



- NOTES:
- FOR VENT, BEND DOWN IN EXCESS OF 11" MIN. BEND, ANCHORAGE SHALL BE DESIGNED BY ENGINEER.
  - FOR VENT, BEND UPWARD, BLOCKING TO BE SIMILAR TO THAT FOR HORIZ. BEND.
  - GLANDS & BOLTS SHALL BE PROTECTED FROM CONC. BY PLASTIC SHEETING WHEN POURING THURST BLOCKS.
  - ALL THURST BLOCK & SUPPORT CONC. SHALL BE 3000 PSI READY MIX CONC.
  - THURST BLOCKS WITH "W" DIMENSION GREATER THAN 30" SHALL HAVE THE RESTRAINED PIPE INSTALLED WITH A MINIMUM OF 4" OF COVER.
  - IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINTS MUST BE USED. IF EQUAL OR GREATER THAN 100 PSI WORKING PRESSURE, BOTH BLOCK AND RESTRAINT JOINTS ARE REQUIRED.

REVISION DATE: 07/20/04

THURST BLOCK CONSTRUCTION

W-19

REVISION DATE: 07/20/04

THURST RESTRAINT OF PIPE JOINTS DESIGN LENGTHS

W-20

REVISION DATE: 07/20/04

PIPE SUPPORT IN CASING PIPE

W-22

REVISION DATE: 07/20/04

BEDDING AND BACKFILL OUTSIDE OF PAVED AREAS

W-24

REVISION DATE: 07/20/04

SANITARY SEWER LATERAL

S-08

REVISION DATE: 07/20/04

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SANITARY SEWER LATERAL

S-08

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- NOTES:
- ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED.
  - REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED. RESTRAINED LENGTH IS UPSTREAM OF THE LARGER SIZE OF THE REDUCER.
  - IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINTS ARE TO BE USED. IF EQUAL OR GREATER THAN 100 PSI WORKING PRESSURE, BOTH BLOCK AND RESTRAINT JOINTS ARE REQUIRED.

PIPER

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