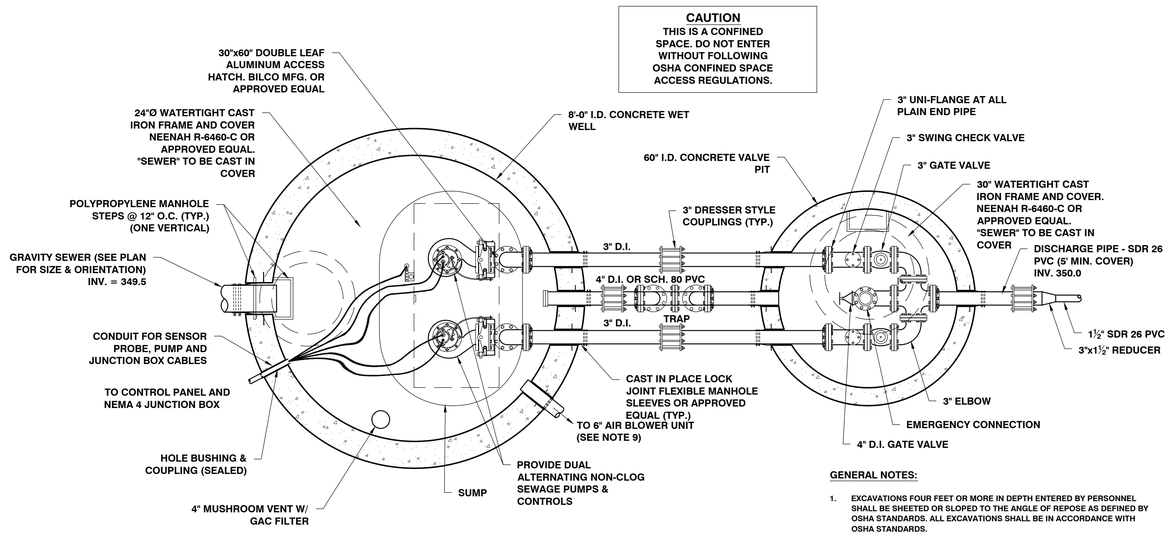
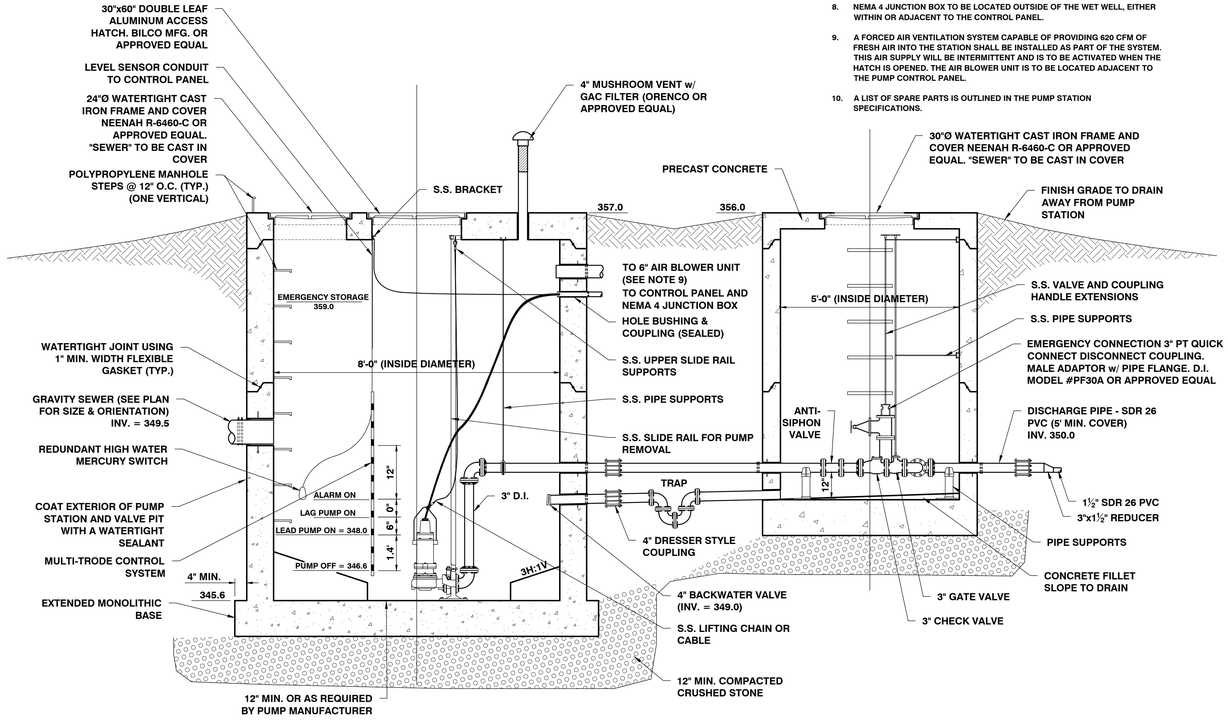


PUMP STATION & VALVE PIT PLAN

NTS

GENERAL NOTES:

1. EXCAVATIONS FOUR FEET OR MORE IN DEPTH ENTERED BY PERSONNEL SHALL BE SHEETED OR SLOPED TO THE ANGLE OF REPOSE AS DEFINED BY OSHA STANDARDS. ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH OSHA STANDARDS.
2. PROTECTION OF ALL EXISTING UTILITIES, FOUNDATIONS, ROADS AND SIGNIFICANT TREES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. ALL SURFACE DRAINAGE SHOULD BE DIVERTED AROUND THE WET WELL AND VALVE PIT.
4. ELECTRICAL SERVICE TO THE PUMP STATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. UNLESS OTHERWISE INDICATED ON THE PLANS, ALL DISTURBED AREAS SHALL BE RESTORED TO AT LEAST THE ORIGINAL CONDITIONS.
6. THE CONTRACTOR SHALL PROVIDE ALL FITTINGS, COUPLINGS AND APPURTENANCES TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.
7. SHORING, BRACING OR DEWATERING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND INCLUDED IN THE CONTRACT BID.
8. NEMA 4 JUNCTION BOX TO BE LOCATED OUTSIDE OF THE WET WELL, EITHER WITHIN OR ADJACENT TO THE CONTROL PANEL.
9. A FORCED AIR VENTILATION SYSTEM CAPABLE OF PROVIDING 620 CFM OF FRESH AIR INTO THE STATION SHALL BE INSTALLED AS PART OF THE SYSTEM. THIS AIR SUPPLY WILL BE INTERMITTENT AND IS TO BE ACTIVATED WHEN THE HATCH IS OPENED. THE AIR BLOWER UNIT IS TO BE LOCATED ADJACENT TO THE PUMP CONTROL PANEL.
10. A LIST OF SPARE PARTS IS OUTLINED IN THE PUMP STATION SPECIFICATIONS.

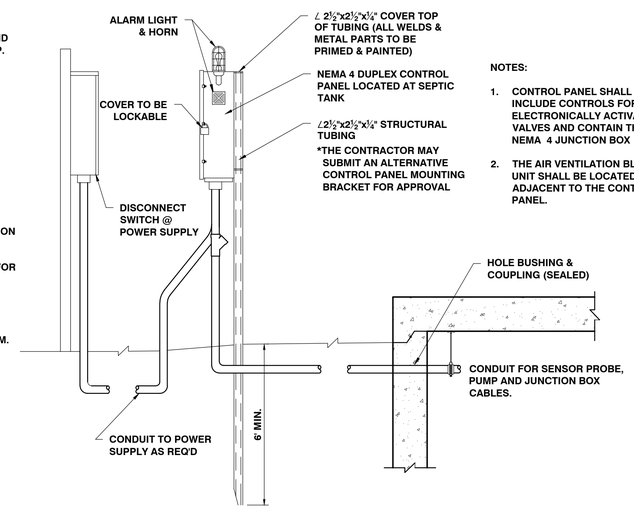


PUMP STATION & VALVE PIT SECTION

NTS

CONTROL PANEL REQUIREMENTS

1. UL LISTED NEMA 4 ENCLOSURE,
2. THE PANEL SHALL BE COMPATIBLE WITH THE PUMPS.
3. EACH PUMP SHALL BE SUPPLIED WITH A RUN LIGHT, HAND-OFF-AUTO SWITCH, ELAPSED TIME METER, CIRCUIT BREAKER, LIGHTING SUPPRESSOR, PHASE LOSS CIRCUITRY, SEAL FAIL INDICATOR LIGHT MAGNETIC CONTACTOR, AND MAIN CIRCUIT BREAKER.
4. ALARM INDICATION - ALARM LIGHT AND HORN (OR BELL) w/ BATTERY BACK-UP. THE AUDIO ALARM SHALL HAVE AN AUTOMATICALLY RESETTING MANUAL SILENCE SWITCH AND MANUAL TEST SWITCH.
5. ALARM ACTIVATION -
   PUMP FAILURE
   HIGH WATER
   LOW WATER
6. PANEL SHALL ACTIVATE A NORMALLY OPEN SOLENOID VALVE TO CLOSE DURING A PUMPING CYCLE.
7. ALL COMPONENTS SHALL BE EXPLOSION PROOF.
8. DOUBLE THROW SWITCH WITH PLUG FOR CITY'S PORTABLE GENERATOR.
9. 110V OUTLETS.
10. TELEMETRY SYSTEM WITH BATTERY BACK-UP TIED INTO THE TOWN SYSTEM.



NOTES:

1. CONTROL PANEL SHALL ALSO INCLUDE CONTROLS FOR THE ELECTRONICALLY ACTIVATED VALVES AND CONTAIN THE NEMA 4 JUNCTION BOX
2. THE AIR VENTILATION BLOWER UNIT SHALL BE LOCATED ADJACENT TO THE CONTROL PANEL.

CONTROL PANEL INSTALLATION

NTS

SITE ENGINEER:

CIVIL ENGINEERING ASSOCIATES, INC.
10 MANSFIELD VIEW LANE, SOUTH BURLINGTON, VT 05403
802-864-2323 FAX: 802-864-2271 web: www.cea-vt.com

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DRAWN: SAL
CHECKED: DSM
APPROVED: DSM

OWNER:

PHILO RIDGE, L.L.C.
2766 MT. PHILO RD.
CHARLOTTE, VT.

PROJECT:

SITE IMPROVEMENTS
2766 MT. PHILO RD.
CHARLOTTE, VT.

DATE	CHECKED	REVISION

PUMP STATION

DATE: OCT., 2016
SCALE: AS SHOWN
PROJ. NO.: 16107
DRAWING NUMBER: C2.4

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