



MIN $\frac{3}{8}$ " THICK BITUMINOUS COATED STEEL CASING PIPE, AUGERED & JACKED

SANITARY SEWER, STORM SEWER OR WATER MAIN (CARRIER PIPE)

INSTALL ALL STAINLESS STEEL CASING SPACERS (BY CASCADE OR APPROVED EQUAL) FOR EACH PIPE LENGTH ON 6' CENTERS, OR AS RECOMMENDED BY THE MANUFACTURER

BRICK AND MORTAR BULKHEAD (BOTH ENDS) AS APPROVED BY THE CITY ENGINEERING DIVISION, PRIOR TO BACKFILLING OR INSTALL END BOLTS (BY CASCADE OR APPROVED EQUAL)

NOTES:

1. CASING PIPE IS REQUIRED UNDER ALL EXISTING ROADWAYS, OR AS OTHERWISE DIRECTED BY THE ENGINEERING DIVISION WHERE OPEN CUTS ARE NOT PERMITTED, EXCEPT FOR WATER SERVICE LINES UP TO 2" IN DIAMETER.
2. WATER MAIN CASING SPACERS SHALL BE RESTRAINED IN POSITION.
3. THE INSIDE DIAMETER OF THE CASING PIPE SHALL BE DETERMINED BY CONTRACTOR BUT IN NO CASE SHALL IT BE LESS THAN 8" LARGER THAN THE DIAMETER OF THE CARRIER PIPE TO ALLOW AMPLE SPACE FOR BELLS, AND CARRIER PIPE SLOPE (FOR GRAVITY PIPE).
4. ALL AUGER PITS TO BE BACKFILLED WITH IDOT CA-7 VIRGIN CRUSHED LIMESTONE MATERIAL.
5. POLY WRAPPED WATER MAIN REQUIRED IN CASING.

NOT TO SCALE

**CASING PIPE
DETAIL**

DATE: 11-2-09