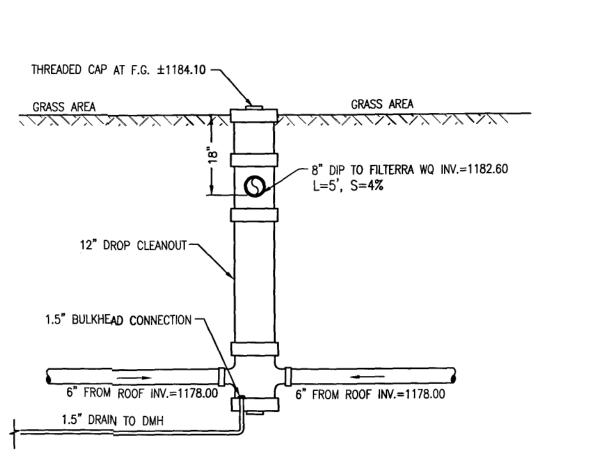


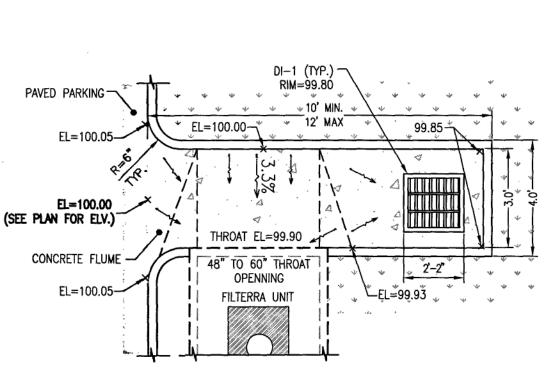
WATER MAIN CROSSING

WHEN A SANITARY SEWER LATERAL CROSSES OVER A WATER LINE. A MINIMUM VERTICAL CLEARANCE OF 18" SHALL BE PROVIDED. IF THIS CLEARANCE IS NOT POSSIBLE, THEN BOTH THE WATER LINE AND THE SEWER LINE WILL BE ENCASED IN CONCRETE UNTIL THERE IS A 10' HORIZONTAL CLEARANCE BETWEEN THE TWO LINES.

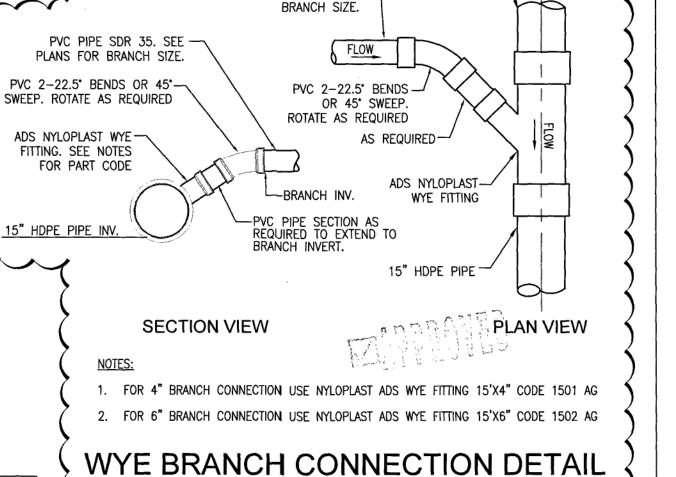
2. ADHERE TO THE CRITERIA FOR THE SEPARATION BETWEEN WATER MAINS AND THE STORM AND SANITARY SEWER LINES AS DESCRIBE WHEREVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATER MAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATER MAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATER MAIN SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEFPING A MINIMUM 18 INCH VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATER MAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18 INCH VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN



REVERSED DROP CLEANOUT ASSEMBLY



CONCRETE FLUME DETAIL



PVC PIPE SDR 35. -SEE PLANS FOR

15" HDPE PIPE -

Southborough, MA 01772 t: 508 229 0032

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ISSUE/REVISION RECORD

DESCRIPTION 06/05/15 CONCEPTUAL LAYOUT 07/01/15 CONCEPTUAL SUBMITTAL 07/14/15 COORDINATION SET 07/27/15 COUNTY RESPONSE 09/08/15 COUNTY RESPONSE ; 10/14/15 COUNTY RESPONSE 1/02/15 BID SET 2/03/15 County response # 12/23/15 CONSTRUCTION SET

PROFESSIONAL IN CHARGE JOHN NOURZAD P.E. PROJECT MANAGER ANDRE PIMENTEL **QUALITY CONTROL**

STEPHEN POWERS P.E. DRAWN BY R. SCHNEPPER E.I.T.

PROJECT NAME **TEXAS ROADHOUSE**

ROANOKE VIRGINIA

SOUTH PEAK BOULEVARD



PROJECT NUMBER 20140788.0

SHEET TITLE

CONSTRUCTION **DETAILS**

SHEET NUMBER