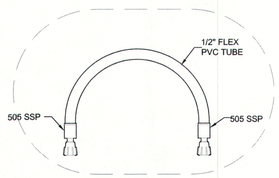
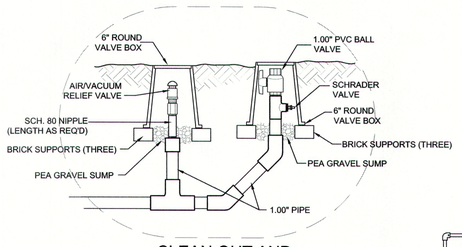


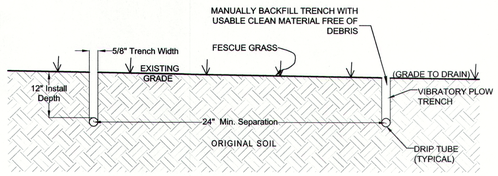
1 U2 CLEAN OUT DETAIL
N.T.S.



3 U2 LOOP CONNECTION
N.T.S.



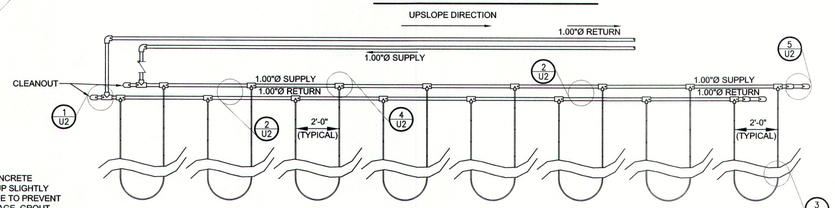
CLEAN OUT AND AIR/VACUUM RELIEF VALVE DETAIL (TYP.)
5 U2 N.T.S.



SECTION THRU DRIP LINES

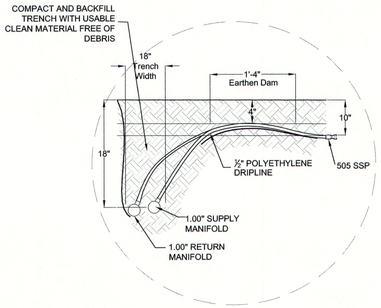
ZONE 1
LINE 1.....94.00 LF (3 LOOP)
LINE 2.....134.00 LF (3 LOOP)
LINE 3.....162.00 LF (1 LOOP)
LINE 4.....163.00 LF (1 LOOP)
LINE 5.....165.00 LF (1 LOOP)
LINE 6.....166.00 LF (1 LOOP)
LINE 7.....166.00 LF (1 LOOP)
LINE 8.....190.00 LF (1 LOOP)

1,240 LF TOTAL

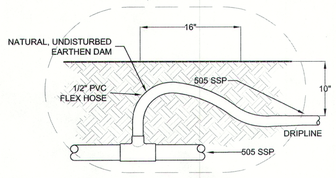


ONE ZONE DRIP FIELD (8 LATERALS @ VARIOUS LF EA) WITH A TOTAL OF 1,240 LF OF TUBING W/ EMITTERS SPACED @ 24" CTS. EACH WAY. SEE SITE PLAN FOR DRIP FIELD LAYOUT

DRIP FIELD LAYOUT
N.T.S.

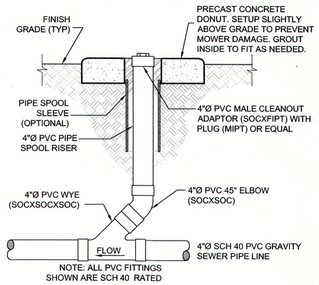


2 U2 DRIP FIELD MANIFOLD DETAIL
N.T.S.

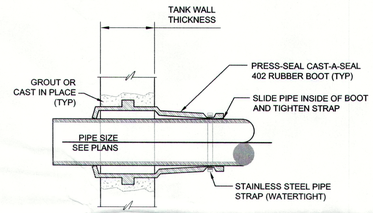


4 U2 SUB MAIN CONNECTION
N.T.S.

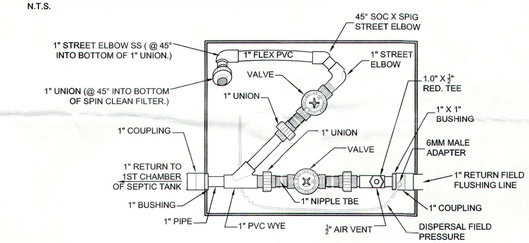
REFER TO SPECIFICATION PACKAGE FOR MATERIALS SELECTION AND INSTALLATION REQUIREMENTS



GRAVITY CLEANOUT
N.T.S.



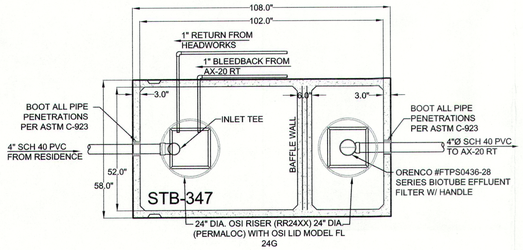
STANDARD PIPE PENETRATIONS
N.T.S.



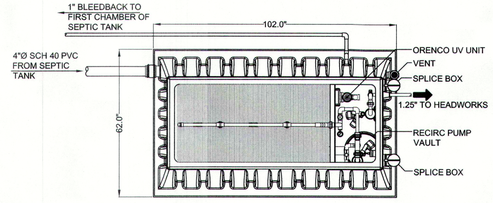
NOTE: SIGN SHALL BE INSTALLED AT TOP OF EVERY OTHER T-POST (OR EVERY 25 FEET WHICHEVER IS GREATER) SUPPORTING 4' HIGH ORANGE SAFETY FENCE SURROUNDING PRIMARY & REPAIR SEPTIC AREAS. CONTRACTOR TO INSTALL PRIOR TO ANY SITE DISTURBANCE.

DRAINFIELD PROTECTION & SIGNAGE
N.T.S.

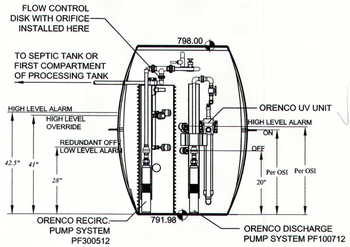
PLAN VIEW - HEADWORKS
N.T.S. BOTTOM LAYER



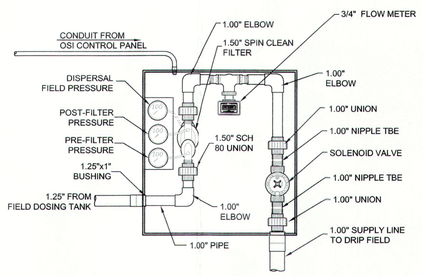
PLAN VIEW - 1,000 GAL SEPTIC TANK
N.T.S. TOP SEAM TANK ONLY



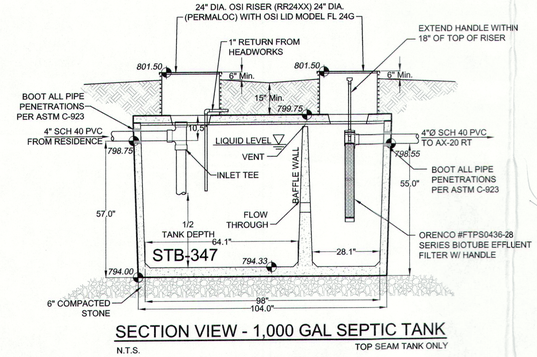
PLAN VIEW - ORENCO AX-20 RTUV
N.T.S. AX20RT Mode 3B



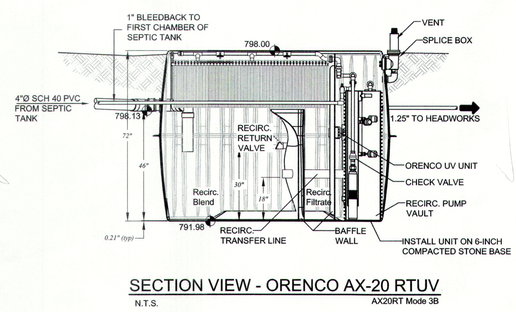
SECTION VIEW - ORENCO AX-20 RTUV
N.T.S. DISCHARGE CHAMBER



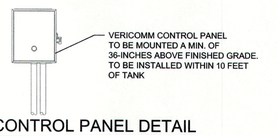
PLAN VIEW - HEADWORKS
N.T.S. MODEL NO. HEADWORKS-ASSY.-ONE ZONE



SECTION VIEW - 1,000 GAL SEPTIC TANK
N.T.S. TOP SEAM TANK ONLY



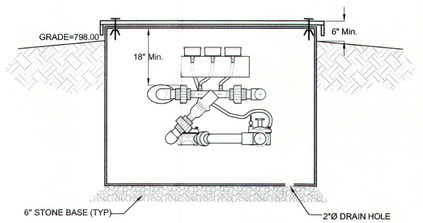
SECTION VIEW - ORENCO AX-20 RTUV
N.T.S. AX20RT Mode 3B



CONTROL PANEL DETAIL
N.T.S.

TANK ELEVATIONS

NOTE:TANK DIMENSIONS & ELEVATIONS BASED ON SHOAF PRECAST COMPANY, INC. OTHER STATE APPROVED TANKS MAY BE SUBSTITUTED BUT NOT WITHOUT PRIOR APPROVAL FROM THE ENGINEER. CONTRACTOR SHALL VERIFY DIMENSIONS AND ADJUST GRADES AND FLOAT SETTINGS AS REQUIRED TO CAUSE FLOW AND DOSING AS CALLED FOR. TANKS SHALL NOT BE PUMPED DURING EXTREMELY WET CONDITIONS.



SECTION VIEW - HEADWORKS
MODEL NO. HEADWORKS-ASSY.-ONE ZONE

GENERAL NOTES:
1. NOTIFY UNDERGROUND UTILITIES LOCATOR PRIOR TO ANY EXCAVATION. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL TRADES AND SUBCONTRACTORS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS, ELEVATIONS, AND LOCATION OF ALL EXISTING CONDITIONS AND UTILITIES.
2. ALL PIPING SHALL BE SCH 40 PVC UNLESS OTHERWISE NOTED ON PLANS. ALL PVC PIPES SHALL BE BURIED A MINIMUM OF 3 FEET UNLESS SHOWN OTHERWISE.
3. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SOIL EROSION AND SEDIMENTATION CONTROL REQUIREMENTS.
4. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OSHA, NCDOT, AND OTHER RELATED SAFETY REQUIREMENTS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL CONSTRUCTION DAMAGE EXPEDITIOUSLY AND AT NO ADDITIONAL COST TO THE OWNER.
6. SEPTIC TANK SHALL BE CONSTRUCTED WITH A BAFFLE WALL DIVIDING THE TANK INTERIOR 2/3rd TO 1/3rd. THE BAFFLE WALL SHALL BE CONSTRUCTED TO PERMIT PASSAGE OF EFFLUENT THROUGH A SLOT OR HOLES LOCATED BETWEEN 45 & 55 PERCENT OF THE INTERIOR DEPTH.
7. ALL TANKS SHALL HAVE A MINIMUM 28-DAY CONCRETE STRENGTH OF 4,500 PSI.
8. TANK SHALL MEET REINFORCING REQUIREMENTS TO ACCOMMODATE 3,000 POUNDS PER SQ. FT. EITHER STEEL REINFORCING WIRE. REBAR OR APPROVED FIBER MAY BE USED.
9. ALL SERVICE ACCESS OPENINGS SHALL BE A MINIMUM OF 24 INCHES.
10. RISERS TO BE CAST IN PLACE AT TIME OF TANK CONSTRUCTION
11. ALL TANKS AND EFFLUENT FILTERS SHALL BE APPROVED BY ENGINEER & NCDHHS. EFFLUENT FILTERS SHALL BE SIZED FOR DESIGN FLOW AND EXTEND DOWN TO 50-PERCENT OF LIQUID LEVEL.
12. ALL JOINTS (MID-SEAM, TOP-SEAM) SHALL BE SEALED USING CONCRETE SEALANTS BUTYL SEALANT # CS-102 MEETING ASTM C-990.
13. TANKS SHALL BE LEAK-TESTED PRIOR TO SYSTEM START UP BY APPLYING A VACUUM OF 5-INCHES OF MERCURY WITH RISER ASSEMBLIES IN PLACE OR A 24-HOUR STATIC WATER TEST IN ACCORDANCE WITH ASTM STANDARDS.
14. ALL PIPE PENETRATIONS THROUGH PRECAST CONCRETE TANKS SHALL BE PRESS-SEAL CAST-A-SEAL 402 RUBBER BOOTS AND GROUTED.
15. ALL TANK RISERS AND LIDS SHALL EXTEND A MINIMUM OF 6" ABOVE THE FINISHED GRADE.
16. ALL METAL INSTALLED IN TANKS SHALL BE STAINLESS STEEL.
17. ALL MANHOLES NOT INSTALLED NOT IN TRAFFIC AREAS SHALL HAVE TAMPER RESISTANT BOLTS ON LIDS.
18. CONTROL PANELS SHALL BE INSTALLED A MINIMUM OF 36 INCHES FROM FINISHED GRADE TO BOTTOM OF PANEL BOX. SEAL OFF ALL CONDUITS BETWEEN TANKS AND PANEL.
19. CONTRACTOR TO VERIFY EXISTING SITE POWER SUPPLY (VOLTAGE) BEFORE ORDERING PUMPS, CONTROLS, ETC.

PIEDMONT DESIGN ASSOCIATES, P.A.
ENGINEERING / SURVEYING / PLANNING
Suite 101 Westfield Center , 125 East Plaza Drive
Mooresville, North Carolina 28115
Phone:(704) 660-0300 Fax:(704) 660-0302 www.pdapa.com
NCBELS License # C-1007

PREPARED FOR:
CLIFF WAGNER
PO BOX 3428
MOORESVILLE, NC 28117
(704) 231-5255 | cwagner1@carolina.rr.com

SEPTIC SYSTEM DETAILS
3 BEDROOM TS-II LP PPBPS SYSTEM
139 GATEHOUSE LANE
MOORESVILLE, IREDELL COUNTY, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17327 DONALD L. MOTLEY

REVISIONS	BY
A REV. PER NEW LAYOUT BY M. ATHANAS, LSS (5/5/20)	DMD

Date: 1/30/2019
Scale: AS SHOWN
Drawn: DMD
Checked: DLM
Project: 2019-01-07-EC
Job: 2019-01-07-EC
Sheet U-2
A 5/5/20
of 2 Sheets

Location: PUBLICATION OR REUSE OF THESE DRAWINGS OR ANY DETAILS WITHIN MUST BE WITH THE WRITTEN CONSENT OF PIEDMONT DESIGN ASSOCIATES, P.A. Owner: Approved: Date of Issue:

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