9	14
Double	8.1	1.1	19



SECTION I-I

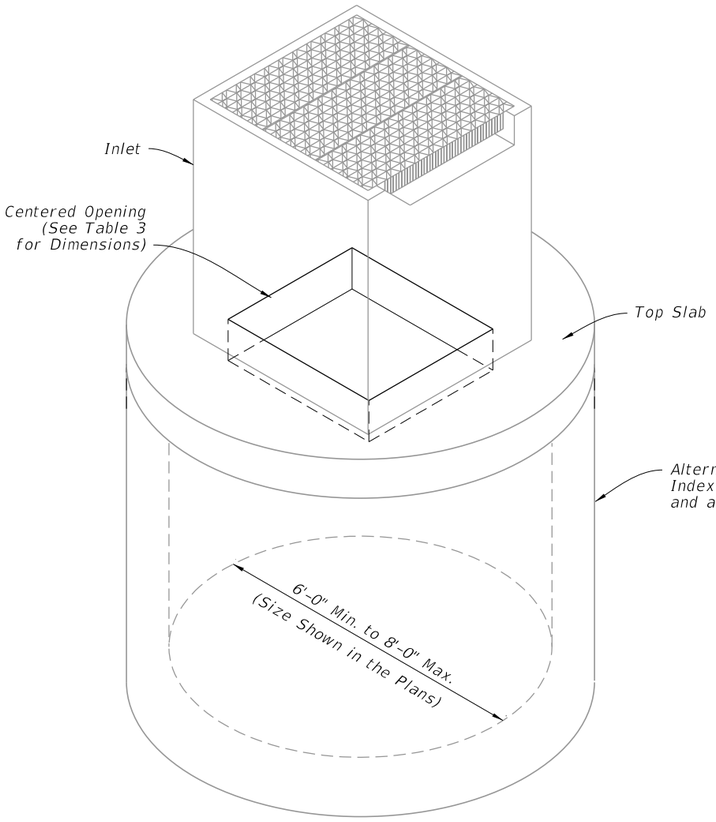


SECTION H-H AND DITCH BLOCK

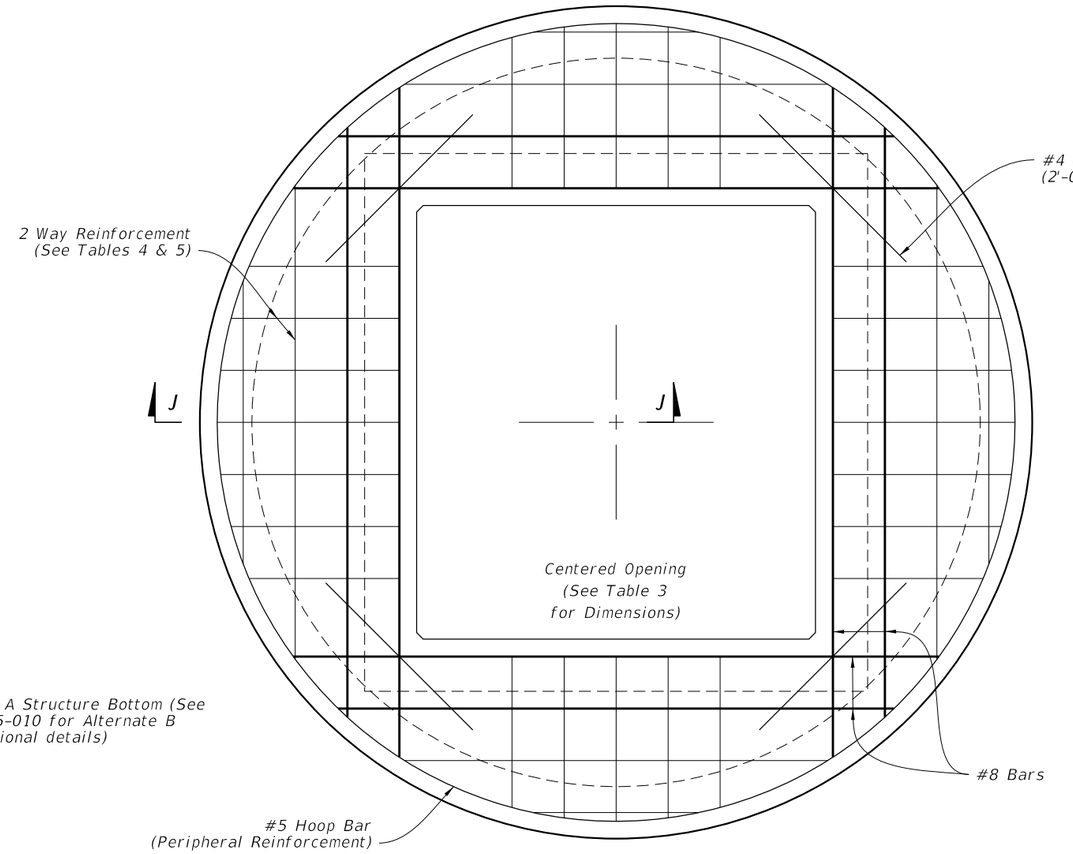
9/10/2024 11:42:31 AM

CONCRETE APRON AND SODDED AREA DETAILS

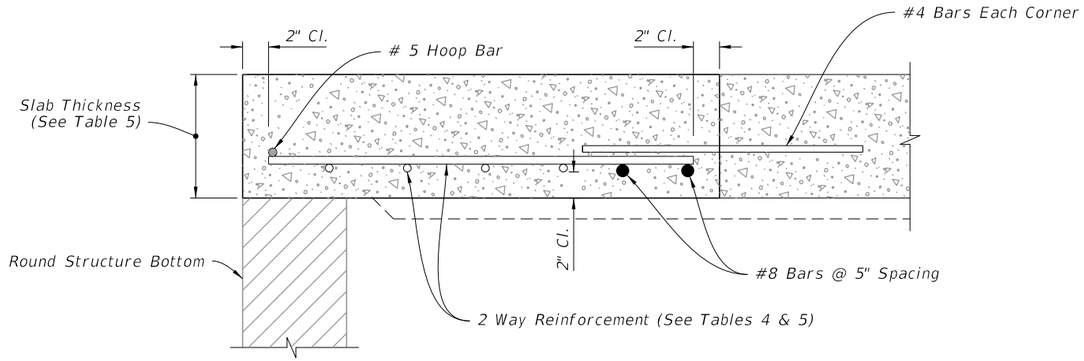
LAST REVISION	REVISION	DESCRIPTION:	FY 2025-26 STANDARD PLANS	DITCH BOTTOM INLET TYPE B	INDEX	SHEET
11/01/20					425-051	4 of 5



ISOMETRIC VIEW



PLAN



SECTION J-J

TOP SLAB REINFORCMENT DETAILS

TABLE 3
TOP SLAB OPENING

DIAMETER	OPENING SIZE	
	Min.	Max.
6'-0" to 8'-0"	3'-8" x 4'-2"	3'-10" x 4'-2"

TABLE 4
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 5
TOP SLAB WITH
CENTERED OPENING

STRUCTURE DEPTH	SLAB THICKNESS	REINFORCING (2 WAY) SCHEDULE
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

9/10/2024 11:42:39 AM

LAST REVISION	REVISION	DESCRIPTION:	FY 2025-26 STANDARD PLANS	DITCH BOTTOM INLET TYPE B	INDEX	SHEET
11/01/20					425-051	5 of 5