
ORIGINATION FORM

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

Contact Information:

Date: August 5, 2021
Originator: Andre Pavlov
Phone: (850) 414-4293
Email: Andre.Pavlov@dot.state.fl.us

Standard Plans:

Index Number: 700-040
Sheet Number (s): 2 of 5
Index Title: Cantilever Sign Structure

Summary of the changes:

Sheet 2: Changed the 2'-2" lap splice for the #5 tie bars on the spread footing plan view to 1'-8"; Revised Note 5 to read "After galvanizing, provide magnetic particle testing on 100% of upright fillet welds."

Additional Commentary: During maintenance inspections, weld cracks were found on in-service overhead sign structure supports. A FDOT investigation determined the cracks were formed during fabrication. To implement a better fabrication quality control processes, the note on the Standard is being changed.

Commentary / Background:

The reference shown for longitudinal bars is incorrect.

Required lap length for #5 tie bars for spread footing shall be shorter rather than longer than what is required for drilled shaft (2'-0") due to higher concrete strength of spread footing.

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

Yes	No	
☐	☒	Other Standard Plans –
☐	☒	FDOT Design Manual –
☐	☒	Basis of Estimates Manual –
☐	☒	Standard Specifications –
☐	☒	Approved Product List –
☐	☒	Construction –
☐	☒	Maintenance –

Origination Package Includes:

(Email or hand deliver package to Rick Jenkins)

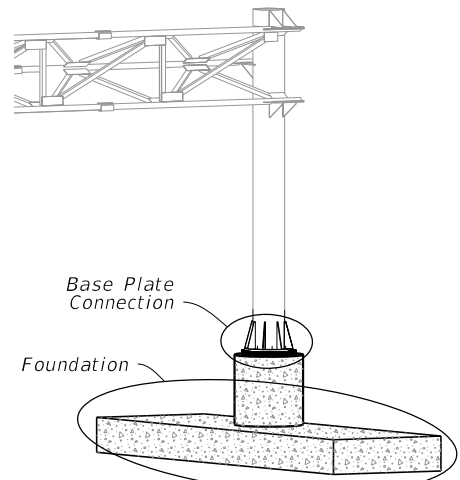
Yes	N/A	
☒	☐	Redline Mark-ups
☐	☐	Proposed Standard Plan Instruction (SPI)
☐	☐	Revised SPI
☐	☐	Other Support Documents

Implementation:

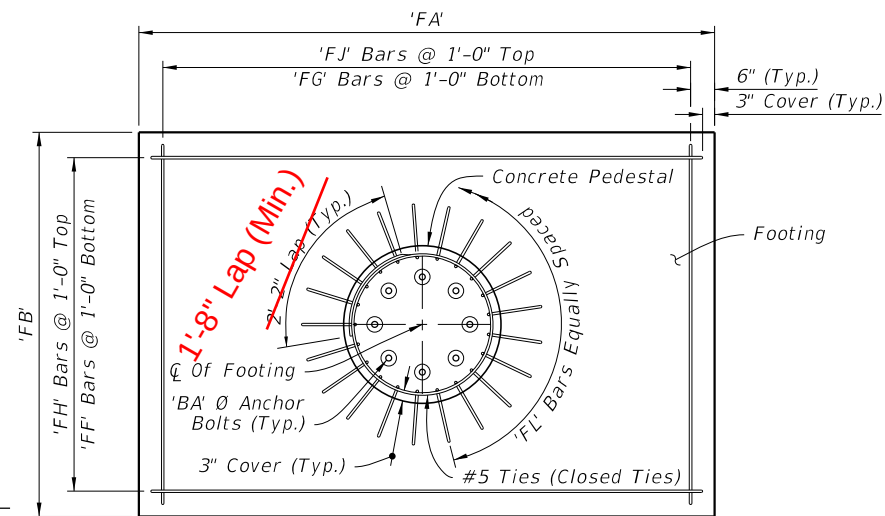
☐	Design Bulletin (Interim)
☐	DCE Memo
☐	Program Mgmt. Bulletin
☒	FY-Standard Plans (Next Release)

Contact the Roadway Design Office for assistance in completing this form

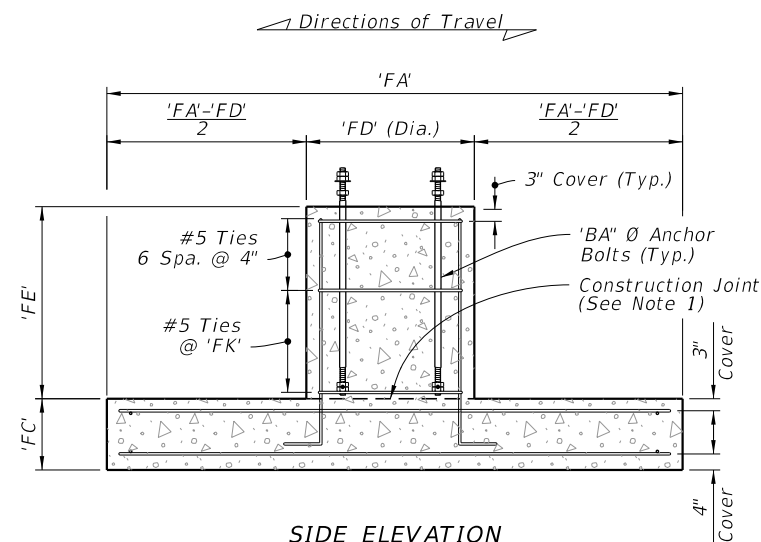
Email to: Rick Jenkins rick.jenkins@dot.state.fl.us and Darren Martin darren.martin@dot.state.fl.us



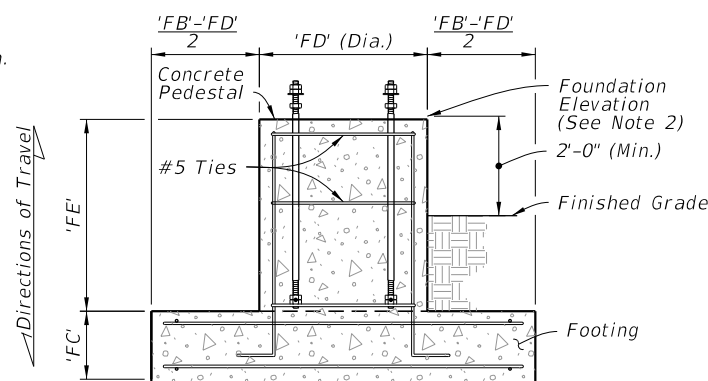
CANTILEVER ASSEMBLY



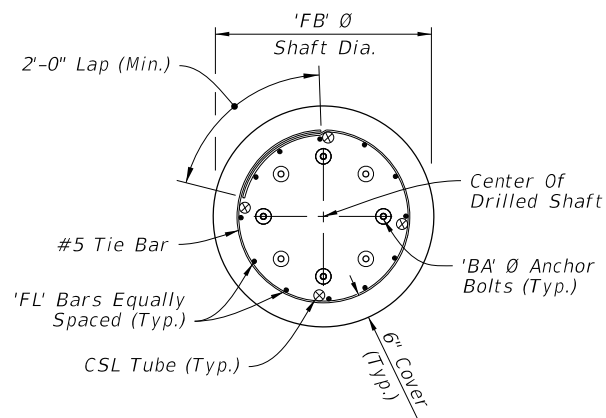
PLAN



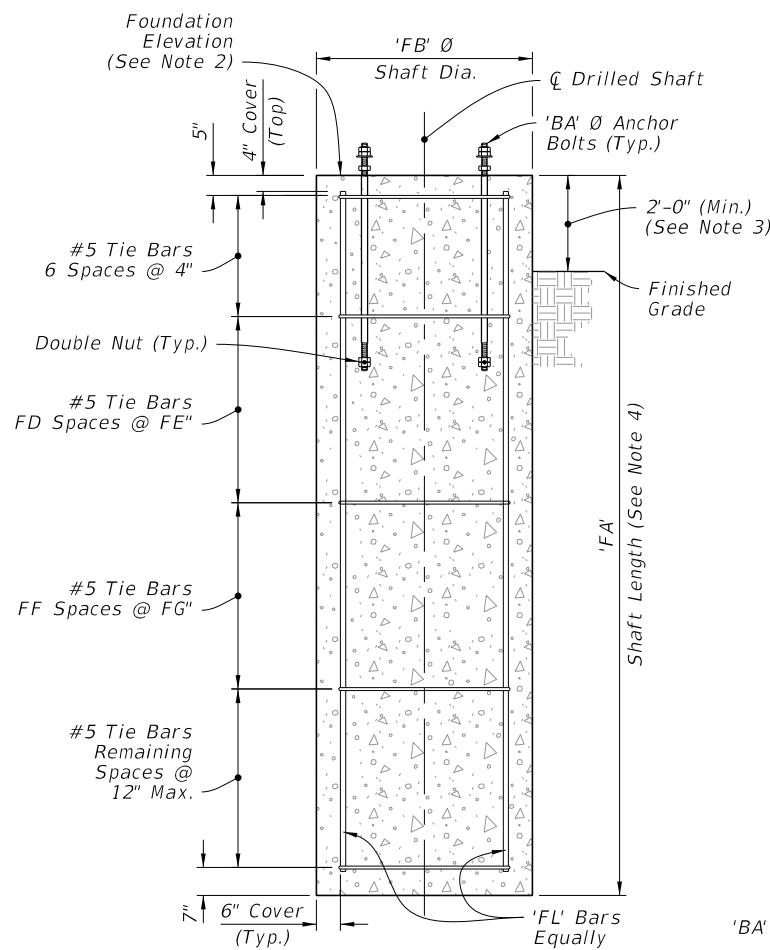
SIDE ELEVATION



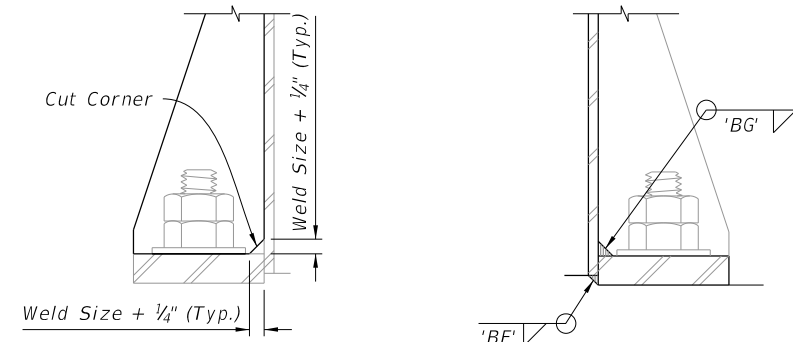
FRONT ELEVATION
FOOTING AND PEDESTAL



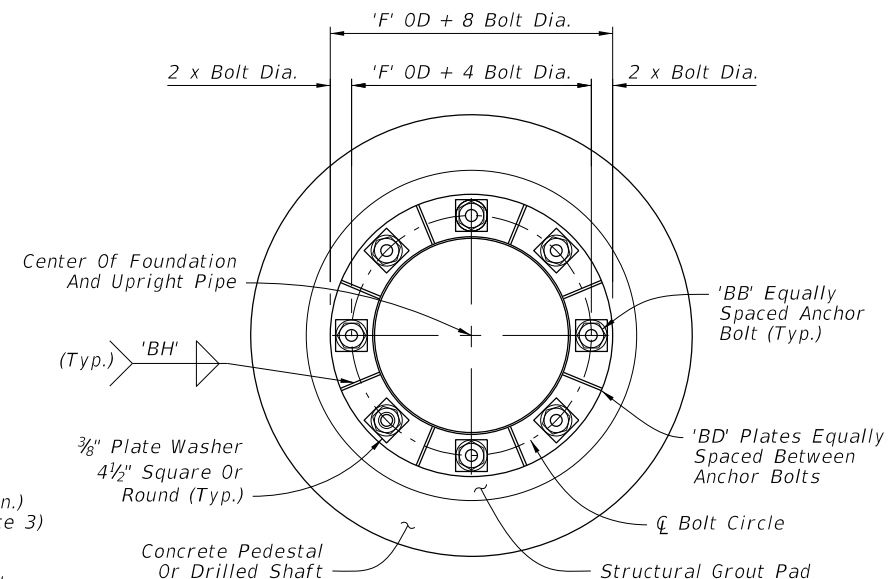
PLAN



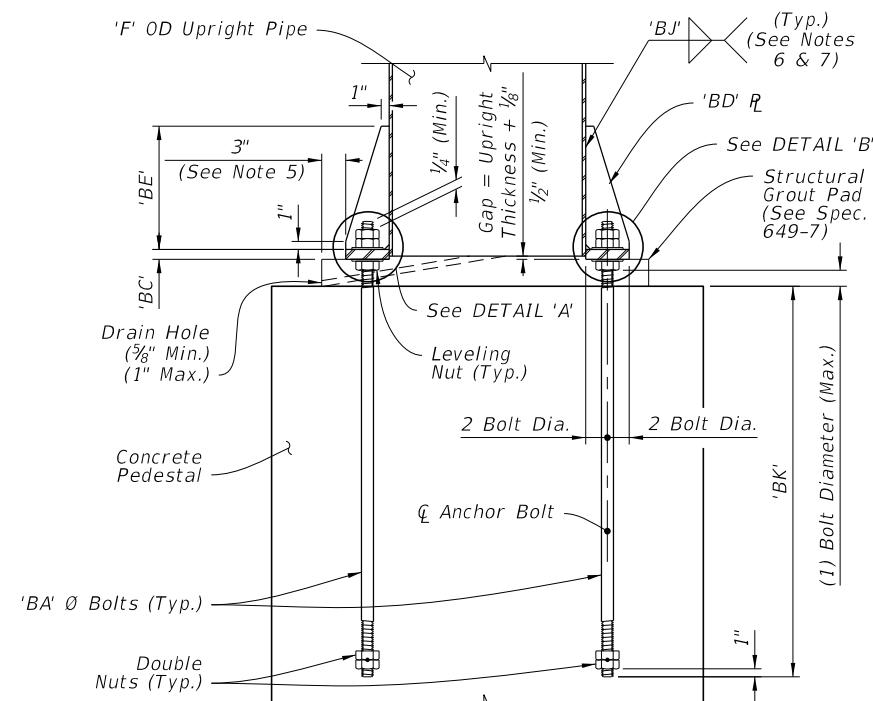
ELEVATION
DRILLED SHAFT
(Alternate Foundation)



DETAIL 'A' DETAIL 'B'



PLAN



ELEVATION

FOUNDATION BASE PLATE CONNECTION

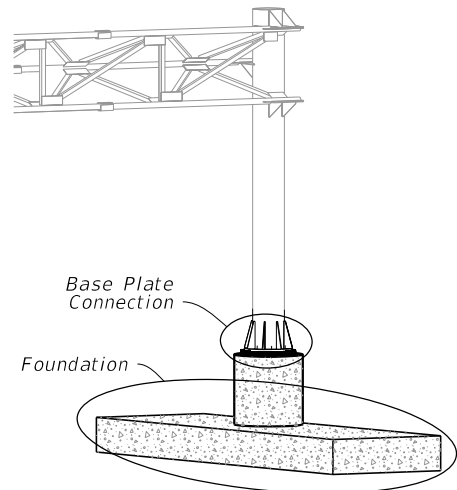
NOTES:

1. Construction joint allowed, roughen surface to 1/4" minimum amplitude prior to pour.
2. See Traffic Plans for elevation at top of Foundation.
3. Install Drilled Shaft with a 2'-0" minimum from top elevation of the drilled shaft to the finished grade, unless specified otherwise in the plans.
4. The shaft length is based on 2'-0" height above finished grade.
5. Structural Grout Pad dimension may be modified to be less than 3" where the footprint of the Structural Grout Pad does not provide adequate clearance for accessibility considerations.
6. Wrap fillet weld around the stiffener termination on the tube wall.
7. Provide ultrasonic testing for Lamellar Tearing when wall thickness exceeds 1/2"

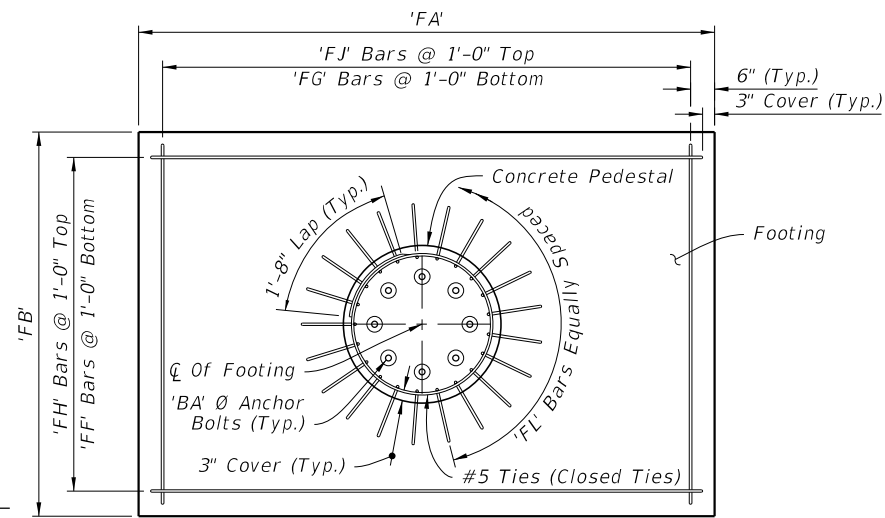
After galvanizing, provide magnetic particle testing on 100% of upright fillet welds.

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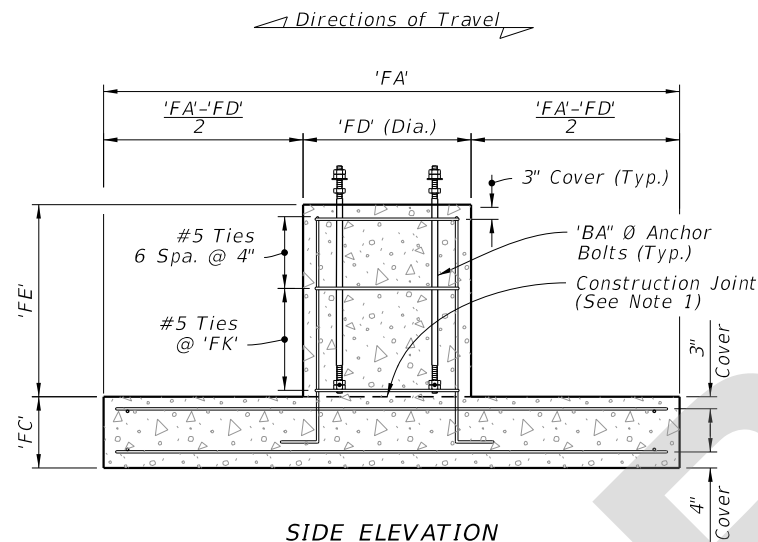
LAST REVISION		DESCRIPTION:	FY 2021-22 2022-23		CANTILEVER SIGN STRUCTURE		INDEX	SHEET
11/01/20	11/01/21		STANDARD PLANS				700-040	2 of 5



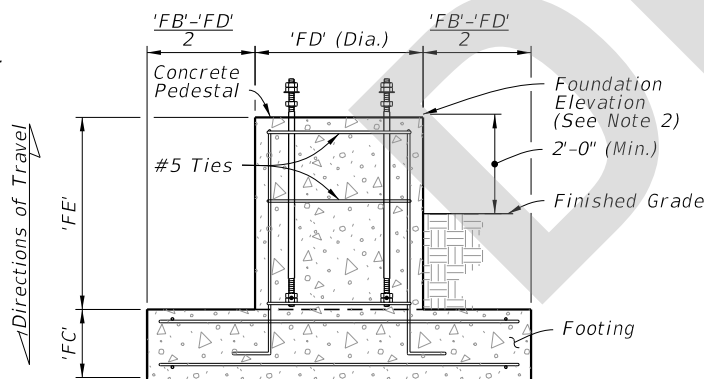
CANTILEVER ASSEMBLY



PLAN

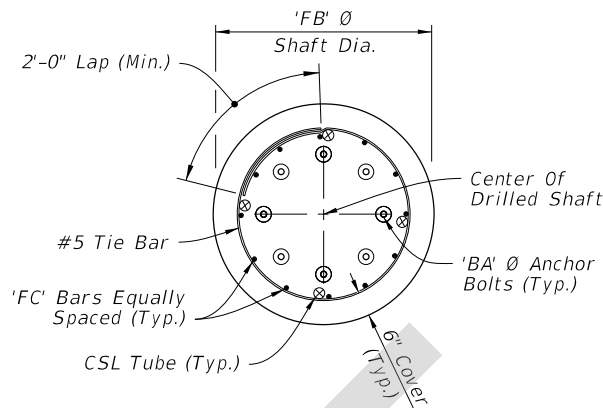


SIDE ELEVATION

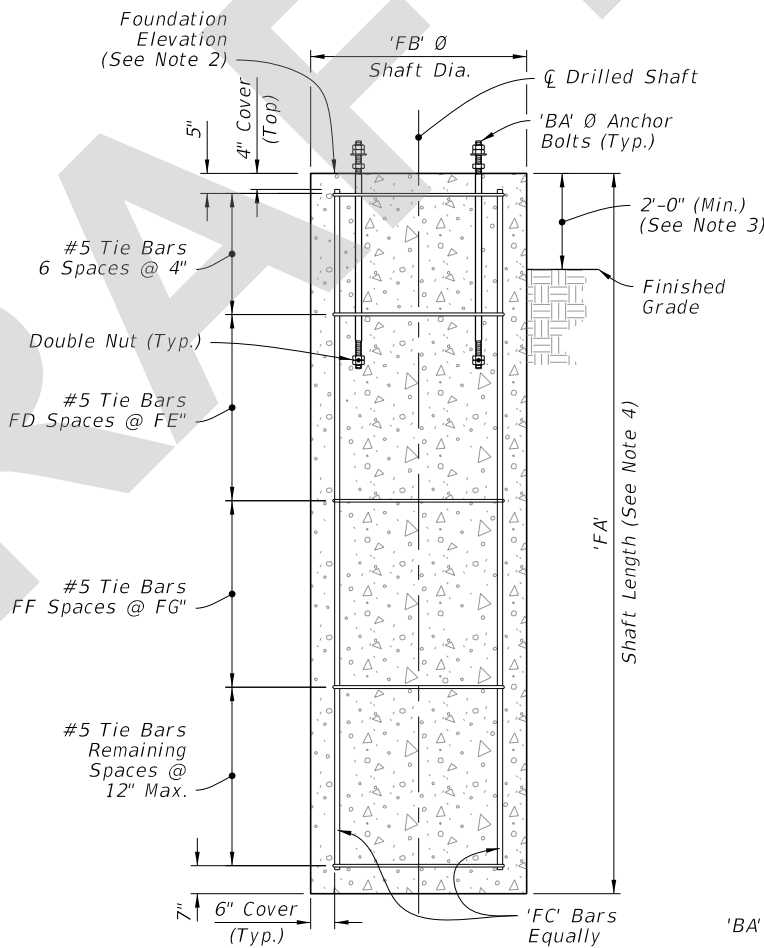


FRONT ELEVATION

FOOTING AND PEDESTAL

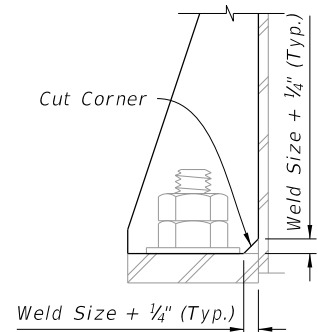


PLAN

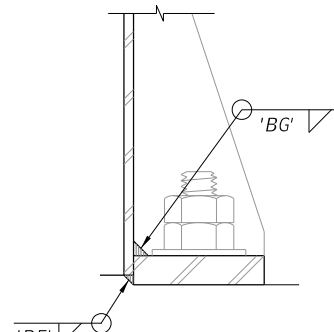


ELEVATION

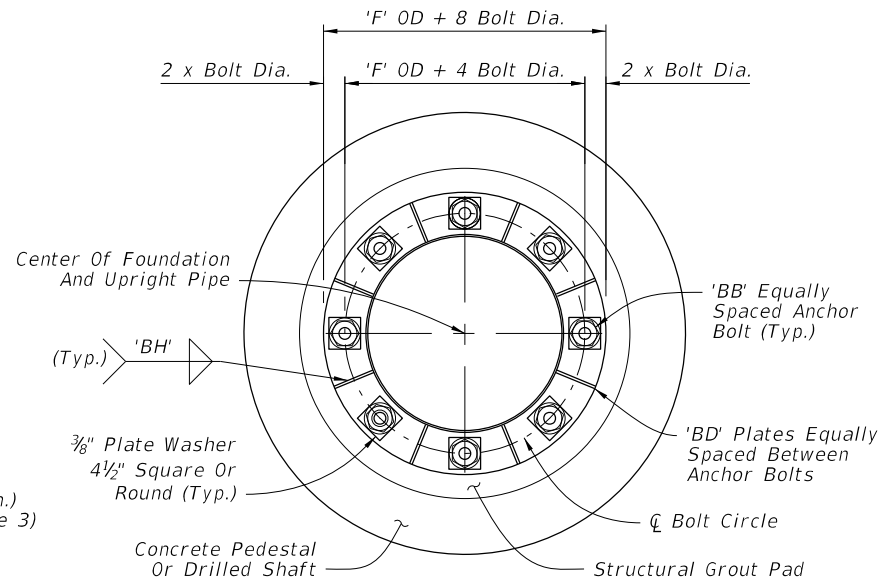
DRILLED SHAFT
(Alternate Foundation)



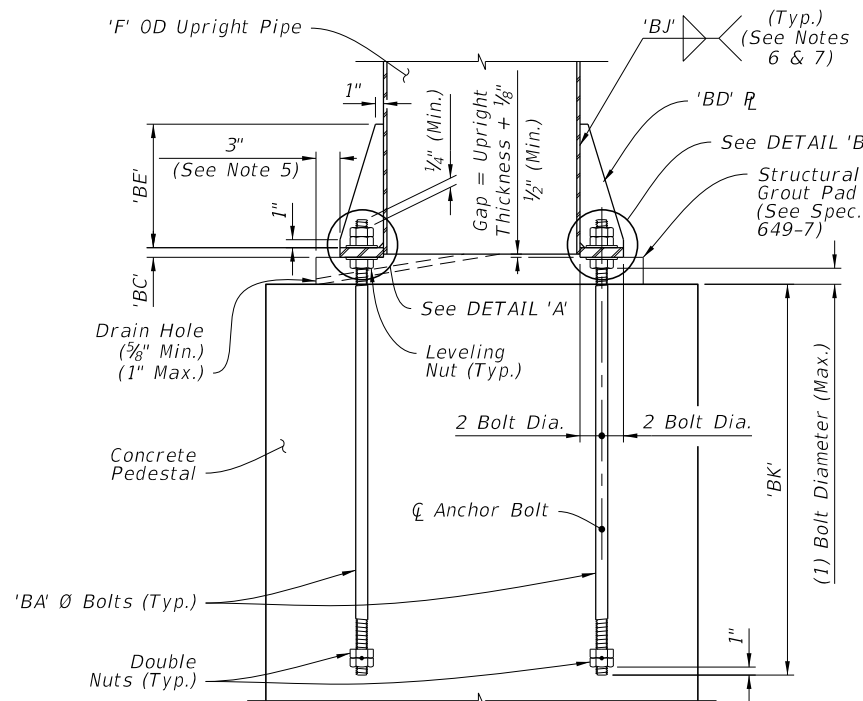
DETAIL 'A'



DETAIL 'B'



PLAN



ELEVATION

BASE PLATE CONNECTION

NOTES:

1. Construction joint allowed, roughen surface to 1/4" minimum amplitude prior to pour.
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3. Install Drilled Shaft with a 2'-0" minimum from top elevation of the drilled shaft to the finished grade, unless specified otherwise in the plans.
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6. Wrap fillet weld around the stiffener termination on the tube wall.
7. After galvanizing, provide magnetic particle testing on 100% of upright fillet welds.

8/30/2021 1:47:35 PM

LAST REVISION		DESCRIPTION:		FY 2022-23 STANDARD PLANS		CANTILEVER SIGN STRUCTURE		INDEX	SHEET
11/01/21				FDOT				700-040	2 of 5