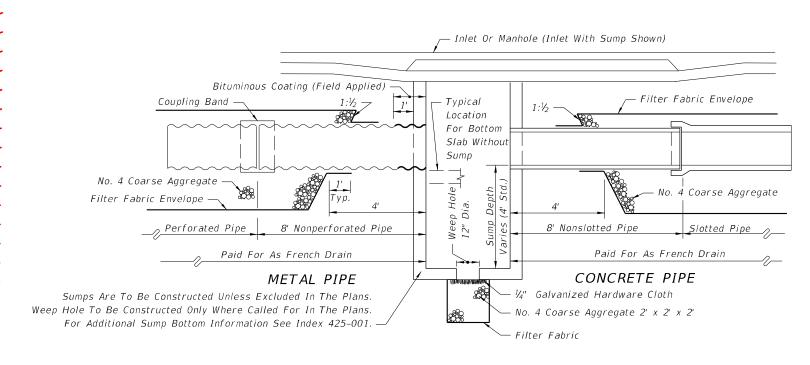
ORIGINATION FORM

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

Contact Information: Date: May 7, 2018 Originator: Rick Jenkins Phone: (850) 414-4355 Email: Rick.Jenkins@dot.state.fl.us	Standard Plans: Index Number: 443-001 Sheet Number (s): 1 of 1 Index Title: French Drain					
Summary of the changes: Update and Reorganized Index. Removing language and moving it to the appropriate document (Specs, SPI).						
Re-writing language to be first person imperative.						
Commentary / Background:						
Other Affected Offices / Documents: (Provide name of responsible personnel)					
Yes No ✓ Other Standard Plans –						
FDOT Design Manual –						
Basis of Estimates Manual –						
Standard Specifications – Rick Jenkens						
☐ ☐ Approved Product List ─						
Construction –						
☐						
Origination Package Includes: (Email or h	nand deliver package to Derwood Sheppard)					
Yes N/A ✓ Redline Mark-ups						
Proposed Standard Plan Instructions (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						

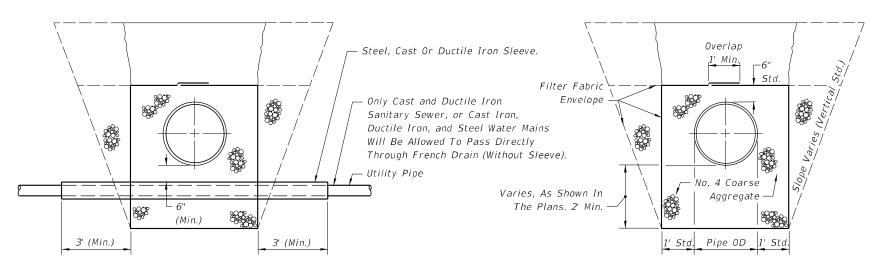
NEW SHEET 1 OF 3

"GENERAL NOTES - TABLE OF CONTENTS - FRENCH DRAIN ASSEMBLY



LONGITUDINAL SECTION

SHEET 2 - UPDATED



ROUND PIPE SHOWN UTILITY PIPES THRU FRENCH DRAIN

ROUND PIPE SHOWN STANDARD CROSS SECTION (ENLARGED)

FRENCH DRAIN SYSTEM

GENERAL NOTES

- 1. Pipe shall be any of the optional types permitted in Section 443 of the Specifications unless otherwise restricted in the plans. Dissimilar types of pipe will not be permitted in a continuous run of pipe
- 2. Concrete pipe shall be placed with the slots positioned on sides.
- 3. Alignment joints are standard (gaskets not required). Recorrugation of metal pipe ends
- 4. The contractor may submit other methods of providing slots having equal or greater area of opening, for approval by the Engineer.
- 5. Filter fabric shall be Type D-3 meeting the requirements of Section 985. All filter fabric joints shall lap a minimum of one (1) foot.
- 6. The standard cross section shall be constructed unless other section(s) described or detailed in the plans.
- 7. For supplemental details see Index 430-001.
- 8. The contractor shall take the necessary precautions to prevent contamination of the trench with sand, silt and foreign materials.
- 9. French drains shall be paid for under the contract unit price for French Drains, LF. The unit price shall include the cost of pipe, pipe plugs, pipe fittings, coarse aggregate and filter fabric in place, and the cost for trench excavation, backfill and compaction. The unit price shall also include the cost for disposal of surplus excavated materials and cost for restoration of pavement removed or damaged by french drain construction, but shall not include payments for items paid for elsewhere.

MOVED TO SHEET 1 - UPDATED

Pipe invert should be at or above the water table whenever possible.

French drains with minor dimensional changes or otherwise different from the standard cross-section shall be either described or detailed in the plans. French drains with significantly different cross-sections shall be detailed in the plans.

MOVED TO SPI OR SPECIFICATIONS

2 OF 3 -

LAST REVISION

11/01/17

DESCRIPTION:

- 11/01/19



FY 2019-20 STANDARD PLANS

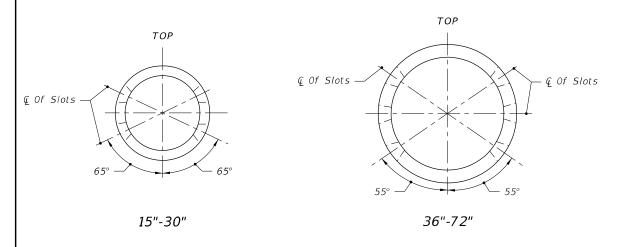
FRENCH DRAIN

INDEX

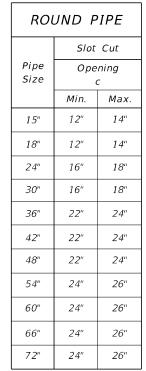
SHEET

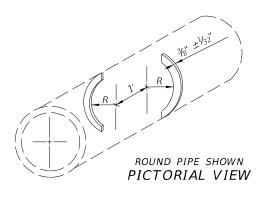
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443-001

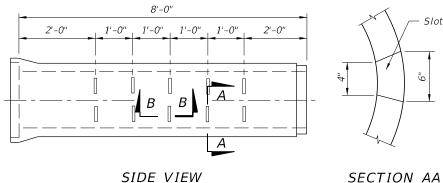


ELLIPTICAL PIPE				
Slot	Cut			
Opening C				
Min.	Max.			
10"	12"			
14"	16"			
14"	16"			
20"	22"			
20"	22"			
20"	22"			
	Slot Ope 0 Min. 10" 14" 20" 20"			

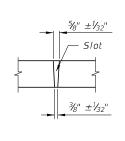




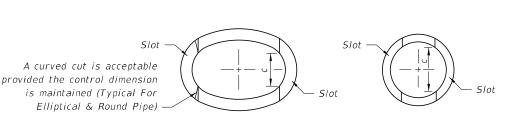
UPDATED SHEET



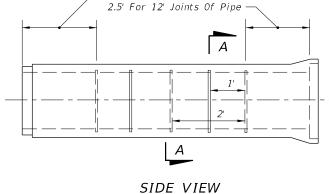
SECTION AA OPTION A - ROUND PIPE



SECTION BB



ELLIPTICAL PIPE ROUND PIPE SECTION AA



2' For 8' Joints Of Pipe

OPTION B - ROUND OR ELLIPTICAL PIPE

3 OF 3 -

SLOTTED PIPE OPTIONS

_ 11/01/19

≥ DESCRIPTION: LAST REVISION 11/01/17

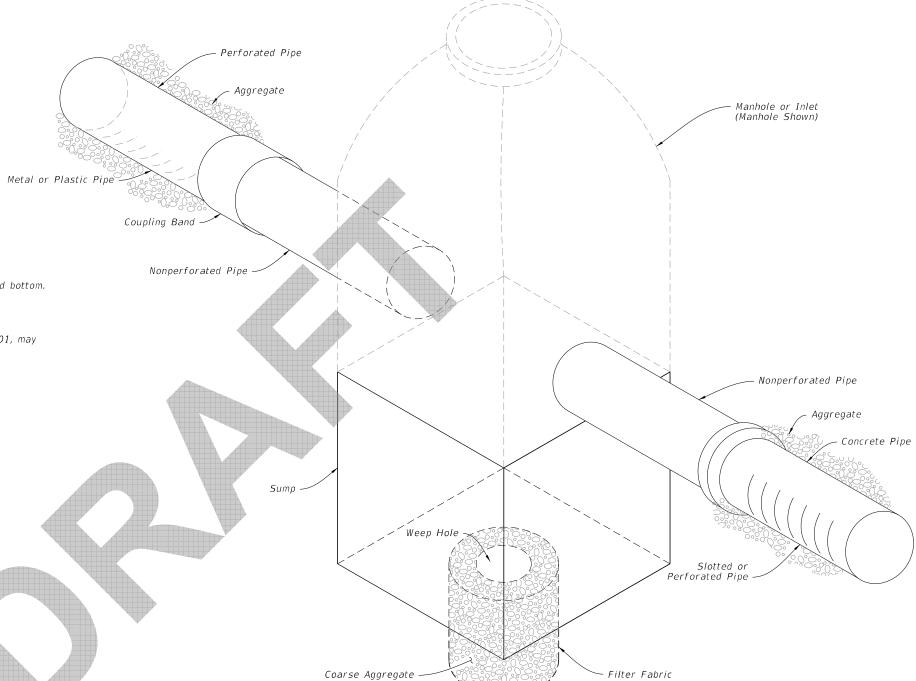
FY 2019-20 STANDARD PLANS

FRENCH DRAIN

INDE 443-001

SHEET 2 of 2

FDOT



= FRENCH DRAIN ASSEMBLY =

1. Install light duty cast iron cover and frame in accordance with Specifications 962.

2. Use Class I concrete. Use No. 3 bars (Grade 60) on 8" centers both ways, sides and bottom.

3. Furnish covers with pick holes. Do not use fitted lifts or handles.

4. Manhole Type P Alternate A, Index 425-010, Type I Frame and Cover, Index 425-001, may be used in lieu of the box detailed in this Index.

TABLE OF CONTENTS:		
Sheet	Description	
1	General Notes and Contents	
2	Typical Inspection Box Installation	
3	Typical Urban, Slope, and Top Adjustment Installations	

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FDOT

Manhole/Sump Filter Fabric Envelope Filter Fabric Envelope Coupling Band NOTES: 1. Construct sumps unless excluded in the Plans. 2. For additional sump bottom information see Index 425-001. 3. Construct weep holes only where called for in the Plans. 4. Only cast and ductile iron sanitary sewer, or cast iron, ductile and steel water mains will be allowed to pass directly through french drain (without sleeve). 5. Use only steel, cast or ductile iron sleeves. No. 4 Coarse Aggregate No. 4 Coarse Aggregate 6. No slots or perforations. PLAN - Manhole or Inlet (Manhole With Sump Shown) Bituminous Coating for Metal Pipe Only (Field Applied) Over Lap 1'-0" (Min.) Filter Fabric Envelope Filter Fabric Envelope No. 4 Coarse Filter Fabric Aggregate Envelope Coupling Band 1'-0" Typical Location for Bottom Slab Without Sump Varies, As Shown in Varies, As -Shown in the Plans Тур. (Typ.) 1'-0" Ø the Plans Weep 4'-0" Hoľe (See Note 3) 1'-0" No. 4 Coarse Aggregate (Typ.) Pipe OD (Typ.) Perforated Pipe Slotted or Perforated Pipe 8'-0" (See Note 6) 8'-0" (See Note 6) SECTION A-A Sump (See Notes 1 & 2) — Filter Fabric Envelope 1/4" Galvanized Hardware Cloth No. 4 Coarse Aggregate (2'x2'x2') METAL OR PLASTIC PIPE CONCRETE PIPE **ELEVATION** FRENCH DRAIN (Round Pipe Shown) FRENCH DRAIN SYSTEM DESCRIPTION: LAST FY 2020-21 REVISION

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STANDARD PLANS

INDEX SHEET 443-001

FRENCH DRAIN

2 of 3

Sleeve (See Note 5)

Utility (See Note 4)

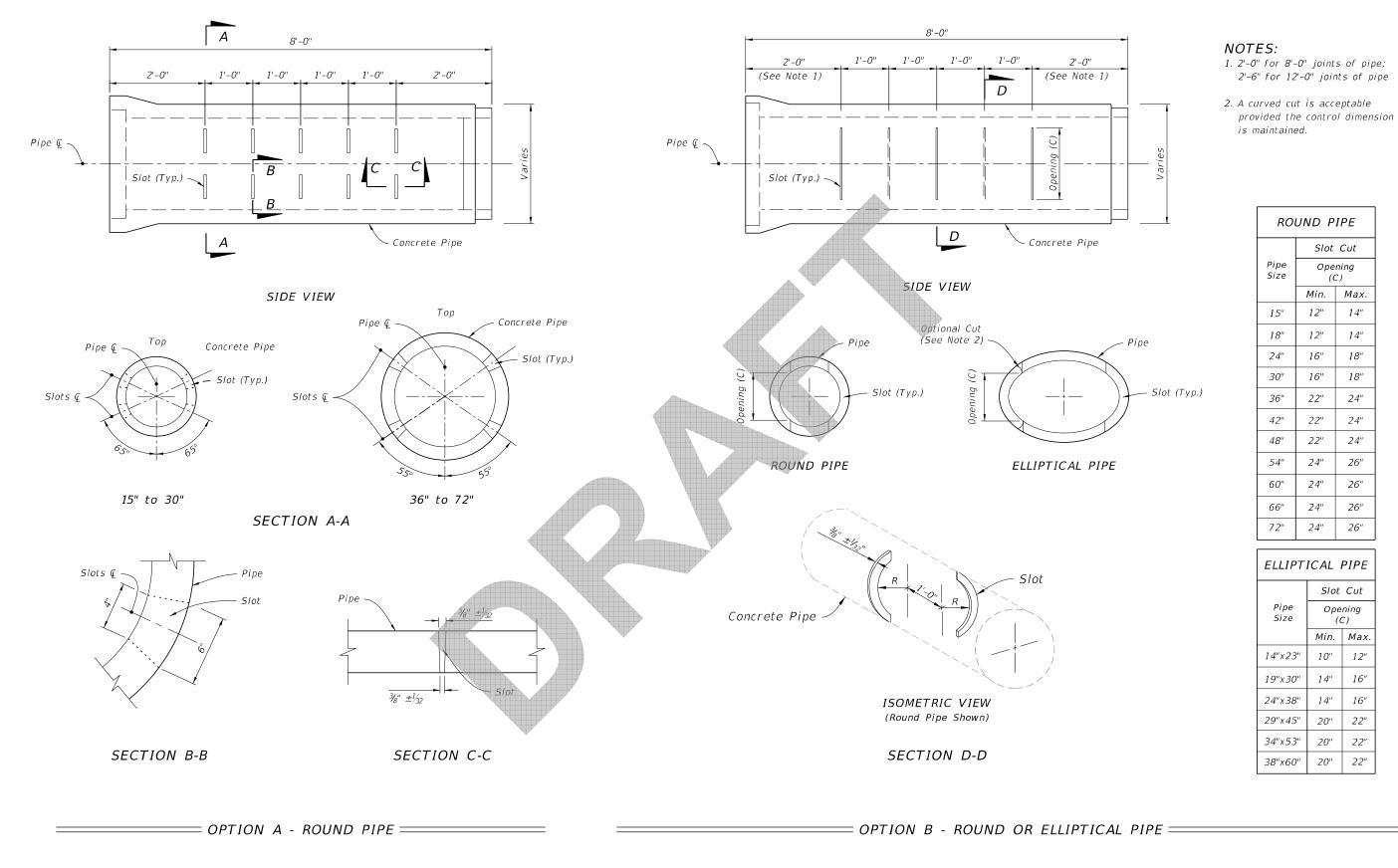
- No. 4 Coarse Aggregate

Varies, As

Shown in

the Plans

- Utility Pipe (See Note 4)



RO	ROUND PIPE			
	Slot	Cut		
Pipe Size	Opening (C)			
	Min.	Max.		
15"	12"	14"		
18"	12"	14"		
24"	16"	18"		
30"	16"	18"		
36"	22"	24"		
42"	22"	24"		
48"	22"	24"		
54"	24"	26"		
60"	24"	26"		
66"	24"	26"		
72"	24"	26"		

ELLIPT.	PIPE	
	Slot Cut Opening (C)	
Pipe Size		
	Min.	Max.
14"x23"	10"	12"
19"x30"	14"	16"
24"x38"	14"	16"
29"x45"	20"	22"
34"x53"	20"	22"
38"x60"	20"	22"

CONCRETE SLOTTED PIPE OPTIONS

LAST REVISION 11/01/19

≥ DESCRIPTION:

FDOT

FY 2020-21 STANDARD PLANS

FRENCH DRAIN

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