



### MATERIAL LIST

ITEM	QTY.	DESCRIPTION
(A)	1	Saddle: All saddles shall be epoxy coated ductile iron casting with CC 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 (no U-bolt type straps) equal to Mueller DR2S, Ford FCD202, or Romac 202NS. Direct tap of Ductile Iron, Class 52 or greater is allowed.
(B)	1	2" ball valve, FIPxFIP, Ford #B11-777 with 2" operating nut, Ford #QT-67.
(C)	4	2" 90° brass elbow, FIPxFIP.
(D)	4	2" adapter, MIPxPack Joint, Ford #C86-77 for SIDR 7, 250 psi pipe.
(E)	2	2" Polyethylene pipe per the Specifications. SIDR 7, 250 psi rating, length to fit. All polyethylene pipe installed by open-cut construction shall be bedded in sand, 4" over and under.
(F)	1	Locator wire per the Specifications. 14 gauge neoprene coated copper. Continuous from mainline
(G)	1	4"x8"x16" concrete block.
(H)	7	2" Brass nipple, length to fit.
(I)	1	2" MATCO-NORCA 754 brass ball valve or equal
(J)	1	2" brass union.
(K)	1	2" Air/Vacuum relief valve, APCO #145C or District approved equal.
(L)	5	2" galvanized nipple, length to fit.
(M)	2	2" 90° galvanized elbow, FIPxFIP.
(N)	1	2" galvanized union.
(O)	1	2"x2"x2" TEE, FIP.
(P)	1	2" galvanized close nipple, MIP, between the elbow (N) and the tee (P).
(Q)	1	2" 180° return bend.
(R)	1	2" beehive strainer.
(S)	1	2" cap with 1/8" hole for drain
(T)		Washed gravel, passing 1 1/2" and retained on 1/4" mesh
(U)	2	Meter Box: Armorcast A6001640PCX12-NUD (no "mouse holes") with cover Armorcast A6001947T-NUD
(V)	1	Cut opening as required, after installation, grout around pipe
(W)	1	Two-piece, cast iron valve box per the Specifications and Standard Detail.

### NOTES:

- 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.
- The 2" Standpipe above ground shall be prime coated with Steelcote SR53 heavy duty brush type enamel. Top coat shall be two coats of Sherwin/Williams White Industrial Enamel #B54W101.

## 2" AIR & VACUUM RELIEF VALVE ASSEMBLY

NOT TO SCALE

Detail Approvals \_\_\_\_\_  
 Editor TDC  
 Manager DPK

**NORTHSHORE UTILITY DISTRICT**  
**STANDARD WATER DETAILS**

9

February 2018  
 W-9(2-AirValve).dwg