

NOMINAL PIPE DIAMETER INCHES	MINIMUM CONCRETE BLOCKING (C.Y.) *				
	TEES & DEAD ENDS	90° BEND	45° BEND	22½° BEND	1¼° BEND
4	1/3	1/3	1/3	1/3	1/3
6	1/3	1/3	1/3	1/3	1/3
8	1/3	1/2	1/3	1/3	1/3
10	2/3	3/4	1/2	1/3	1/3
12	3/4	1.0	2/3	1/3	1/3
14	1.0	1½	3/4	1/2	1/3
16	1½	2.0	1.0	1/2	1/3
18	1¾	2½	1½	2/3	1/3
20	2.0	3.0	1¾	3/4	1/2
24	3.0	4½	2½	1½	2/3

NOTES:
 1) FITTING SHALL BE WRAPPED WITH A MINIMUM 4 MIL PLASTIC.
 2) NO CONCRETE SHALL COVER BOLTS OR GLANDS.
 * CONCRETE SHALL BE 3000 P.S.I. MIX.

DETAIL No. 06000.13
SHEET 1 OF 1

1 STANDARD REACTION BLOCKING
C-DT.06 SCALE: N.T.S.

END VIEW

CROSS SECTION

NOTES:
 1. CONCRETE SHALL BE 3000 P.S.I.
 2. CONCRETE ENCASEMENT NOT REQUIRED WHEN PIPE IS AT LEAST THREE (3) FEET UNDER CENTERLINE OF CREEK BOTTOM.

DETAIL No. 07000.14
SHEET 1 OF 1

4 STANDARD CONCRETE ENCASEMENT
C-DT.06 SCALE: N.T.S.

PLAN VIEW

SECTION VIEW

REINFORCING CROSS SECTION

PIPE DIAMETER	CONCRETE THRUST COLLAR		ANCHOR RING	RINGS REQUIRED
	A	B		
6", 8", 12"	1'-0"	1'-0"	2"	ONE
16"	1'-4"	1'-0"	2"	ONE
20"	1'-4"	1'-0"	3"	ONE
24"	1'-4"	1'-0"	3"	TWO
30"	1'-4"	1'-2"	4"	TWO
36"	1'-4"	1'-4"	4"	TWO

NOTES:
 6" TO 16" MAINS = 12-NO. 7 BARS
 20" TO 36" MAINS = 12-NO. 8 BARS BARS PLACED AS SHOWN

DETAIL No. 06000.14
SHEET 1 OF 1

2 STANDARD THRUST COLLAR INSTALLATION
C-DT.06 SCALE: N.T.S.

PLAN

ELEVATION

GENERAL NOTES:
 1. 3000 P.S.I. SOLID CONCRETE BLOCKING BEHIND SLEEVE.
 2. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
 3. 12" X 12" AND 18" X 18" TAPPING SLEEVE IS NOT ALLOWED.

5 STANDARD TAPPING SLEEVE AND VALVE ASSEMBLY
C-DT.06 SCALE: N.T.S.

STANDARD BEDDING FOR 3' TO 14' DEPTHS

SPECIAL BEDDING FOR 14'-30' DEPTHS

NOTES:
 1. EMBEDMENT MATERIAL MUST BE CLASS 1 (#67 OR #78M WASHED STONE IS TYPICALLY USED).
 2. EMBEDMENT MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY FOR CLASS I MATERIAL.
 3. STANDARD BEDDING SHALL BE UTILIZED FOR ALL CASES WHERE TRENCH BOTTOMS ARE UNSTABLE DUE TO SOIL TYPE OR MOISTURE CONDITIONS.
 4. ALL SANITARY SEWER LINES LESS THAN 3 FEET AND OVER 30 FEET IN DEPTH MUST BE DUCTILE IRON PIPE.

DETAIL No. 07000.13
SHEET 1 OF 1

3 BEDDING FOR PVC SANITARY SEWER PIPE
C-DT.06 SCALE: N.T.S.

GENERAL NOTES:
 1. CONCRETE MANHOLE MUST MEET REQUIREMENTS AS OUTLINED IN ASTM C-478.
 2. APPROVED EQUALS MAY BE ACCEPTABLE PROVIDED SHOP DRAWINGS ARE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO INSTALLATION.
 3. CONCRETE MUST BE MINIMUM 4000 PSL.
 4. A RUBBER BOOT OR LINK SEAL MODULAR SEAL MUST BE USED FOR ALL PENETRATIONS INTO MANHOLE.

6 AIR RELEASE VALVE
C-DT.06 SCALE: N.T.S.

10-SP-014
HTE #: 10-1189
APPROVED BY THE TOWN OF CARY
DEVELOPMENT REVIEW COMMITTEE
PLANNER: *[Signature]* DATE: *11/2/10*

HEADQUARTERS

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submittal

**TOWN OF CARY
SITE SUBMITTAL
10-SP-014**

VERIFY SCALE
0 1
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT 1 INCH ON THIS SHEET, ADJUST SCALE.

ISSUE

1	06/10/10	1ST SUB. - TOC
2	07/29/10	2ND SUB. - TOC
3	09/13/10	3RD SUB. - TOC
4	09/13/10	RELEASED FOR BIDDING
5	10/04/10	REVISED FOR BIDDING
6	11/05/10	MYLARS - TOC

MARK | DATE | DESCRIPTION

PROJECT NO: E7X76708
CAD FILE: C-DT.06.DWG
DRAWN BY: TJD
CHECKED BY: JWJ QC BY: TJW
SCALE: PER PLAN
DATE: June 10, 2010

sheet title

**WATER & SEWER
DETAILS II**

sheet number

C-DT.06