
ORIGINATION FORM

Proposed Revisions to a Standard Plans Index
(Please provide all information — Incomplete forms will be returned)

Contact Information:

Date: November 1, 2019

Originator: Rick Jenkins

Phone: (850) 414-4355

Email: Rick.Jenkins@dot.state.fl.us

Standard Plans:

Index Number: 425-053

Sheet Number (s): ALL

Index Title: Ditch Bottom Inlet Type F and G

Summary of the changes:

Reorganized Index, Added additional Sheets.

Sheet 1: General Notes

Sheet 2: Type F - Dimensional, Reinforcement , and Grate Details

Sheet 3: Type G - Dimensional, Reinforcement , and Grate Details

Sheet 4: Concrete Ditch Pavement and Sodded Area Details

Commentary / Background:

Reorganized Details and Sheets to declutter Index. Moved information from detail callouts to Notes in order to decrease clutter of the drawing. Moved design information to SPI.

Other Affected Offices / Documents: (Provide name of person contacted)

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	Other Standard Plans –
<input type="checkbox"/>	<input type="checkbox"/>	FDOT Design Manual –
<input type="checkbox"/>	<input type="checkbox"/>	Basis of Estimates Manual –
<input type="checkbox"/>	<input type="checkbox"/>	Standard Specifications –
<input type="checkbox"/>	<input type="checkbox"/>	Approved Product List –
<input type="checkbox"/>	<input type="checkbox"/>	Construction –
<input type="checkbox"/>	<input type="checkbox"/>	Maintenance –

Origination Package Includes:

(Email or hand deliver package to Rick Jenkins)

Yes	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Redline Mark-ups
<input type="checkbox"/>	<input type="checkbox"/>	Proposed Standard Plan Instruction (SPI)
<input type="checkbox"/>	<input type="checkbox"/>	Revised SPI
<input type="checkbox"/>	<input type="checkbox"/>	Other Support Documents

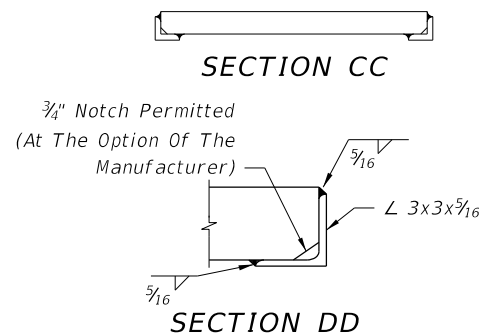
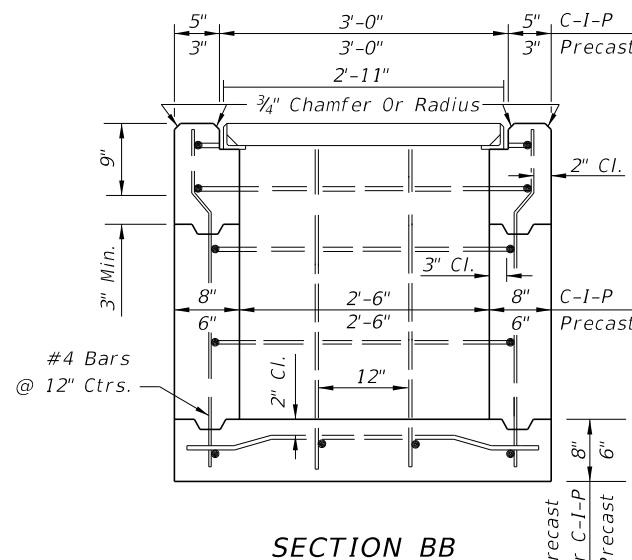
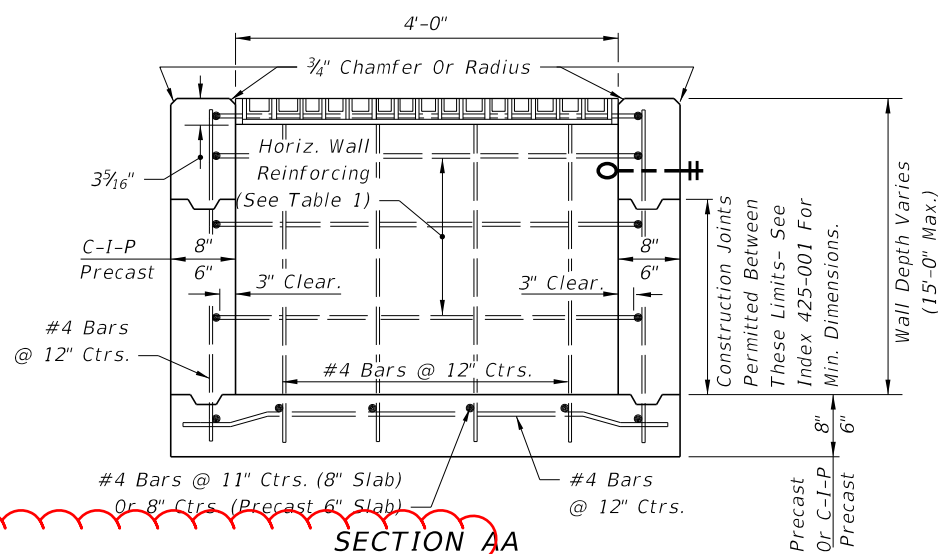
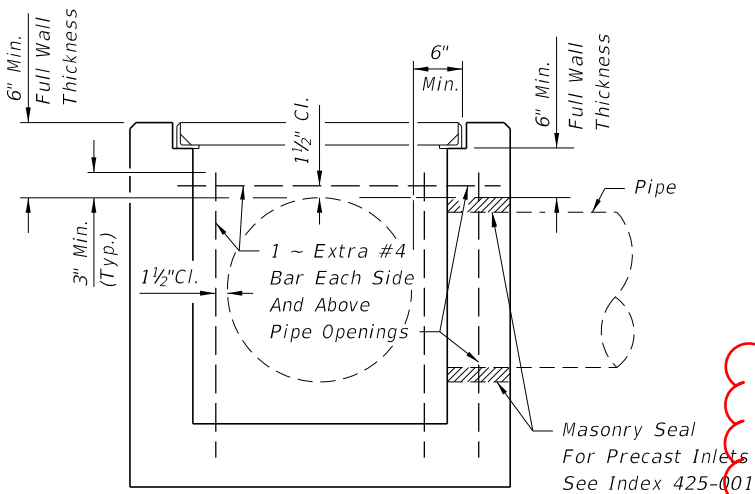
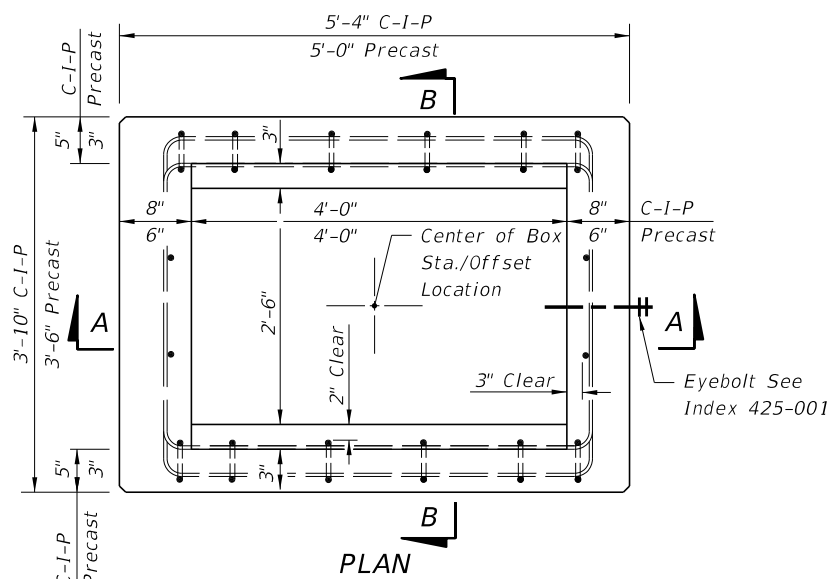
Implementation:

- Design Bulletin (Interim)
- DCE Memo
- Program Mgmt. Bulletin
- FY-Standard Plans (Next Release)

Contact the Roadway Design Office for assistance in completing this form

NEW SHEET 1

GENERAL NOTES AND OVERVIEW



HORIZONTAL WALL REINF. SCHEDULES
TYPE F INLET (TABLE 1)

WALL DEPTH	SCHEDULE	AREA (in ² /ft)	MAX. SPACING	
			BARS	WWF
0' - 4'	A12	0.20	12"	8"
4' - 7'	A6	0.20	6"	5"
7' - 12'	B5.5	0.24	5 1/2"	5"
12' - 15'	Special 1	0.267	5"	4"

MOVED TO NEW SHEET 1

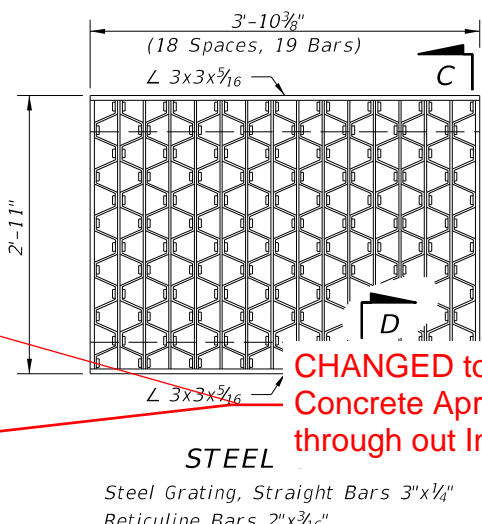
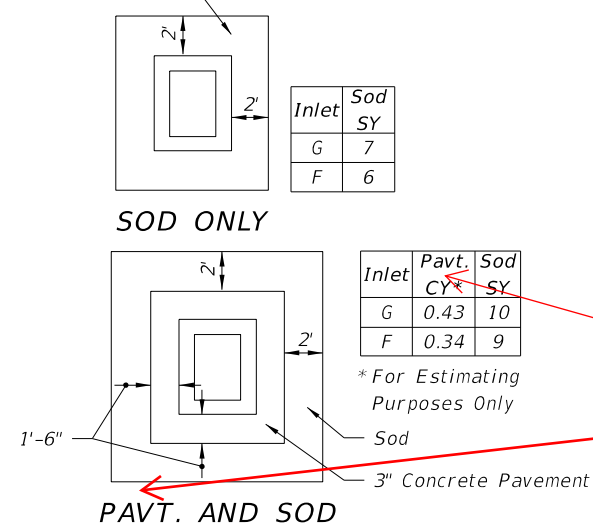
GENERAL NOTES

- These inlets are designed for use in ditches, medians, pavement areas, or other areas subject to heavy wheel loads, minimal debris, and bicycle traffic. This inlet may be placed in areas subject to occasional pedestrian traffic such as landscaped areas and pavement areas where pedestrians can walk around the inlet. When inlet is placed in areas subject to bicycle traffic, install filler bar when clearance or gap is greater than 5/8" as shown in Index 425-031.
- When Alternate G grate is specified in plans, the grate is to be hot dip galvanized after fabrication.
- These inlets may be used with Alternate B structure bottoms, Index 425-010. ~~The inlet and bottom combinations are to be paid for under the contract unit price for inlets (DT Bot) (Type F (or G)) (J Bot, Depth) Ea~~
- All exposed edges and corners shall be 3/4" chamfer or tooled to 1/4" radius.
- For supplemental details, see Index 425-001.
- All reinforcing is Grade 60 bars with 2" min. cover unless otherwise noted. Bars to be cut or bent for 1 1/2" clearance around pipe opening. Provide one additional #4 bar above and at each side of pipe opening, as shown.
- All dimensions are for both precast and cast-in-place inlets unless otherwise noted.

SPI

SPI/Spec

MOVED TO NEW SHEET 4



CHANGED to Concrete Apron through out Index

TYPE F

PAVEMENT AND SODDING

- Notes:
- Pavement and/or sod to be used only where called for in the plans.
 - Cost of paving to be included in cost of inlet.

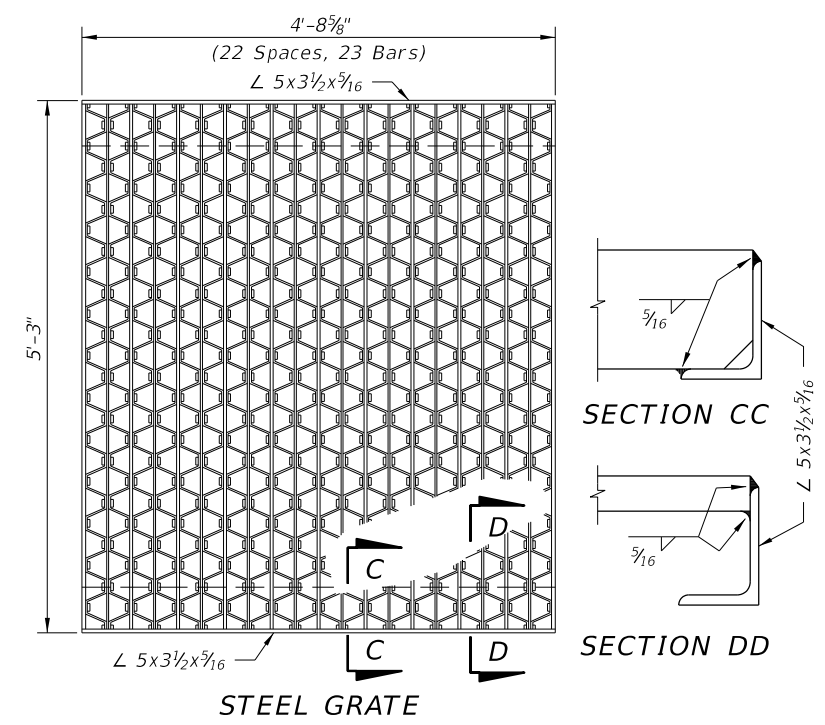
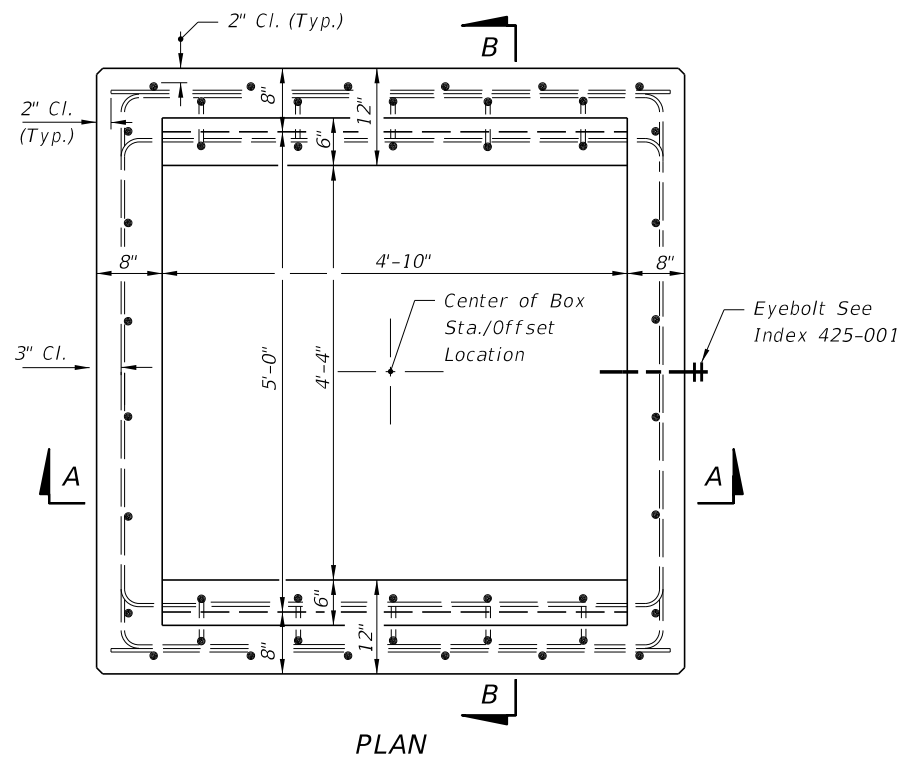
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RECOMMENDED MAXIMUM PIPE SIZES	
INLET INSIDE WIDTH	PIPE SIZE
2'-6" (Type F)	18"
4'-0" (Type F)	30"
4'-10" / 5'-0" (Type G)	42"

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 sizes see Note 3.

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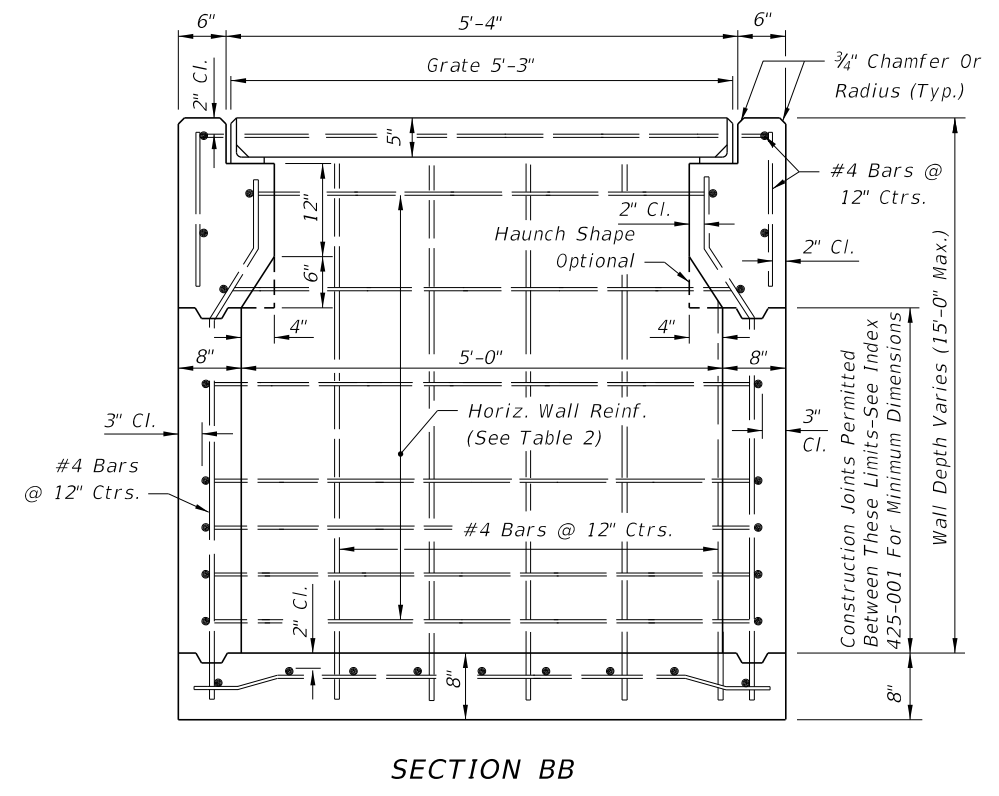
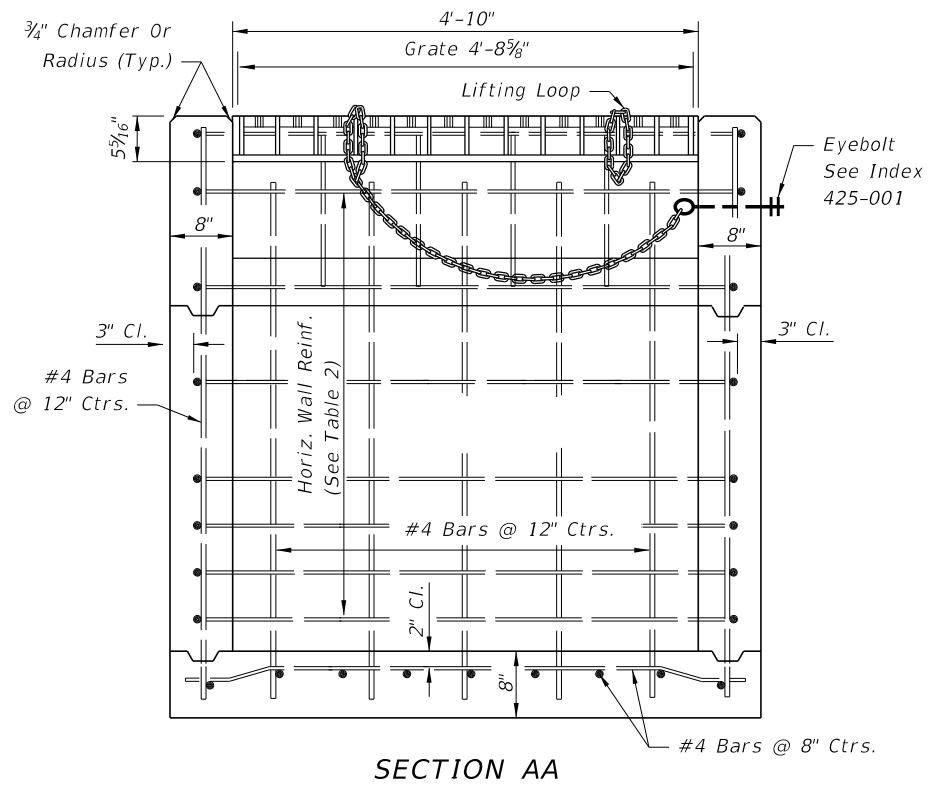
LAST REVISION	DESCRIPTION:
11/01/17	
11/01/20	



STEEL GRATE
 5" Steel Decking, Weight 630 Lbs. Main Bars 5" x 1/4"
 Intermediate Bars 1 1/2" x 1/4", Reticuline Bars 1 1/4" x 3/16"

TYPE G INLET (TABLE 2)

WALL DEPTH	SCHEDULE	AREA (in ² /ft)	MAX. SPACING	
			BARS	WWF
0' - 3'	A12	0.20	12"	8"
3' - 7'	A6	0.20	6"	5"
7' - 10'	B5.5	0.24	5 1/2"	5"
10' - 15'	C6.5	0.37	6 1/2"	6"



TYPE G

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LAST REVISION	DESCRIPTION:
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11/01/20	

FDOT FY 2019-20 STANDARD PLANS

DITCH BOTTOM INLET TYPES F AND G

INDEX	SHEET
425-053	2 of 2

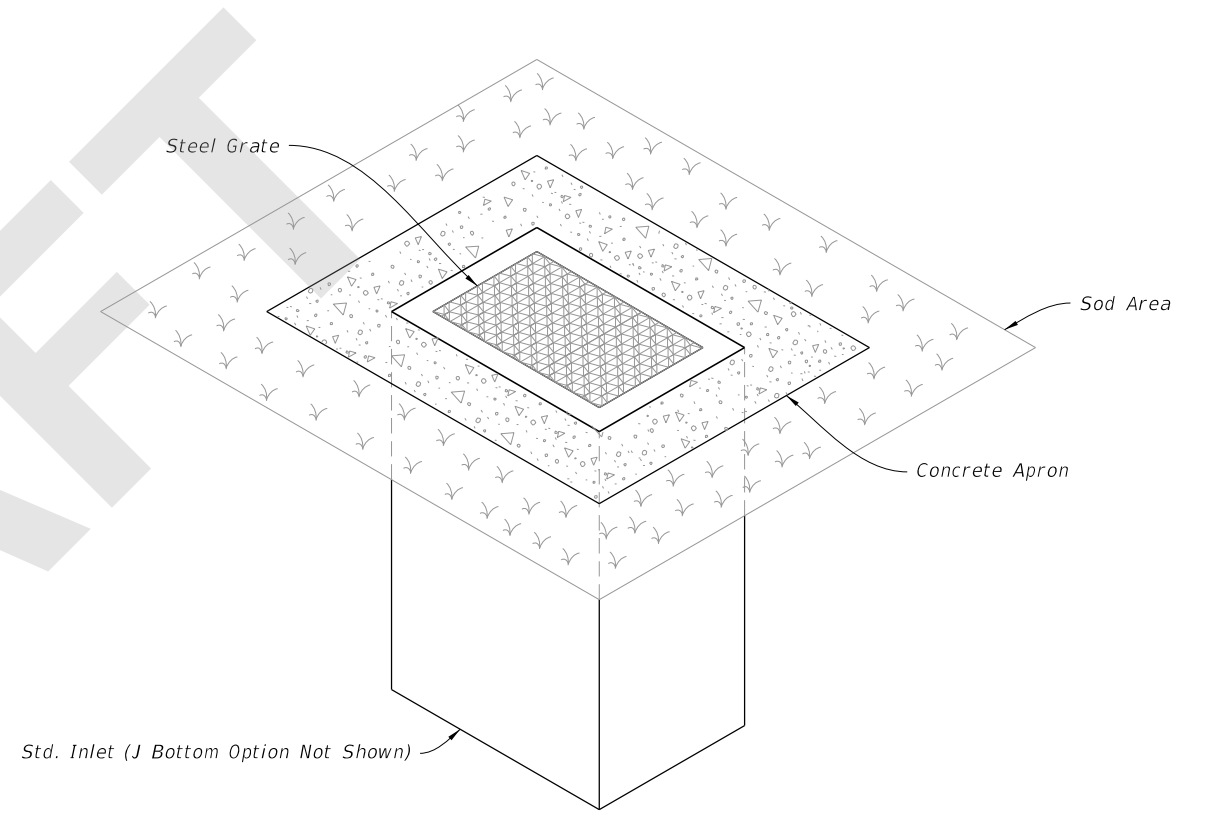
SHEET 3

NEW SHEET 4

CONCRETE DITCH PAVEMENT AND SODDED AREA DETAILS

GENERAL NOTES:

1. Work this Index with Index 425-001 and Index 425-010.
2. When inlet is placed in areas subject to bicycle traffic, install filler bar when clearance or gap is greater than $\frac{3}{8}$ " as shown in Index 425-031.
3. These inlets may be used with Alternate B structure bottoms, Index 425-010.
4. Chamfer all exposed edges and corners $\frac{3}{4}$ " chamfer or tooled to $\frac{1}{4}$ " radius.
5. See Index for supplemental details.
6. Reinforcing bars are Grade 60 with 2" minimum cover unless otherwise noted. Cut or bend bars to provide $1\frac{1}{2}$ " clearance around pipe opening. Provide one additional #4 bar above and at each side of pipe opening as shown.
7. Dimensions are for both precast and cast-in-place inlets unless otherwise noted.
8. Quantities are for informational and estimating purposes only.

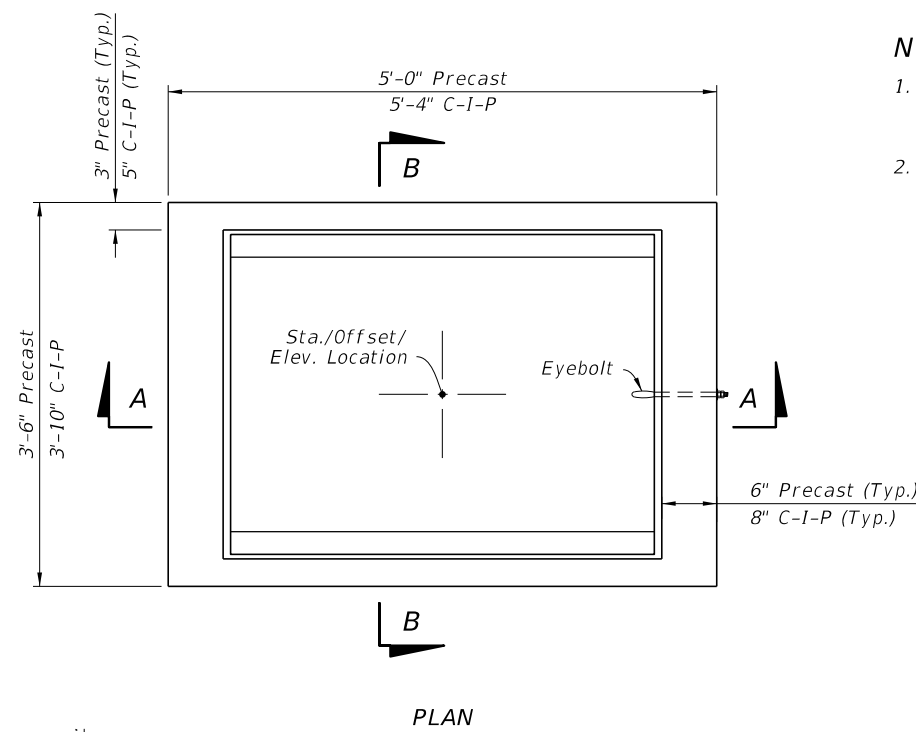


DITCH BOTTOM INLET TYPE F

 (Type G Similar, Pipe Connection Not Shown)

TABLE OF CONTENTS:	
Sheet	Description
1	General Notes and Contents
2	Type F - Dimensional, Reinforcement, and Grate Details
3	Type G - Dimensional, Reinforcement, and Grate Details
4	Concrete Apron and Sodded Area Details

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NOTES:

1. The Grate, Concrete Apron, and Sod not shown on Inlet PLAN view. See Sheet 4 for Concrete Apron and Sodded Area details.
2. Construction joints permitted between these limits. See Index 425-001 for minimum dimensions.

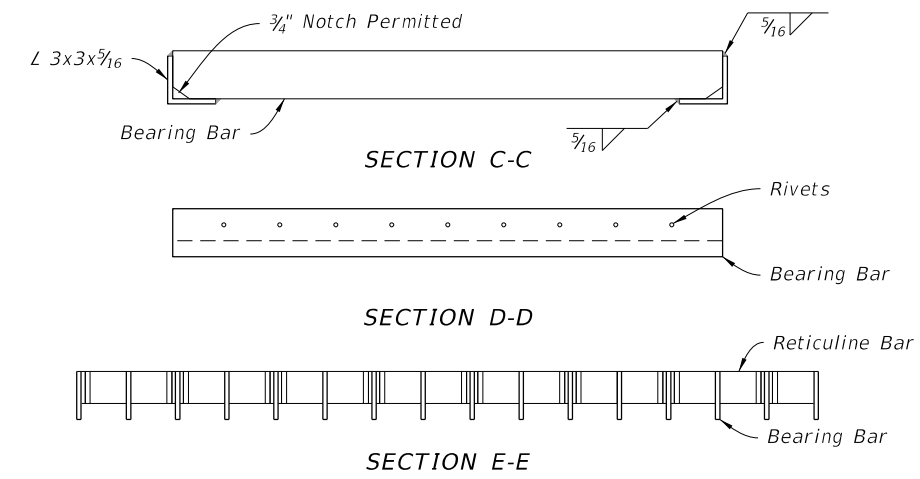
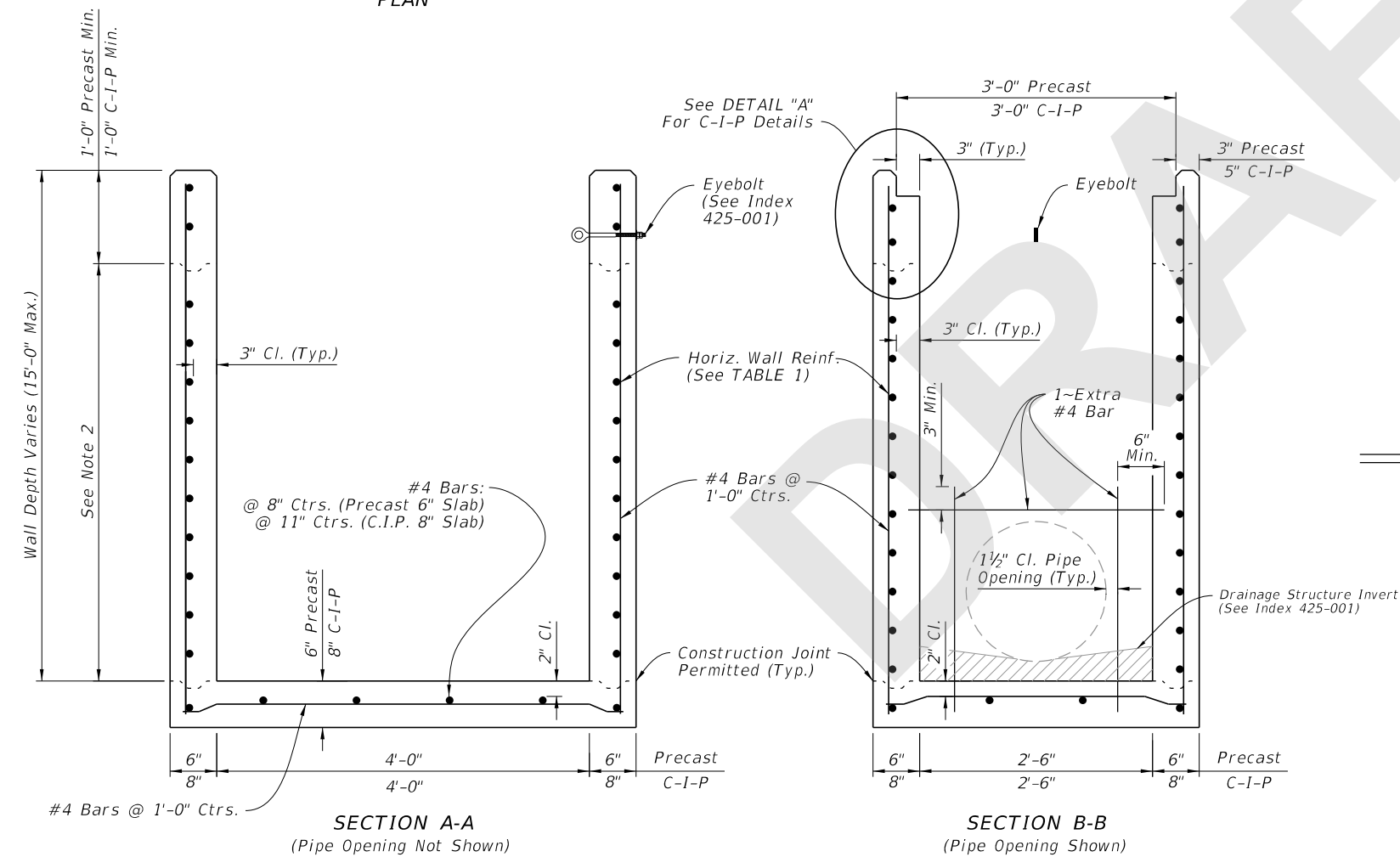
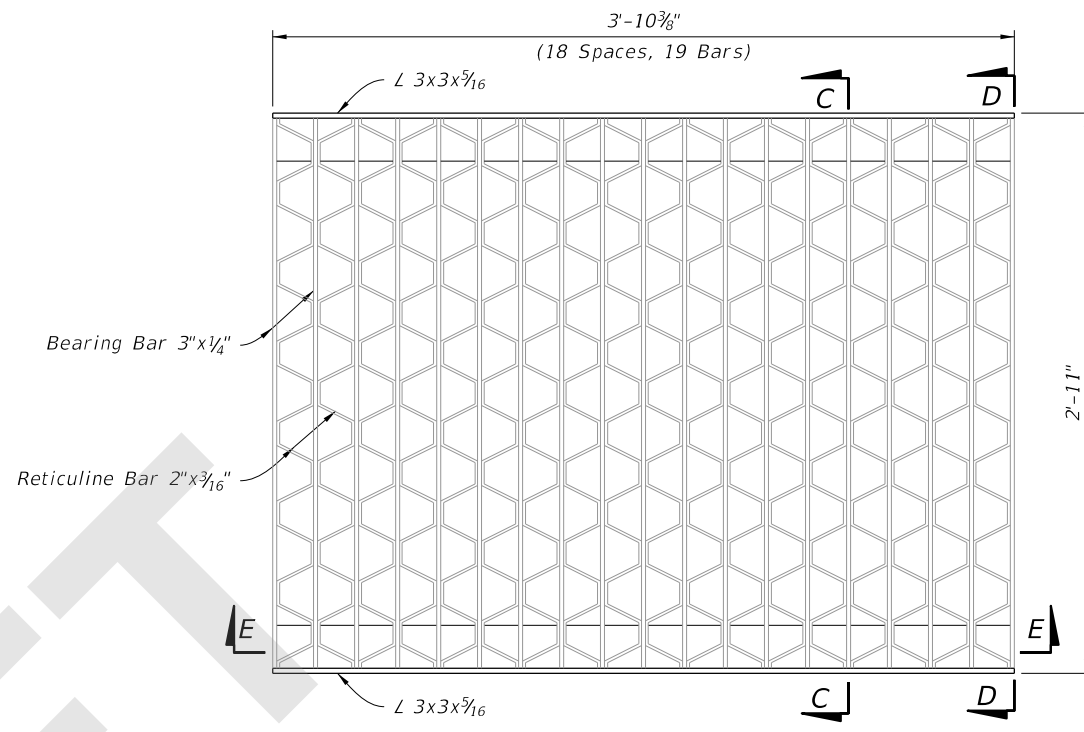
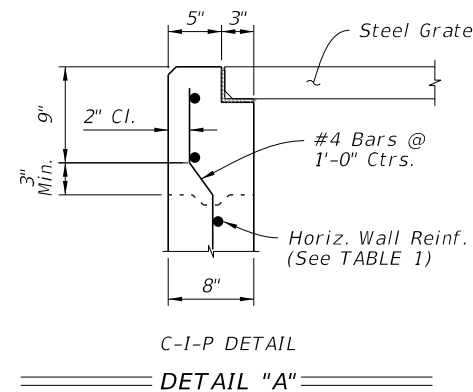


TABLE 1
HORIZONTAL WALL REINFORCING SCHEDULE

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING	
			BARS	WWR
0' - 4'	A12	0.200	12"	8"
4' - 7'	A6	0.200	6"	5"
7' - 12'	B5.5	0.240	5 1/2"	5"
12' - 15'	Special 1	0.267	5"	4"

DIMENSIONAL AND REINFORCEMENT DETAILS

TYPE F - DIMENSIONAL, REINFORCEMENT, AND GRATE DETAILS

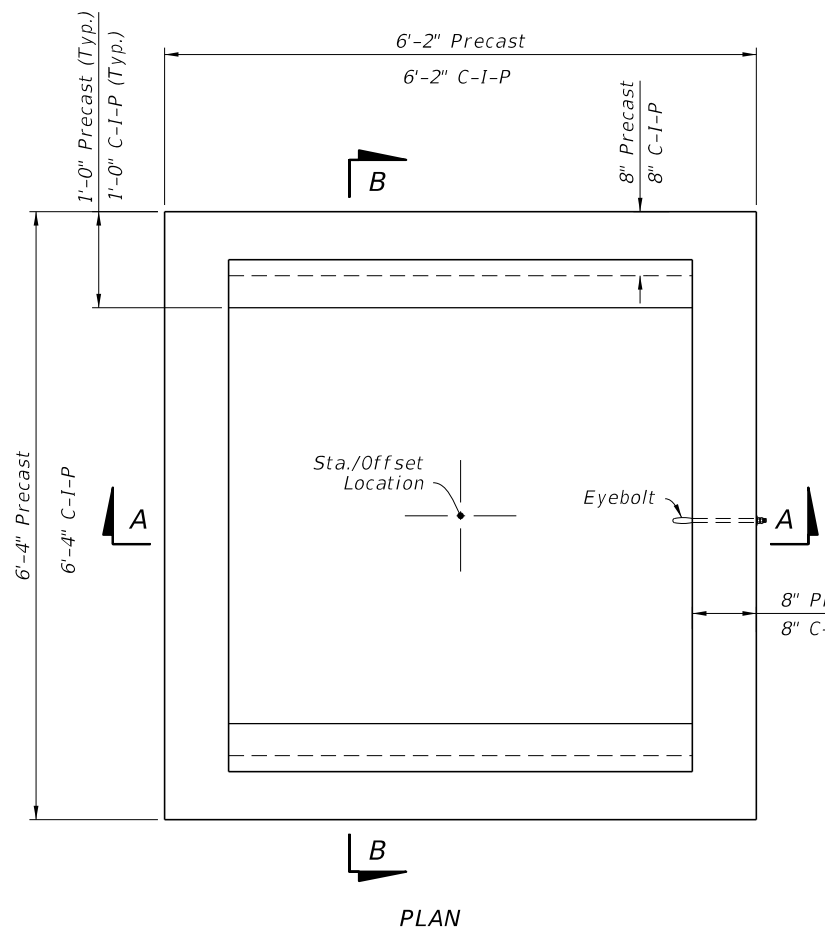
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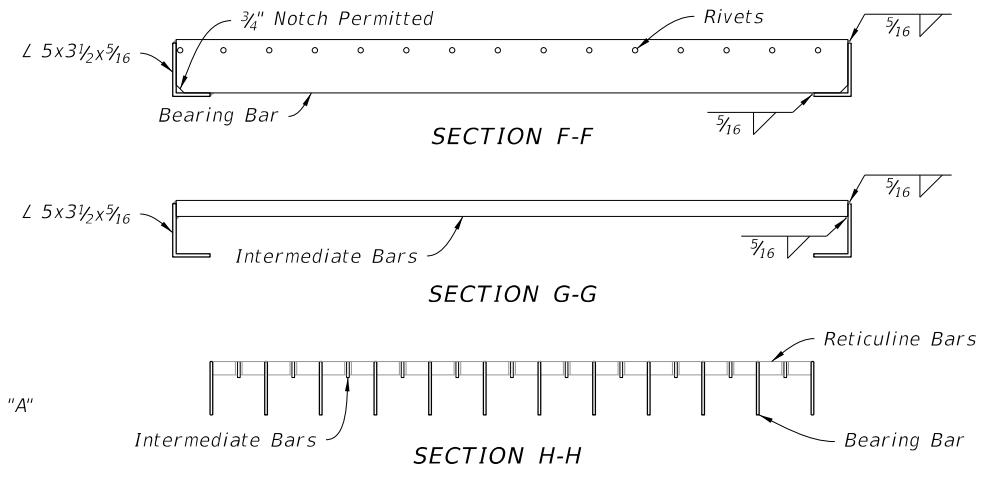
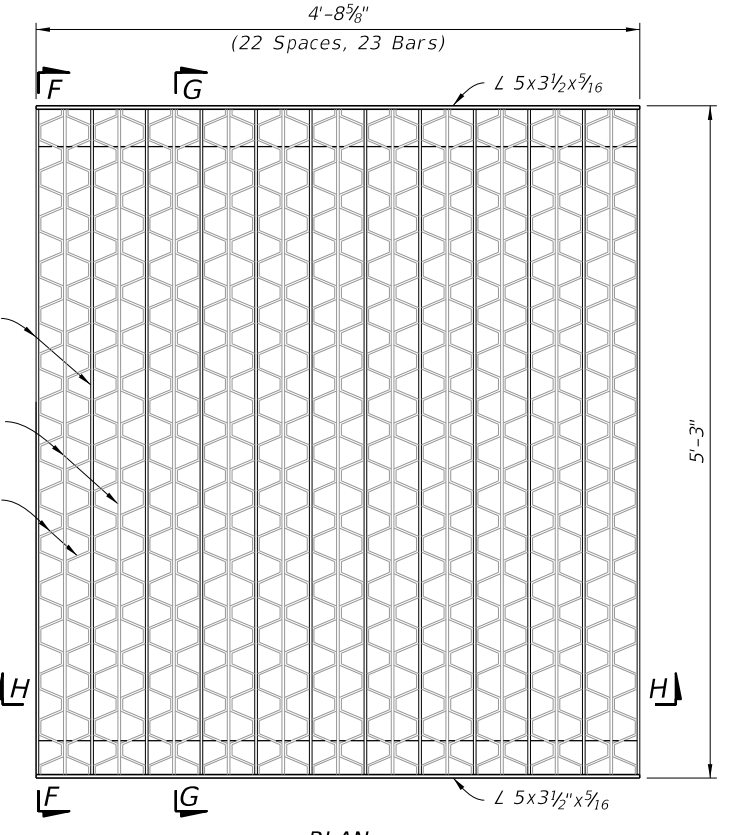
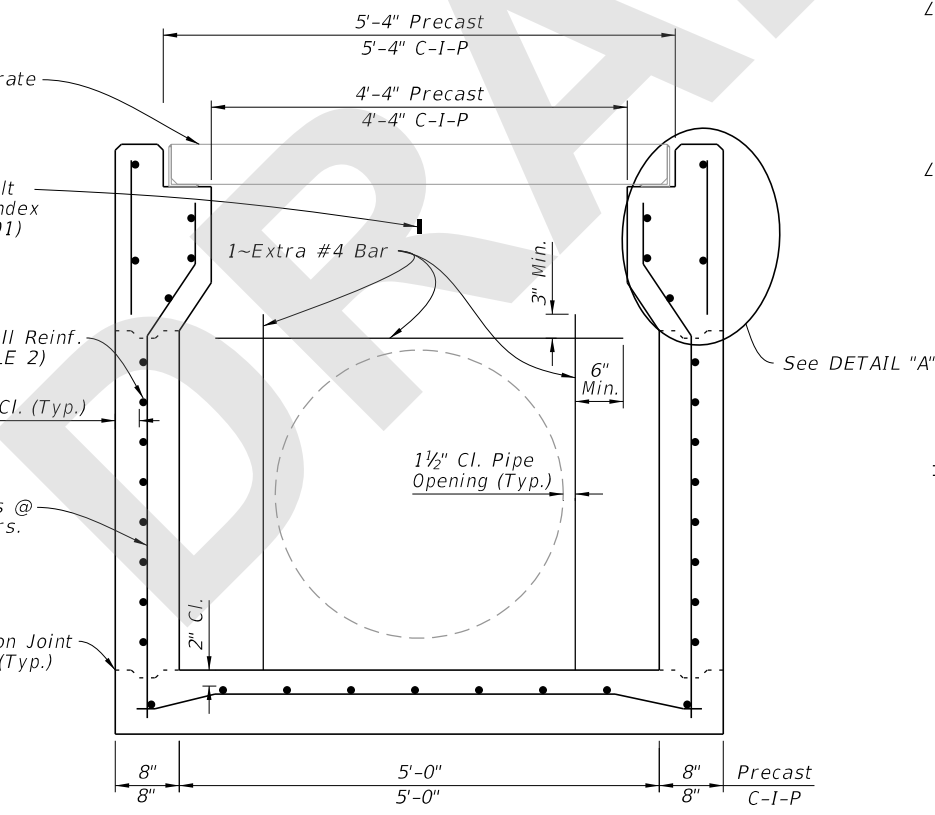
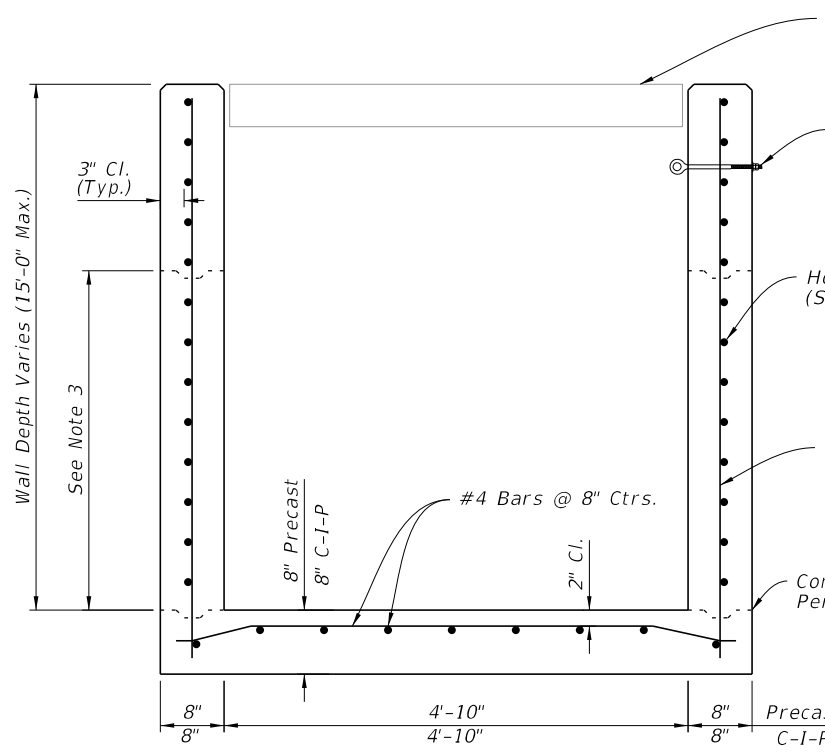
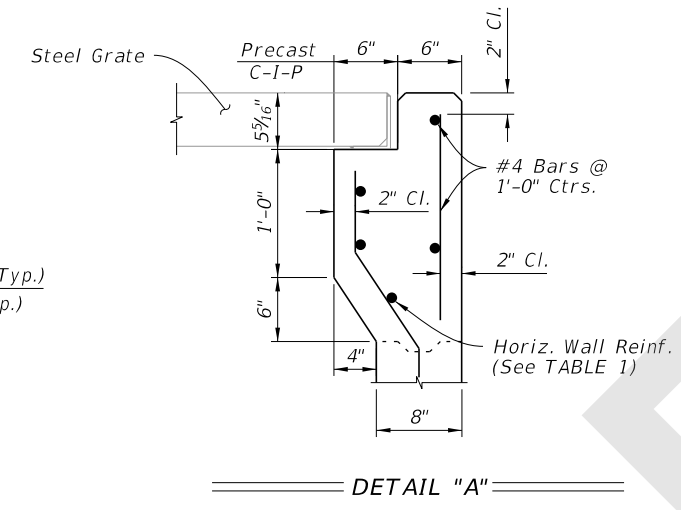
FDOT
FY 2021-22
STANDARD PLANS

DITCH BOTTOM INLET TYPE F AND G

INDEX 425-053	SHEET 2 of 4
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- NOTES:**
1. Grate, Concrete Apron, and Sod not shown in Plan view
 2. See Sheet 4 for Concrete Apron and Sodded Area details.
 3. Construction joints permitted between these limits. See Index 425-001 for minimum dimensions.



**TABLE 2
HORIZONTAL WALL REINFORCING SCHEDULE**

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING	
			BARS	WWR
0' - 3'	A12	0.20	12"	8"
3' - 7'	A6	0.20	6"	5"
7' - 10'	B5.5	0.24	5 1/2"	5"
10' - 15'	C6.5	0.37	6 1/2"	6"

DIMENSIONAL AND REINFORCEMENT DETAILS

TYPE G - DIMENSIONAL, REINFORCEMENT, AND GRATE DETAILS

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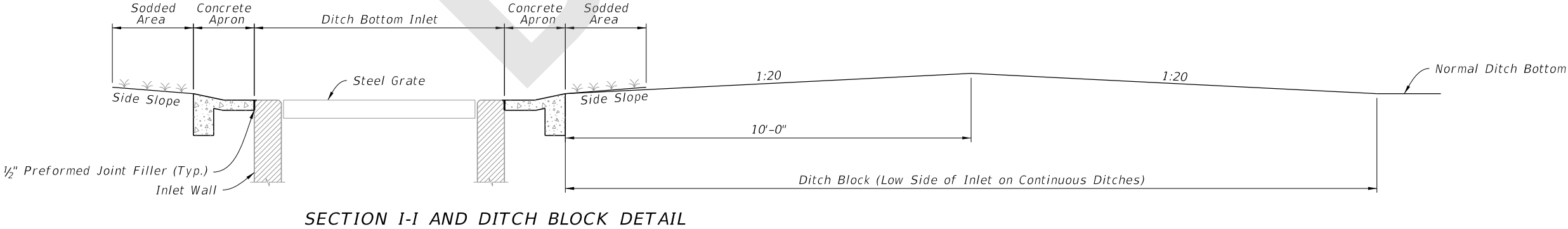
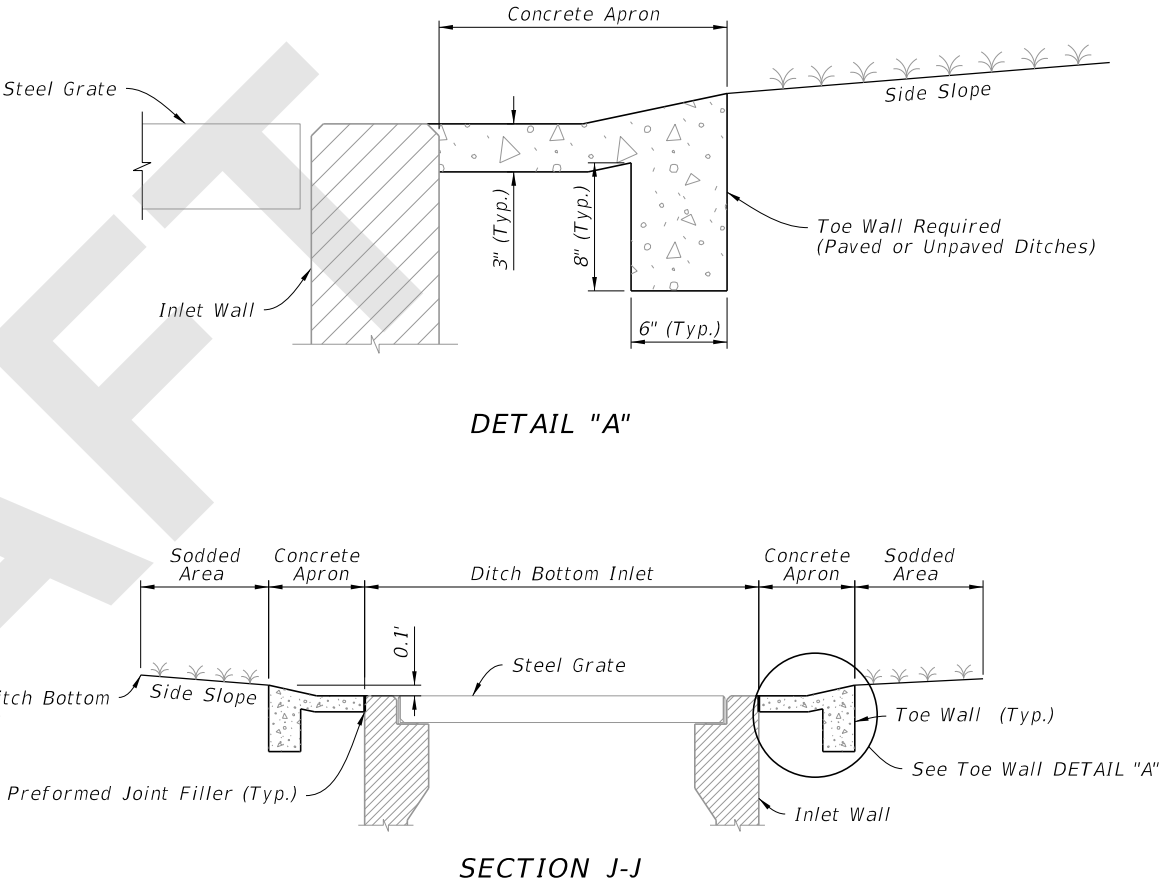
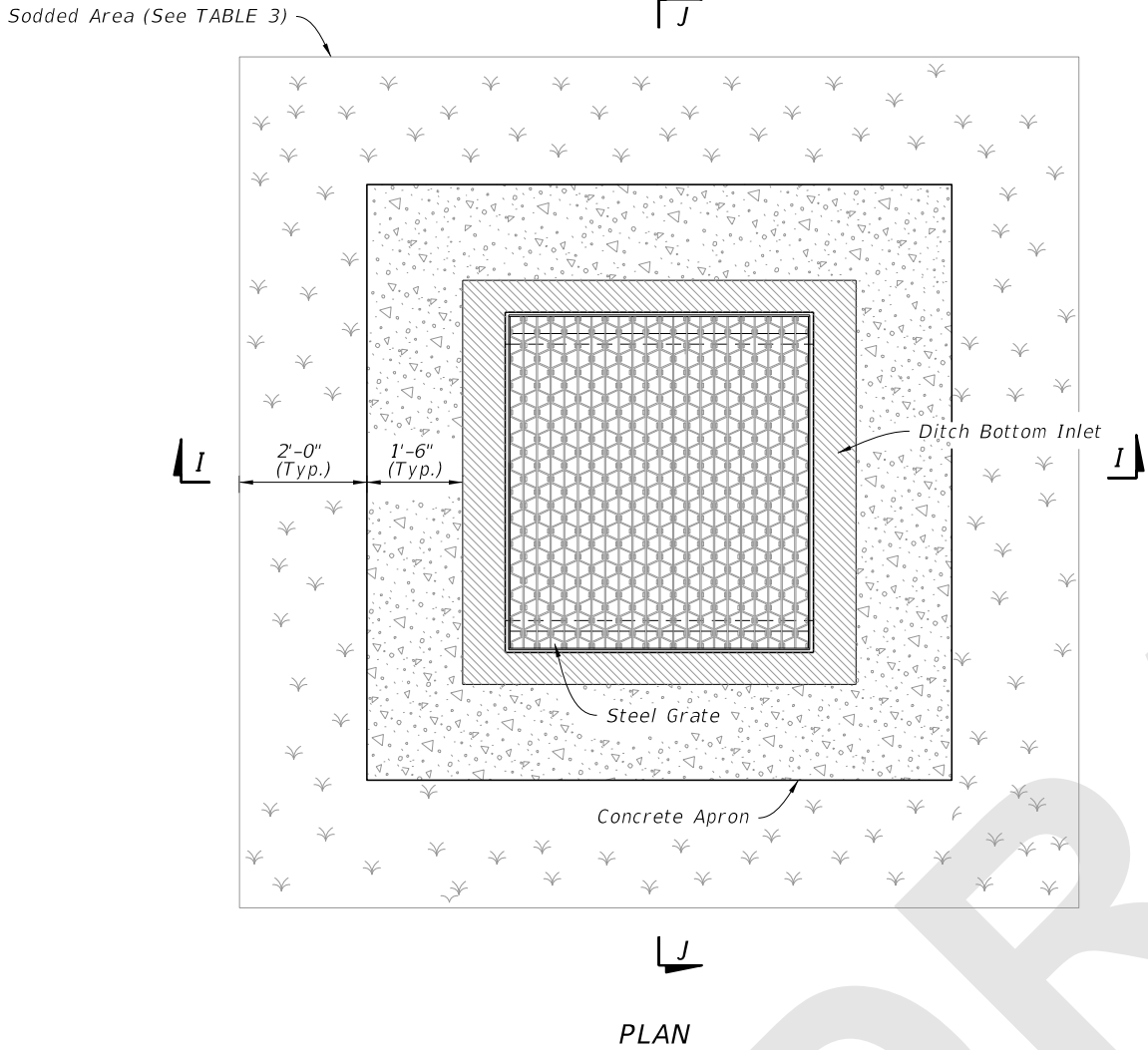
**FY 2021-22
STANDARD PLANS**

DITCH BOTTOM INLET TYPE F AND G

INDEX	SHEET
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TABLE 3 CONCRETE APRON AND SOD QUANTITIES			
INLET	CONCRETE (CY)	SOD W/CONCRETE (SY)	SOD ONLY (SY)
F	0.43	10	6
G	0.34	9	7

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



CONCRETE APRON AND SODDED AREA DETAILS

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LAST REVISION 11/01/20	REVISION	DESCRIPTION:		FY 2021-22 STANDARD PLANS	DITCH BOTTOM INLET TYPE F AND G	INDEX 425-053	SHEET 4 of 4
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