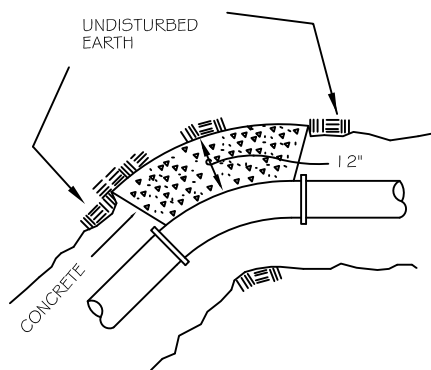
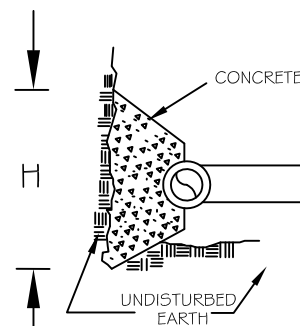


PLAN VIEW AT TEE



PLAN 45° BENDS
ALSO 90°, 22 1/2°, 11 1/2°



ELEVATION AT FITTINGS

THRUST BLOCKING SCHEDULE

PIPE SIZE	11 1/4° BEND		22 1/2° BEND		45° BEND		90° BEND		TEE		TEST PRESSURE (PSI)
	L	H	L	H	L	H	L	H	L	H	
6"	1'-3"	1'-0"	2'-3"	1'-0"	2'-6"	1'-6"	2'-9"	1'-6"	2'-0"	1'-6"	200
8"	1'-6"	1'-6"	2'-6"	1'-9"	3'-0"	2'-0"	3'-9"	2'-0"	2'-6"	2'-0"	200
12"	2'-6"	1'-9"	4'-0"	2'-3"	4'-3"	3'-0"	5'-0"	3'-3"	4'-0"	3'-0"	200
14"	3'-0"	1'-0"	4'-0"	3'-0"	4'-6"	3'-9"	6'-0"	3'-9"	4'-6"	3'-6"	200
16"	3'-0"	2'-9"	4'-6"	3'-6"	5'-0"	4'-6"	7'-0"	4'-3"	5'-0"	4'-0"	200

NOTES:

1. THRUST BLOCK DIMENSIONS ARE BASED ON SOIL BEARING CAPACITY OF 2000 P.S.F. AND A TEST PRESSURE OF 200 PSI. SIZES OF THRUST BLOCKS MAY BE REVISED BY THE DESIGN ENGINEER AND APPROVAL BY THE WATER RESOURCES ENGINEERING MANAGER WHERE BEARING CAPACITY OF SOIL VARIES.
2. ALL PIPES AND FITTINGS WHICH COME INTO CONTACT WITH CONCRETE SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT.
3. ALL CONCRETE THRUST BLOCKS SHALL BE 3500 PSI PORTLAND CEMENT CONCRETE.
4. JOINTS SHALL REMAIN FREE OF CONCRETE FOR INSPECTION, REPAIR OR REPLACEMENT OF JOINTS.
5. NO THRUST BLOCKING OF VERTICAL BENDS SHALL BE PERMITTED. THE CONTRACTOR SHALL UTILIZE WEDGE ACTION RESTRAINER GLANDS FOR JOINT RESTRAINT.

#	REVISED	DATE:	7/1/04	STANDARD DETAIL	WATER RESOURCES DEPARTMENT CITY OF MONROE, NC	
1	11/1/2013	SCALE:	NONE			
2	10/27/2015	DRAWN BY:	DSW	WATER MAIN THRUST BLOCK DETAIL	FILE NO.	10.02.00
3	1/26/2017	CHECKED BY:	RKS			
		APPROVED BY:	RKS			
					DIV. NO.	10