



**COMBINATION VACUUM RELIEF AIR RELEASE
VALVE ASSEMBLY IN SERVICE MANHOLE**
(FOR DUCTILE IRON, STEEL AND CONCRETE CYLINDER PIPE
WATER LINES 30-INCHES AND LARGER IN DIAMETER)

NOTES:

1. PROVIDE RAM-NEK OR APPROVED EQUAL BETWEEN PRECAST SEGMENTS OF THE MANHOLE. SEE SPECIFICATION SECTION 02082.
2. SEE DRAWINGS FOR PAVEMENT REPAIRS DETAILS.
3. FOR MANHOLES DEEPER THAN 20 FEET, INCREASE SIZE OF ACCESS MANHOLES TO 72-INCH OR 84-INCH DIAMETER & PROVIDE SAFETY CLIMBING RAIL (SAF-T-CLIMB) OR APPROVED EQUAL. SEE SPECIFICATION SECTION 02082.
4. IF 3" AIR VALVE IS CALLED FOR ON THE PLAN AND PROFILE SHEETS THEN PIPING AND APPURTENANCES SHOWN TO BE 2" IN DIAMETER SHALL BE 3" IN DIAMETER, AND SHALL BE CONSTRUCTED OF THE SAME MATERIAL AND CLASS. SEE SPECIFICATION SECTION 02524.
5. PROVIDE AN APPROVED PETROLEUM BASED TAPE ENCAPSULATING ALL BOLTS IN ACCESS MANHOLES & VALVE VAULTS, INCLUDING PRESSURE-REDUCING STATIONS.
6. REFER TO PLAN AND PROFILE SHEETS FOR TYPES AND LOCATIONS OF COMBINATION AIR VALVES.
7. IF 4" AIR VALVE IS CALLED FOR ON THE PLAN AND PROFILE SHEETS, THEN PIPING AND APPURTENANCES SHOWN TO BE 2" DIAMETER SHALL BE 4" IN DIAMETER, AND SHALL BE CONSTRUCTED OF THE SAME MATERIAL AND CLASS. SEE SPECIFICATION SECTION 02524.

TABLE I - Manhole Size

Water Main Diameter	MH Size
<30"	60"
30"-36"	60"
>36"	72"



**COMBINATION AIR
VALVE & DETAILS**

APPROVED BY:

Grandaghi

DESIGN MANAGER

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