GENERAL NOTES:

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

2. Reinforcing bars are Grade 60 bars with 2" minimum cover unless otherwise noted. See Index 425-001 for equivalent area of welded wire fabric. Cut or bend bars out of way of pipe when necessary; bars to clear pipe by 1½".

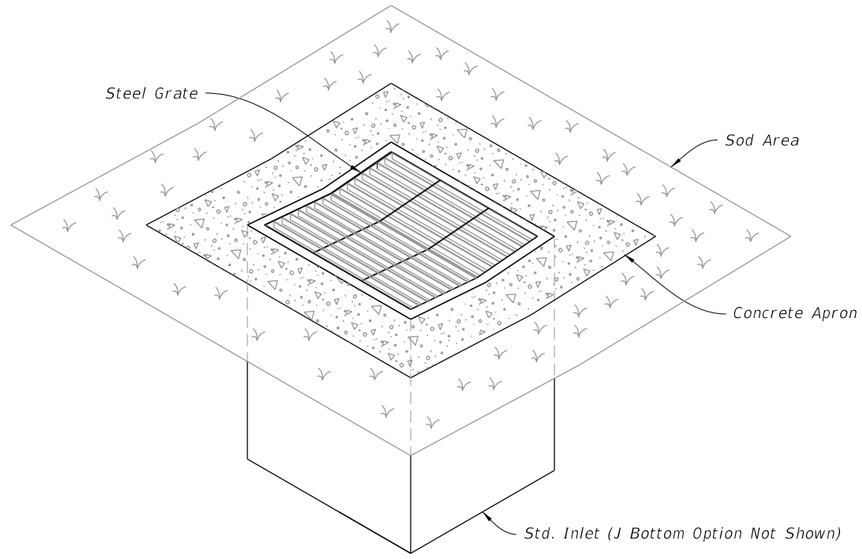
3. Chamfer all exposed edges and corners ¾" or tooled to ¼" radius.

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

5. Quantities are for informational and estimating purposes only.

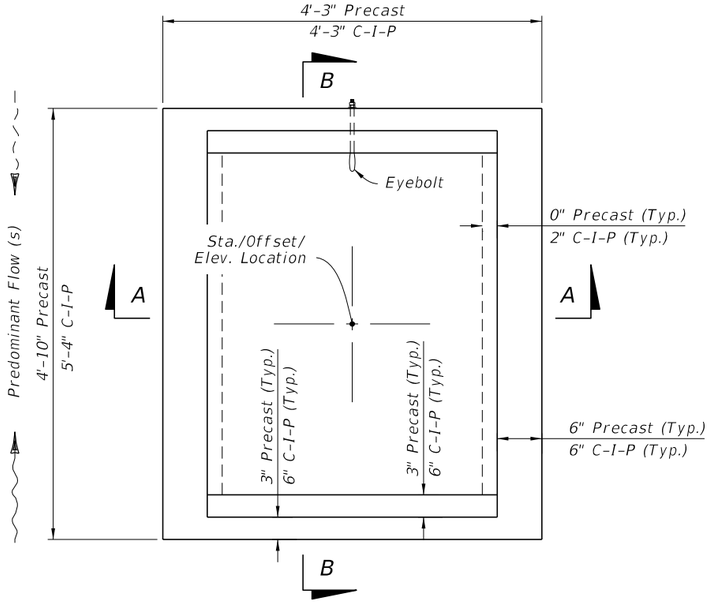
TABLE OF CONTENTS:

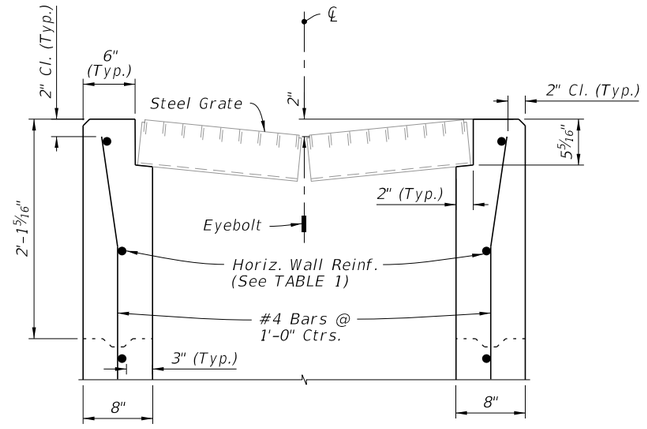
Sheet	Description
1	General Notes and Contents
2	Dimensional and Reinforcing Details
3	Grate, Concrete Apron, and Sodded Area Details
4	Alternate A Structure Bottom – Top Slab Details



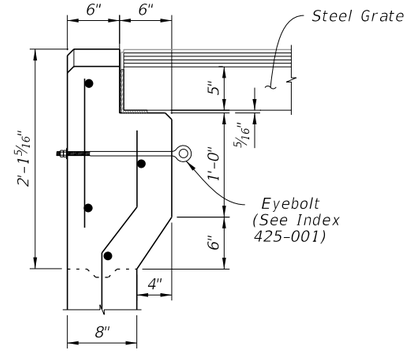
DITCH BOTTOM INLET TYPE J
(Pipe Connection Not Shown)

9/10/2024 11:46:41 AM



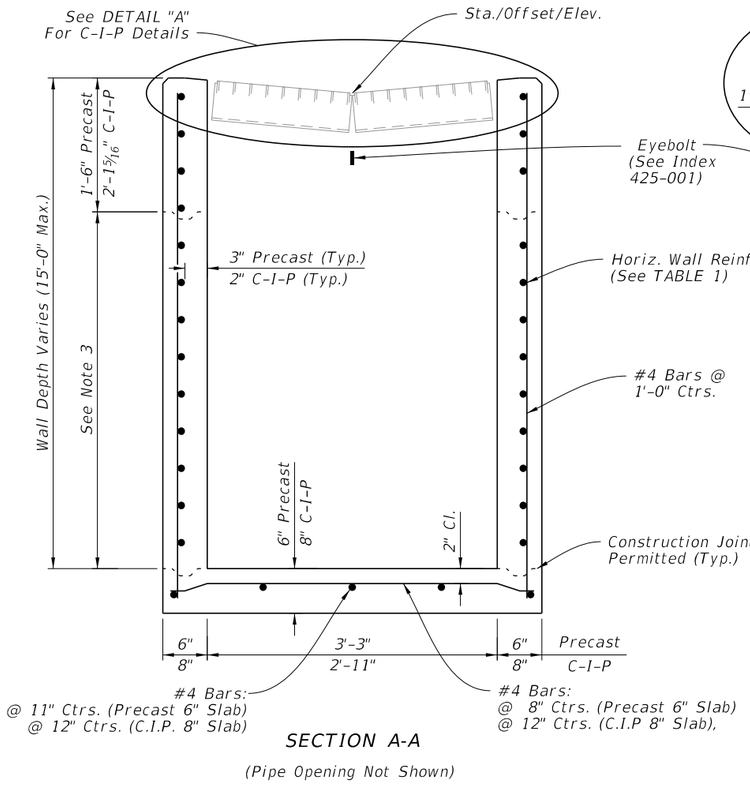


DETAIL "A"



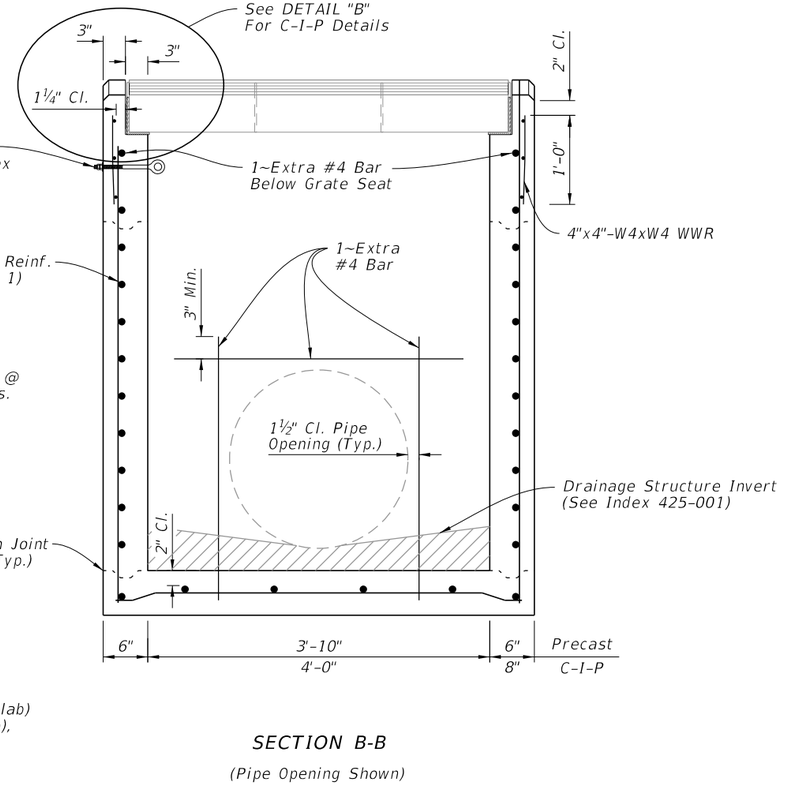
DETAIL "B"

CAST-IN-PLACE OPTION



SECTION A-A

(Pipe Opening Not Shown)



SECTION B-B

(Pipe Opening Shown)

TABLE 1
HORIZONTAL WALL REINFORCING SCHEDULE

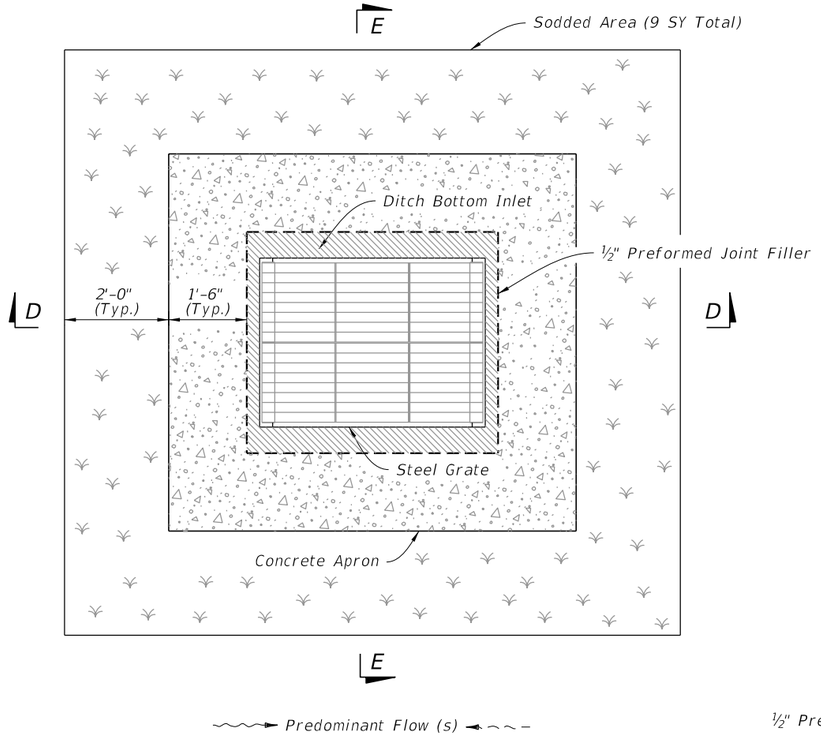
WALL DEPTH	SCHEDULE	AREA (in.²/ft.)	MAX. SPACING	
			BARS	WWR
0' – 4'	A12	0.20	12"	8"
4' – 9'	A6	0.20	6"	5"
9' – 12'	A4	0.24	4"	3"
9' – 15'	B5.5	0.24	5½"	5"

NOTES:

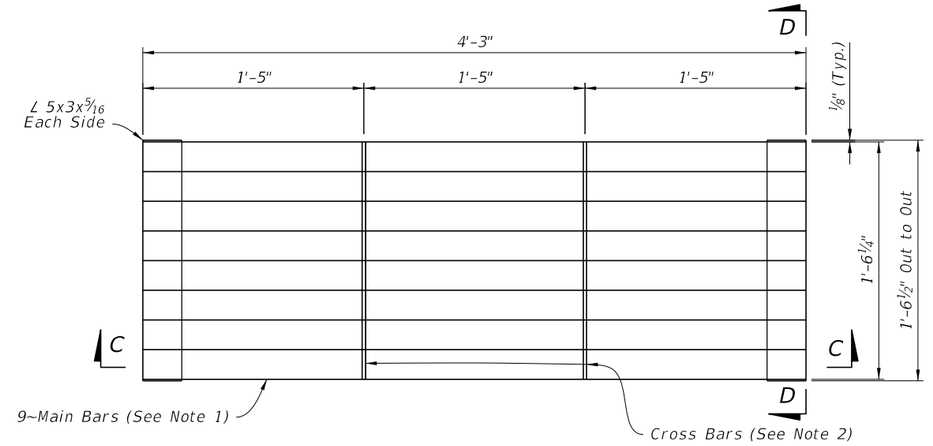
1. Grate, Concrete Apron, and Sod not shown in Plan View.
2. See Sheet 3 for Concrete Apron and Sodded Area details.
3. Construction joints permitted between these limits. See Index 425-001 for minimum dimensions.

DIMENSIONAL AND REINFORCING DETAILS

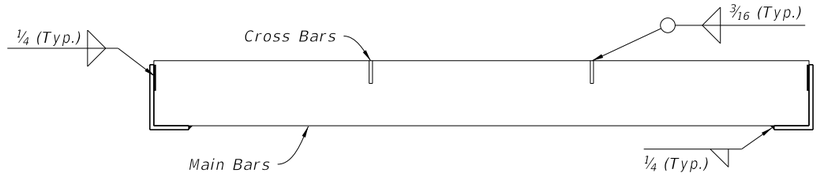
DIMENSIONAL AND REINFORCING DETAILS



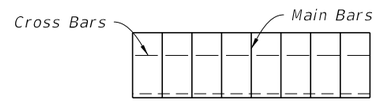
PLAN



PLAN



SECTION C-C

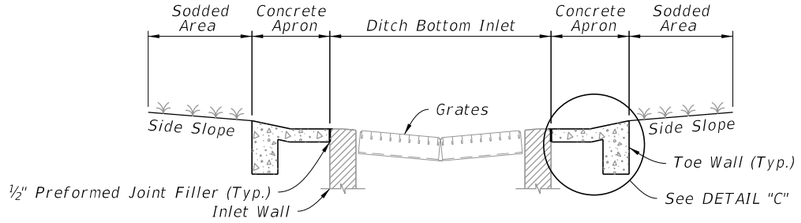


SECTION D-D

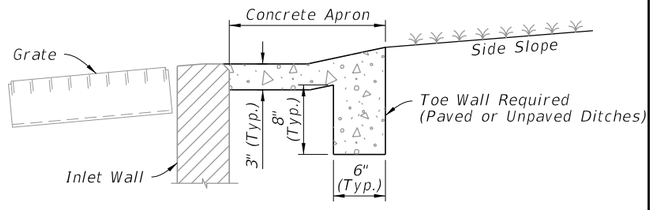
NOTES:

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

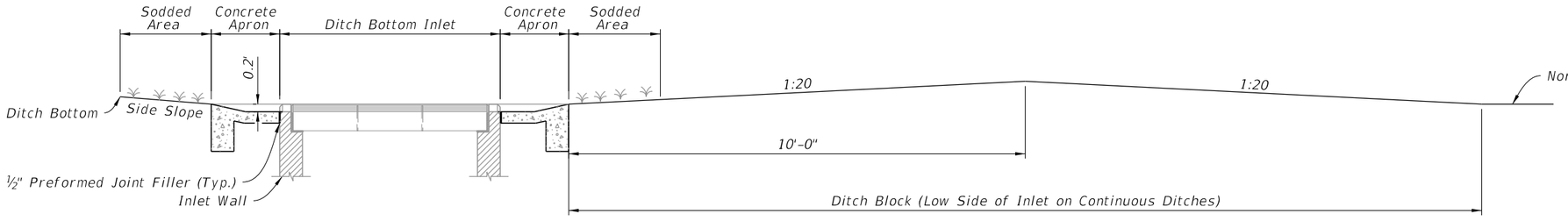
STEEL GRATE DETAIL



SECTION E-E



DETAIL "C"



SECTION D-D AND DITCH BLOCK DETAILS

NOTES:

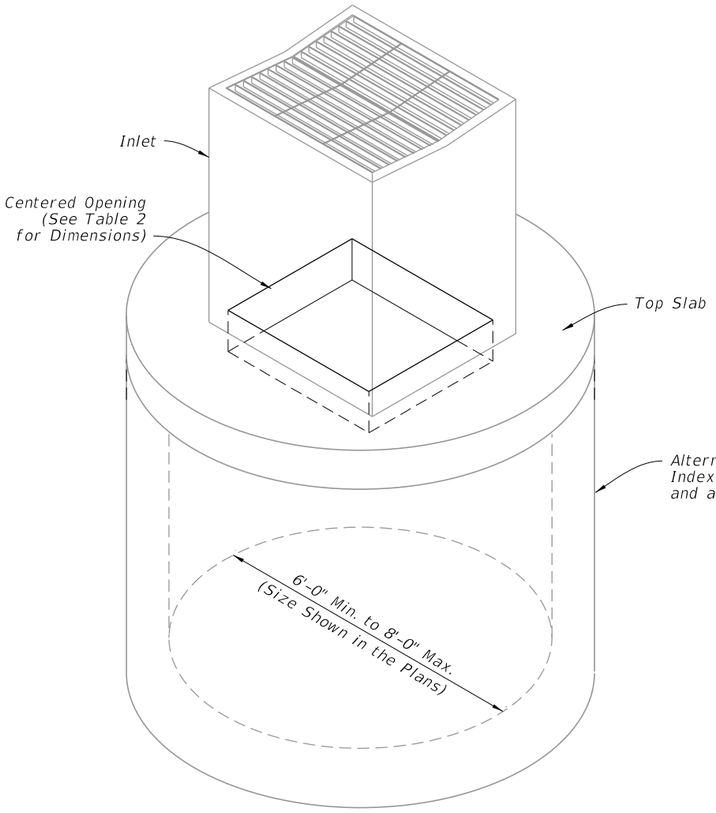
1. Concrete Apron to be installed only where called for in the Plans.
2. Sod always required.

CONCRETE APRON AND SODDED AREA DETAILS

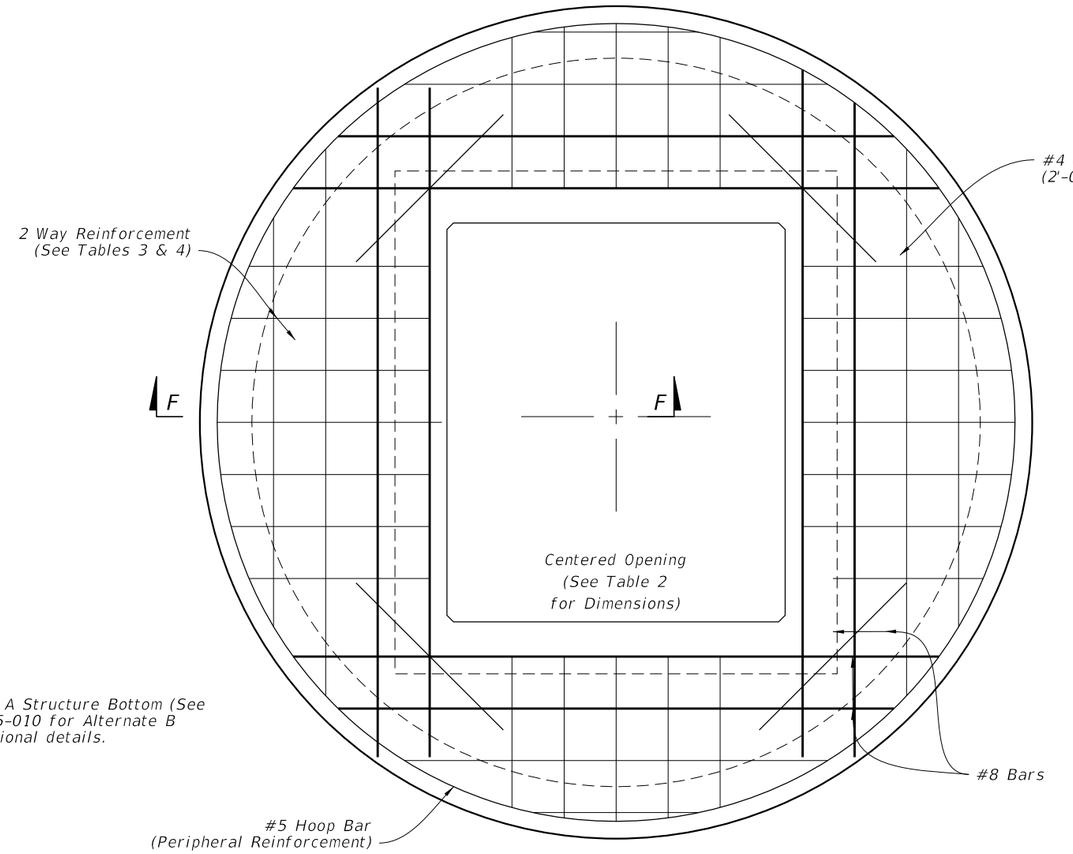
GRATE, CONCRETE APRON, AND SODDED AREA DETAILS

9/10/2024 11:46:57 AM

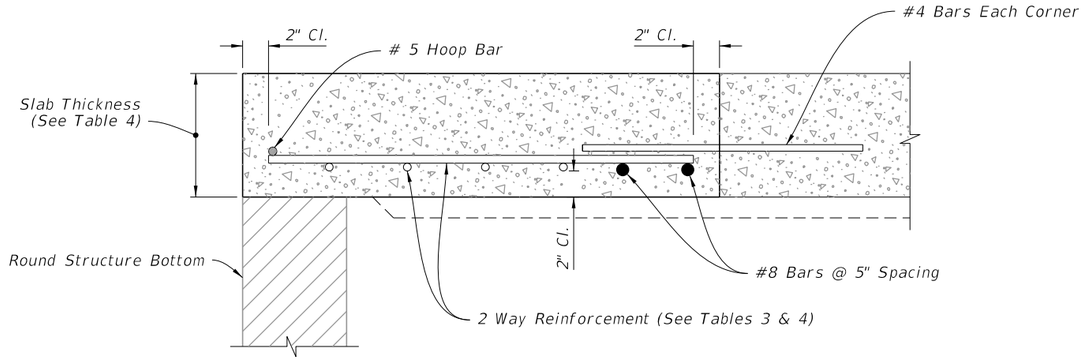
LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2025-26 STANDARD PLANS	DITCH BOTTOM INLET TYPE J	INDEX	SHEET
11/01/20						425-054	3 of 4



ISOMETRIC VIEW



PLAN



SECTION F-F

TOP SLAB REINFORCEMENT DETAILS

TABLE 2
TOP SLAB OPENING

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

TABLE 3
TOP SLAB
REINFORCING SCHEDULE

SCHEDULE	GRADE 60 (BAR) OR 65 KSI & 70 KSI (WIRE REINFORCING) $In.^2/ft.$
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: 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

9/10/2024 11:47:06 AM

ALTERNATE A STRUCTURE BOTTOM - TOP SLAB DETAILS

LAST REVISION	REVISION	DESCRIPTION:	FY 2025-26 STANDARD PLANS	DITCH BOTTOM INLET TYPE J	INDEX	SHEET
11/01/20			FDOT		425-054	4 of 4