



MATERIAL LIST:

ITEM QTY. DESCRIPTION

- (A) 1 SADDLE: ALL SADDLES SHALL BE DUCTILE IRON CASTING WITH IP THREADS. FOR ALL PIPE MATERIAL OTHER THAN PVC PIPE, SADDLES SHALL BE SINGLE STRAP TYPE EQUAL TO FORD FC101, ROMAC 101NS, MUELLER DR1S, OR DISTRICT APPROVED EQUAL. FOR PVC PIPE, SADDLES SHALL BE DOUBLE STRAP TYPE EQUAL TO MUELLER DR2S, FORD FCD202, OR ROMAC 202NS.
- (B) 1 2" BALL VALVE FIPxFIP, FORD #B11-777-NL OR EQUAL.
- (C) 2 2" 90° BRASS ELBOW, FIPxFIP.
- (D) 2 2" ADAPTER, MIPxPACK JOINT, FORD #C84-77-NL WITH STIFFENER, FORD INSERT-55 OR MUELLER 528707.
- (E) 1 2" REHAU MUNICIPEX PEX_a 3306, COPPER TUBE SIZE (CTS), SDR 9, AWWA C904, PER THE SPECIFICATIONS, LENGTH TO FIT. ALL PEX_a PIPE INSTALLED BY OPEN-CUT CONSTRUCTION SHALL BE BEDDED IN SAND, 4" OVER AND UNDER. IF THE DISTANCE BETWEEN BALL VALVES IS LESS THAN 5', A BRASS NIPPLE, LENGTH TO FIT, WITH BRASS FITTINGS, AS REQUIRED, WILL BE ALLOWED.
- (F) 1 TRACER WIRE PER THE SPECIFICATIONS. BLUE 14 GAUGE POLYETHYLENE INSULATED COPPER. CONTINUOUS FROM MAINLINE.
- (G) 1 2" BALL VALVE, FIPxFIP, CAMBRIDGE BRASS #203NL-F7F7W WITH 2" OPERATING NUT, FORD #QT-67. FOR VALVE OPERATING NUT DEPTHS, SEE STANDARD WATER DETAIL #11.
- (H) 1 1/2" WASHED ROCK, PASSING 1 1/2" AND RETAINED ON 1/4" MESH.
- (I) 1 STREET ELBOW, FIPxMIP.
- (J) 5 2" BRASS NIPPLE, LENGTH TO FIT.
- (K) 1 2" BRASS COUPLING, FIPxFIP.
- (L) 1 AIR/VACUUM RELIEF VALVE, A.R.I. #D-040-C-2".
- (M) 1 AIR/VACUUM ENCLOSURE, ARMORCAST P60002003B OR DEKORRA 301-GT-C3 (GREEN).
- (N) 1 TWO-PIECE, CAST IRON VALVE BOX AND ETHAFOAM RING PER THE SPECIFICATIONS AND STANDARD WATER DETAIL #11.
- (O) 2 4"x8"x16" CONCRETE BLOCK.
- (P) 2 2"x4"x8" CONCRETE BRICK, ONE ON EITHER SIDE OF THE BALL VALVE TO SUPPORT ETHAFOAM RING.

NOTES:

1. THE LOCATION OF THE ASSEMBLY AS SHOWN ON THE PLANS IS APPROXIMATE ONLY. THE FINAL LOCATION SHALL BE AT THE LOCAL HIGH POINT OF THE WATER MAIN AS DIRECTED BY THE DISTRICT IN THE FIELD DURING CONSTRUCTION.
2. 2" BALL VALVE SHALL BE INSTALLED PER THE DIRECTIONAL ARROW STAMPED ON VALVE BODY. THE DRAIN PORT IS TO DISCHARGE INTO THE WASHED ROCK.
3. ALL PEX_a PIPE TO PACK JOINT CONNECTIONS REQUIRE A PIPE STIFFENER.
4. FOR SHALLOW INSTALLS AS DETERMINED BY THE DISTRICT, PROVIDE 3" WIDE, BLUE METALLIC WATER DETECTOR TAPE 6"-12" ABOVE PIPE, FROM MAIN TO VALVE BOX.

2" AIR & VACUUM RELIEF VALVE ASSEMBLY

NOT TO SCALE

DETAIL APPROVALS
EDITOR TMC
MANAGER SJD

NORTHSHORE UTILITY DISTRICT
 2023 STANDARD WATER DETAILS

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LAST UPDATED
 JANUARY 2023