



1. INSTALL PIPE CONTINUOUS THROUGH THE VAULT TO ENSURE ALIGNMENT. MORE THAN ONE STICK MAY BE NEEDED FOR LONG VAULTS, IN WHICH CASE LOCATE BELL APPROXIMATELY AT CENTER OF VAULT.
2. EXTERNAL CONCRETE BLOCKING SHALL BE INSTALLED AT THE DISCRETION OF THE DISTRICT. INSTALL BLOCKS BEFORE INTERNAL PIPING IS CUT OUT. BLOCKING SHALL BE FORMED, NOT DIRECTLY POURED AGAINST DIRT WALLS. BLOCKING SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION, MINIMUM 1" DIAMETER STINGER HEAD.
3. ALL HATCHES 2'x2' OR LARGER SHALL BE HINGED, SPRING OR GAS SHOCK ASSIST OPENING, RECESSED PADLOCK HASP, DRAINAGE COLLECTION FRAME (U CHANNEL WITH PIPE CONNECTION), H2O RATED MINIMUM, ALUMINUM OR GALVANIZED STEEL. IF HATCH WILL BE LOCATED IN A TRAVELED AREA (ROAD OR DRIVEWAY), SUBMIT MANUFACTURER'S STATEMENT THAT HATCH IS RATED FOR CONTINUOUS AND DELIBERATE H2O TRAFFIC SERVICE. HATCHES SHALL BE CAST INTO VAULT LID OR RISER. FRAME DRAIN PLUMBED THROUGH LID TO SURFACE IF LID IS AT LEAST 4" ABOVE GRADE. OTHERWISE, INSTALL 1" OR LARGER SCH 40 PVC PIPE AND FITTINGS FROM THE FRAME DRAIN, ROUTED NEATLY AND SECURED ALONG THE CEILING AND WALLS TO THE FLOOR.
4. SLOPE VAULT FLOOR TO THE DRAIN. A DRAIN SYSTEM MUST BE PROVIDED. TYPE OF DRAIN AT THE DISTRICT'S DISCRETION.
 - 4.1. 4" DRAIN (MIN) TO DAYLIGHT OR STORM SYSTEM, OR
 - 4.2. 2cy DRAIN ROCK WRAPPED IN FILTER FABRIC, OR
 - 4.3. 120VAC SUMP PUMP WITH 15' CORD & 15' HOSE (ONLY WITH DISTRICT APPROVAL)
 - 4.4. FOR DOUBLE CHECK VALVE RP DEVICES, INSTALLATION MUST BE ABOVE GRADE OR VAULT DRAIN BORESIGHTED (LANTERNED) TO DAYLIGHT.
5. DRAIN CHANNEL SHALL HAVE KNOCKOUTS FOR BOTH BOTTOM AND SIDE DRAINAGE.
6. AT THE DISCRETION OF THE DISTRICT, COAT VAULT INTERIOR WITH WHITE EPOXY PAINT.
7. COAT BURIED VAULT EXTERIOR WITH 20mil COAL TAR EPOXY. DO NOT COAT EXTERIOR OF EXPOSED SURFACES. COAT EXTERIOR OF ALL GROUT PATCHES WITH 20mil COAT-TAR EPOXY OR RUBBER.
8. CRACKED OR DAMAGED VAULTS WILL BE REJECTED AT THE DISCRETION OF THE DISTRICT. CAST-IN-PLACE VAULTS ARE NOT ALLOWED.
9. ALL VAULTS MUST BE SUBMITTED TO THE DISTRICT FOR REVIEW. SUBMITTALS MUST INCLUDE DIMENSIONS, HATCH LAYOUT, AND HATCH MATERIALS.
10. INSTALL A LADDER EXTENSION POST ON ALL LADDERS. POST TO BE SPRING ASSIST; ALUMINUM, SS, OR POWDER COATED STEEL. POST MUST LOCK IN THE EXTENDED POSITION WITH A LEVER RELEASE. POSTS THAT TURN TO LOCK ARE NOT ACCEPTABLE. BILCO, BABCOCK-DAVIS BSP, OR APPROVED EQUAL.

**East Wenatchee
Water District**



WATER SYSTEM STANDARD DETAIL

LARGE VAULTS