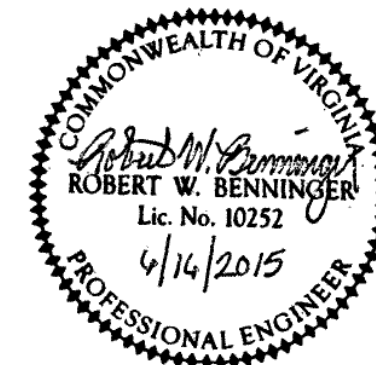


BUILDING & PIPING NOTES:

1. BUILDING AND PLUMBING CONSTRUCTION SHALL COMPLY WITH INTERNATIONAL BUILDING CODE (IBC)
2. DESIGN WIND SPEED SHALL BE 90MPH W/ A 3 SECOND GUST
3. FOUNDATION FOOTING DESIGNED FOR 24" FROST DEPTH
4. DESIGN SNOW LOAD SHALL BE 30 PSF
5. INTERIOR PIPING SHALL BE DUCTILE IRON
6. INTERIOR FITTINGS SHALL BE FLANGED DUCTILE IRON CLASS 125
7. UNDERGROUND PIPING SHALL BE AWWA PRESSURE CLASS 350 DUCTILE IRON AWWA C-900 PVC
8. UNDERGROUND FITTINGS SHALL BE DUCTILE IRON, CLASS 250, WITH MECHANICAL JOINTS & MEGALUGS
9. ALL INTERIOR PIPING SHALL BE BRACED AND SECURED TO PREVENT MOVEMENT.
10. PUMP STATION CONSTRUCTION SHALL CONFORM TO 2014 WESTERN VIRGINIA REGIONAL DESIGN AND CONSTRUCTION STANDARDS
11. ALL PIPING SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C653-2005.
12. ISOLATION VALVES SHALL BE REQUIRED BETWEEN CONNECTION TO PIPING AND ALL GAUGES AND OTHER SMALLER DIAMETER TAPS.
13. BUILDING SHALL BE CONSTRUCTED OF CONCRETE CMU'S WITH A BRICK VENEER, EXTERIOR WALL SURFACE. OUTSIDE WALL DIMENSIONS OF BUILDING SHALL BE 26' x 30'8" x 11'4"
14. PUMP ROOM SHALL BE FITTED WITH A PRE-HUNG, INSULATED STEEL DOOR WITH A MINIMUM OPENING SIZE OF 6'-4"x6'8".
15. CHLORINE ROOM SHALL BE FITTED WITH A PRE-HUNG, INSULATED STEEL DOOR WITH A MINIMUM OPENING SIZE OF 3'-0"x6'8". DOOR SHALL BE PROVIDED WITH A 2' x 2' VIEWING WINDOW & LOUVERED VENT
16. PUMP ROOM AND CHLORINE ROOM SHALL EACH BE PROVIDED WITH A 4" FLOOR DRAIN DISCHARGING TO GRADE.

ELECTRICAL & MECHANICAL NOTES:

1. BOOSTER PUMPS SHALL BE CONTROLLED BY VARIABLE FREQUENCY DRIVES (VFD'S) w/ INDIVIDUAL H-O-A SWITCH.
2. BOOSTER PUMPS SHALL BE GRUNDFOS, MODEL CRE 90-2-1, 6.0" IMPELLER, 30-HP, 460V, 3 ϕ
3. BOOSTER PUMPS SHALL BE SEQUENCED TO ALTERNATE WITH ON/OFF CYCLES (LEAD, LAG & LAG-LAG).
4. BOOSTER PUMPS SHALL BE CONTROLLED BY GREENFIELD TANK LEVEL SIGNALS FROM SCADA SYSTEM.
5. A PRESSURE SWITCH ON SUCTION PIPING SHALL TURN PUMPS OFF, IF INLET PRESSURE DROPS TO 10 PSI.
6. ELECTRICAL CONSTRUCTION SHALL COMPLY WITH NATIONAL ELECTRIC CODE.
7. ALL ELECTRICAL EQUIPMENT AND PANELS SHALL BE MANUFACTURED UNITS WITH UL LISTING AND SHALL INCLUDE MANUFACTURER'S WARRANTY.
8. ALL CONTROL CIRCUITS SHALL BE 120 VOLT.
9. ELECTRICAL SERVICE SHALL BE PROVIDED WITH LIGHTNING ARRESTERS.
10. ELECTRICAL SERVICE PANEL SHALL HAVE A MINIMUM OF 20 SLOTS.
11. ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN PVC AND/OR EMT CONDUIT.
12. OPERATION OF PUMP STATION SHALL BE MONITORED AND CONTROLLED BY WWA SCADA SYSTEM
13. AN ELECTRIC TRANSFER SWITCH SHALL BE PROVIDED TO ALLOW CONNECTION OF A GENERATOR
14. CHLORINE ROOM VENT FAN SHALL BE CONTROLLED BY DOOR SWITCH UPON ENTRY
15. BOOSTER PUMP STATION BUILDING SHALL BE CONSIDERED A WET LOCATION FOR INTERPRETATION OF THE NEC.
16. ALL RECEPTACLES AND SWITCHES SHALL HAVE A MINIMUM 20-AMP RATING
17. ALL RECEPTACLES SHALL BE PROVIDED WITH GFCI PROTECTION.



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WATER PUMP STATION
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