



SECTION

GENERAL NOTES:

1. INSTALLATION SHALL GENERALLY BE FOR A MAIN-LINE 16" AND SMALLER (2" COMBINATION AIR VALVE SHOWN). INSTALLATION OF OTHER SIZED VALVES IS SIMILAR.
2. PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478 AND SHALL MEET HS-20 LOADING. PROVIDE REINFORCEMENT WITHIN 3" @ OPENINGS OR KNOCKOUTS, OPENINGS (UP TO 8") MADE IN FIELD SHALL BE CORE DRILLED.
3. MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
4. ECCENTRIC CONE SECTION REINFORCEMENT IN ACCORDANCE WITH ASTM C-478.
5. VALVE AND PIPE SIZES AS SPECIFIED.
6. WHERE TOP OUTLET FITTING IS NOT PROVIDED BY MANUFACTURER, PROVIDE TAPPING SLEEVE (DRY TAP MAIN LINE) WITH VERTICAL FLANGE TO SIZE OF AIR VALVE.
7. WHEN INSTALLATION IS WITHIN TxDOT R.O.W., VENT PIPE SHALL BE LOCATED 6" FROM TxDOT R.O.W. VENT PIPE SHALL NOT BE PLACED IN SIDEWALK AREA.
8. AIR VENT PIPING (SIZE AS REQUIRED PER COMBINATION AIR VALVE) TO BE SCHEDULE 40 WELDED STEEL WITH FORGED STEEL WELD FITTINGS. BURIED VENT PIPING SHALL HAVE 2 COATS OF EPOXY POLYAMIDE COATING. ABOVE GROUND PIPING TO BE PRIMED AND PAINTED BLUE (PURPLE FOR RECLAIMED) WITH A SEMI-GLOSS ENAMEL AND LABELED "EPWU" WITH WHITE LETTERS.
9. AIR VENT PIPING SHALL BE LOCATED CLEAR OF PAVED ROADWAY.
10. PRE-CAST MANHOLE SHALL NOT REST ON PIPE.
11. 12"x24" FOOTING WITH No.5 REBAR AT 12" ON CENTER EACH WAY IS REQUIRED.

CONSTRUCTION KEY NOTES:

- A. MANHOLE RING AND COVER (SEE DETAILS 377 & 378). SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 185).
- B. MAINLINE, SIZE AS SPECIFIED.
- C. 2" FLANGED GATE VALVE.
- D. 2" CAST IRON COMPANION FLANGE.
- E. COMBINATION AIR VALVE, SIZE AS SPECIFIED.
- F. 2" MALE THREADED BRASS NIPPLE.
- G. 2" FEMALE THREADED BRONZE 90° ELBOW.
- H. 4"x2" CAST IRON REDUCING COMPANION FLANGE.
- I. ANCHOR PIPING TO VALVE VAULT WITH 3"x3"x1/4" ANGLE & 3/8"Ø STRAP.
- J. PIPE WALL SLEEVE (LINK SEAL OR EQUAL).
- K. 4" FLANGED BY PLAIN END SCHEDULE 40 STEEL PIPE (GALVANIZED NOT ALLOWED).
- L. 4" STEEL 90° BEND WELDED.
- M. 4" PLAIN END BY THREADED MALE SCHEDULE 40 STEEL PIPE (GALVANIZED NOT ALLOWED).
- N. BREAK-A-WAY COUPLING, SEE DET 263-5.
- O. INSECT SCREEN.



**STANDARD
DETAIL**

DATE: 4/1994
REV: 7/20/2009

**COMBINATION AIR RELEASE VALVE FOR LINES
16" AND SMALLER
BENEATH PAVING INSTALLATION**

N.T.S.



DETAIL No.
263-2