
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: 425-050

Sheet Number (s): ALL

Index Title: Ditch Bottom Inlet Type A

Summary of the changes:

Reorganized Index, Added additional Sheets.

Sheet 1: General Notes

Sheet 2: Dimensional, Reinforcement , and Steel Grate Details

Sheet 3: Concrete Ditch Pavement and Sodded Area Details

Sheet 4: Alternate A Structure Bottom- Top Slab Details

Deleted "INLET WITH STRUCTURE BOTTOM" Detail, Referenced 425-010.

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 checked="" 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:

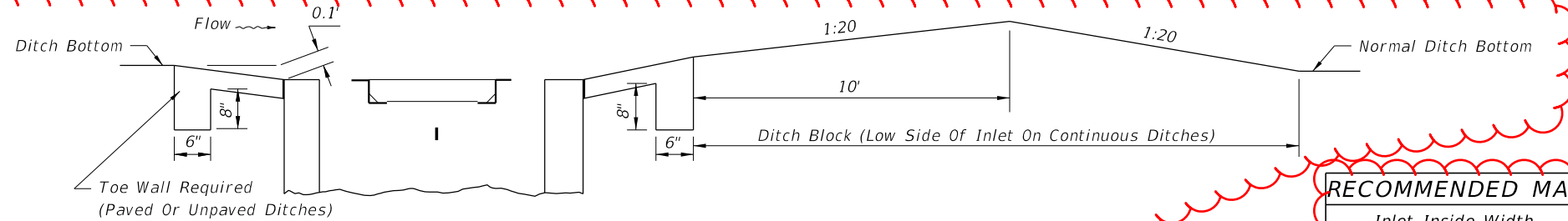
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|-------------------------------------|----------------------------------|
| <input type="checkbox"/> | Design Bulletin (Interim) |
| <input type="checkbox"/> | DCE Memo |
| <input type="checkbox"/> | Program Mgmt. Bulletin |
| <input checked="" type="checkbox"/> | FY-Standard Plans (Next Release) |

Contact the Roadway Design Office for assistance in completing this form

NEW SHEET
GENERAL NOTES AND OVERVIEW

NEW SHEET

DIMENSIONAL, REINFORCEMENT, AND GRATE DETAILS



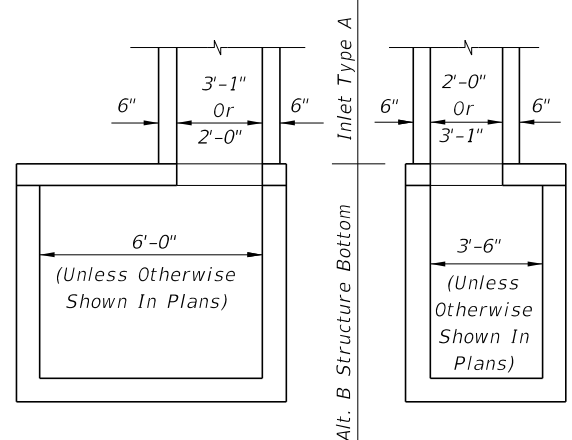
SECTION DD

RECOMMENDED MAXIMUM PIPE SIZES

Inlet Inside Width	Pipe Size
3'-1"	9"
	14"
	18" Where An 18" pipe Enters A 2'-0" Wall

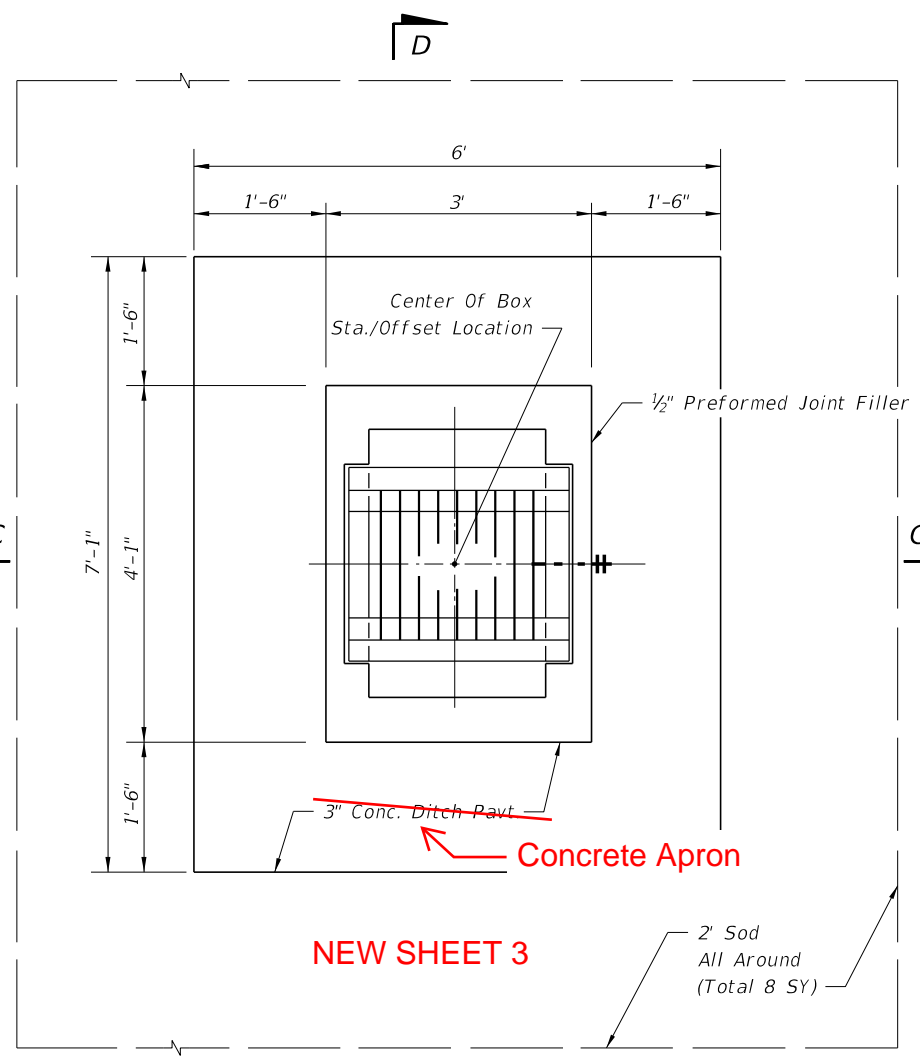
Note: Recommended sizes are for concrete pipe. Sizes for other types of pipe must be verified for fit in accordance with Index 425-001. For larger pipe see bottom detail right and Index 425-010.

DELETED INFO IN 425-010

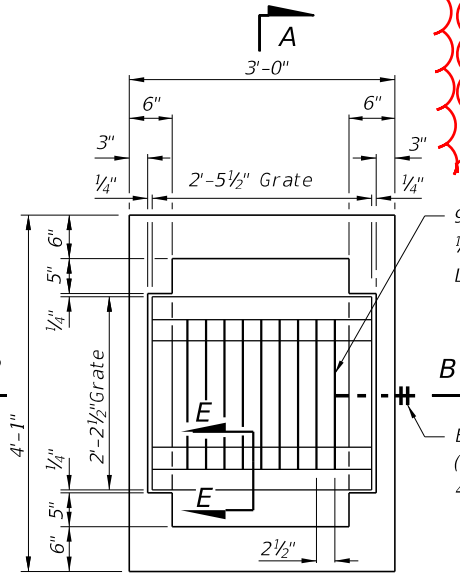


NOTE: Alt. B Structure Bottom Only. See Index 425-010 for Structure Bottom Details And Hole Reinforcement.

INLET WITH STRUCTURE BOTTOM

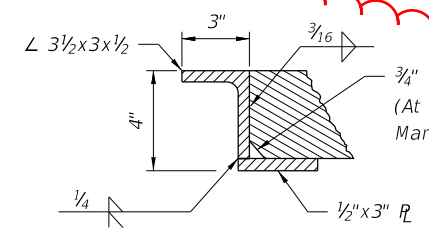


NEW SHEET 3

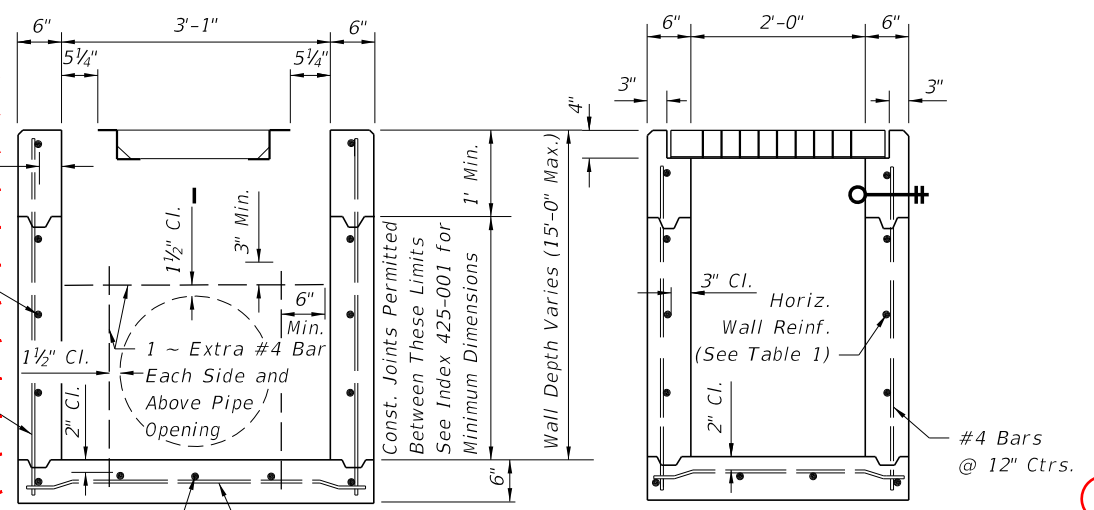


PLAN

MOVED TO SHEET 2



SECTION EE



(Pipe Opening Shown) SECTION AA

(Pipe Opening Not Shown) SECTION BB

SHEET 1 Notes Updated

GENERAL NOTES

- This inlet is designed for ditches, medians, or other area subject to heavy wheel loads on limited access facilities where debris may be a problem. This inlet is not for use in areas subject to pedestrian and/or bicycle traffic. **SPI**
- All reinforcing is Grade 60 bars with 2" min. cover unless otherwise noted. Cut or bend bars out of way of pipe to clear pipe by 1 1/2". See Index 425-001 for equivalent area of welded wire fabric.
- All exposed edges and corners shall be 3/4" chamfer or tooled to 1/4" radius.
- When alternate "G" grate is specified in plans, the grate is to be hot-dip galvanized after fabrication.
- Cost of ditch paving to be included in the cost of Inlet. Sodding to be paid for under contract unit price for Performance Turf, SY. **SPI/Spec**
- For supplemental details see Index 425-001.
- All dimensions are for both precast and cast-in-place inlets unless otherwise noted.
- Inlet to be paid for under the contract unit price for inlets (Dt Bot Type A), EA. **SPI/Spec**

HORIZONTAL WALL REINFORCING SCHEDULE (TABLE 1)

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

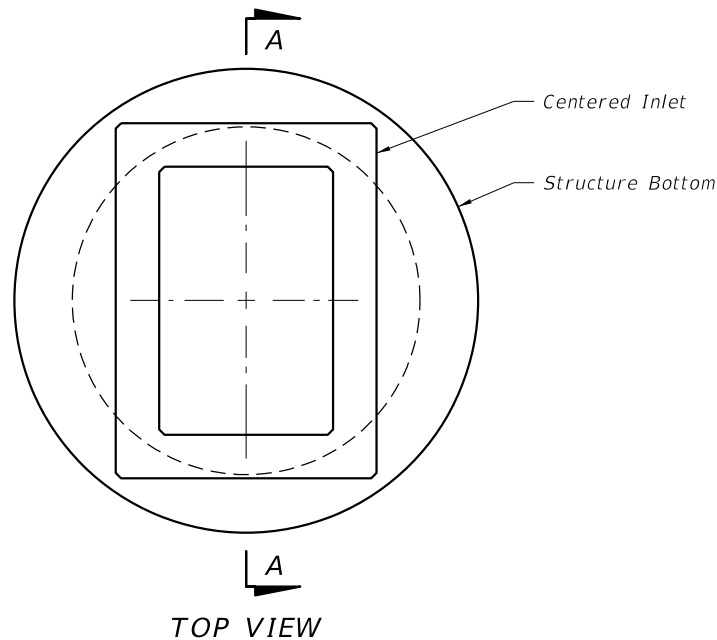
9/18/2018 2:46:31 PM

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

FDOT
FY 2019-20
STANDARD PLANS

DITCH BOTTOM INLET TYPE A

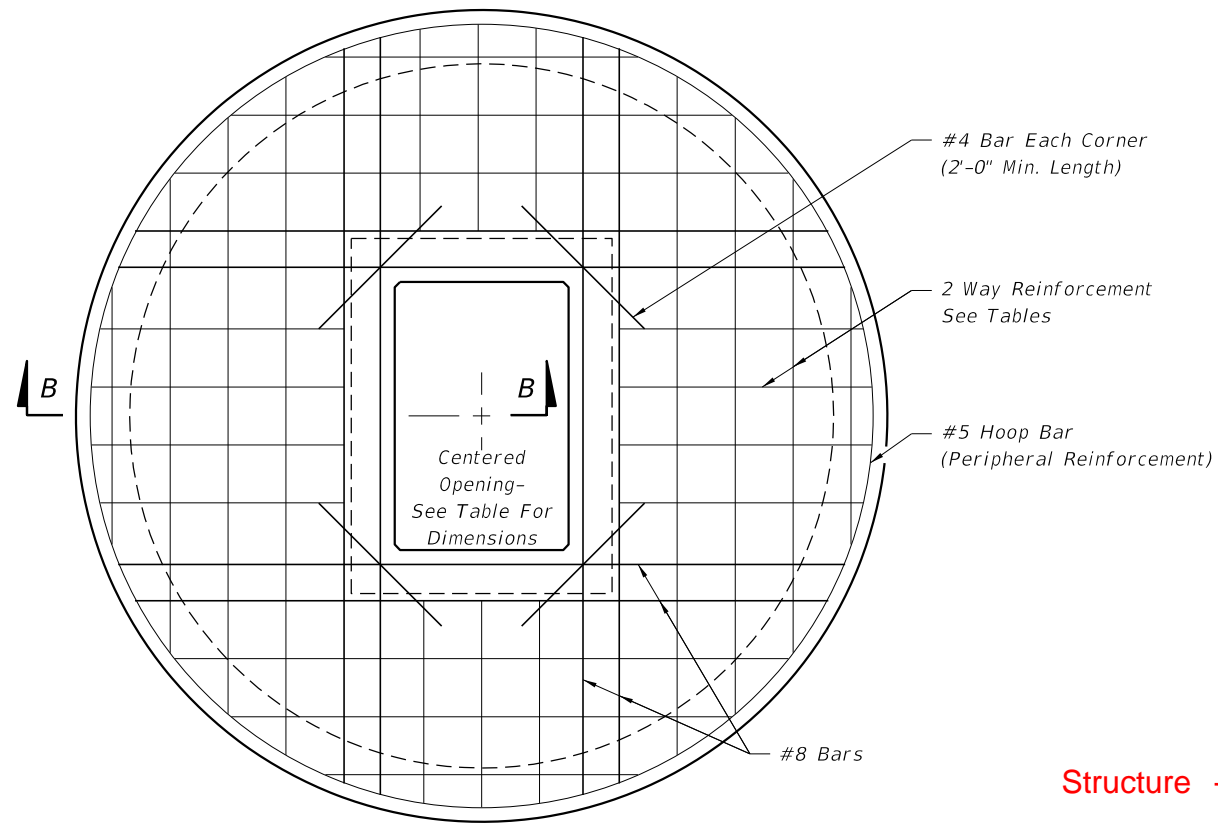
Renumbered 3 of 4
INDEX 425-050 SHEET 1 of 2



TOP VIEW

TABLE 2

TOP SLAB OPENINGS	
DIAMETER	OPENING SIZE
	MIN.
4'-0" To 8'-0"	2'-0" x 3'-1"



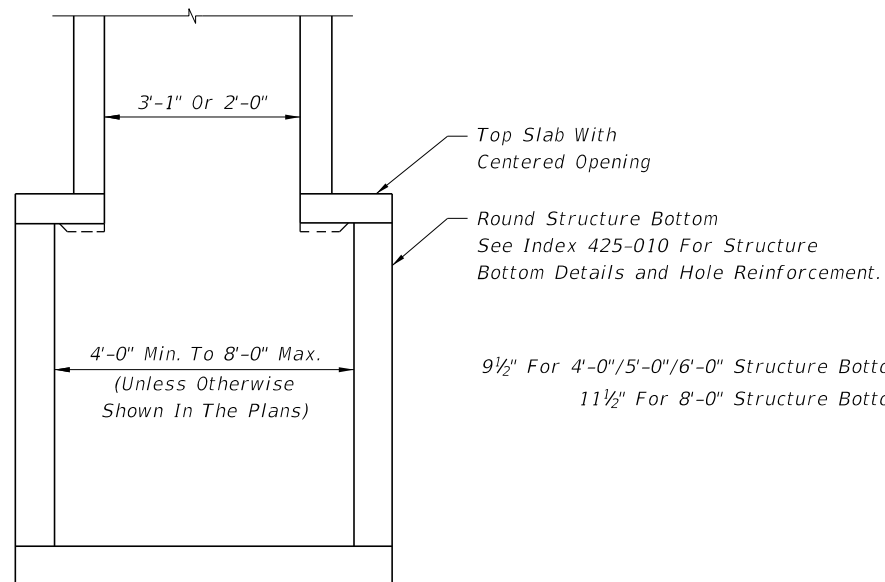
TOP SLAB REINFORCING DIAGRAM

TABLE 3

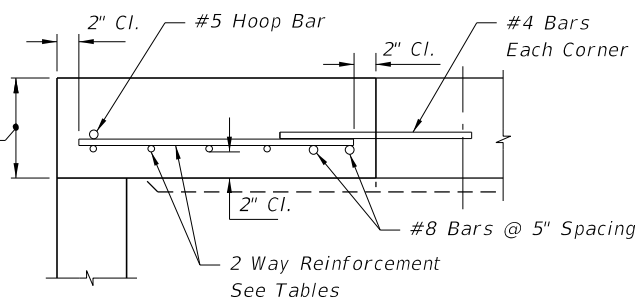
TOP SLAB REINFORCING SCHEDULE	
SCHEDULE	GRADE 60 (BAR) OR 65 KSI & 70 KSI (WIRE FABRIC) In. ² /ft.
A	0.20
B	0.24
C	0.37
D	0.53
E	0.73
F	1.06
G	1.45

TABLE 3

TOP SLAB WITH CENTERED OPENING		
SLAB DEPTH	SLAB THICKNESS	REINFORCING (2 WAYS) SCHEDULE
SIZE: 4'-0"		
≥0.5'-40'	9½"	C
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



SECTION BB

Structure →

Added Ref. Note to see Index 425-010

11/01/20

ALT. A STRUCTURE BOTTOM FOR INLET TYPE A

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LAST REVISION	DESCRIPTION:
11/01/17	



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STANDARD PLANS

DITCH BOTTOM INLET TYPE A

RENUMBERED 4 of 4

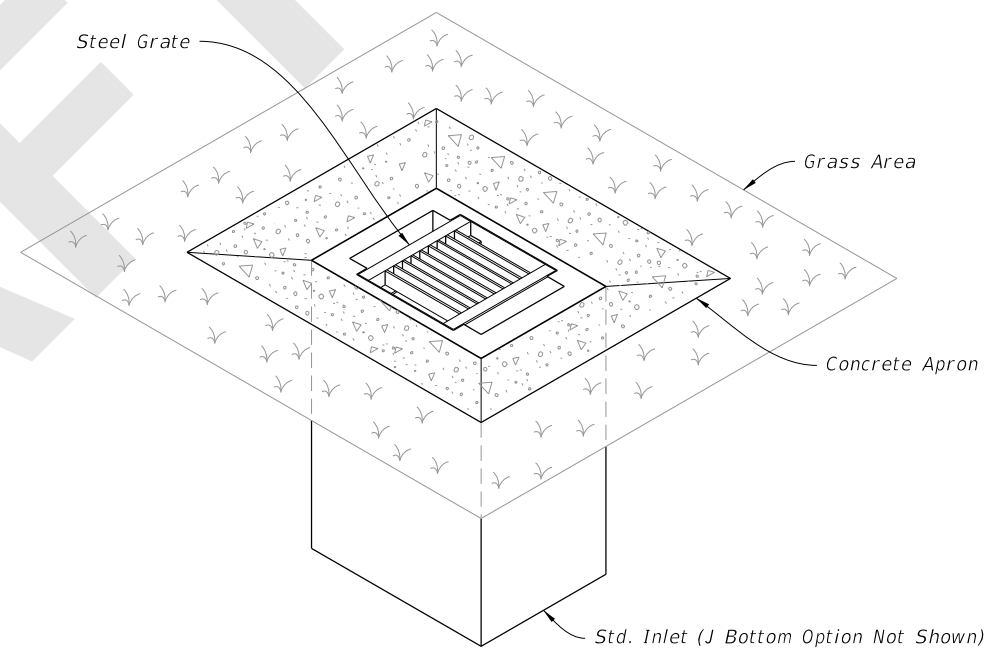
INDEX
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2 of 2

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. Cut or bend bars out of way of pipe to clear pipe by 1½". See Index 425-001 for equivalent area of welded wire fabric.
2. Chamfer all exposed edges and corners ¾" or tooled to ¼" radius.
4. All dimensions are for both precast and cast-in-place inlets unless otherwise noted.
5. Quantities are for informational and estimating purposes only.

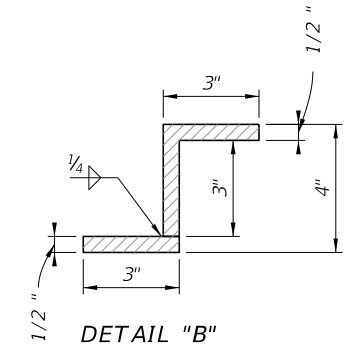
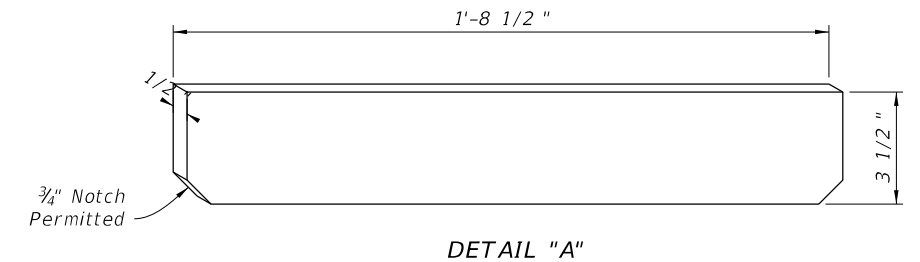
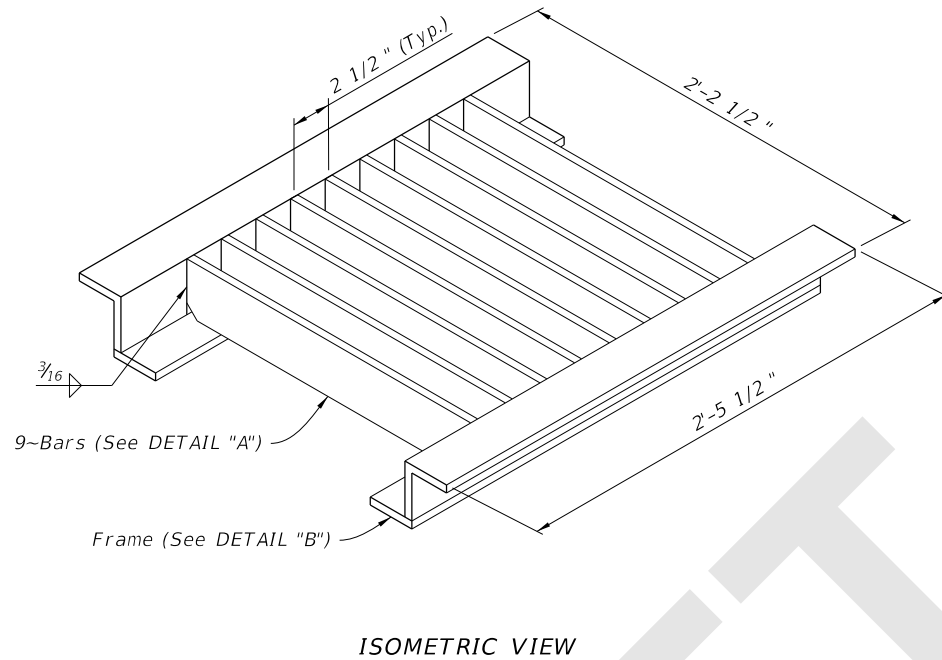
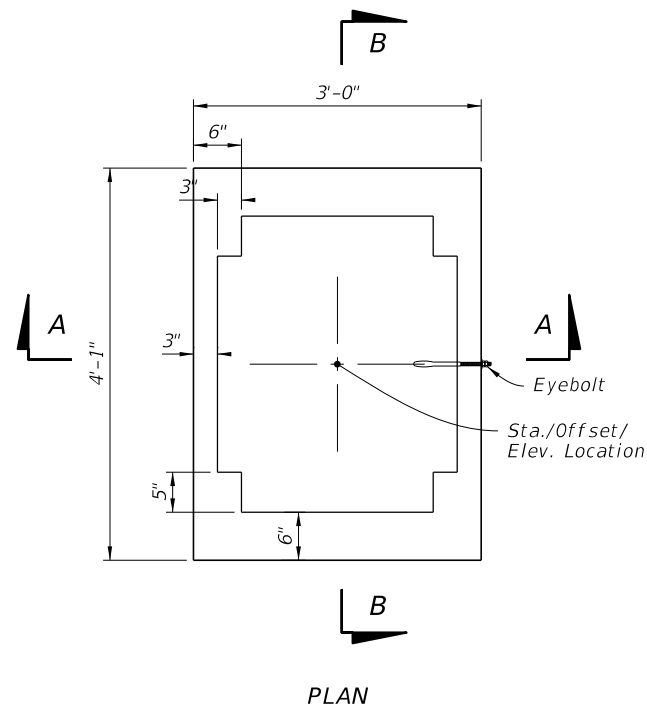
TABLE OF CONTENTS:	
Sheet	Description
1	General Notes and Contents
2	Dimensional, Reinforcement, and Steel Grate Details
3	Concrete Apron and Sodded Area Details
4	Alternate A Structure Bottom - Top Slab Details



DITCH BOTTOM INLET TYPE A

(Pipe Opening Not Shown)

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STEEL GRATE DETAILS

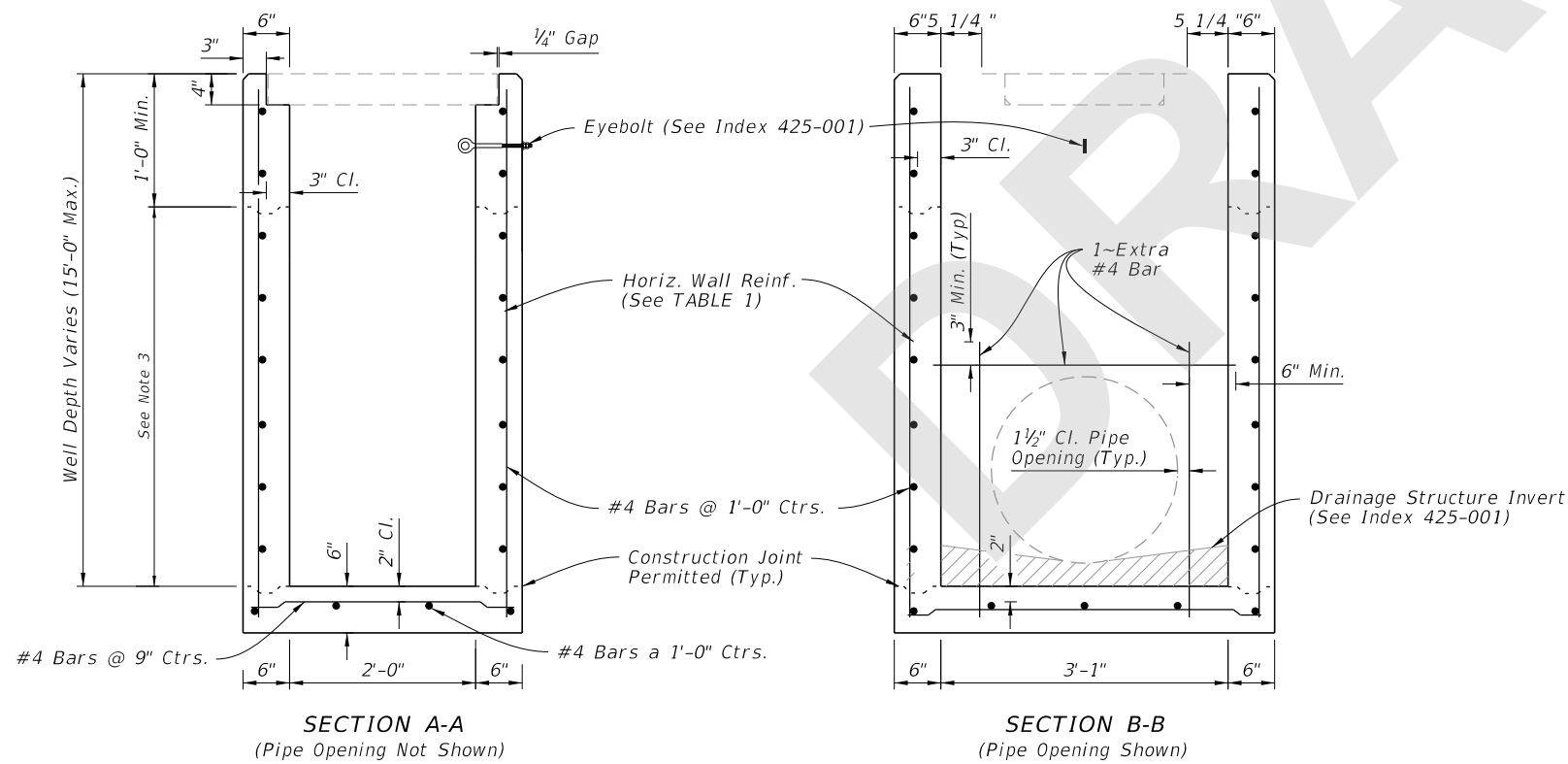


TABLE 1
HORIZONTAL WALL REINFORCING SCHEDULE

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

NOTES:

1. Plan View: The Steel Grate, Concrete Ditch Pavement, and Sod are not shown.
2. See Sheet 3 for Concrete Ditch Pavement and Sodded Area details.
3. Construction joints permitted between these limits. See Index 425-001 for minimum dimensions.

DIMENSIONAL AND REINFORCEMENT DETAILS

DIMENSIONAL, REINFORCEMENT, AND STEEL GRATE DETAILS

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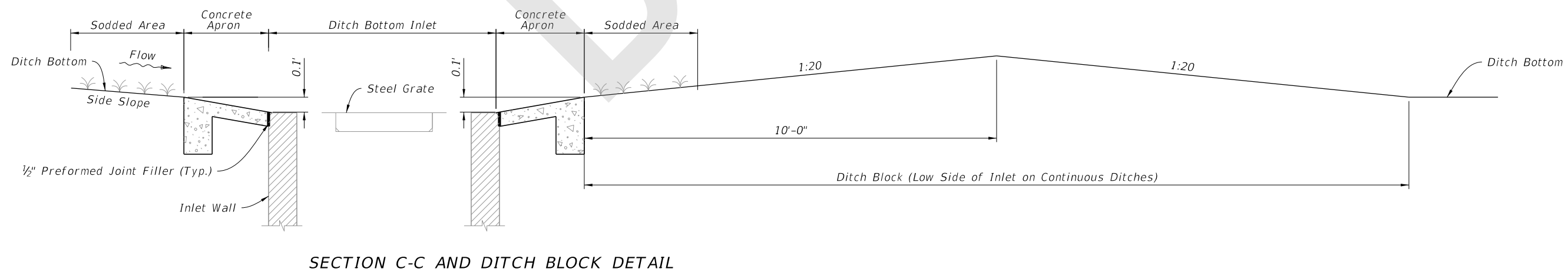
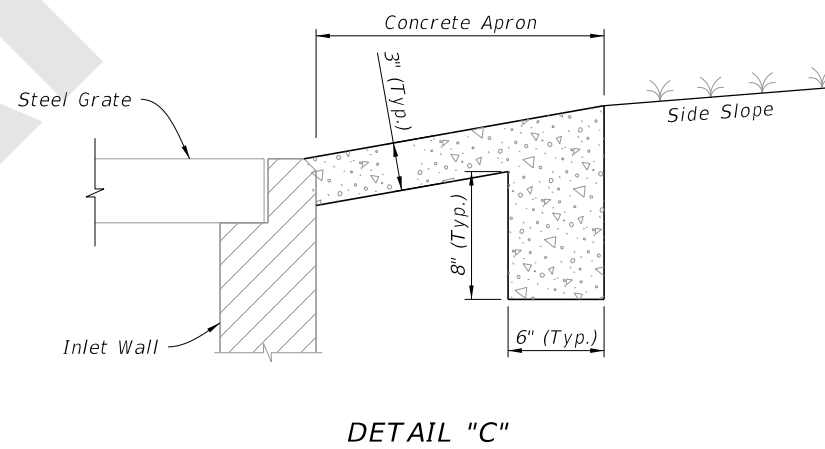
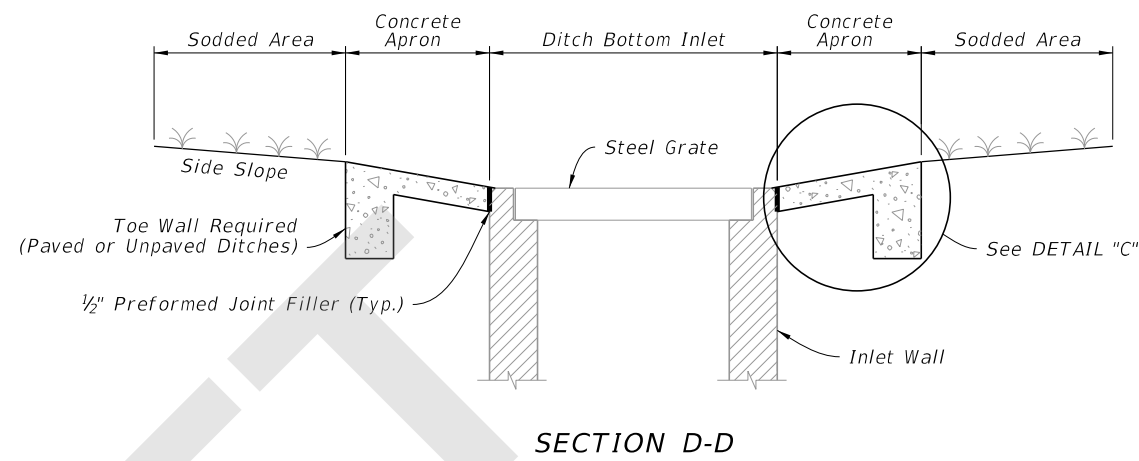
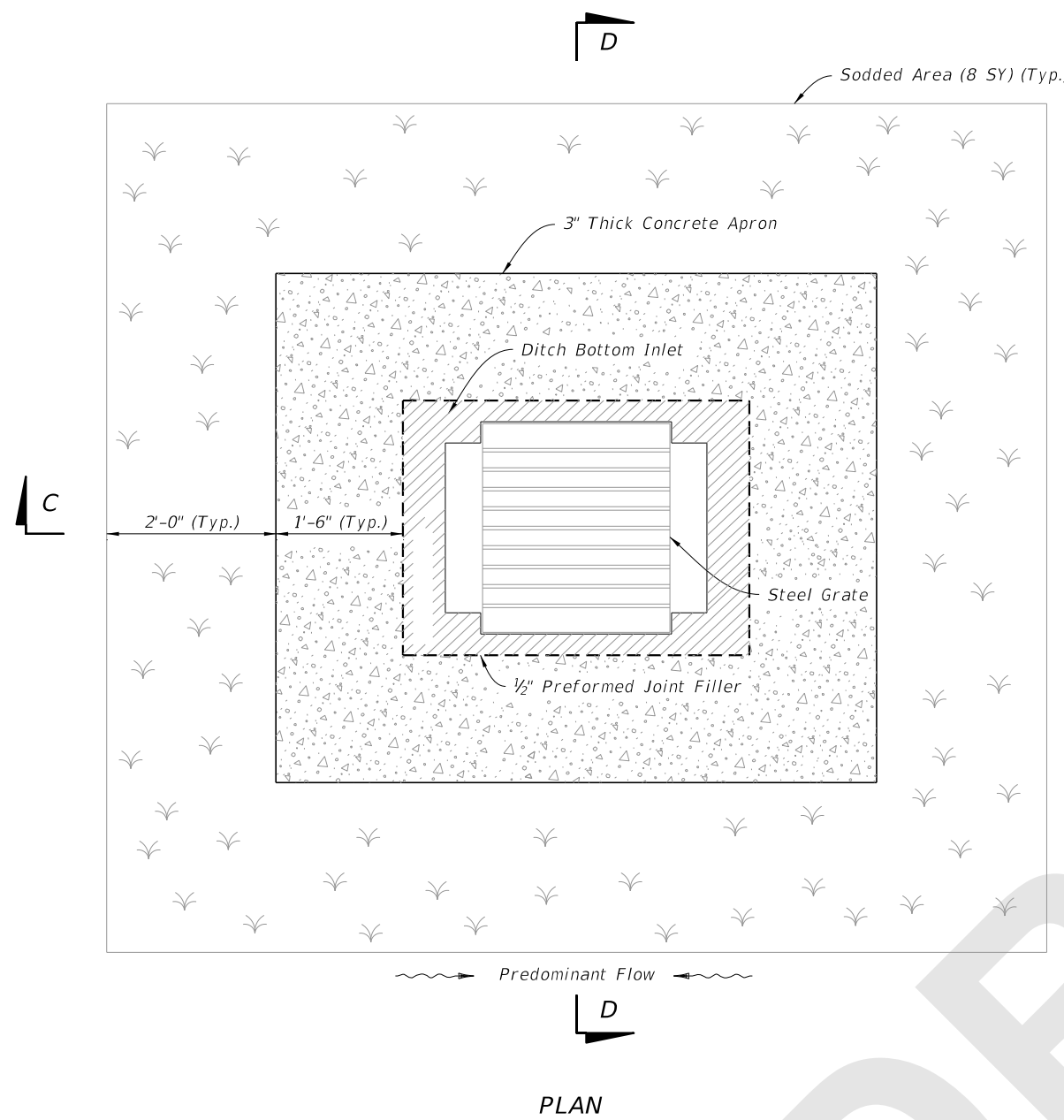


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DITCH BOTTOM INLET TYPE A

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CONCRETE APRON AND SODDED AREA DETAILS

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LAST REVISION 11/01/20	DESCRIPTION:
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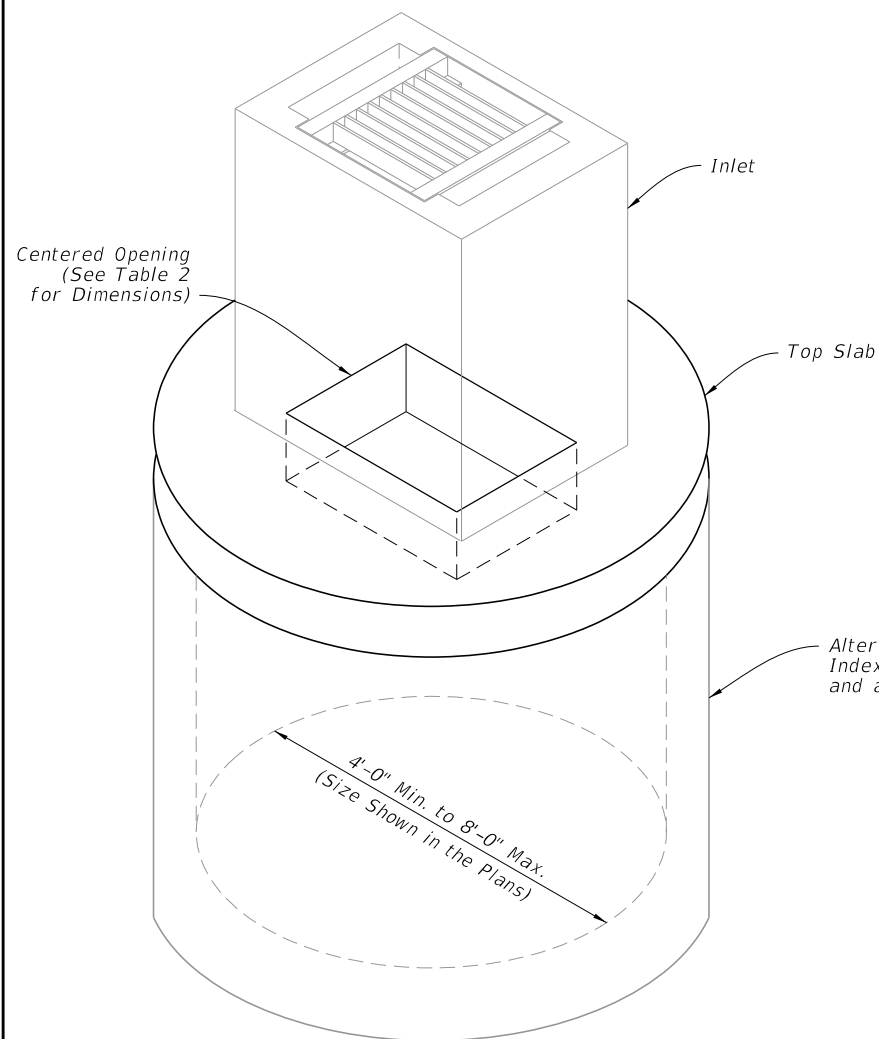


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DITCH BOTTOM INLET TYPE A

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Centered Opening
(See Table 2
for Dimensions)

Inlet

Top Slab

Alternate A Structure Bottom (See
Index 425-010 for Alternate B
and additional details)

4'-0" Min. to 8'-0" Max.
(Size Shown in the Plans)

BOTTOM STRUCTURE DIAMETER	OPENING SIZE	
	Min.	Max.
4'-0" to 8'-0"	2'-0" x 3'-1"	--

2 Way Reinforcement
(See Tables 3 & 4)

E

E

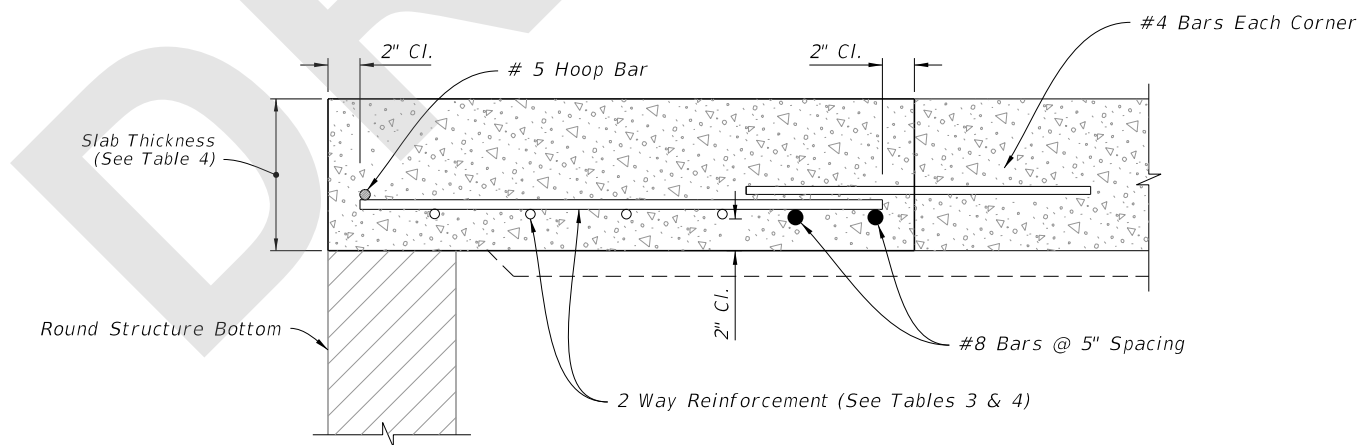
Centered Opening
(See Table 2
for Dimensions)

#4 Bar Each Corner
(2'-0" Min. Length)

#8 Bars

#5 Hoop Bar
(Peripheral Reinforcement)

PLAN



SECTION E-E

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

STRUCTURE DEPTH	SLAB THICKNESS	REINFORCING (2 WAY) SCHEDULE
SIZE: 4'-0"		
≥0.5'-40'	9½"	C
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

ISOMETRIC VIEW

TOP SLAB REINFORCEMENT DETAILS

ALTERNATE A STRUCTURE BOTTOM - TOP SLAB DETAILS

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LAST REVISION	DESCRIPTION:
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DITCH BOTTOM INLET TYPE A

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