
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: 425-061

Sheet Number (s): ALL

Index Title: Closed Flume Inlet

Summary of the changes:

Reorganized Index, Added additional Sheets.

Sheet 1: General Notes

Sheet 2: Type I Dimensional Details

Sheet 3: Reinforcement Details

Sheet 4: Type II Dimensional Details

Sheet 5: Multiple Barrel Flume 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:

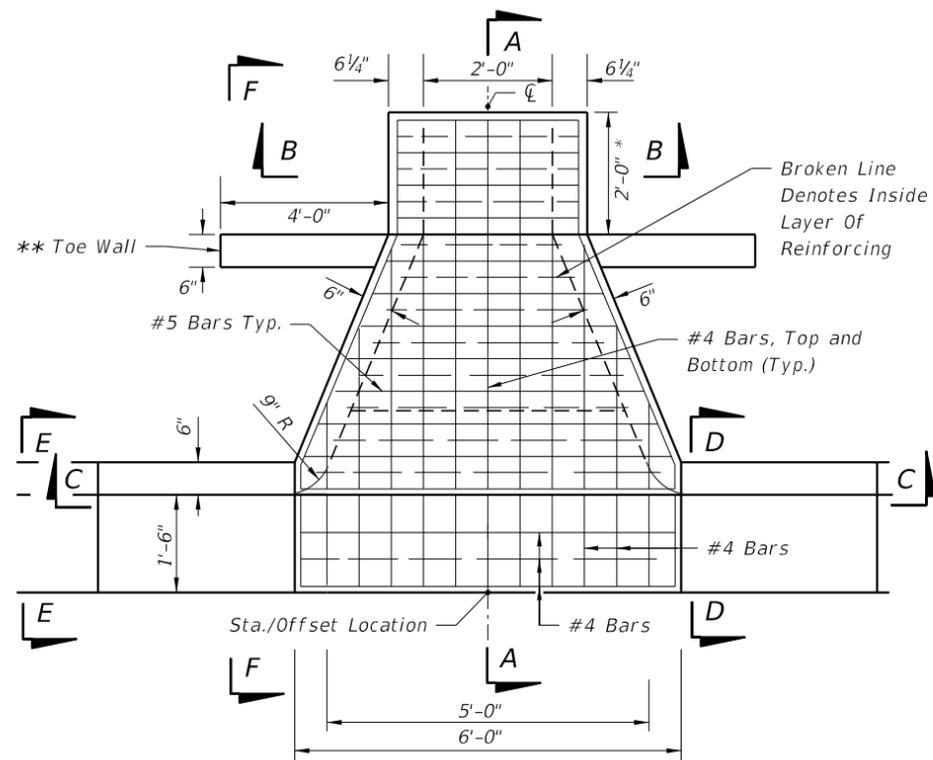
(Email or hand deliver package to Rick Jenkins)

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

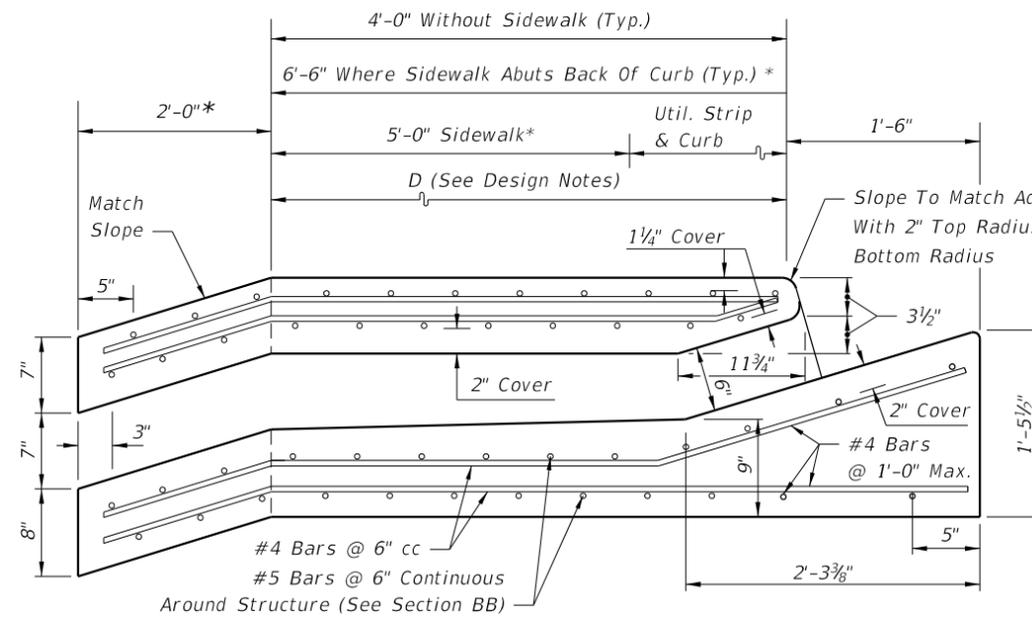
Implementation:

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

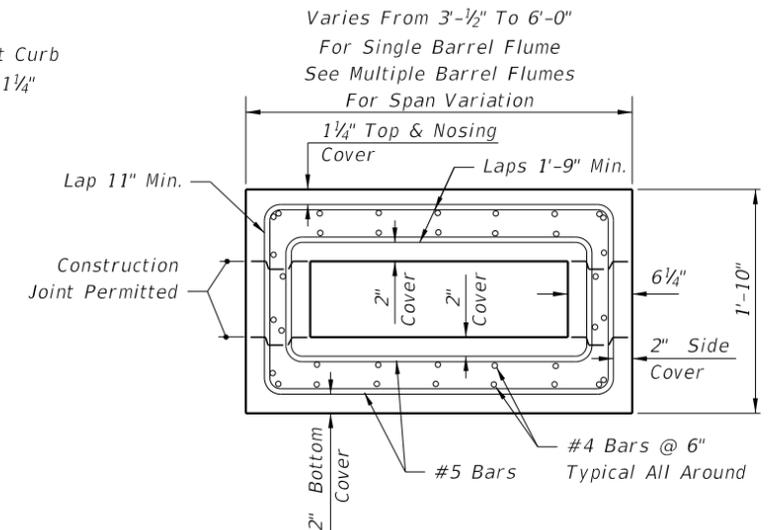
Contact the Roadway Design Office for assistance in completing this form



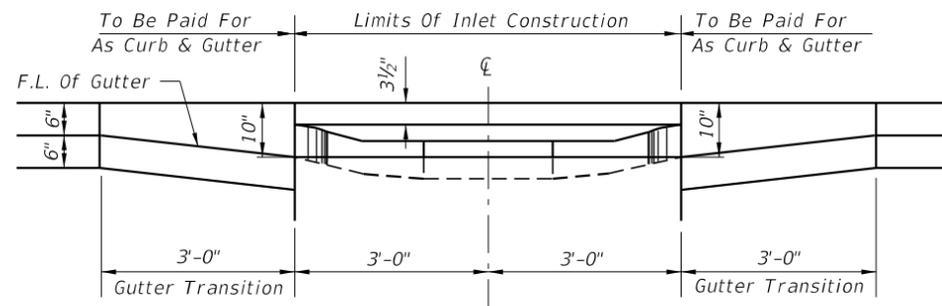
TOP VIEW



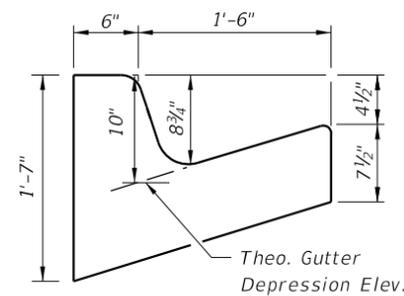
SECTION AA



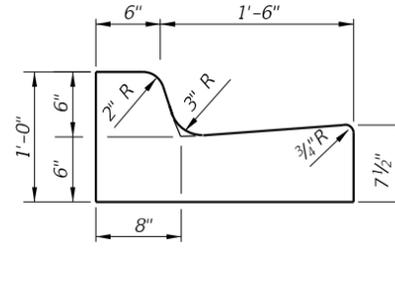
SECTION BB



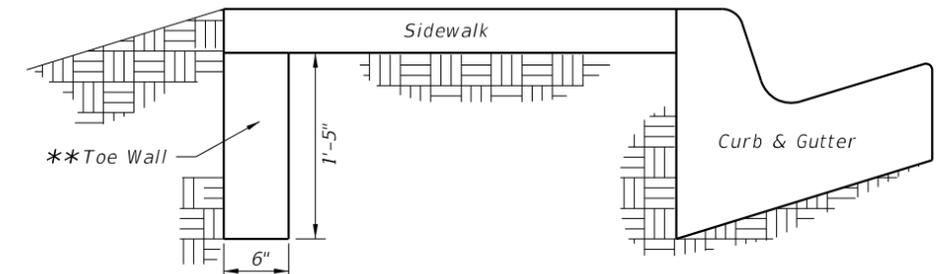
SECTION CC



SECTION DD



SECTION EE
(Curb And Gutter Type F)

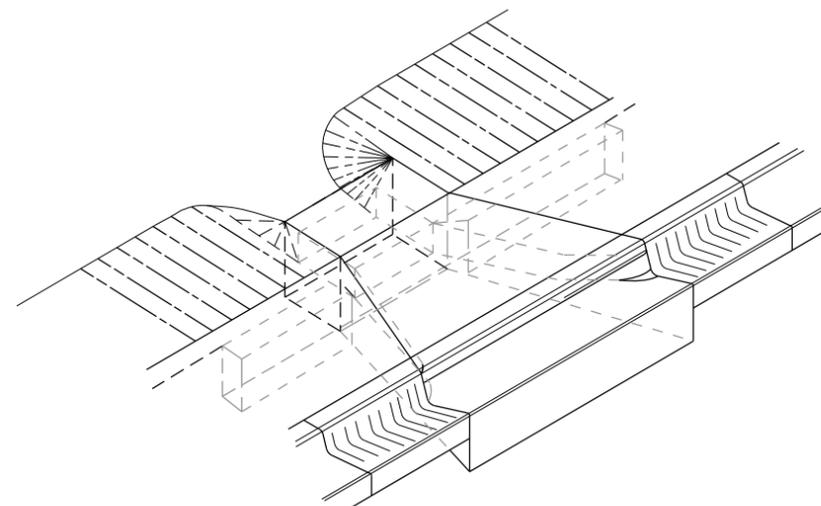


SECTION FF

* Sloped Section to be used w/sidewalk applications only.
 ** Toe Walls as depicted to be used with sidewalk application only. For endwall without sidewalk see detail on Sheet 2.

DESIGN NOTES

1. These inlets are designed for use with Type F curb and gutter only. Locate inlet outside of curb ramp area.
 The Single Barrel Flume is intended for locations with light to moderate flows. Multiple Barrel Flumes must be selected to meet design heavy flows.
2. Designer must specify Flume Type, "D" dimension, number of barrels and guiderail requirements in plans.
3. Designer must specify where energy dissipating bricks are required.



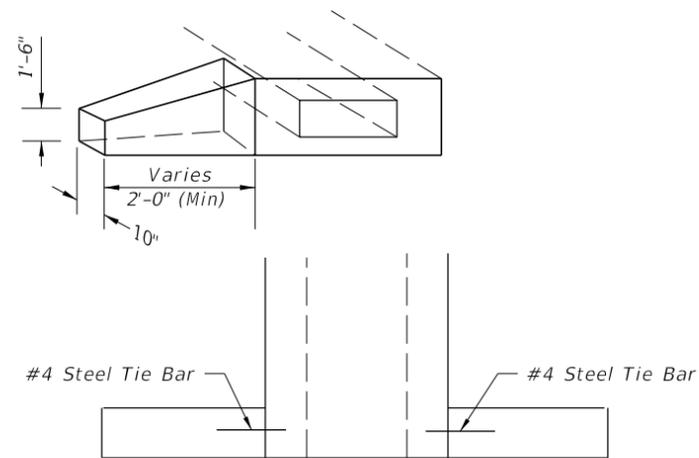
FLUME W/SIDEWALK INLET (CLOSED FLUME) TYPE I
 SINGLE BARREL FLUME DEPICTED

GENERAL NOTES

1. The finished grade and slope of the inlet top are to conform with the finished cross slope and grade of the proposed sidewalk and/or border.
2. When inlets are to be constructed on a curve, refer to the plans to determine the radius and, where necessary, modify the inlet details accordingly. Bend steel when necessary.
3. All steel shall have 2" minimum cover unless otherwise shown. Inlets can be either cast-in-place or precast concrete. Chamfer all exposed edges 3/4".
4. All reinforcement is ASTM A615/A615M Grade 60 steel, either smooth or deformed. Equivalent area grade 40 steel or 65 ksi welded wire fabric may be substituted.
5. Inlets to be paid for under the contract unit price for Inlets (Closed Flume) EA.

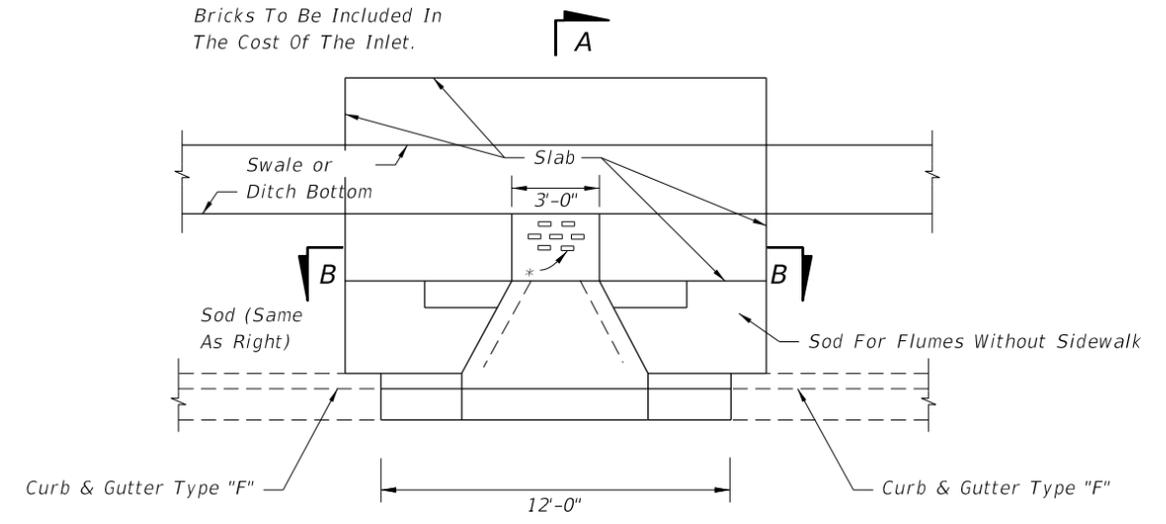
9/18/2018 2:54:28 PM

LAST REVISION 11/01/17	REVISION	DESCRIPTION:		FY 2019-20 STANDARD PLANS	CLOSED FLUME INLET	INDEX 425-061	SHEET 1 of 3
---------------------------	----------	--------------	--	------------------------------	--------------------	------------------	-----------------

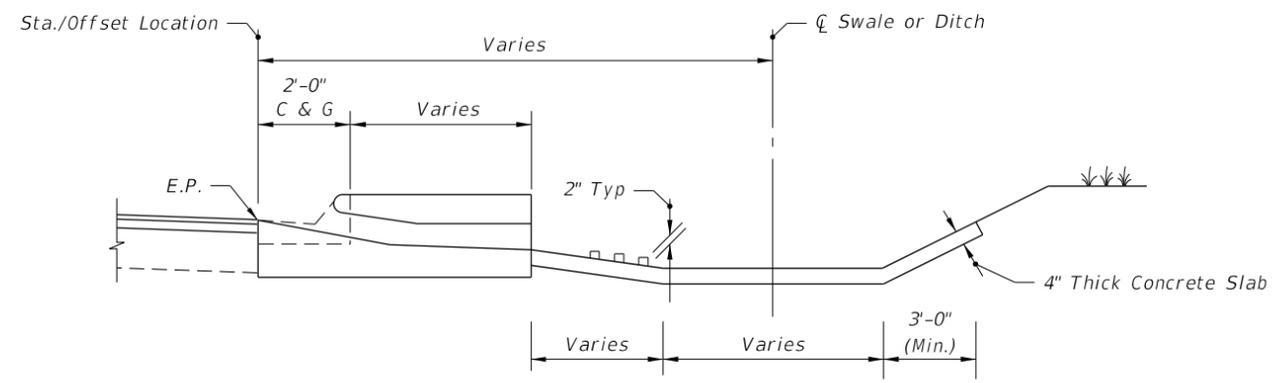


ENDWALL

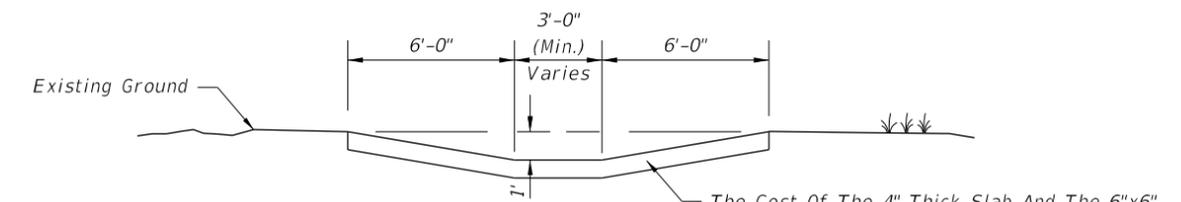
*Bricks to Dissipate Energy
When Called For In Plans.
Bricks To Be Included In
The Cost Of The Inlet.



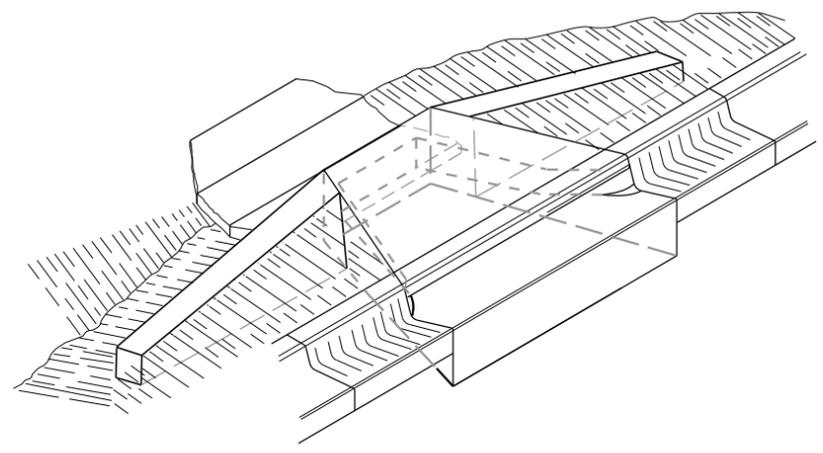
PLAN



SECTION AA



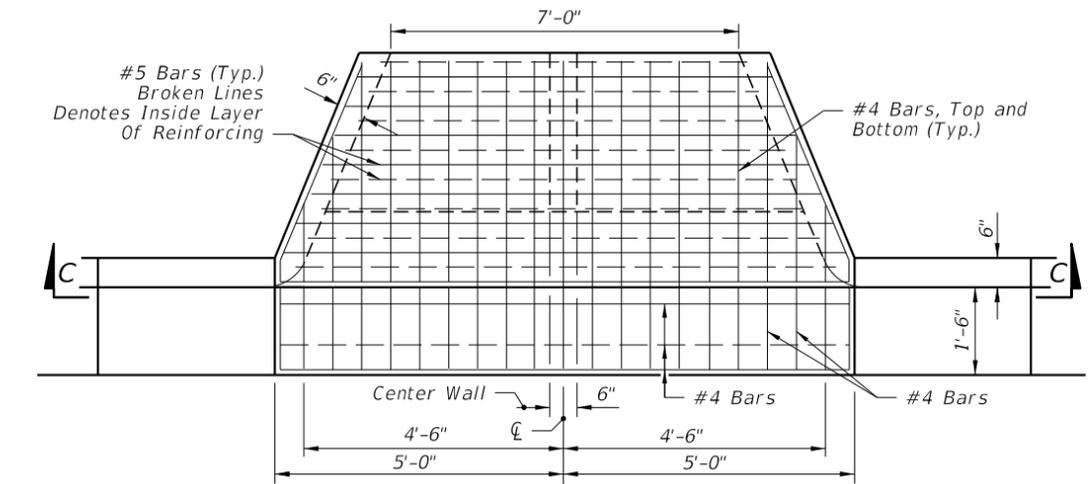
SECTION BB



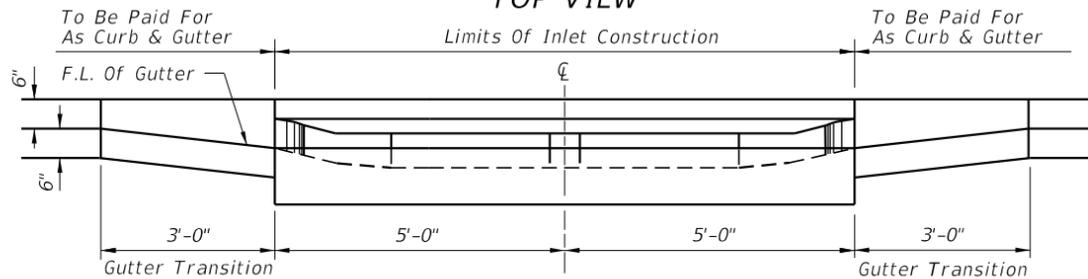
FLUME W/O SIDEWALK INLET (CLOSED FLUME) TYPE II
SINGLE BARREL FLUME DEPICTED

9/18/2018 2:54:29 PM

LAST REVISION 11/01/17	REVISION	DESCRIPTION:		FY 2019-20 STANDARD PLANS	CLOSED FLUME INLET	INDEX 425-061	SHEET 2 of 3
---------------------------	----------	--------------	--	------------------------------	--------------------	------------------	-----------------

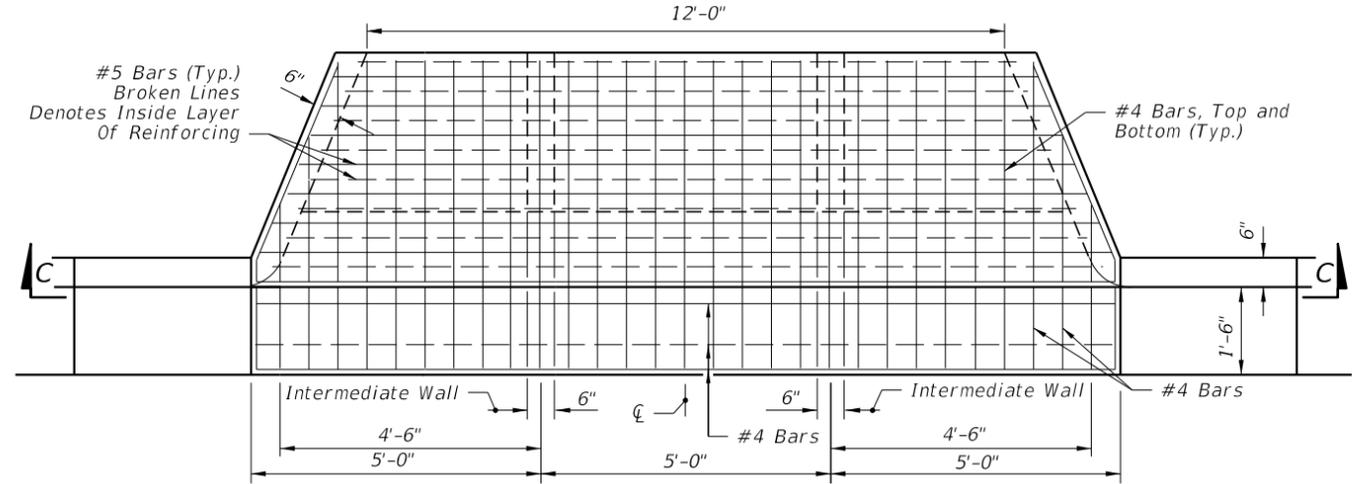


TOP VIEW

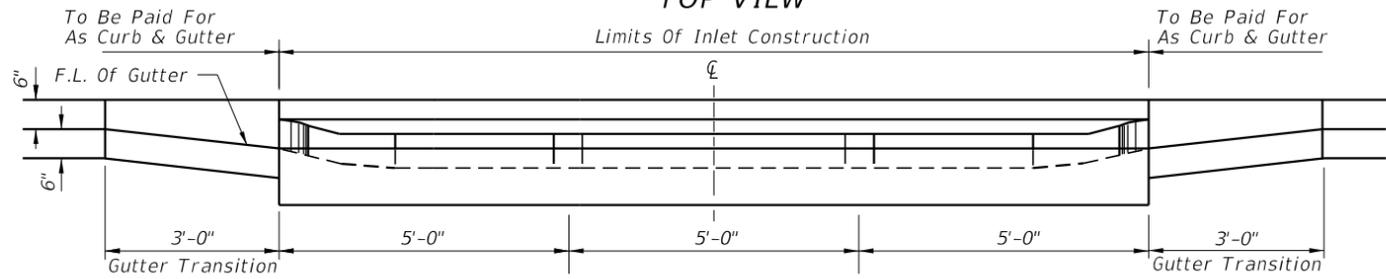


SECTION CC

DOUBLE BARREL FLUME

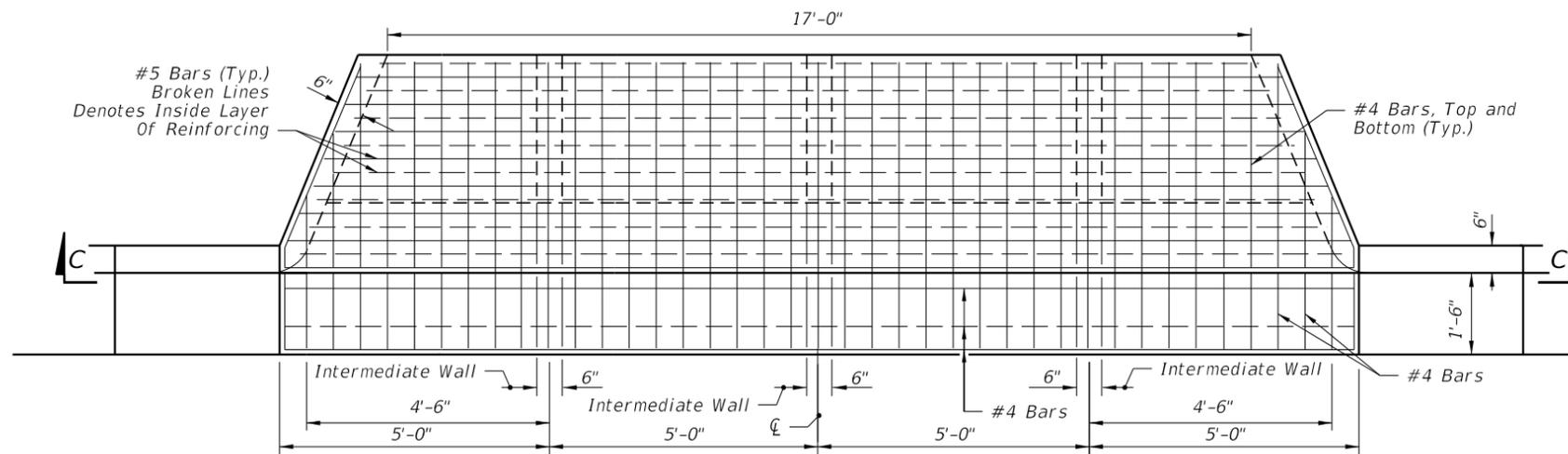


TOP VIEW

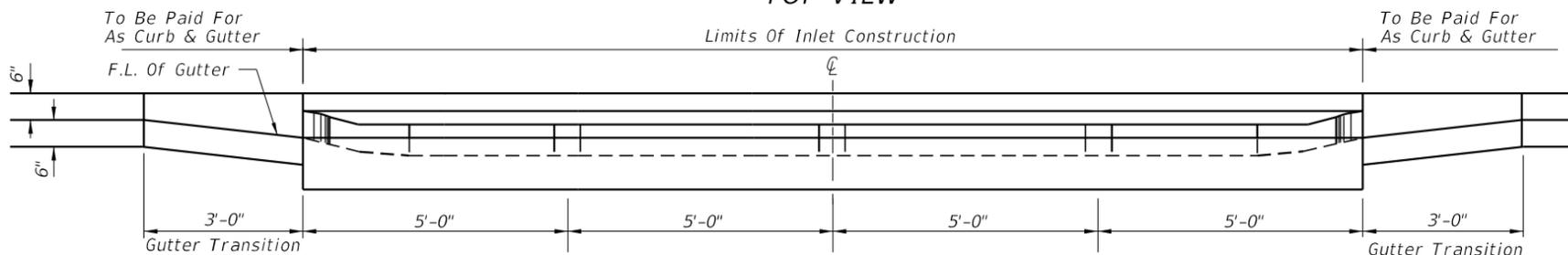


SECTION CC

TRIPLE BARREL FLUME

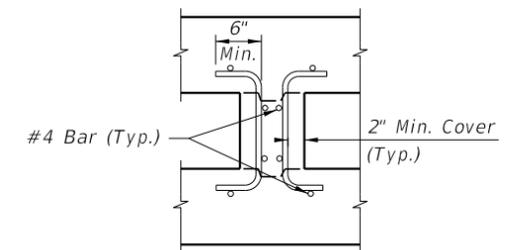


TOP VIEW



SECTION CC

QUADRUPLE BARREL FLUME



INTERMEDIATE-WALL REINFORCING

NOTE: See Barrel Flume For Base Dimensions.

9/18/2018 2:54:30 PM

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



FY 2019-20
STANDARD PLANS

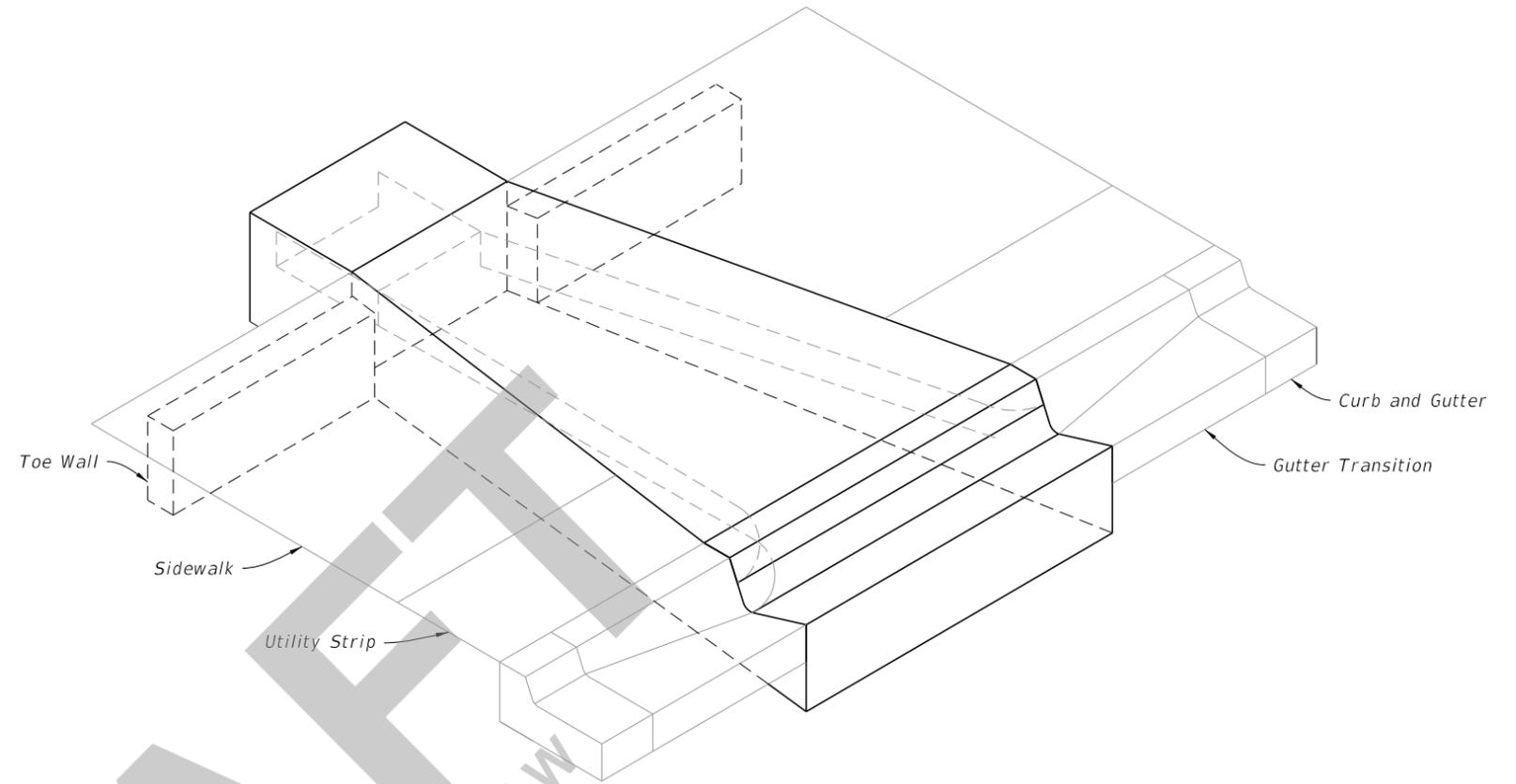
CLOSED FLUME INLET

INDEX
425-061

SHEET
3 of 3

GENERAL NOTES:

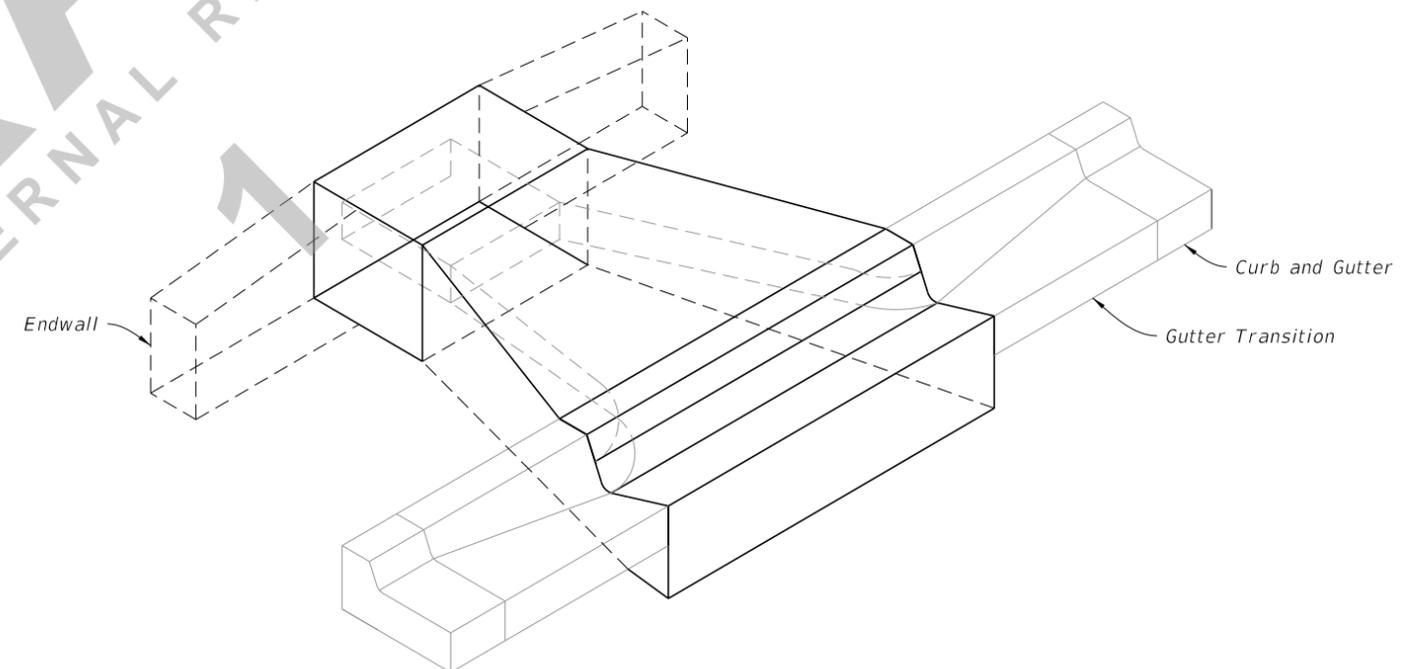
1. The finished grade and slope of the inlet top are to conform with the finished cross slope and grade of the proposed sidewalk and/or border.
2. When inlets are to be constructed on a curve, refer to the plans to determine the radius. Bend steel when necessary.
3. Inlets can be either cast-in-place or precast concrete. Chamfer all exposed edges $\frac{3}{4}$ ".
4. All reinforcement is ASTM A615/A615M Grade 60 steel, either smooth or deformed with a 2" minimum cover, unless otherwise shown. Equivalent area grade 40 steel or 65 ksi welded wire fabric may be substituted.



TYPE I CLOSED FLUME INLET WITH SIDEWALK

Single Barrel Flume Shown

TABLE OF CONTENTS:	
Sheet	Description
1	General Notes and Contents
2	Type-I Dimensional Details
3	Reinforcement Details
4	Type-II Dimensional Details
5	Multiple Barrel Flumes



TYPE II CLOSED FLUME INLET WITHOUT SIDEWALK

Single Barrel Flume Shown

7/29/2020 6:54:34 AM

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

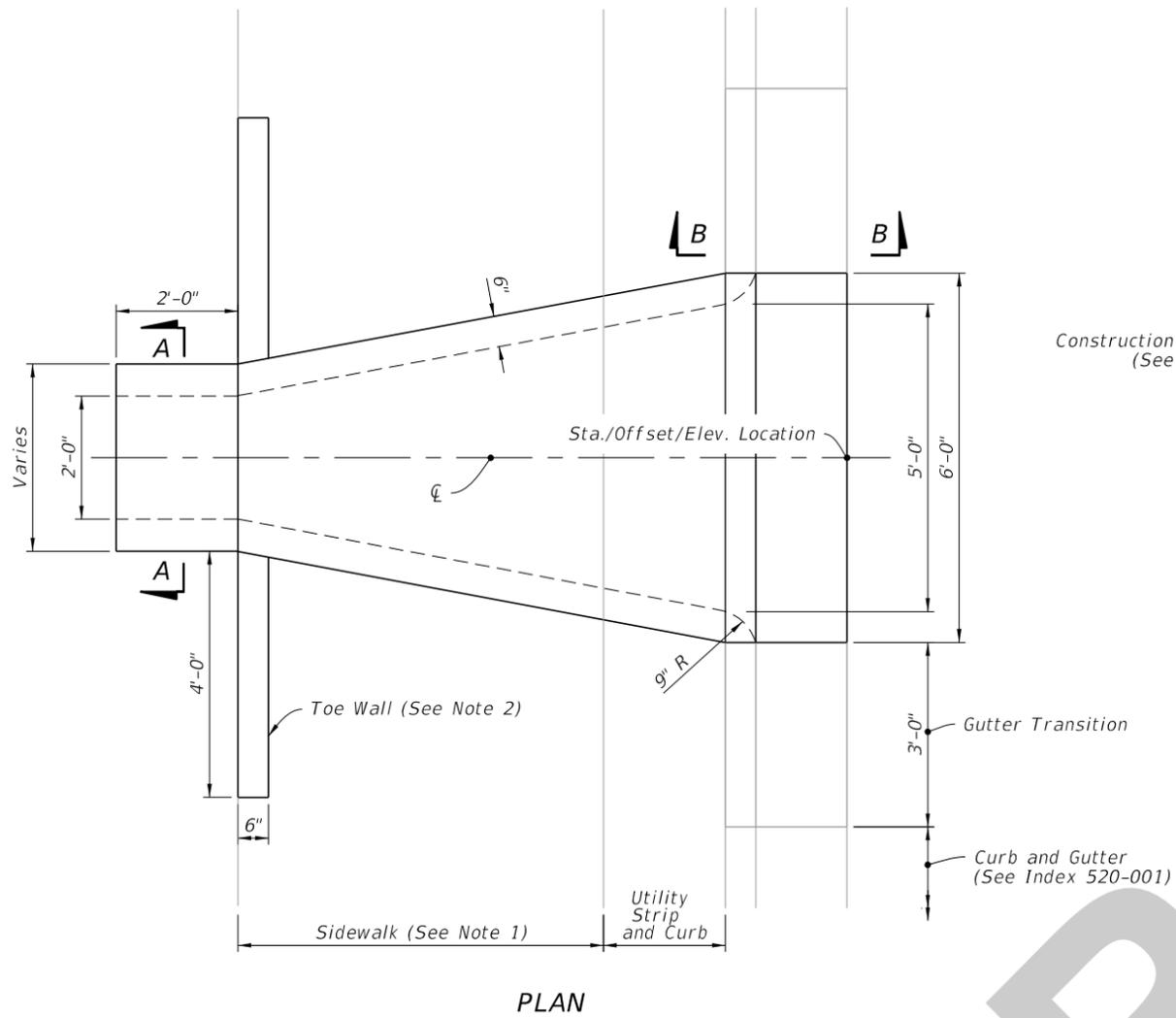


FY 2021-22
STANDARD PLANS

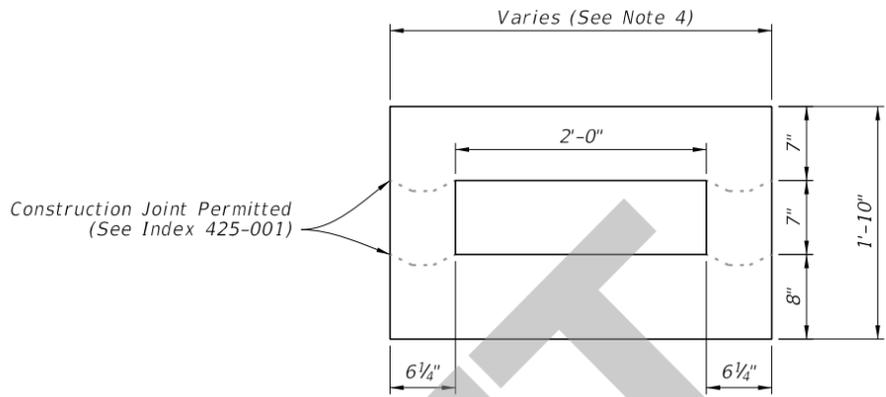
CLOSED FLUME INLET

INDEX
425-061

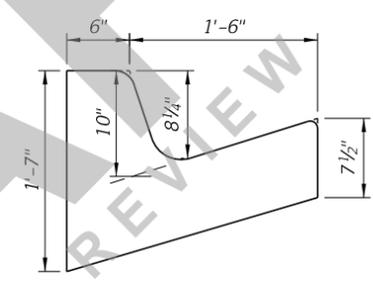
SHEET
1 of 5



PLAN



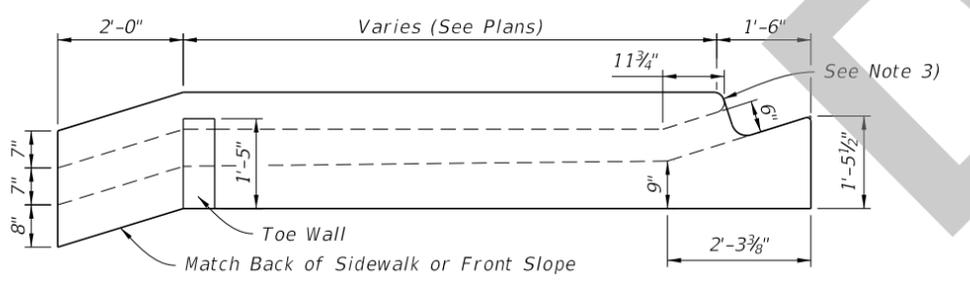
SECTION A-A



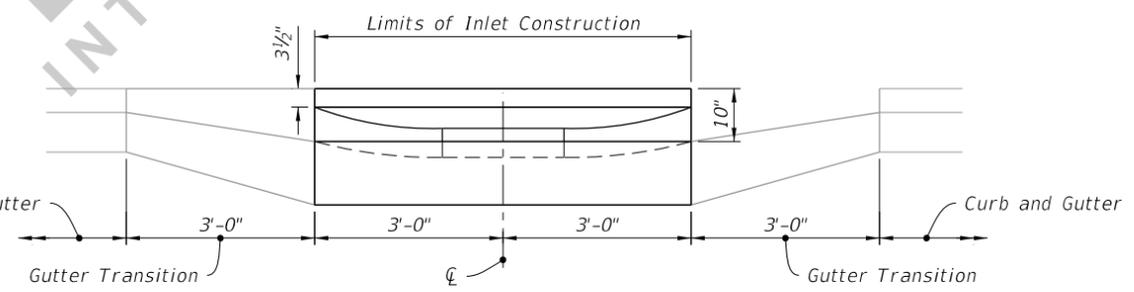
SECTION B-B

NOTES:

1. Use sloped section with sidewalk applications only.
2. Use Toe Walls with Sidewalk application only. For Endwall without Sidewalk see DETAILS on Sheet 4.
3. Slope to match adjacent curb with 2" top radius and 1 1/4" bottom radius.
4. Varies from 3'-1/2" to 6'-0" for single barrel flume. See Sheet 5 for multiple barrel flumes span variation.



SIDE ELEVATION

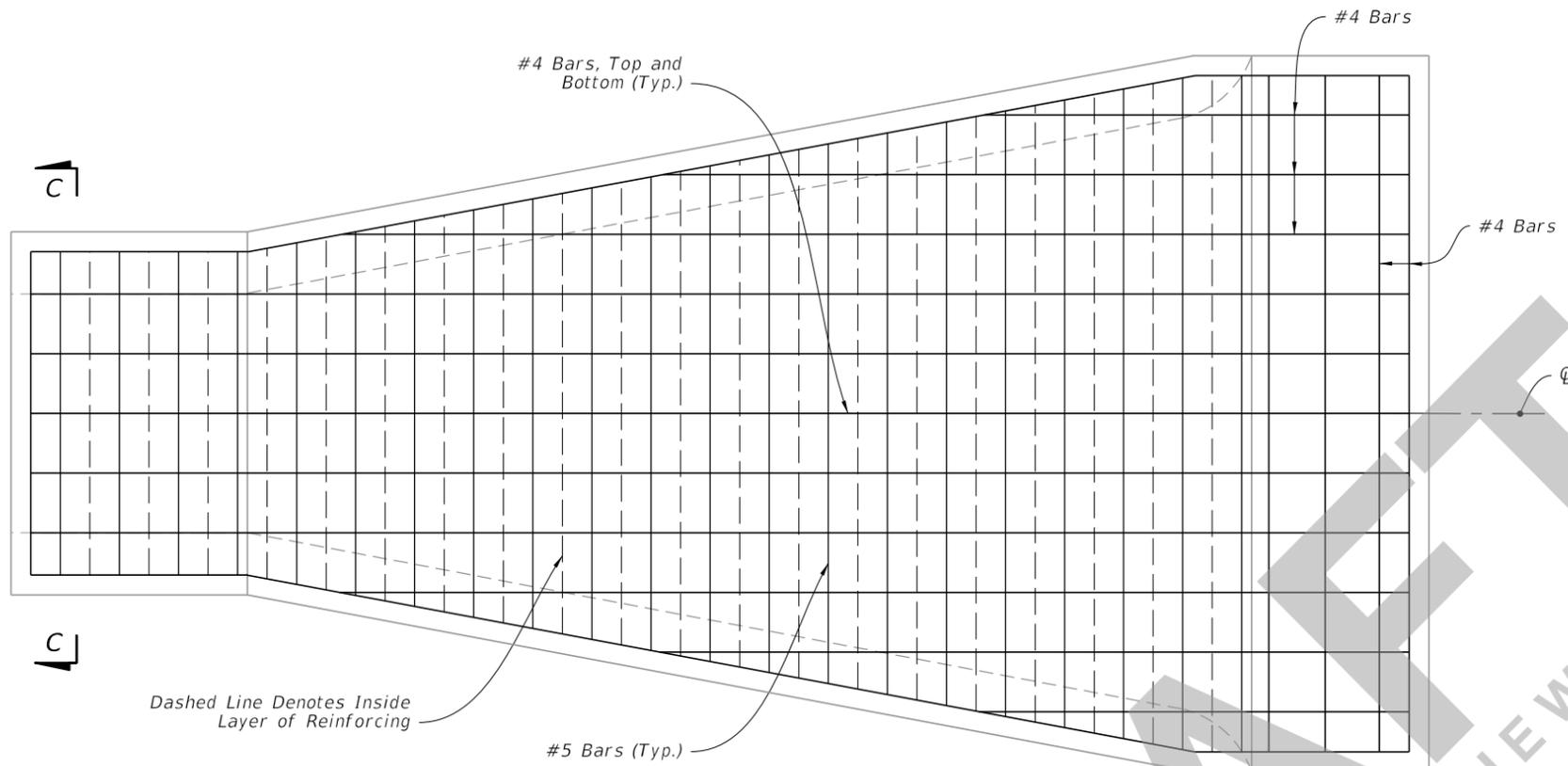


FRONT ELEVATION

7/29/2020 6:54:35 AM

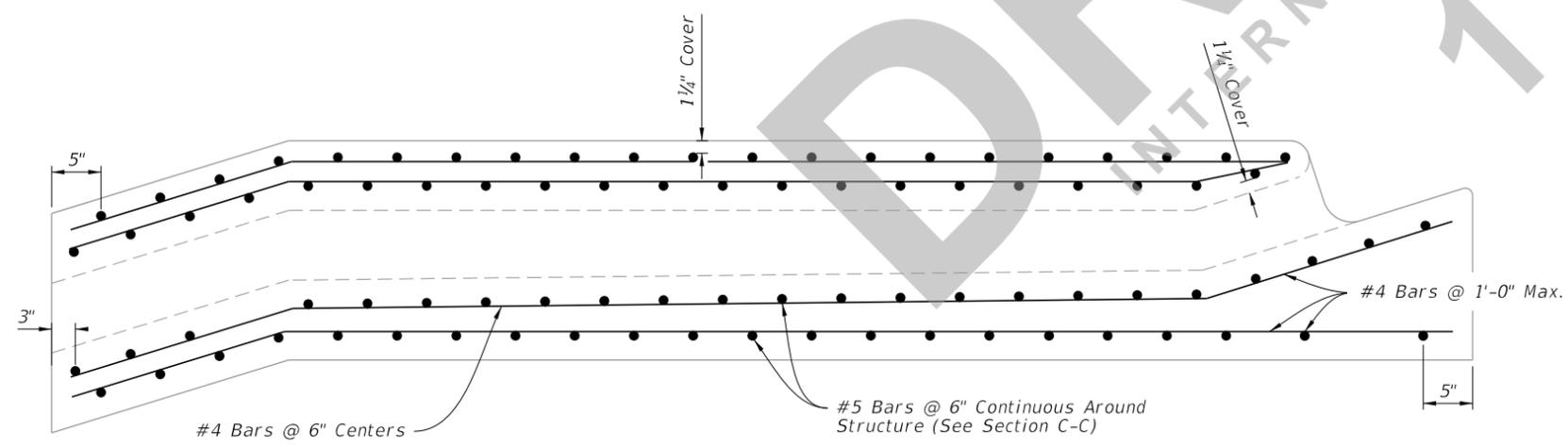
LAST REVISION 11/01/20	DESCRIPTION:	FDOT FY 2021-22 STANDARD PLANS	CLOSED FLUME INLET	INDEX 425-061	SHEET 2 of 5
---------------------------	--------------	--------------------------------------	--------------------	------------------	-----------------

TYPE-I DIMENSIONAL DETAILS

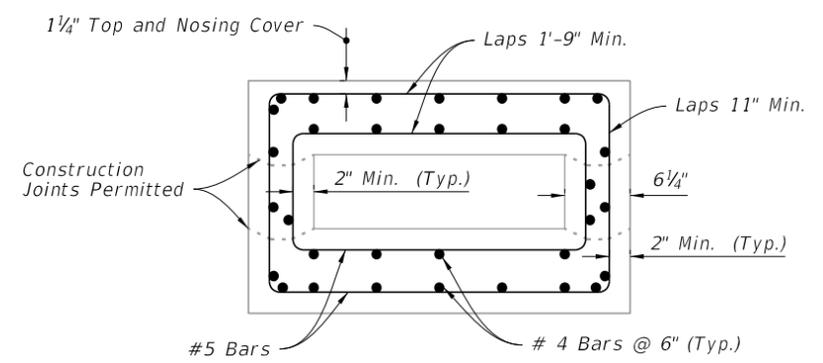


PLAN

NOTE:
Type I Closed Flume Inlet shown, Type II Closed Flume Inlet Similar.



SIDE ELEVATION



SECTION C-C

7/29/2020 6:54:36 AM

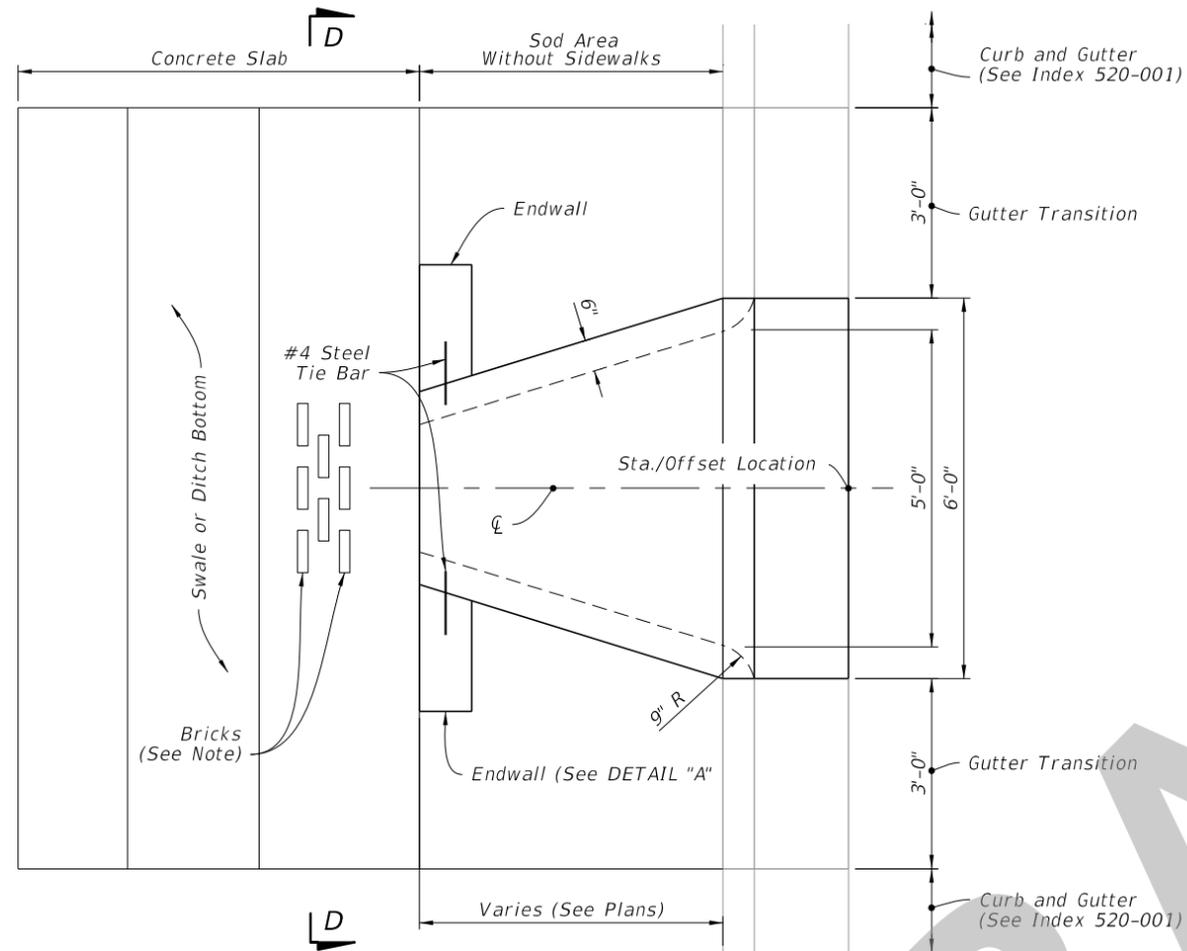
LAST REVISION 11/01/20	REVISION	DESCRIPTION:
---------------------------	----------	--------------

**FY 2021-22
STANDARD PLANS**

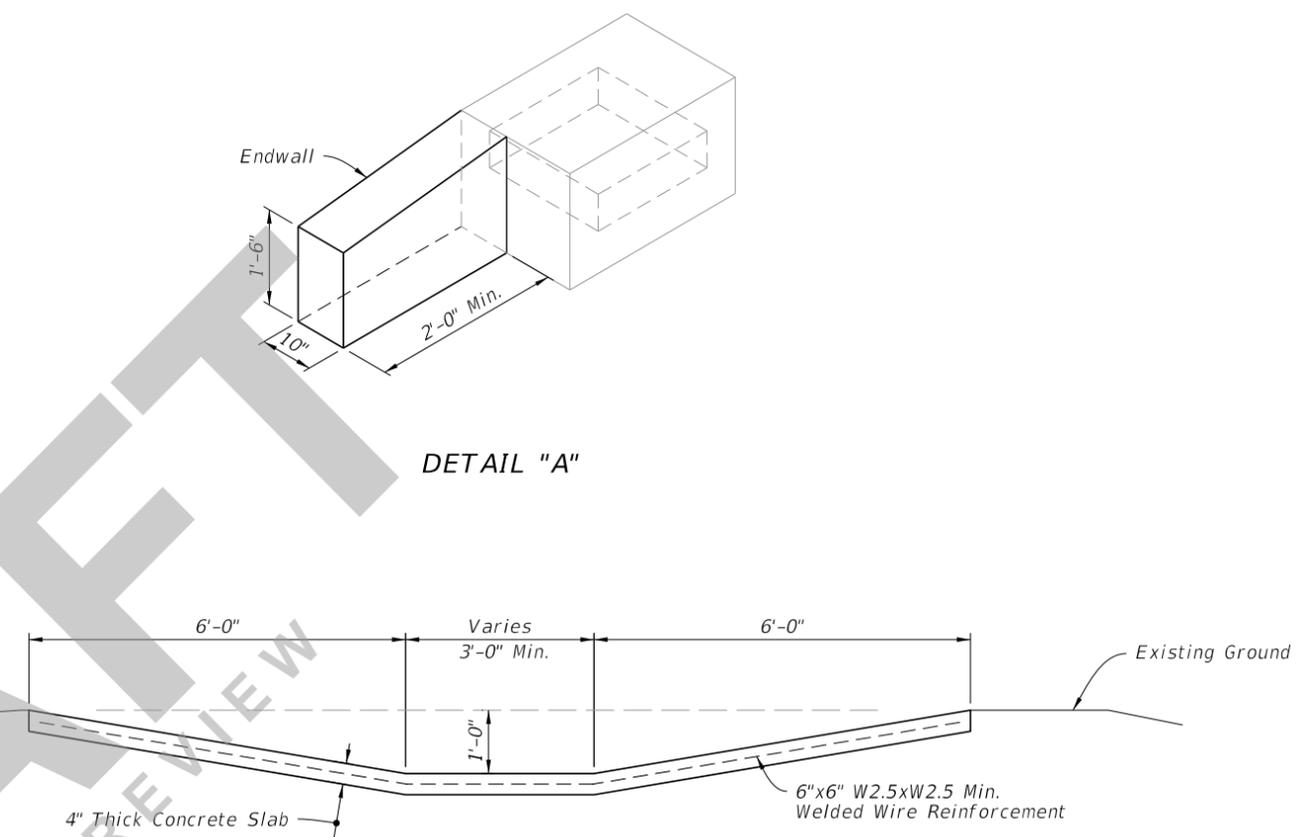
CLOSED FLUME INLET

INDEX 425-061	SHEET 3 of 5
------------------	-----------------

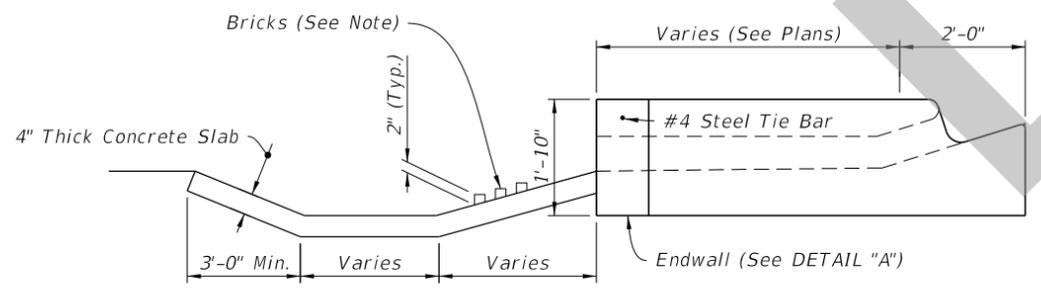
REINFORCEMENT DETAILS



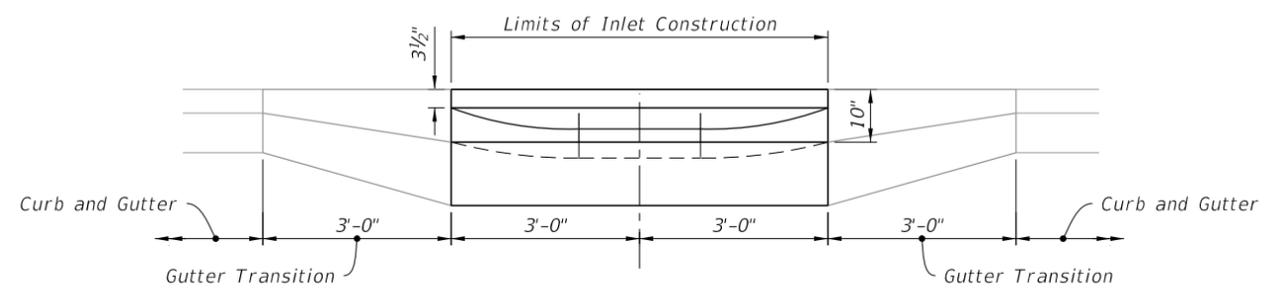
PLAN



SECTION D-D



SIDE ELEVATION



FRONT ELEVATION

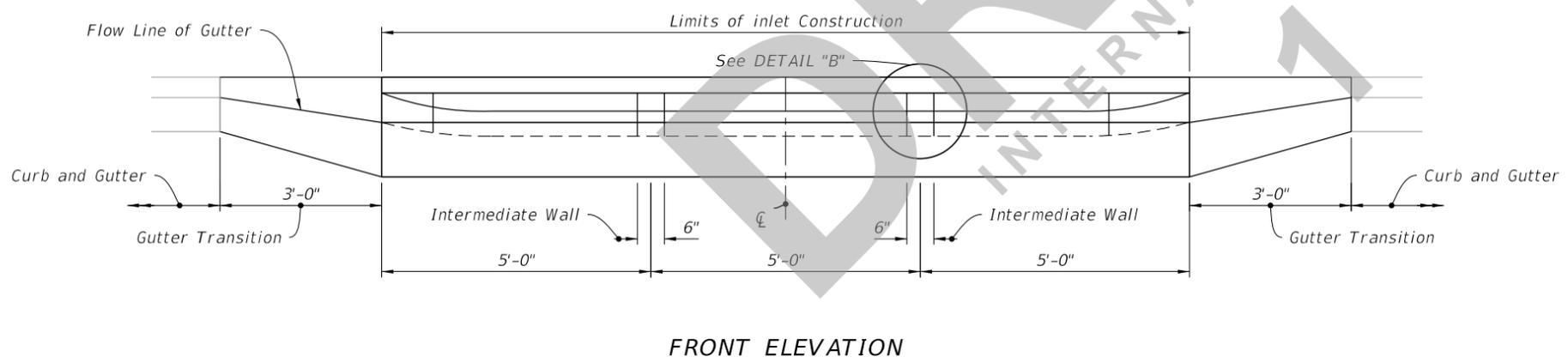
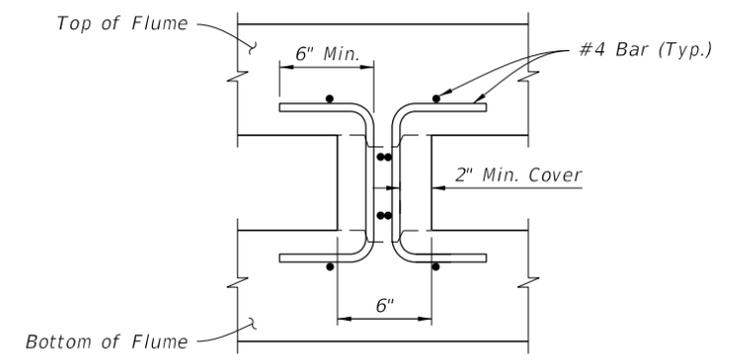
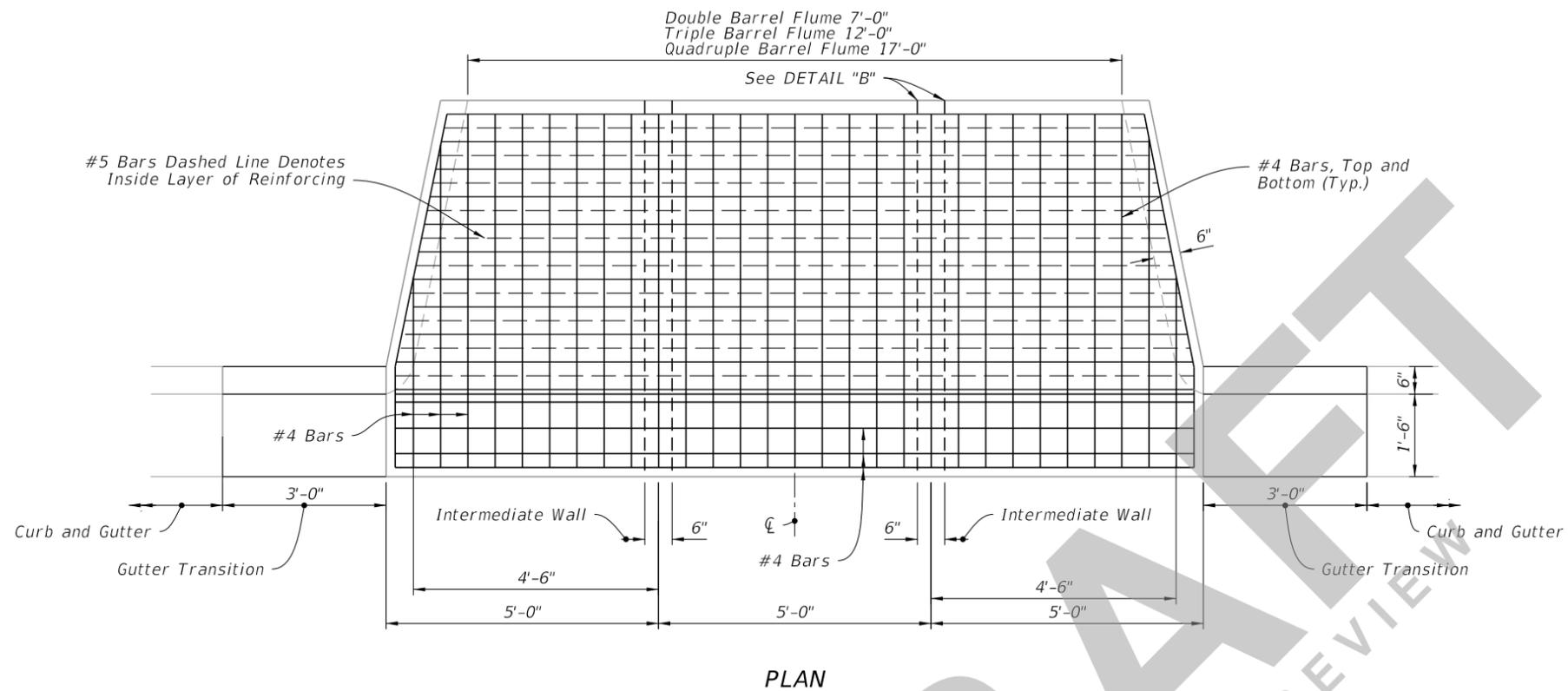
NOTE:
When called for in the Plans, install bricks to dissipate energy.

TYPE II DIMENSIONAL DETAILS

7/29/2020 6:54:38 AM

LAST REVISION 11/01/20	DESCRIPTION:		FY 2021-22 STANDARD PLANS	CLOSED FLUME INLET	INDEX 425-061	SHEET 4 of 5
REVISION						

7/29/2020 6:54:40 AM



NOTE:
 Triple barrel flume shown, double and quadruple similar.

MULTIPLE BARREL FLUMES

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


 FY 2021-22
 STANDARD PLANS

CLOSED FLUME INLET

INDEX 425-061	SHEET 5 of 5
------------------	-----------------