
ORIGINATION FORM

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

Contact Information:

Date: January 27, 2020
Originator: Tim Holley
Phone: (850) 414-4117
Email: Tim.Holley@dot.state.fl.us

Standard Plans:

Index Number: 425-024
Sheet Number (s): ALL
Index Title: Curb Inlet Top Type 9

Summary of the changes:

Reorganized Index, Added additional Sheets.
Sheet 1: General Notes
Sheet 2: Frame and Grate Details
Sheet 3: Top Slab 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 notes 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:

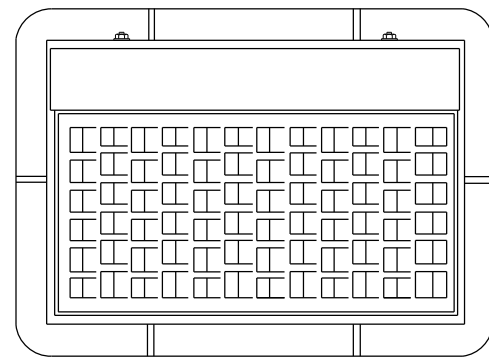
(Email or hand deliver package to Rick Jenkins)

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:

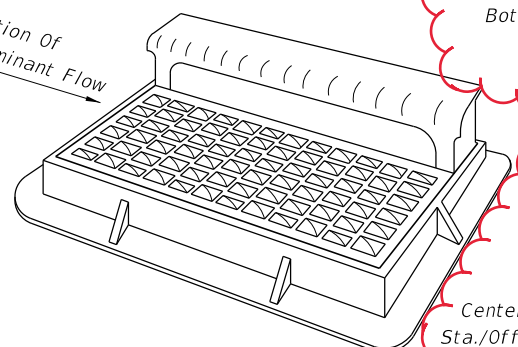
<input type="checkbox"/>	Design Bulletin (Interim)
<input type="checkbox"/>	DCE Memo
<input type="checkbox"/>	Program Mgmt. Bulletin
<input checked="" type="checkbox"/>	FY-Standard Plans (Next Release)

Contact the Roadway Design Office for assistance in completing this form



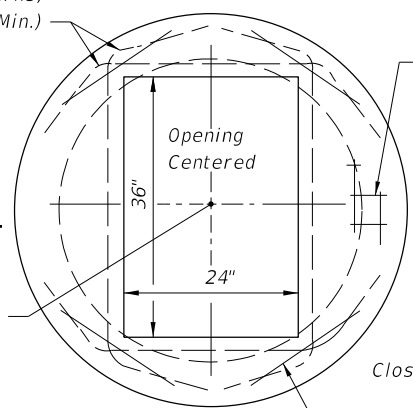
TOP VIEW

Face Of Curb
Direction Of Predominant Flow



#5 Bars Top #6 Bars Bottom 12" Returns, Each (Min.)

Center of Opening Sta./Offset Location



TOP VIEW

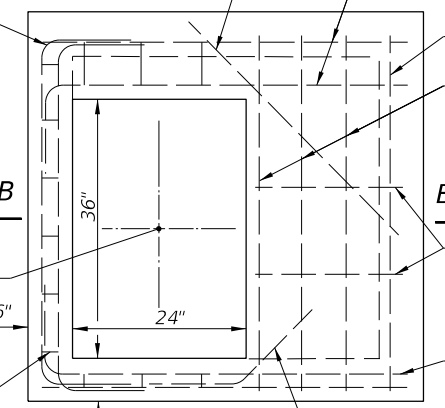
#4 Bars Continuous Or 12" Returns (Same Below)

4x4-W4.0xW4.0 Welded Wire Reinforcement, Bottom

Center of Opening Sta./Offset Location

Closed Stirrups 8" cc (Three Sides)

#5 Bar Top & Bottom, L=18"



TOP VIEW

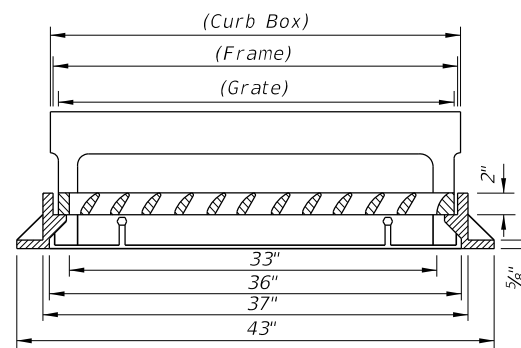
#4 Bar #4 Bars, 6" cc, Top & Bottom

#4 Bar #5 Bars, With Hooks, 6" cc, Bottom

#4 Bars, 12" cc Or 4x4-W4.0 x W4.0 Welded Wire Reinforcement 40" x 20"

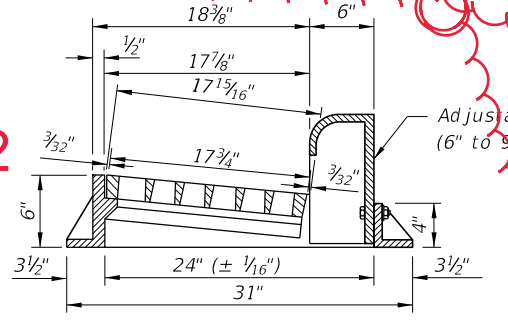
2 #4 Bars Top & Bottom #4 Bar (12" Legs)

SHEET 3



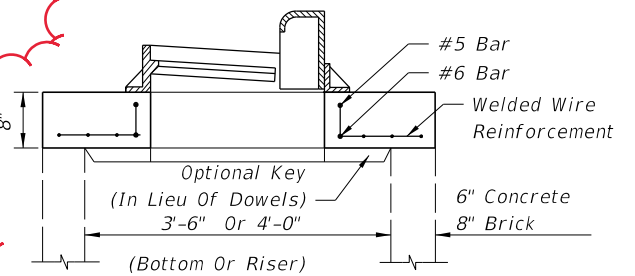
LONGITUDINAL SECTION

SHEET 2

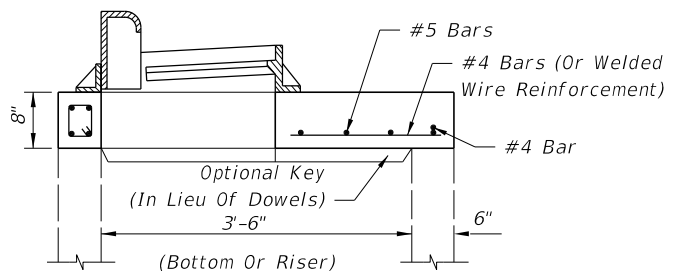


TRANSVERSE SECTION

FRAME AND GRATE

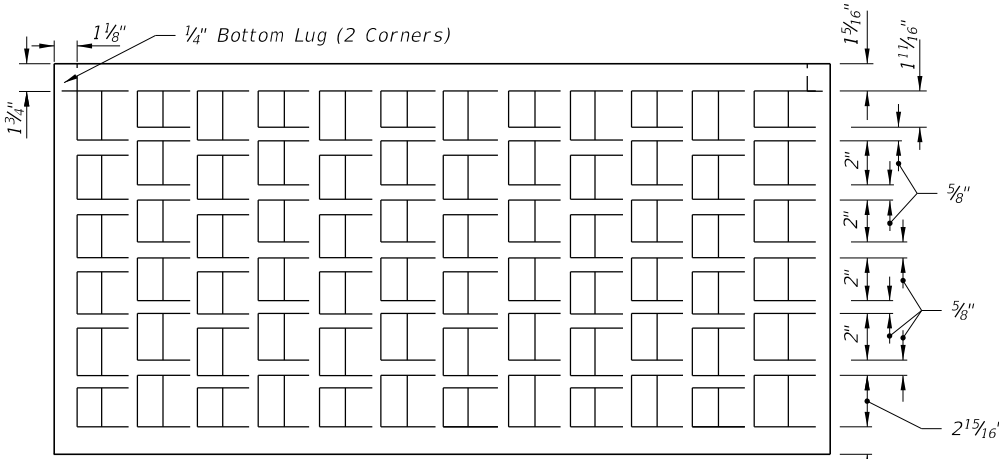


SECTION AA (SEE NOTE 6 BELOW)

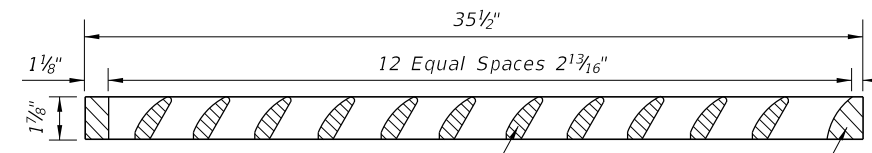
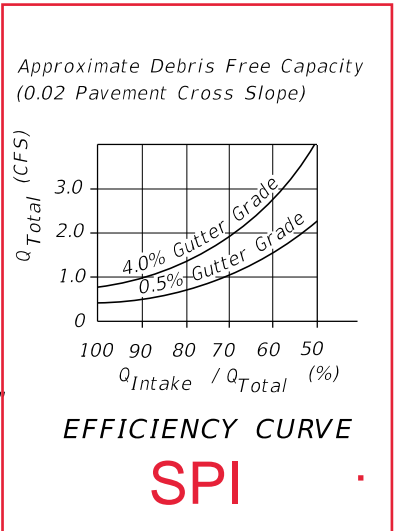


SECTION BB (SEE NOTE 6 BELOW)

TOP SLABS

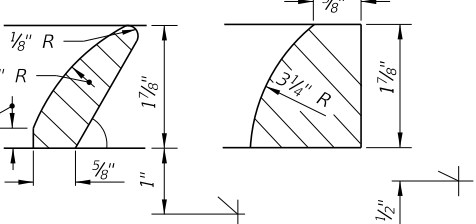


TOP VIEW



SECTION

GRATE DETAIL



DETAIL A DETAIL B

GENERAL NOTES

1. This inlet is primarily intended for locations with light to moderate flows where right of way does not permit the use of throated Curb Inlets Types 1 through 6. The typical application is on curb returns to city streets. The inlet grate is suitable for pedestrian and bicycle traffic.
2. This inlet to be located outside of curb ramp area in vertical faced curbs such as Curb and Gutter Type F. Grate shall be oriented with vanes directed toward Predominant Flow.
3. For structure bottoms see Index 425-010. For supplemental details see Index 425-001.
4. All steel in slab tops shall have 1 1/4" minimum cover unless otherwise shown. Tops shall be either cast-in-place or precast concrete.
5. For Alternate B applications, top slab openings shall be placed such that 2 edges of inlet frame will be located directly above bottom wall or riser wall.
6. When used on a structure with dimensions larger than those detailed above and risers are not applied, the top slab shall be constructed using Index 425-010 with the slab opening adjusted to 24"x36". The "Special Top Slab" on Index 425-010 is not permitted.
7. Frame may be adjusted with one to six courses of brick.
8. Vaned grates with approximately equal openings will be permitted that satisfy AASHTO HL-93 loading. Grates shall be reversible, right or left.

SPI

NOTES UPDATED

9/18/2018 2:37:38 PM

LAST REVISION 11/01/17	DESCRIPTION:	FDOT FY 2019-20 STANDARD PLANS	CURB INLET TOP TYPE 9	INDEX 425-024	SHEET 1 of 1
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GENERAL NOTES:

1. Work this Index with Index 425-001 and Index 425-010.
2. Orient grate with vanes directed toward predominant flow.
3. Provide 1 1/4" minimum cover for steel in slab tops unless otherwise shown. Tops may be either cast-in-place or precast concrete.
4. Place top slab openings such that 2 edges of inlet frame will be located directly above bottom wall or riser wall for Alternate B applications..
5. When used on a structure with dimensions larger than those detailed on Sheet 3 and risers are not applied, construct the top slab using Index 425-010 with the slab opening adjusted to 24"x36". The "Special Top Slab" on Index 425-010 is not permitted.
6. Frame may be adjusted with one to six courses of brick.
7. Vaned grates with approximately equal openings that satisfy AASHTO HL-93 loading are permitted. Provide reversible (right or left) grates.

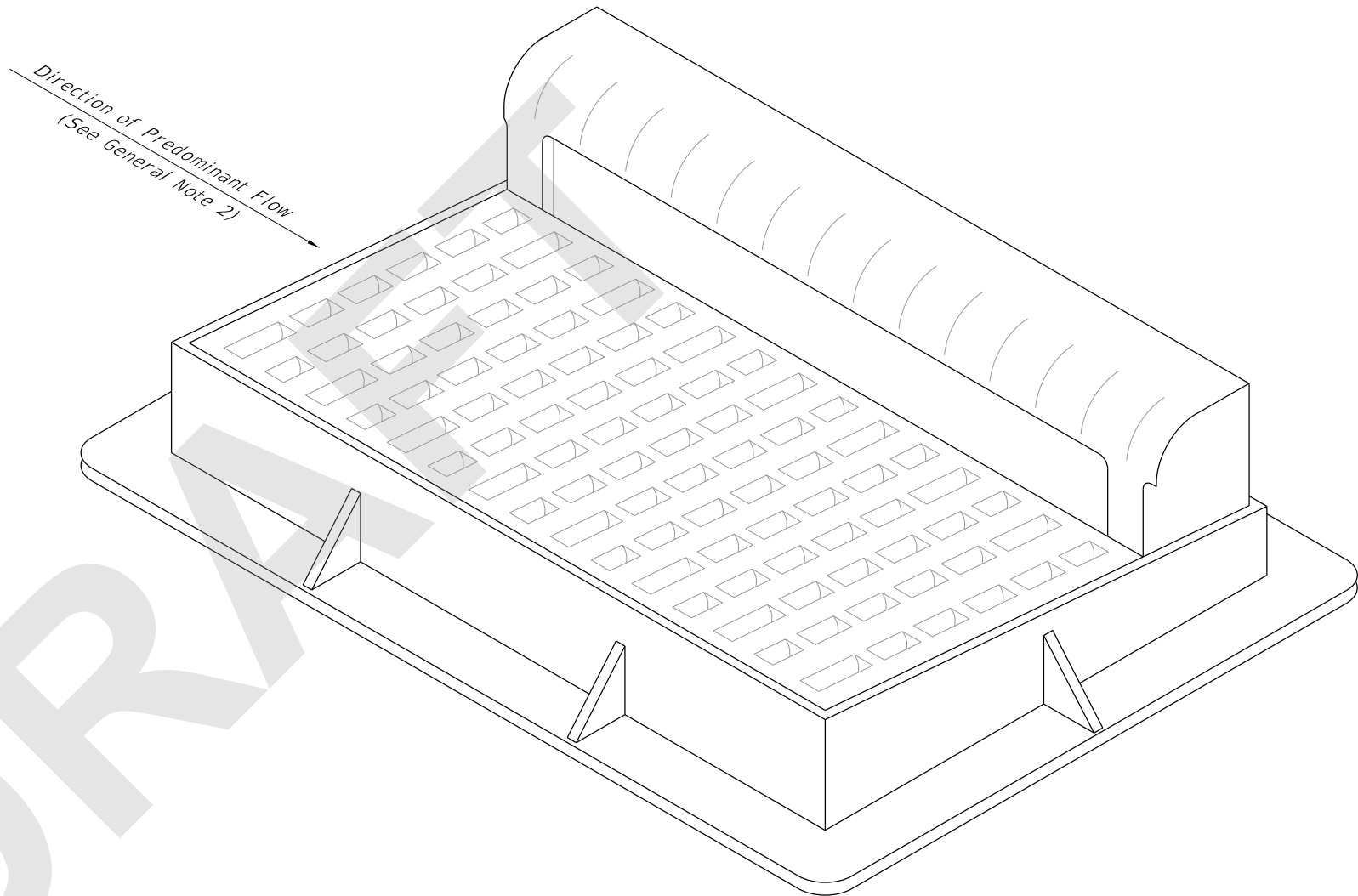
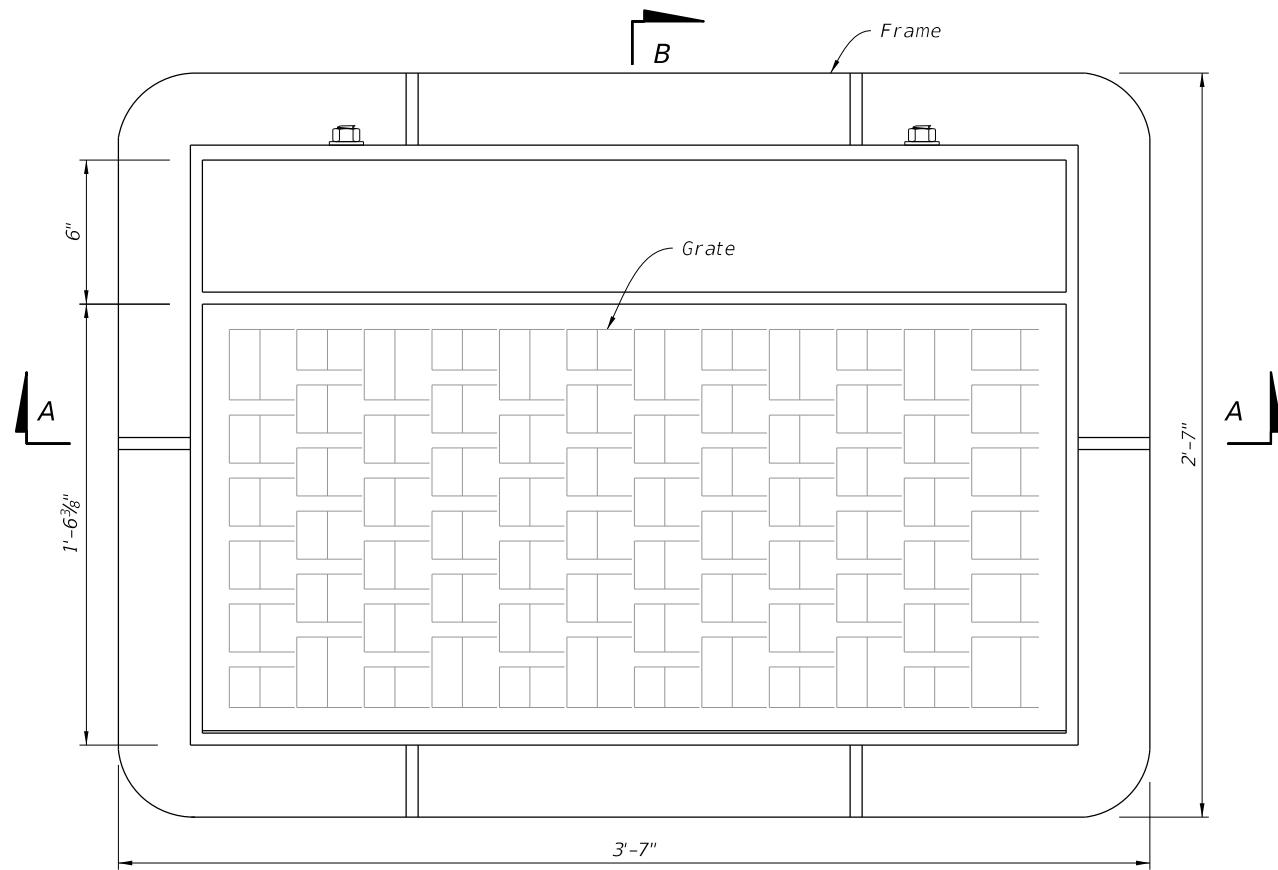


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Sheet	Description
1	General Notes and Contents
2	Frame and Grate Details
3	Top Slab Details

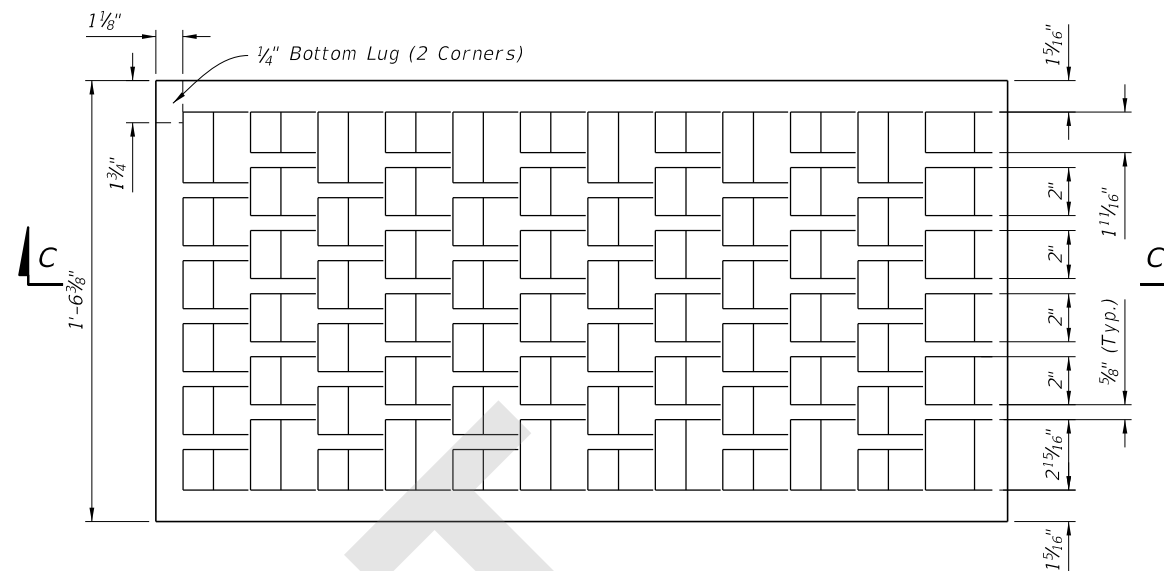
DRAWING

==== CURB INLET TOP TYPE 9 =====

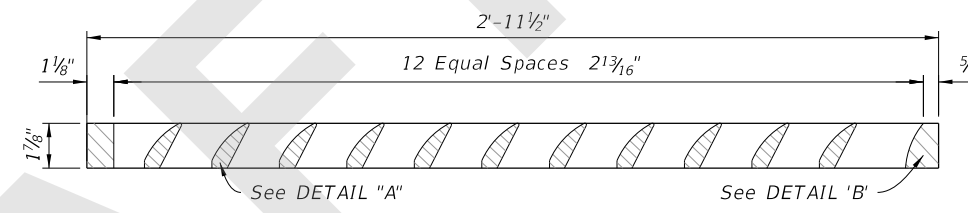
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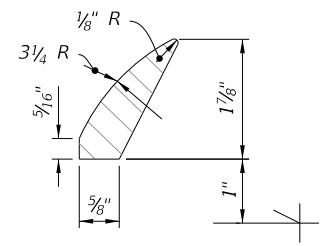
PLAN



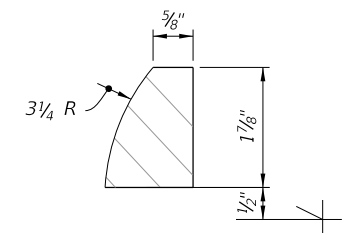
PLAN



SECTION C-C

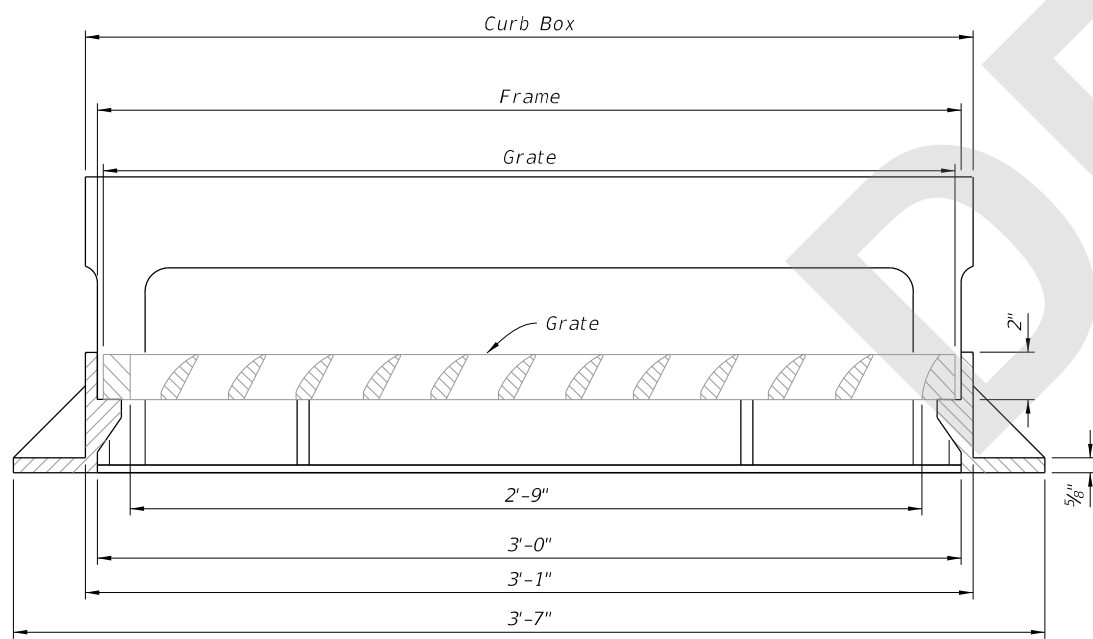


DETAIL "A"

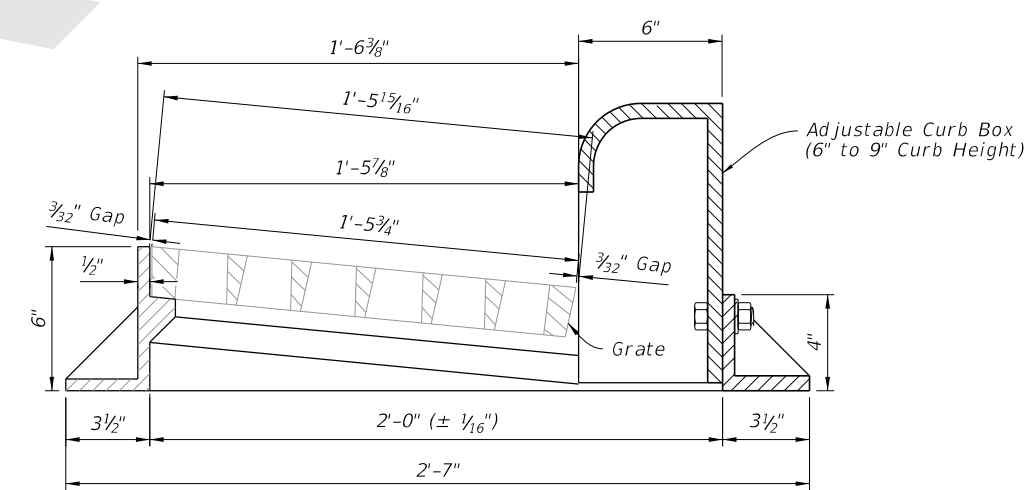


DETAIL "B"

GRATE DETAILS



SECTION A-A



SECTION B-B

FRAME AND GRATE DETAILS

FRAME AND GRATE DETAILS

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LAST REVISION 11/01/20	DESCRIPTION:
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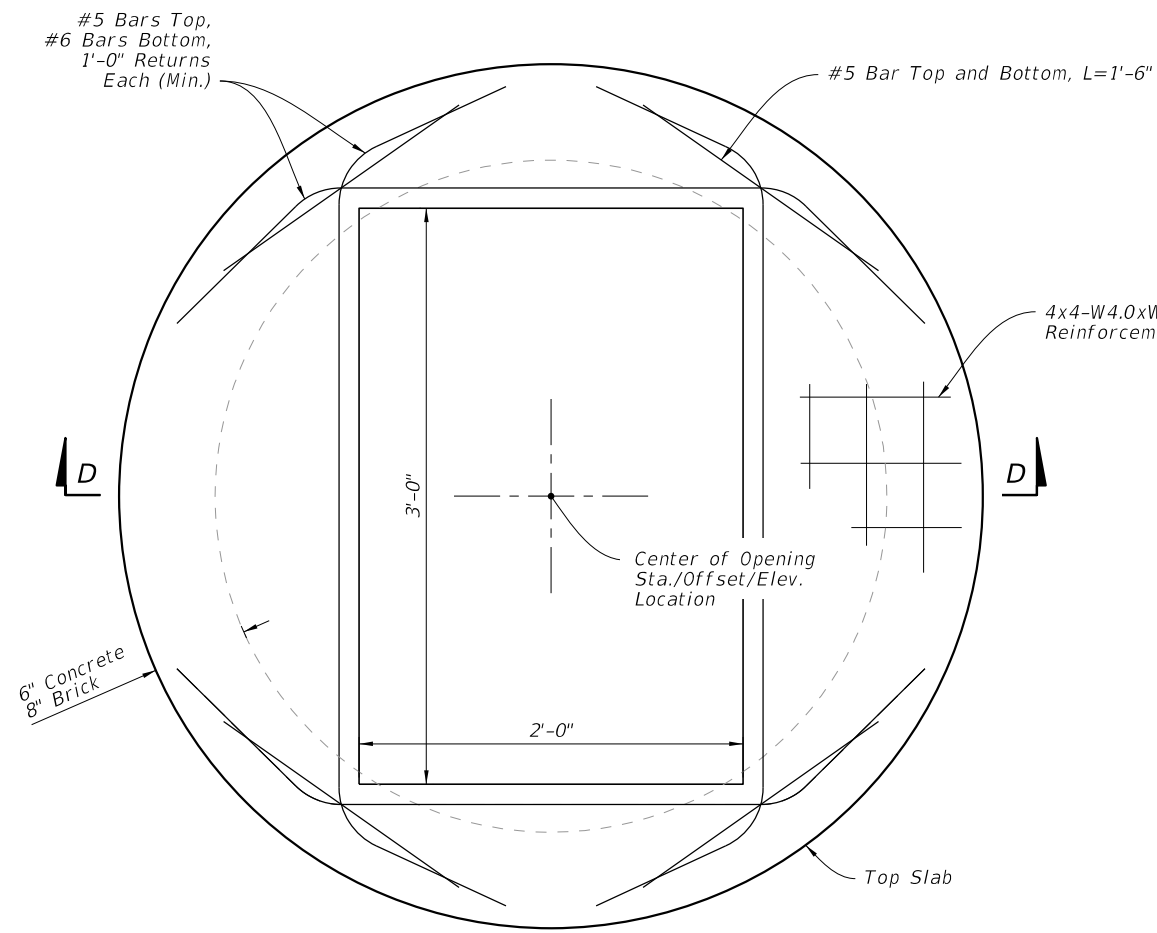


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STANDARD PLANS

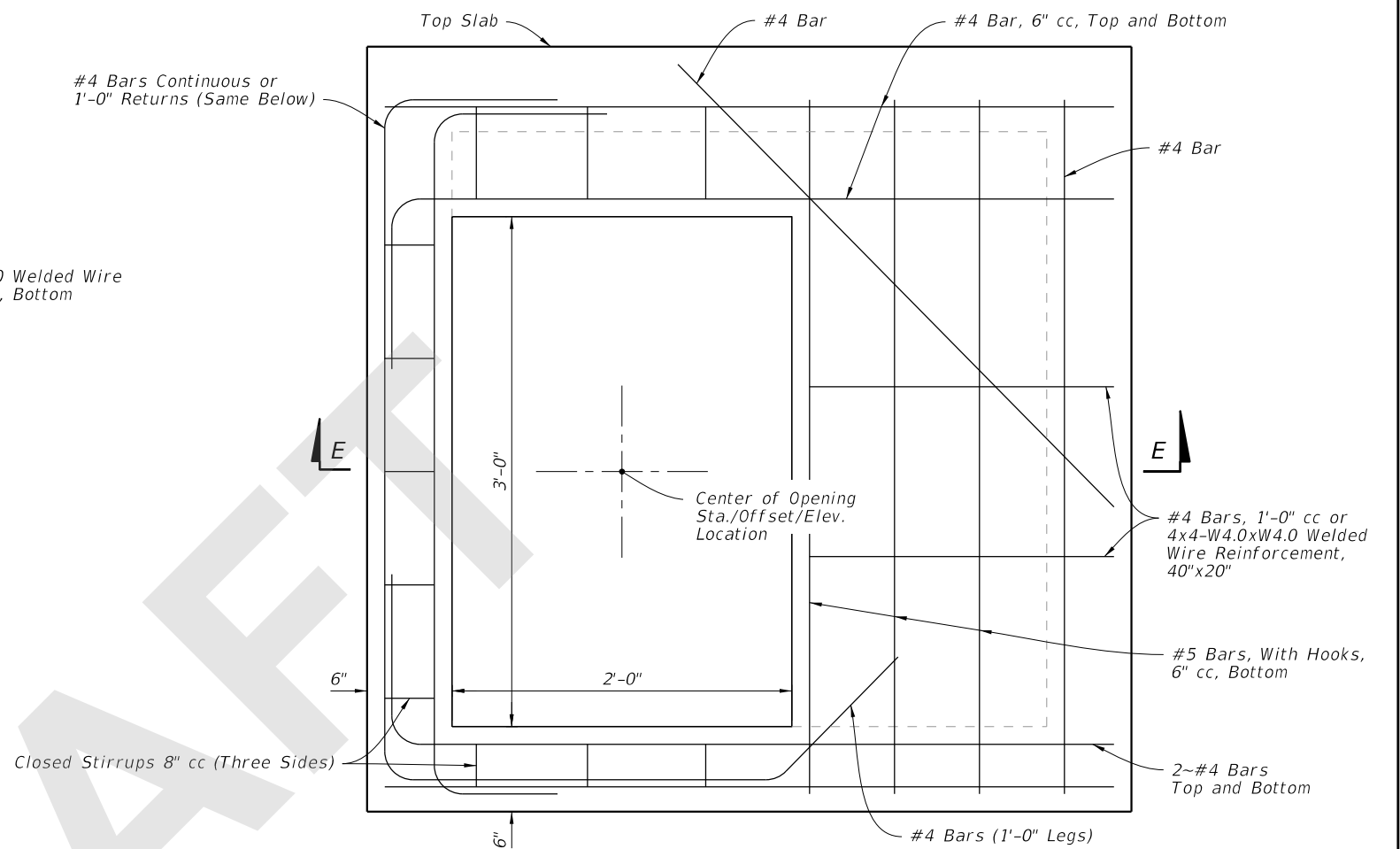
CURB INLET TOP TYPE 9

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425-024

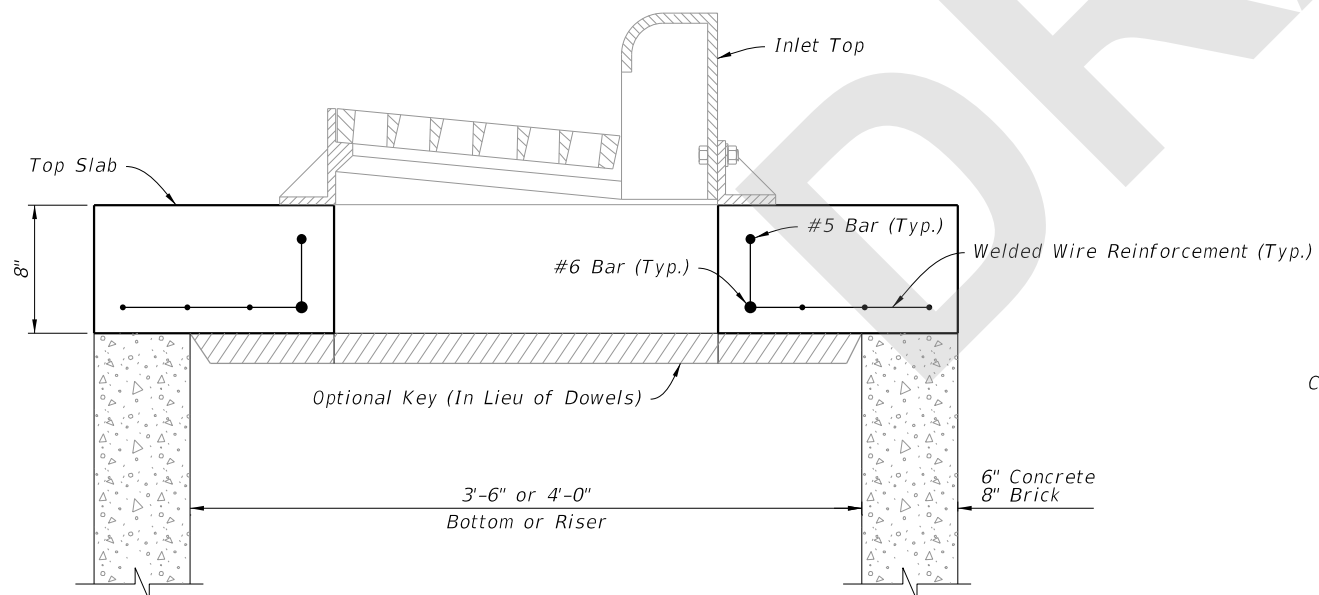
SHEET
2 of 3



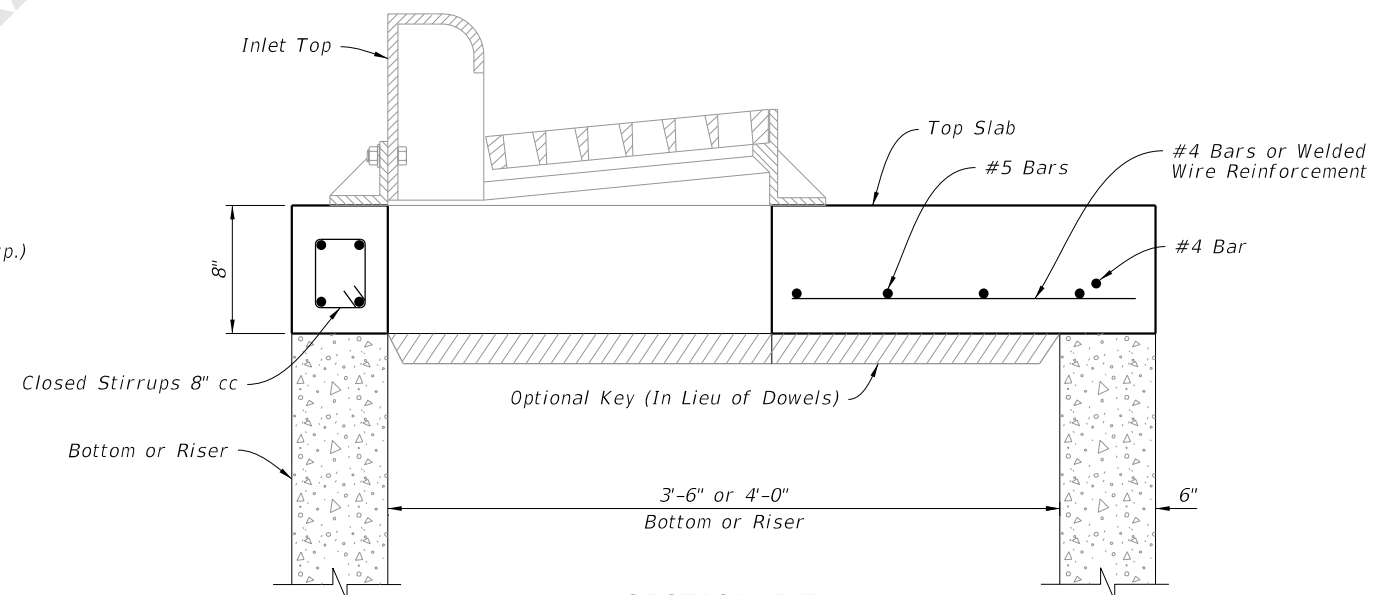
PLAN



PLAN



SECTION D-D



SECTION E-E

TOP SLAB DETAILS

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LAST REVISION 11/01/20	DESCRIPTION:
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FY 2021-22
STANDARD PLANS

CURB INLET TOP TYPE 9

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425-024

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