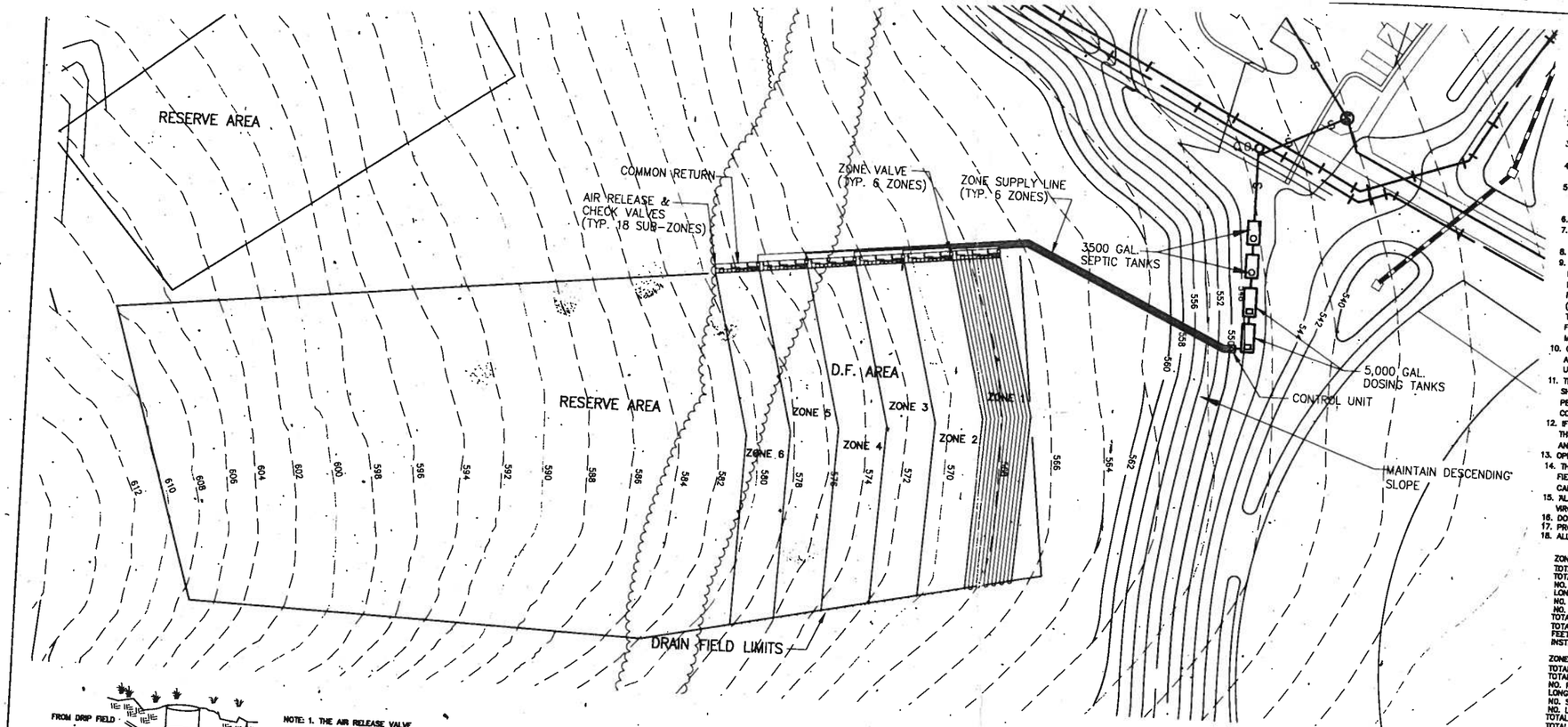


SEPTIC SYSTEM GENERAL NOTES

1. ALL INSTALLATION AND CONSTRUCTION TECHNIQUES SHALL CONFORM TO COUNTY CODES AND STATE BOARD OF HEALTH "SEWAGE HANDLING AND DISPOSAL REGULATIONS" PERTAINING TO ON SITE SEWAGE SYSTEMS AND THE PERMIT FOR THIS SITE.
2. THE INSTALLATION OF THIS SYSTEM SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND PROCEDURES AS SUPPLIED BY THE MANUFACTURER OF THE EQUIPMENT.
3. ALL PVC PIPE AND FITTINGS SHALL BE PVC SCH 40 TYPE 1 RATED FOR PRESSURE APPLICATIONS. ALL GLUED JOINTS SHALL BE CLEANED AND PRIMED WITH PURPLE (DYED) PVC PRIMER PRIOR TO BEING GLUED.
4. ALL CUTTING OF PVC PIPE,FLEXIBLE PVC AND DRIPPER TUBING SHALL BE ACCOMPLISHED WITH PIPE CUTTERS APPROVED BY MANUFACTURER. NO SAWING OF PVC, PVC FLEXIBLE OR DRIPPER TUBING ALLOWED.
5. ALL PVC PIPE,FLEXIBLE PVC AND DRIPPER TUBING IN THE WORK AREA SHALL HAVE THE ENDS COVERED WITH DUCT TAPE TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING THE PIPE. PRIOR TO GLUING ALL JOINTS SHALL BE INSPECTED FOR AND CLEARED OF ANY CONSECUTION DEBRIS.
6. NO WET WEATHER INSTALLATION IS PERMITTED.
7. NO ACTIVITY ON DRAINFIELD AREA OTHER THAN MINIMUM REQUIRED TO INSTALL SYSTEM. DO NOT PARK EQUIPMENT,DRIVE LARGE EQUIPMENT OVER, OR STORE MATERIALS ON DRAINFIELD SITE.
8. HORIZONTAL SPACING BETWEEN DRIPPER LINES AND THE,INSTALLATION DEPTH SHALL BE AS SPECIFIED.
9. PRIOR TO STARTUP OF THE DRIP DISPOSAL SYSTEM THE AIR RELEASE VALVES SHALL BE REMOVED AND EACH ZONE IN THE SYSTEM SHALL BE FLUSHED AS FOLLOWS: a)USING AN APPROPRIATE LENGTH OF FLEXIBLE PVC PIPE WITH A MALE FITTING ATTACHED TO THE AIR RELEASE CONNECTION TO DIRECT THE FLUSHING WATER AWAY FROM THE CONSTRUCTION AREA. b)FLUSH THE ZONE WITH A VOLUME OF WATER (CLEAN WATER TO BE PROVIDED BY CONTRACTOR) EQUAL TO 1.5 TIMES THE VOLUME OF THE PIPES FROM THE CENTRAL UNIT TO THE AIR RELEASE VALVE.c) REPEAT THIS PROCEDURE FOR EACH ZONE (THE FLUSHING OF THE SYSTEM IS ACCOMPLISHED BY MANUAL OVERRIDE OF THE CONTROL PANEL BY THE MANUFACTURER OR ENGINEER.)
10. GRAVEL BASE UNDER CENTRAL CONTROL UNIT IS TO BE DRAINED VIA 2" PVC PIPE,SCREENED AT INLET AND OUTLET,DISCHARGE TO BE AT GRADE DOWN SLOPE.(TO ENSURE DRAINAGE OF SURFACE WATER FROM UNIT)
11. THE CONTRACTOR SHALL BE CERTIFIED TO INSTALL THIS TYPE OF SYSTEM BY THE MANUFACTURER AND SHALL HOLD A PRECONSTRUCTION MEETING WITH THE INDIVIDUALS RESPONSIBLE FOR SOIL EVALUATION, PERMITTING AND INSPECTIONS PRIOR TO SITE WORK BEGINNING TO INSURE PROTECTION OF THE SITE CONDITIONS AND TO ENSURE THE SYSTEM IS INSTALLED ACCORDING TO DESIGN.
12. IF SITE CONDITIONS ARE DETERMINED TO REQUIRE THE INSTALLATION OF THE SYSTEM TO DEVIATE FROM THESE PLANS, ALL SITE WORK SHALL STOP IMMEDIATELY AND THE DESIGNER SHALL BE NOTIFIED .
13. OPERATION AND MAINTENANCE MANUAL TO BE PROVIDED AT JOB COMPLETION.
14. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING SHOWING THE INSTALLATION LAYOUT FOR THE SEPTIC FIELD. IF THE LAYOUT VARIES FROM THE ORIGINAL DESIGN, THE CONTRACTOR SHALL SUBMIT SUPPORTING CALCULATIONS PREPARED BY A LICENSED P.E.
15. ALL PRECAST TANKS SHALL BE AS MANUFACTURED BY THE CLEARFLOW CORPORATION OF WAYNESBORO, VIRGINIA OR APPROVED EQUAL.
16. DOSING PUMP IS A ZOLLER MODEL 191.
17. PROVIDE CONCRETE RISERS IF NECESSARY TO ADJUST TANK LIDS TO GRADE.
18. ALL OUTSIDE ELECTRICAL BOXES SHALL BE NEMA III OR BETTER.

ZONE: 1	
TOTAL RUNS	12
TOTAL NO. OF LATERALS	6
NO. RUNS PER LATERAL	2
LONGEST LATERAL	300'
NO. SUB-ZONES	3
NO. LATERALS/SUB-ZONE	2
TOTAL LF IN ZONE	1800
TOTAL GPM	19.35
FEET ON CENTER	2'
INSTALLATION DEPTH	12"

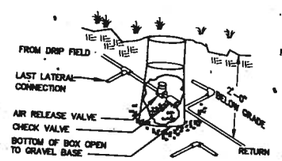
ZONE: 2	
TOTAL RUNS	12
TOTAL NO. OF LATERALS	6
NO. RUNS PER LATERAL	2
LONGEST LATERAL	300'
NO. SUB-ZONES	3
NO. LATERALS/SUB-ZONE	2
TOTAL LF IN ZONE	1800
TOTAL GPM	19.35
FEET ON CENTER	2'
INSTALLATION DEPTH	12"

ZONE: 3	
TOTAL RUNS	12
TOTAL NO. OF LATERALS	6
NO. RUNS PER LATERAL	2
LONGEST LATERAL	300'
NO. SUB-ZONES	3
NO. LATERALS/SUB-ZONE	2
TOTAL LF IN ZONE	1800
TOTAL GPM	19.35
FEET ON CENTER	2'
INSTALLATION DEPTH	12"

ZONE: 4	
TOTAL RUNS	12
TOTAL NO. OF LATERALS	6
NO. RUNS PER LATERAL	2
LONGEST LATERAL	300'
NO. SUB-ZONES	3
NO. LATERALS/SUB-ZONE	2
TOTAL LF IN ZONE	1800
TOTAL GPM	19.35
FEET ON CENTER	2'
INSTALLATION DEPTH	12"

ZONE: 5	
TOTAL RUNS	12
TOTAL NO. OF LATERALS	6
NO. RUNS PER LATERAL	2
LONGEST LATERAL	300'
NO. SUB-ZONES	3
NO. LATERALS/SUB-ZONE	2
TOTAL LF IN ZONE	1800
TOTAL GPM	19.35
FEET ON CENTER	2'
INSTALLATION DEPTH	12"

ZONE: 6	
TOTAL RUNS	12
TOTAL NO. OF LATERALS	6
NO. RUNS PER LATERAL	2
LONGEST LATERAL	300'
NO. SUB-ZONES	3
NO. LATERALS/SUB-ZONE	2
TOTAL LF IN ZONE	1800
TOTAL GPM	19.35
FEET ON CENTER	2'
INSTALLATION DEPTH	12"



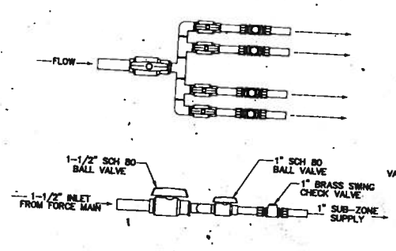
NOTE: 1. THE AIR RELEASE VALVE SHALL BE PLACED AT THE HIGHEST POINT ON THE RETURN LINE OF EACH ZONE.
2. EACH ZONE TO HAVE THE SAME VALVE BOX SETUP AND THEREAFTER CONNECTED.

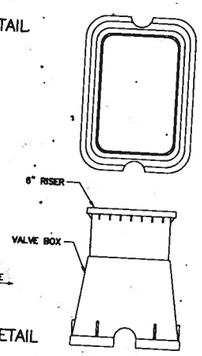
AIR RELEASE AND CHECK VALVE DETAIL

GRAPHIC SCALE

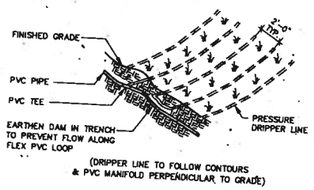
30 15 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

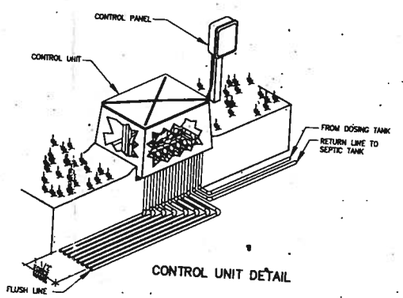




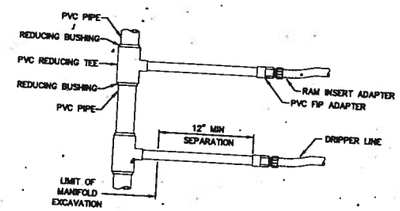
ZONE VALVE DETAIL



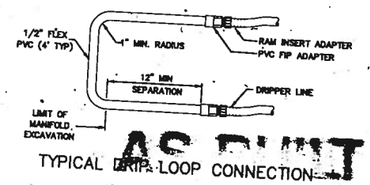
SUBSURFACE DISTRIBUTION SYSTEM



CONTROL UNIT DETAIL



TYPICAL DRIP LINE CONNECTION TO PVC MANIFOLD



TYPICAL DRIP LOOP CONNECTION

AS BUILT

NOT FOR CONSTRUCTION USE

No.	REVISIONS	DATE	CHKD.
1	REVISED DRAINFIELD LAYOUT	9/12/97	MSB
2	REVISED SEPTIC TANK & DOSING TANK 2 DETAIL	9/17/97	MSB

PROFESSIONAL SEAL: COMMONWEALTH OF VIRGINIA MARK STEVEN BYRGER No. 18272 9/17/97 PROFESSIONAL ENGINEER

PROJECT: FRANKLIN PARK

BLUE RIDGE ELECTION DISTRICT
LOUDOUN COUNTY, VIRGINIA

TITLE: STARPLEX SEPTIC SYSTEM

PHR&A
Patton Harris Rust&Associates,pc
Engineers,Surveyors,Planners,Landscape Architects
118 N. Main Street
Bridgewater, Virginia 22812
540-828-2616

Offices:
Chantilly,Va.
Bridgewater,Va.
Leesburg,Va.
Virginia Beach,Va.
Winchester,Va.

SURVEY	PDS	DATE	MARCH 1997
DESIGN	QR/GIS	DRAWN	QR
CHKD.	MSB	SCALE	1" = 30' H
SHEET 39 OF 55		FILE NO.	9653-1-0