
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

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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:

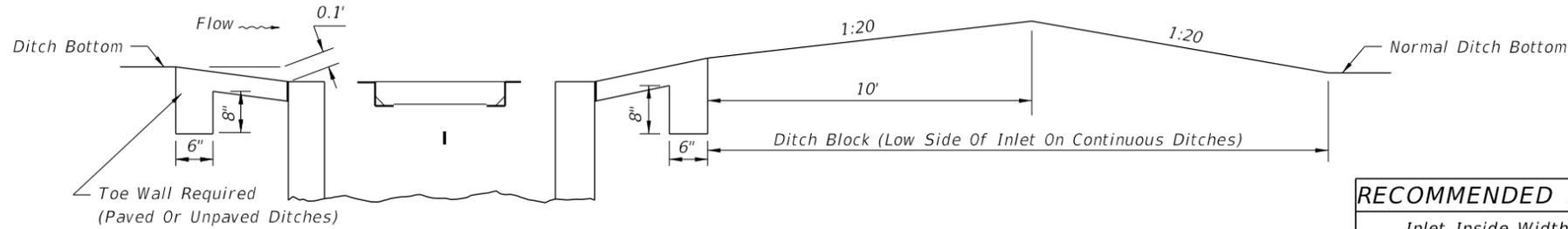
(Email or hand deliver package to Rick Jenkins)

- | 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:

- | | |
|-------------------------------------|----------------------------------|
| <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

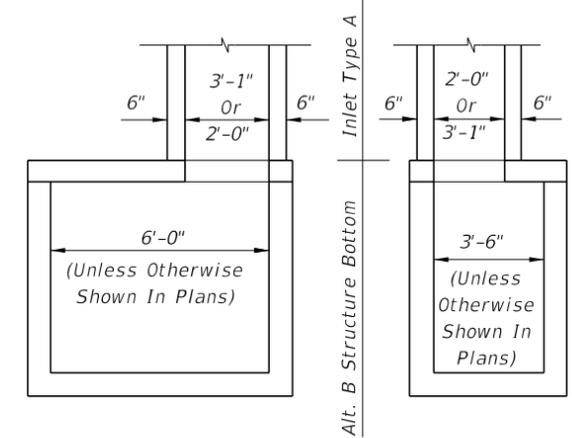


SECTION DD

RECOMMENDED MAXIMUM PIPE SIZES

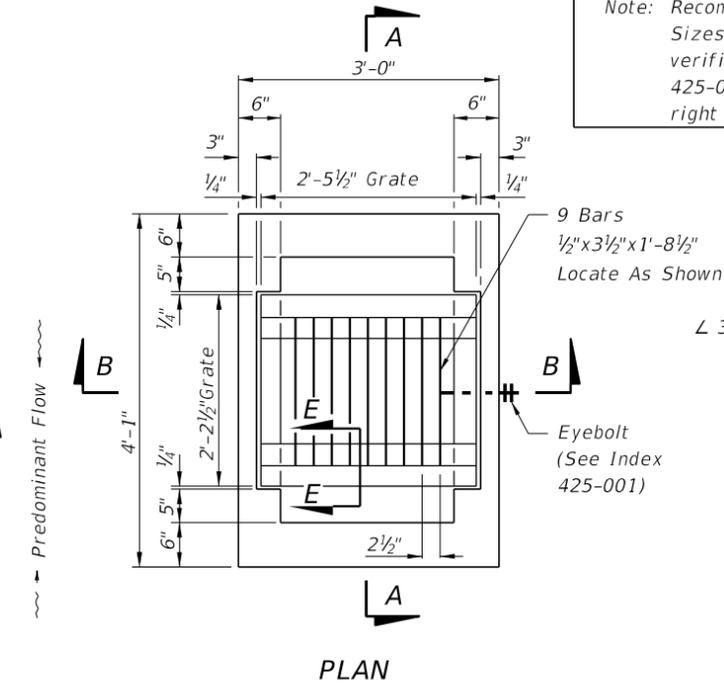
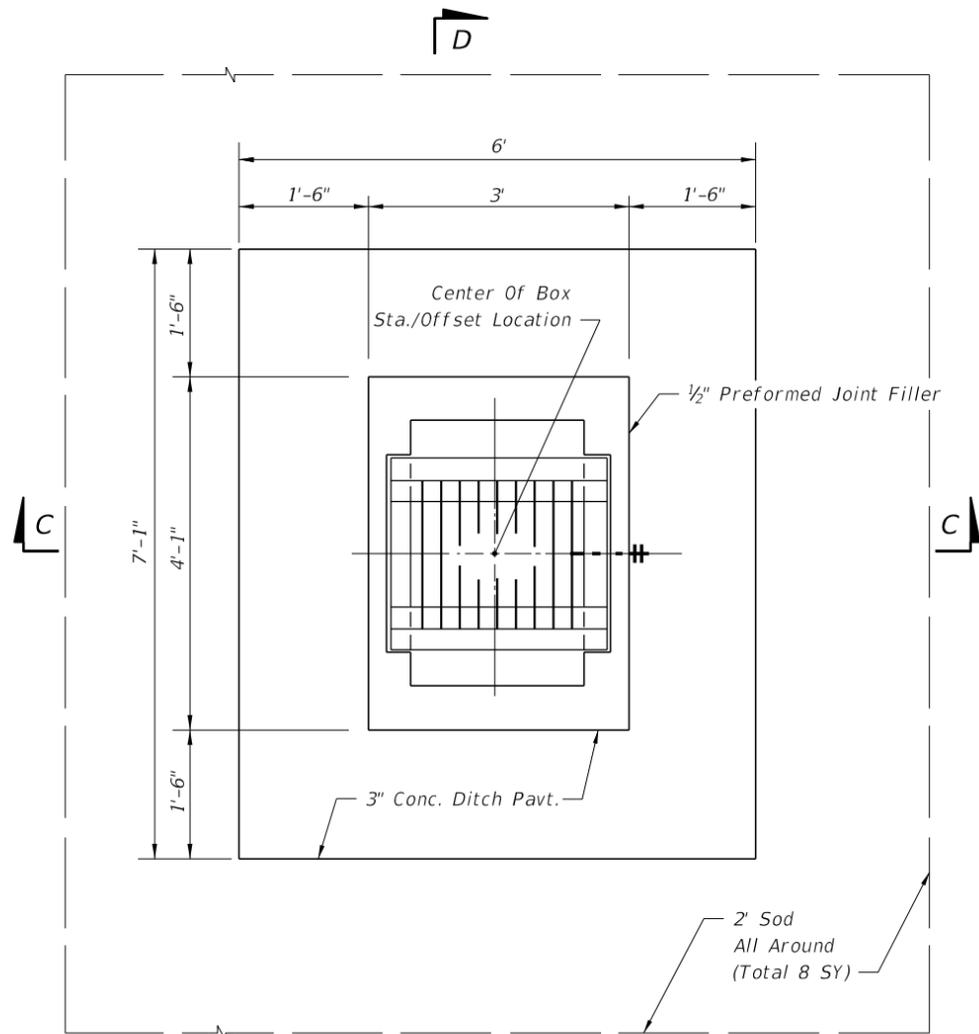
Inlet Inside Width	Pipe Size
2'-0"	18"
3'-1"	24" 18" Where An 18" pipe Enters A 2'-0" Wall

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.

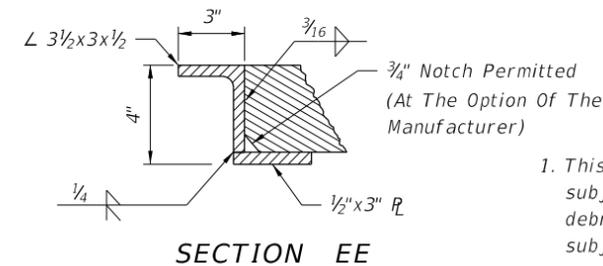


NOTE: Alt. B Structure Bottom Only. See Index 425-010 for Structure Bottom Details And Hole Reinforcement.

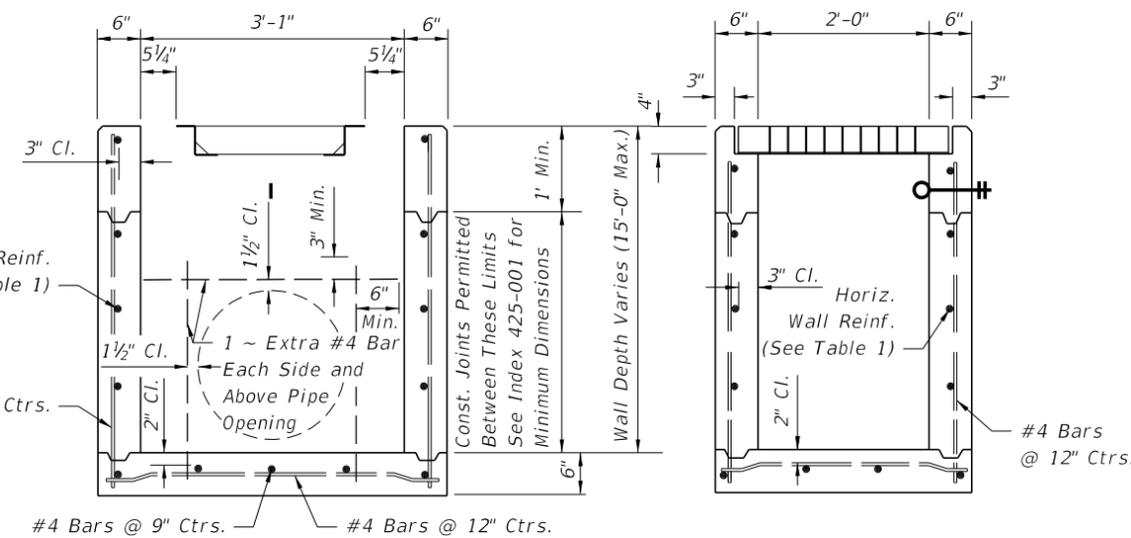
INLET WITH STRUCTURE BOTTOM



PLAN



SECTION EE



(Pipe Opening Shown) SECTION AA

(Pipe Opening Not Shown) SECTION BB

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.
- 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.
- 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.

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"

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LAST REVISION	DESCRIPTION:
11/01/17	

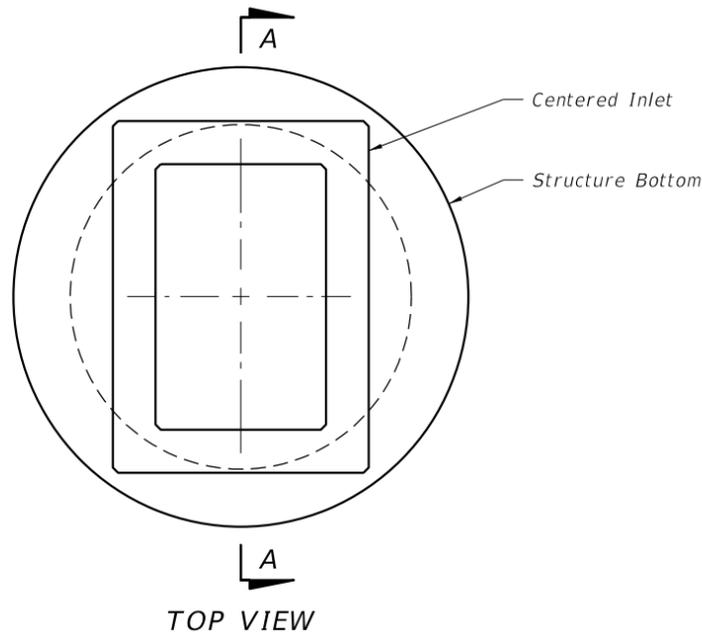


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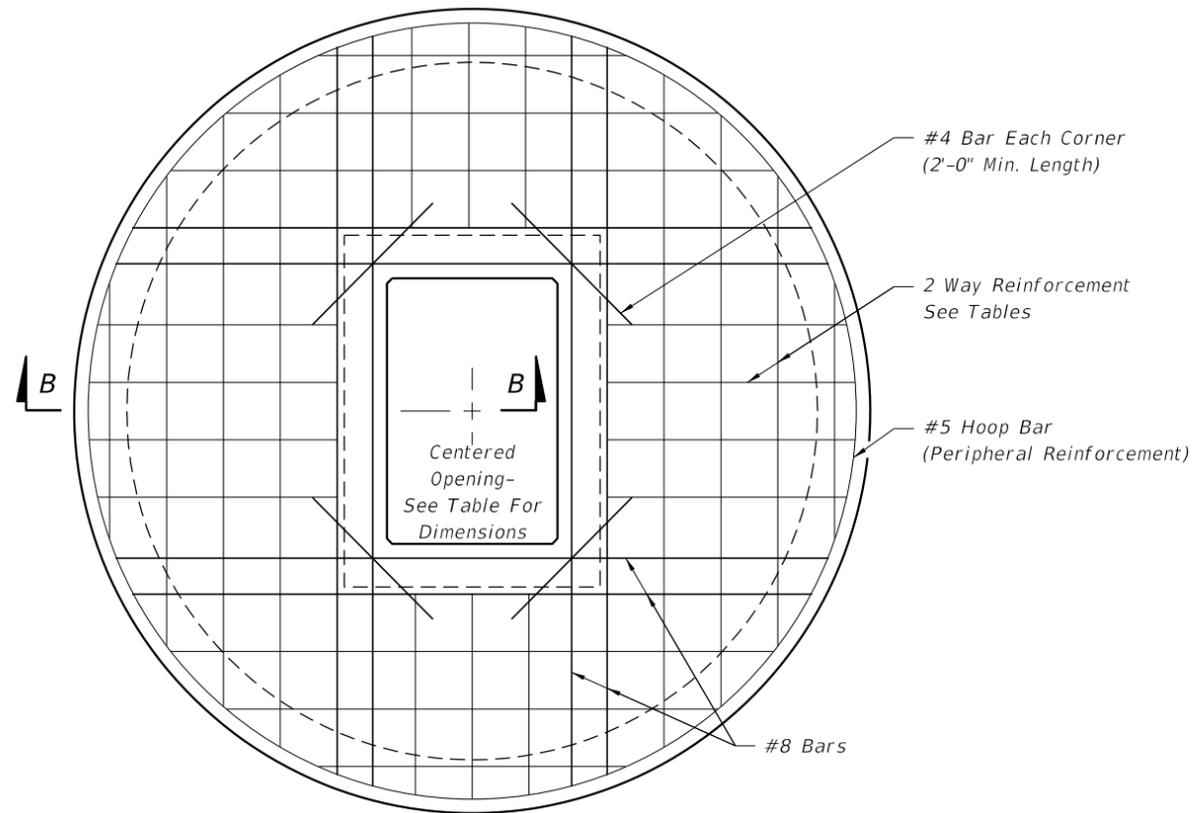
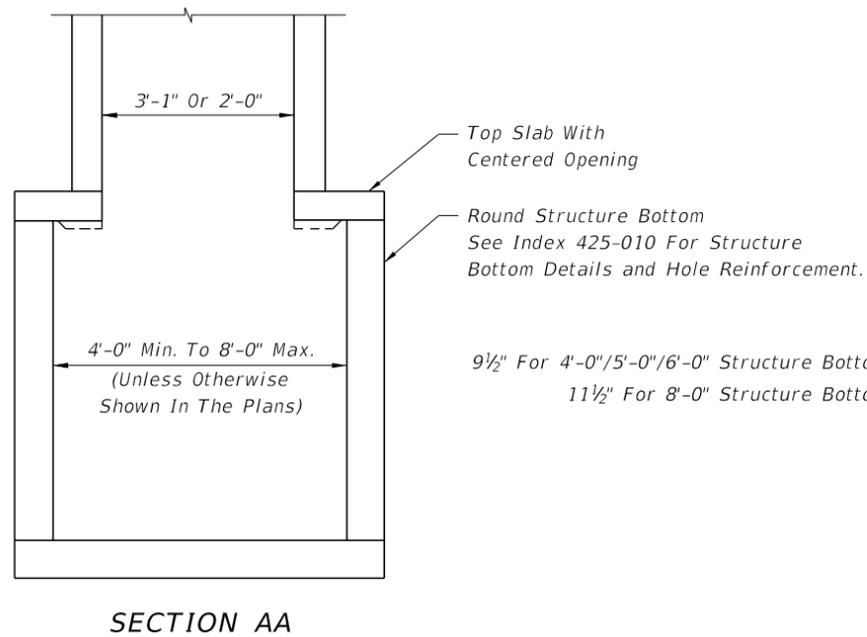
DITCH BOTTOM INLET TYPE A

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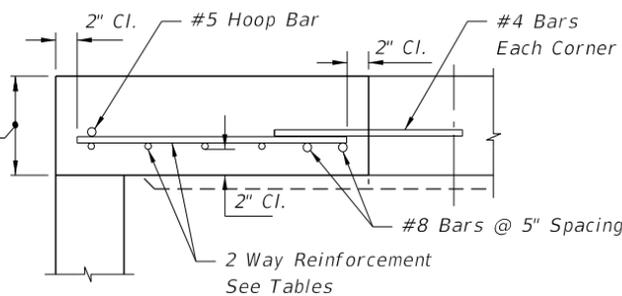
TOP SLAB OPENINGS	
DIAMETER	OPENING SIZE
	MIN.
4'-0" To 8'-0"	2'-0" x 3'-1"



TOP SLAB REINFORCING DIAGRAM

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

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 BB

ALT. A STRUCTURE BOTTOM FOR INLET TYPE A

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LAST REVISION 11/01/17	DESCRIPTION:
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DITCH BOTTOM INLET TYPE A

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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.

DRAFT
INTERNAL REVIEW
1

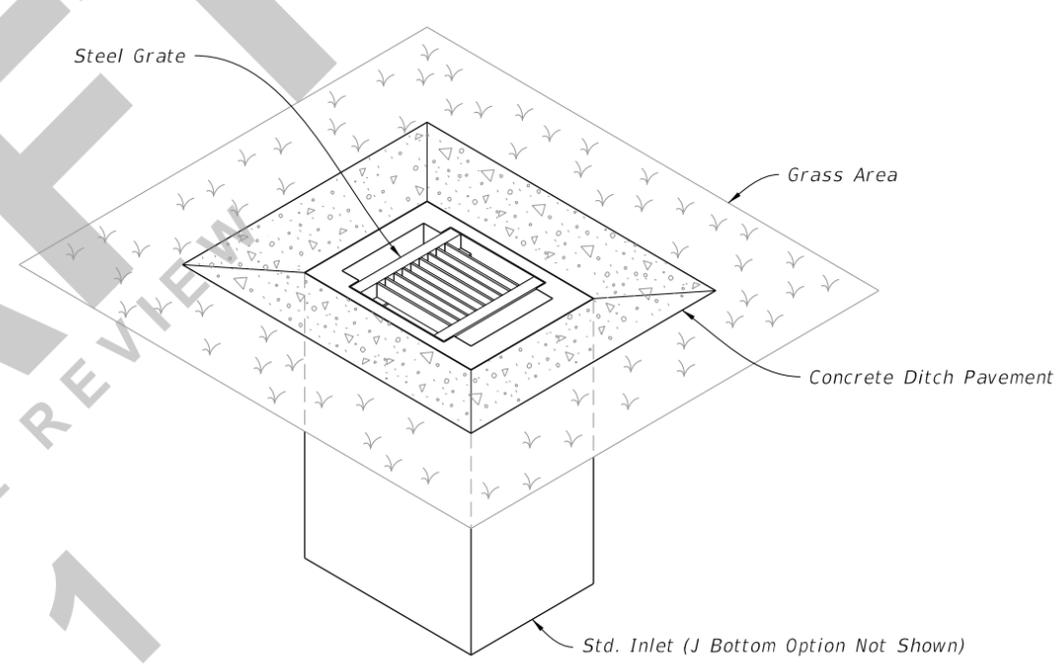
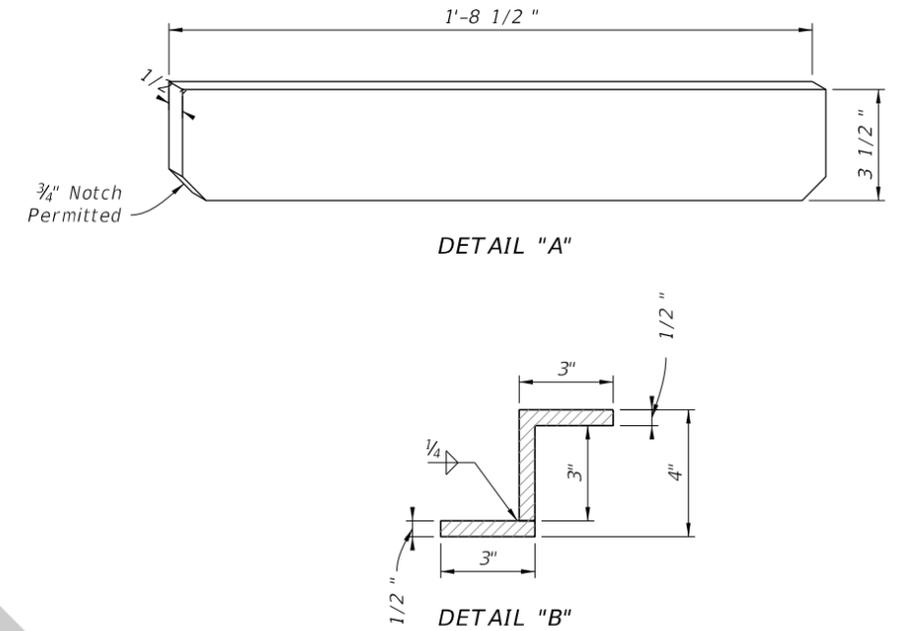
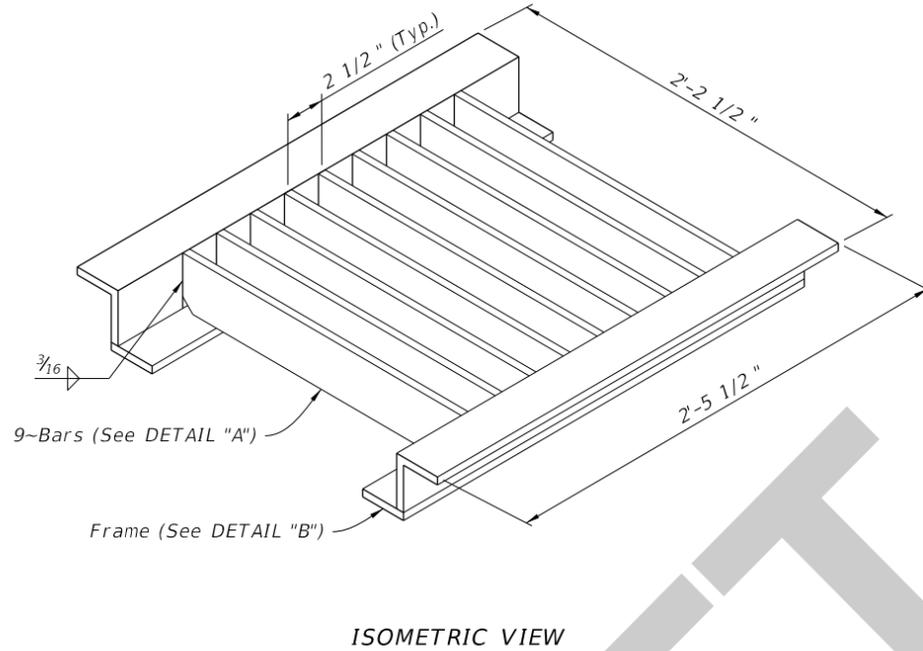
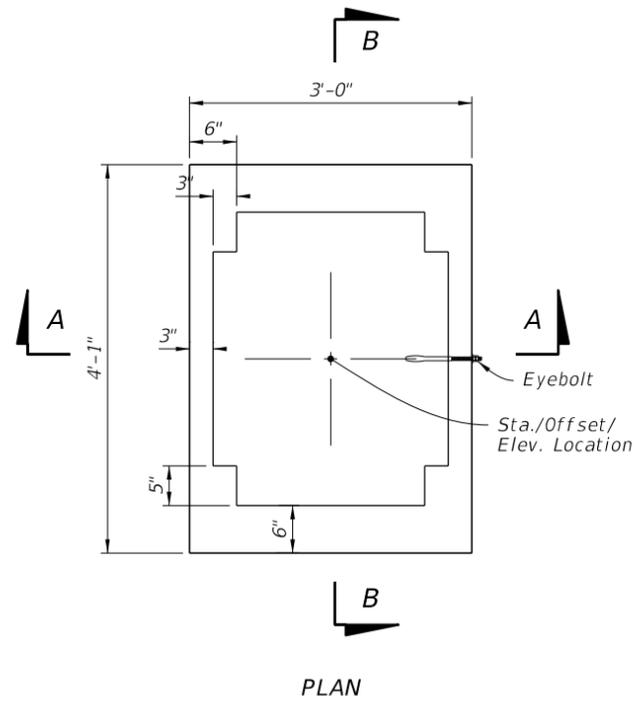


TABLE OF CONTENTS:	
Sheet	Description
1	General Notes and Contents
2	Dimensional, Reinforcement, and Steel Grate Details
3	Concrete Ditch Pavement and Sodded Area Details
4	Alternate A Structure Bottom - Top Slab Details

===== DITCH BOTTOM INLET TYPE A =====
(Pipe Opening Not Shown)

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STEEL GRATE DETAILS

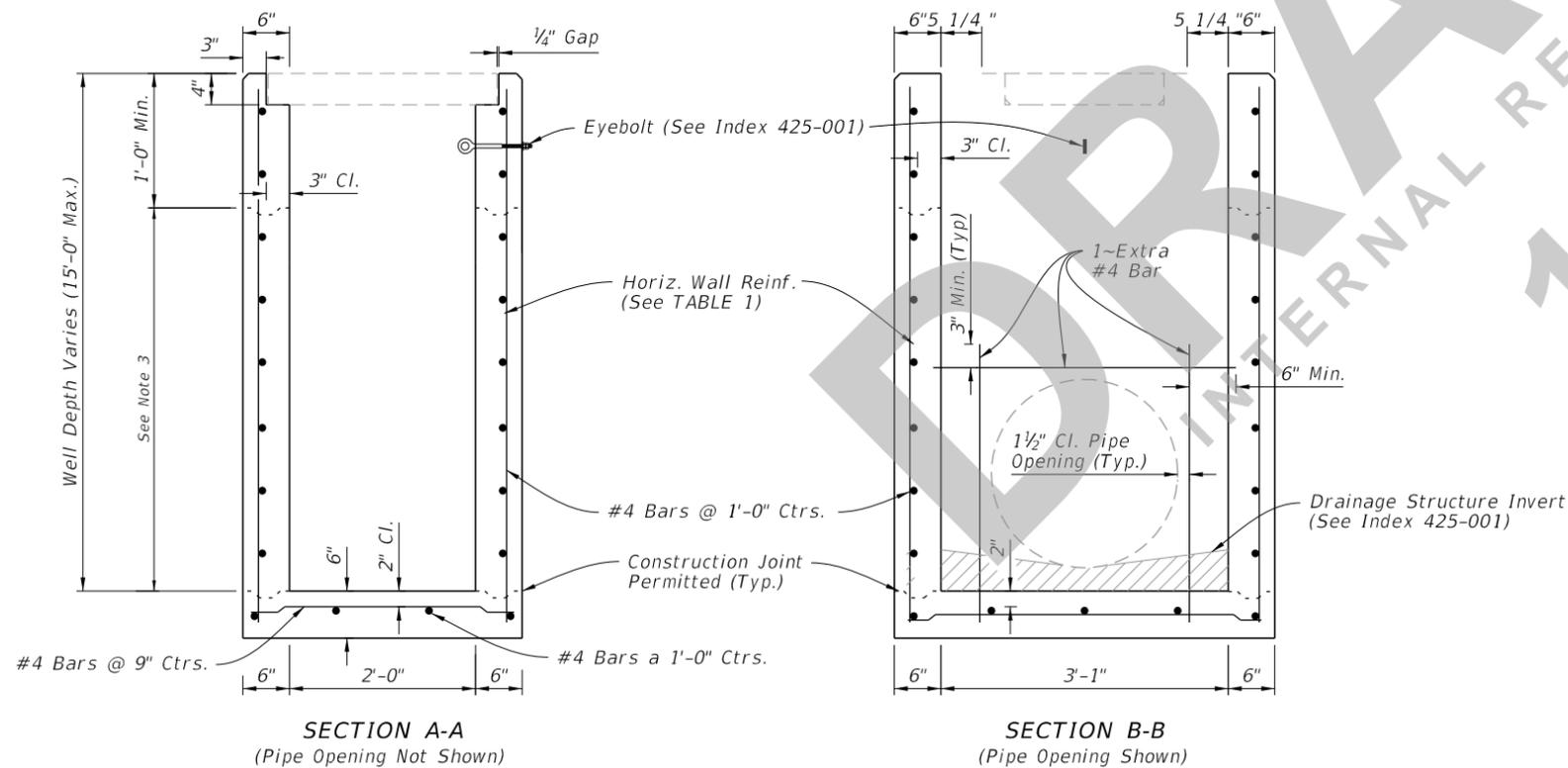


TABLE 1
HORIZONTAL WALL REINFORCING SCHEDULE

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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LAST REVISION	DESCRIPTION:
11/01/20	

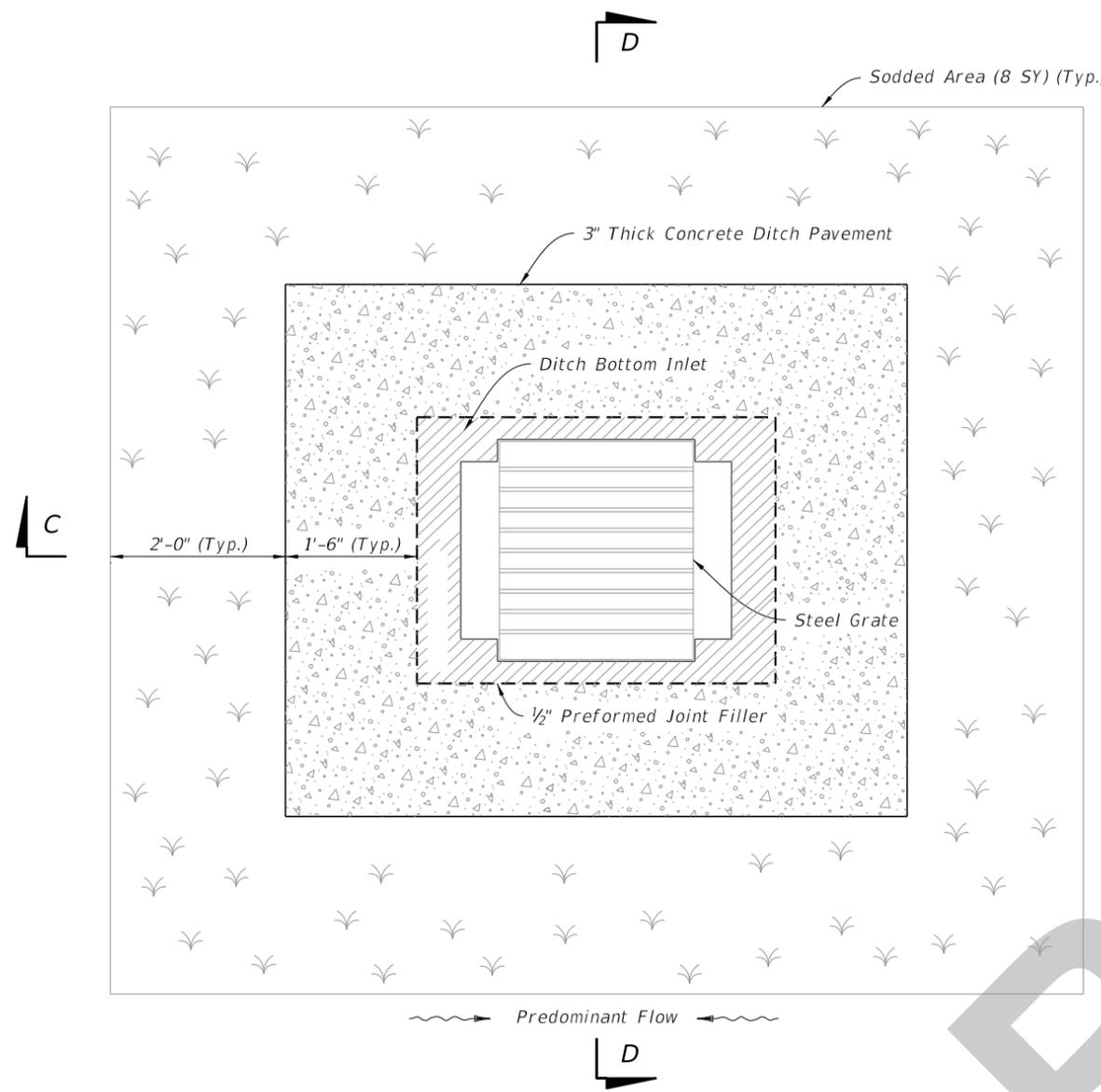


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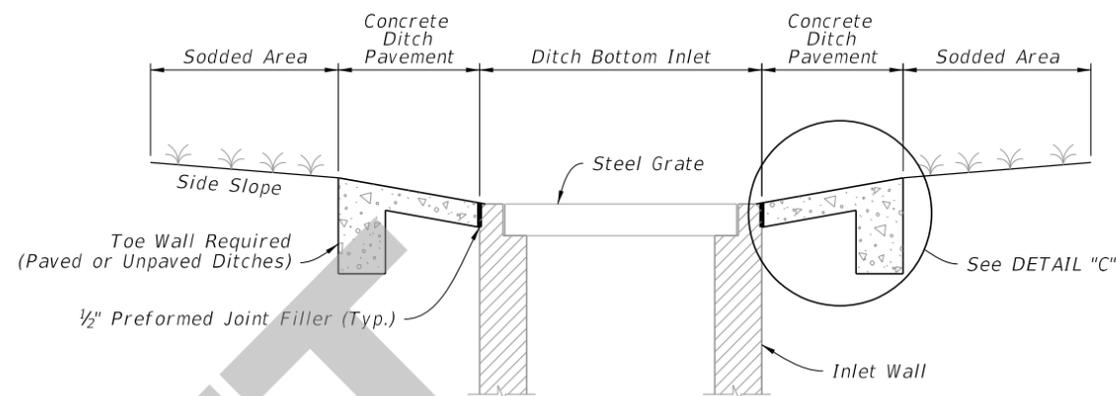
DITCH BOTTOM INLET TYPE A

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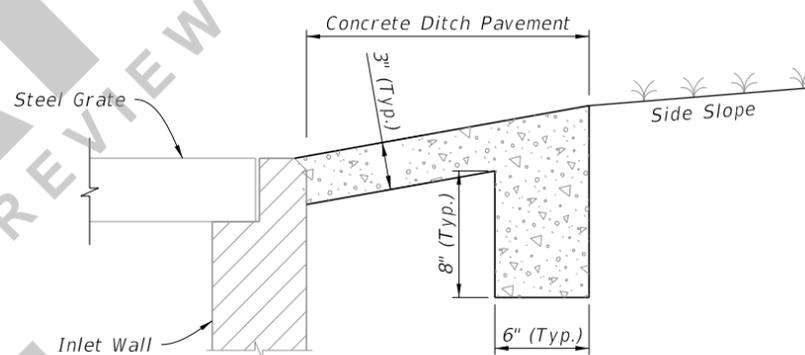
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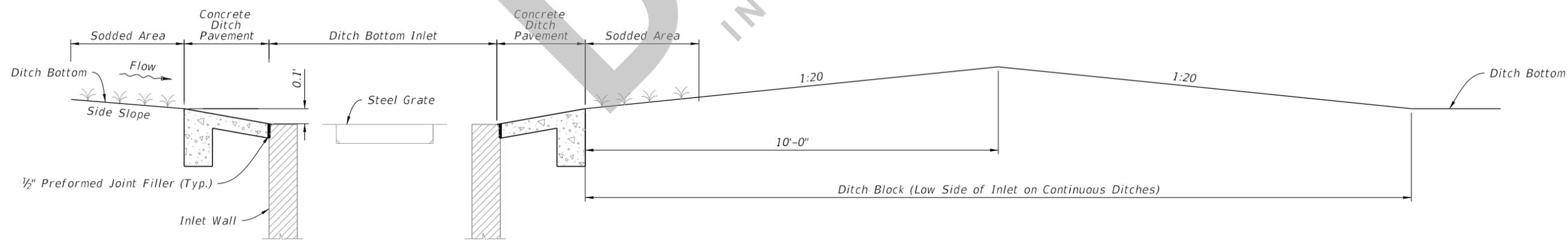
PLAN



SECTION D-D



DETAIL "C"



SECTION C-C AND DITCH BLOCK DETAIL

CONCRETE DITCH PAVEMENT AND SODDED AREA DETAILS

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LAST REVISION 11/01/20	DESCRIPTION:
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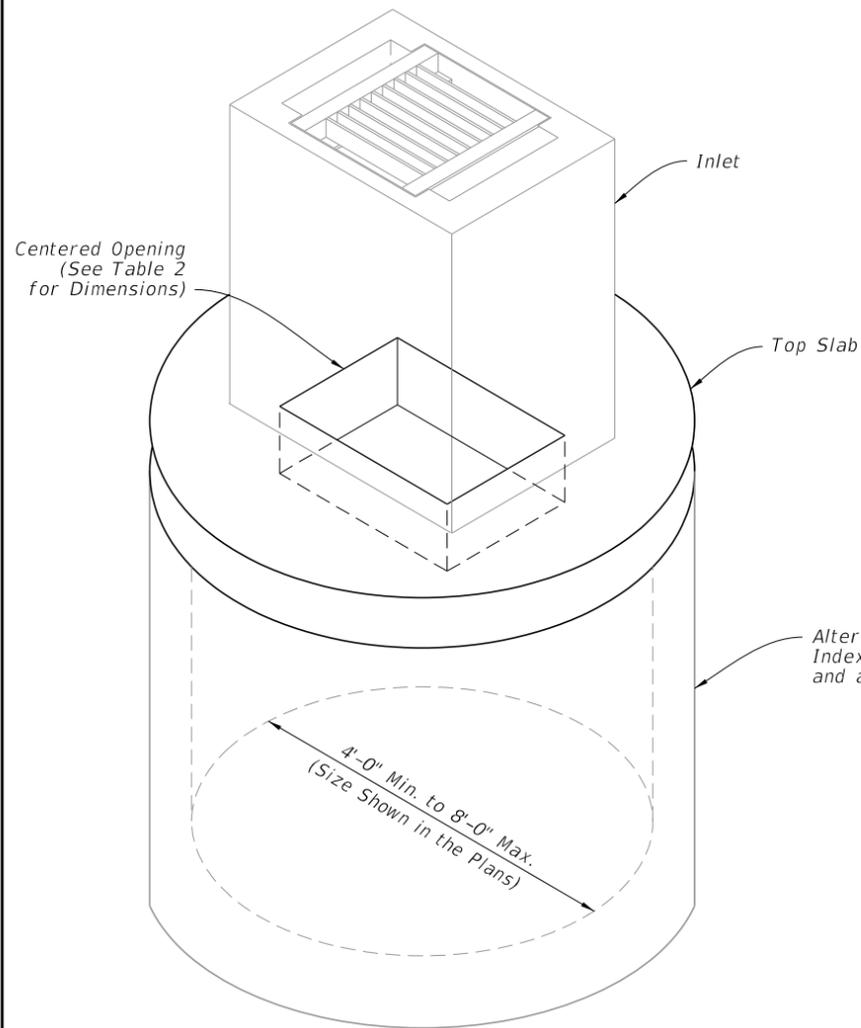


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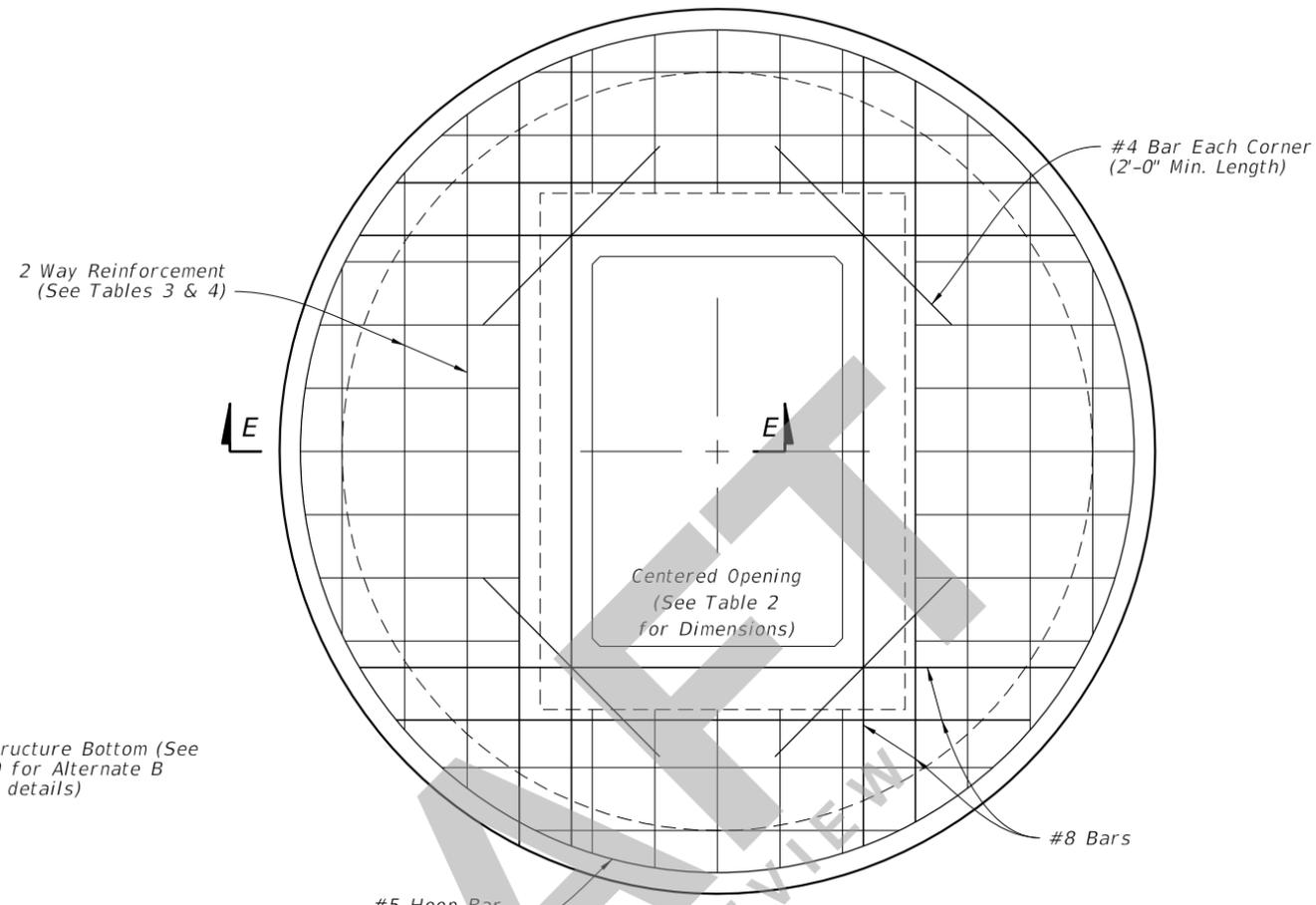
DITCH BOTTOM INLET TYPE A

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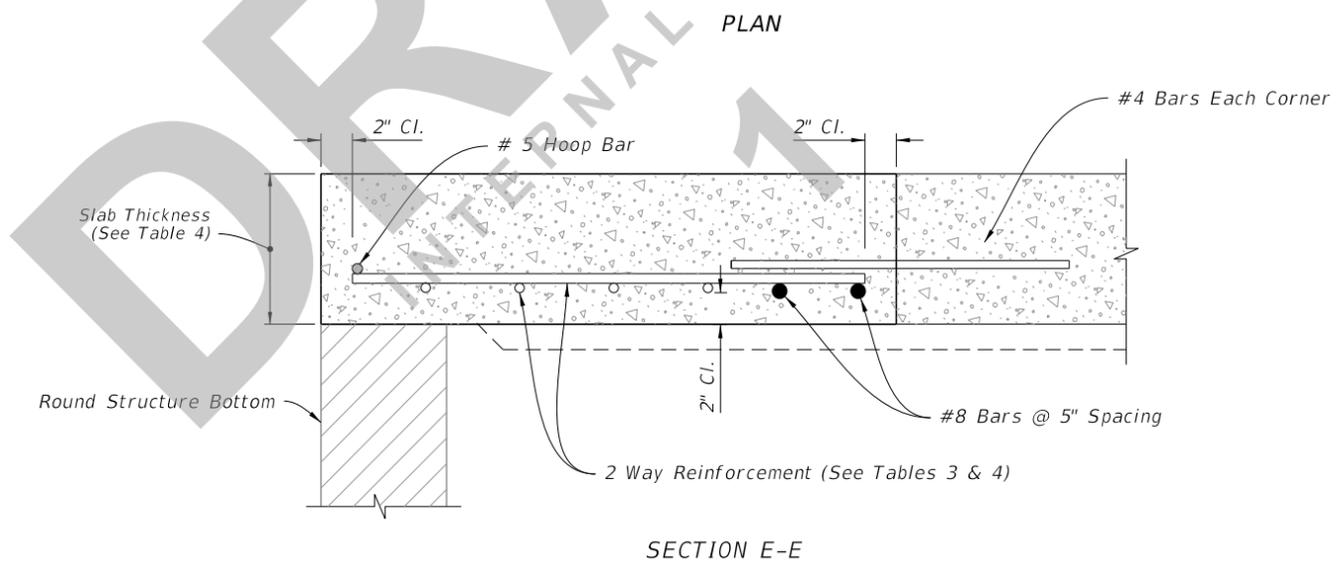


BOTTOM STRUCTURE DIAMETER	OPENING SIZE	
	Min.	Max.
4'-0" to 8'-0"	2'-0" x 3'-1"	--



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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STANDARD PLANS**

DITCH BOTTOM INLET TYPE A

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