

**NOTES:**

1. SEE NUD STANDARD WATER DETAIL #16A FOR SUMP PUMP DETAIL.
2. SEE NUD STANDARD WATER DETAIL #16A FOR MATERIALS LIST AND ADDITIONAL NOTES.

**VAULT DETAIL**

NOT TO SCALE

Vault	Dimension			Use
	A	B	C	
687-LA	8'	6'	7'	3" & 4" Meters, DCDA's
810-LA	10'	8'	7'	6" Meters

**DETAIL APPROVALS**  
 EDITOR TMC  
 MANAGER DPK

**NORTHSHORE UTILITY DISTRICT**  
 2021 STANDARD WATER DETAILS

**16**

LAST UPDATED  
 FEBRUARY 2019

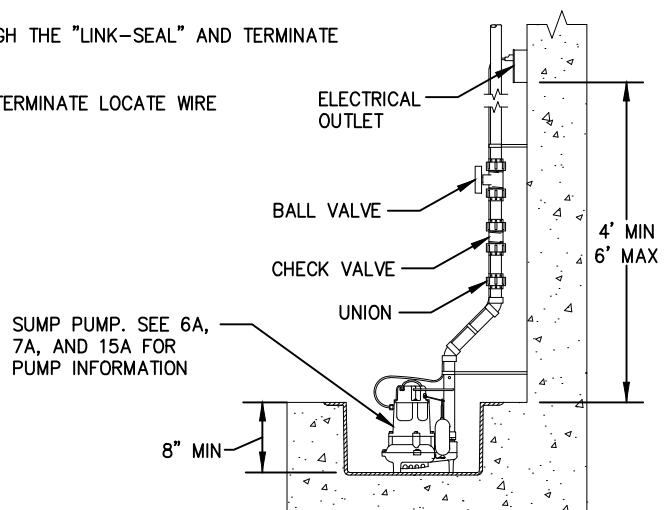
**MATERIALS LIST:**

**ITEM DESCRIPTION**

- ① PRECAST CONCRETE UNDERGROUND VAULT SHALL BE 687-LA FOR 3" AND 4" METERS AND DCDA'S, OR 810-LA FOR 6" METERS, MANUFACTURED BY "UTILITY VAULT COMPANY/OLDCASTLE PRECAST".  
 BASE SECTION: 687-BL OR 810-SB WITH FULL-WIDTH SUMP AND GRATE.  
 CENTER SECTION: 687-ML OR 810-ML  
 TOP SECTION: 687 OR 810 WITH 48"x72" HATCH OPENINGS LOCATED AS SHOWN TO ACCOMMODATE THE CONCRETE COVER, NO. 57 CLX 42S, AND THE 48"x72" DOUBLE LEAF HATCH. CORE DRILL CONCRETE TOP SECTION OF VAULT TO ALIGN WITH ACCESS HATCH DRAIN AND INSTALLATION OF 1-1/2" ACCESS HATCH DRAIN PIPING.  
  
 ALL VAULT WALLS SHALL BE SOLID FULL WIDTH WITH NO KNOCK-OUTS OR CHANNELS. THE VAULT MANUFACTURER SHALL ENSURE THAT NO VAULT JOINTS ARE LOCATED WITHIN 6" OF THE EDGE OF CORE-DRILLED PENETRATIONS. SEE NOTES BELOW.  
  
 INSTALL BUTYL SEALANT STRIPS BETWEEN VAULT SECTIONS AND UNDER ACCESS HATCH PER MANUFACTURER'S RECOMMENDATIONS AND ENSURE THAT SEALANT IS NOT SQUEEZED INTO VAULT.  
  
 PAINTING:  
 CONCRETE TO DRY FOR 9 DAYS PRIOR TO COATING APPLICATION. SURFACE IS TO BE CLEAN, DRY AND FREE OF CONTAMINANTS.  
  
 THE INTERIOR OF THE CONCRETE VAULT SHALL BE PAINTED AT THE VAULT MANUFACTURER WITH ONE COAT OF TNE MEC SERIES N69 HI-BUILD EPOXOLINE II, APPLIED AT 6-8 MILS DFT, COLOR TO BE WHITE.  
  
 EXTERIOR BELOW GRADE OF THE CONCRETE VAULT SHALL BE PAINTED WITH ONE COAT TNE MEC SERIES 46H-413 HI-BUILD TNE ME-TAR COAL TAR EPOXY, APPLIED AT 16 TO 20 MILS DFT.  
  
 TO FIELD REPAIR ANY DAMAGED COATING, CONTRACTOR SHALL LIGHTLY SAND SURFACE WITH 150 GRIT SAND PAPER TO DEGLOSS AREA TO BE RE-COATED. REAPPLY PAINT PER THE DATA SHEET FOR THE SPECIFIED MATERIAL.  
  
 ② ACCESS HATCH: "UTILITY VAULT" CONCRETE COVER NO. 57 CLX 42S WITH "LW PRODUCTS" 48"x72" DOUBLE LEAF HATCH, H-20. PROVIDE 1-1/2" SCH. 80 CONDUIT FROM HATCH GUTTER TO VAULT SUMP SECURED TO VAULT WALL WITH APPROVED FASTENERS AT 3' SPACING.  
  
 ③ ALUMINUM LADDER BOLTED TO VAULT BASE AND HATCH RISER WITH SS HARDWARE. LADDER TO INCLUDE BILCO "LADDER-UP" SAFETY POST.

**NOTES:**

- 1. PROVIDE SHOP DRAWINGS AND SUBMITTALS FOR ALL MATERIALS TO THE DISTRICT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- 2. VAULTS FOR WATER METERS AND DOUBLE CHECK DETECTOR ASSEMBLIES 8" AND LARGER WILL BE DETERMINED BY THE DISTRICT AT THE TIME OF PLAN REVIEW.
- 3. PIPE AND CONDUIT PENETRATIONS SHALL BE CORE-DRILLED ON-SITE AND SHALL BE SEALED WATERTIGHT. PROVIDE "LINK-SEAL" FITTINGS AT ALL PENETRATIONS.
- 4. SEE DISTRICT STANDARD DETAIL #S 6, 6a AND 7, 7a FOR WATER METER PIPING INSTALLATION DETAILS AND DISTRICT STANDARD DETAIL #S 15, 15a FOR DOUBLE CHECK DETECTOR ASSEMBLY PIPING INSTALLATION DETAILS.
- 5. TRACER WIRE ON MAINLINE SHALL ENTER THE VAULT THROUGH THE "LINK-SEAL" AND TERMINATE 6" INSIDE VAULT.
- 6. SUMP PUMP DISCHARGE LINE SHALL HAVE A LOCATE WIRE. TERMINATE LOCATE WIRE INSIDE OF VAULT, 6" FROM LINK-SEAL.



**SUMP PUMP DETAIL**  
NOT TO SCALE

**VAULT DETAIL**  
NOT TO SCALE

<b>DETAIL APPROVALS</b>	
<b>EDITOR</b>	<i>TMC</i>
<b>MANAGER</b>	<i>SJD</i>

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