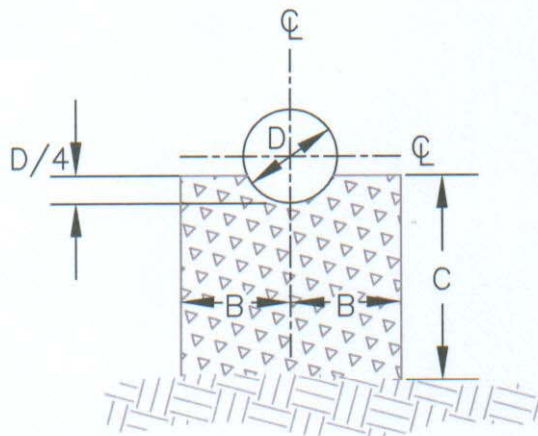


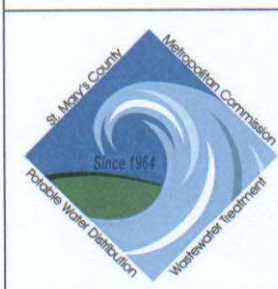
Buttresses For Vertical Bends						
D		Size				
		6"	8"	10"	12"	16"
1/32	A	1'-6"	1'-6"	1'-5"	3'-0"	3'-6"
	B	1'-3"	1'-9"	1'-3"	2'-0"	2'-0"
	C	2'-0"	2'-6"	2'-9"	3'-0"	4'-0"
1/16	A	2'-0"	3'-4"	3'-8"	4'-0"	4'-4"
	B	1'-9"	2'-3"	2'-6"	2'-6"	2'-6"
	C	2'-6"	2'-8"	3'-10"	4'-0"	5'-6"
1/8	A	2'-6"	3'-0"	4'-0"	4'-6"	5'-2"
	B	2'-6"	2'-9"	3'-0"	3'-6"	4'-0"
	C	3'-0"	4'-0"	4'-6"	4'-9"	6'-6"



Section D-D

Notes:

1. All concrete shall be MDOT SHA mix #1, (2500 p.s.i) or as directed by the Engineer.
2. Buttress dimensions shown are minimum. dimensions are based upon a soil bearing pressure of 3000 p.s.f. and static water pressure of 150 p.s.i. where soil bearing pressure is less than 3000 p.s.f. or water pressure exceeds 150 p.s.i., special buttress design shall be required.
3. Buttress shall extend to undisturbed soil.



APPROVED

*CIF*

C. I. FREDERICK JR., P.E.  
CHIEF ENGINEER

DATE: 7/1/09

REVISIONS

DATE

INITIALS

6/18/09

J.E.C.

ST. MARY'S COUNTY  
METROPOLITAN COMMISSION  
STANDARDS FOR PUBLIC WATER, SEWER  
AND INCIDENTAL STRUCTURES

BUTTRESSES FOR  
VERTICAL BENDS

STANDARD NO. G-3