

## GENERAL NOTES:

- 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		

= FRENCH DRAIN ASSEMBLY ===

#### 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. Weep Hole 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. PLANManhole or Inlet (Manhole With Sump Shown) Bituminous Coating for Metal Pipe Only (Field Applied) Over Lap 1'-0" (Min.) No. 4 Coarse Aggregate Filter Fabric Filter Fabric Envelope Filter Fabric Envelope Envelope Coupling Band Typical Location for Bottom Slab Without Sump Varies, As Varies, As -Shown in 1'-0" Shown in (Typ., 1'-0" Ø (Typ.)the Plans the Plans Weep Hole (See 1'-0" No. 4 Coarse Aggregate Note 3) (Typ.) Pipe OD (Typ.) Perforated Pipe 8'-0" (See Note 6) 8'-0" (See Note 6) Slotted or Perforated Pipe 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)

**REVISION** 11/01/19

DESCRIPTION:

FDOT

INDEX 443-001

FRENCH DRAIN SYSTEM

SHEET 2 of 3

Sleeve (See Note 5)

Utility (See Note 4)

No. 4 Coarse Aggregate

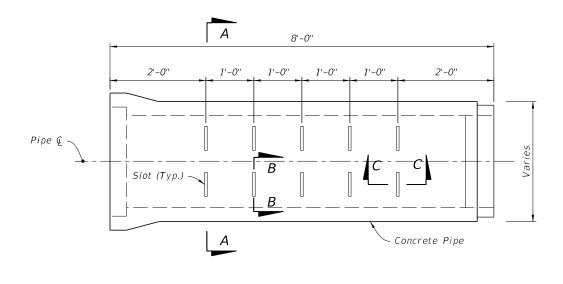
Varies, As

Shown in

the Plans

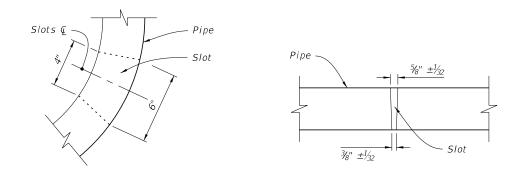
Utility Pipe

(See Note 4)



# SIDE VIEW Concrete Pipe Concrete Pipe - Slot (Typ.) Slot (Typ.) 15" to 30" 36" to 72"

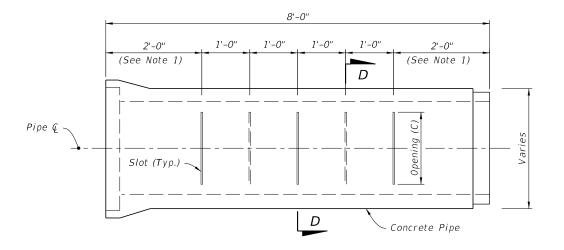
### SECTION A-A



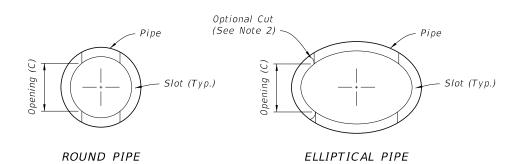
= OPTION A - ROUND PIPE =

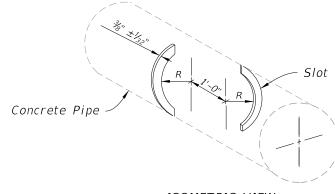
SECTION B-B

SECTION C-C



#### SIDE VIEW





ISOMETRIC VIEW (Round Pipe Shown)

SECTION D-D

#### NOTES:

- 1. 2'-0" for 8'-0" joints of pipe; 2'-6" for 12'-0" joints of pipe
- 2. A curved cut is acceptable provided the control dimension is maintained.

ROUND PIPE				
Slot Cut				
Opening (C)				
Min.	Мах.			
12"	14"			
12"	14"			
16"	18"			
16"	18"			
22"	24"			
22"	24"			
22"	24"			
24"	26"			
24"	26"			
24"	26"			
24"	26"			
	Slot Ope (C Min. 12" 16" 16" 22" 22" 22" 24" 24"			

ELLIPTICAL PIPE			
	Slot Cut		
Pipe Size	Opening (C)		
	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"	

= OPTION B - ROUND OR ELLIPTICAL PIPE =

# CONCRETE SLOTTED PIPE OPTIONS

REVISION 11/01/19

FDOT

FY 2020-21 STANDARD PLANS

FRENCH DRAIN

INDEX 443-001

SHEET 3 of 3

DESCRIPTION: