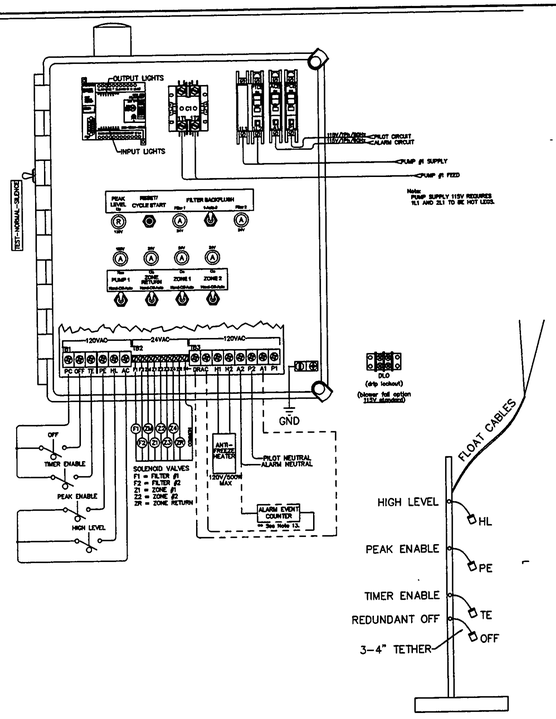
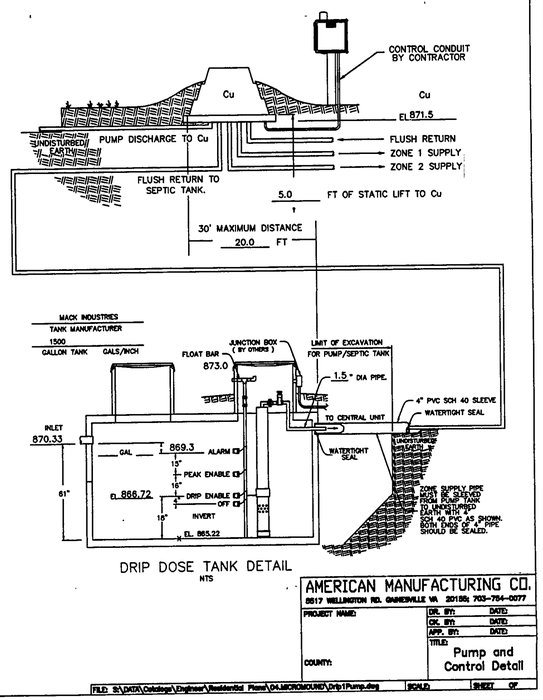
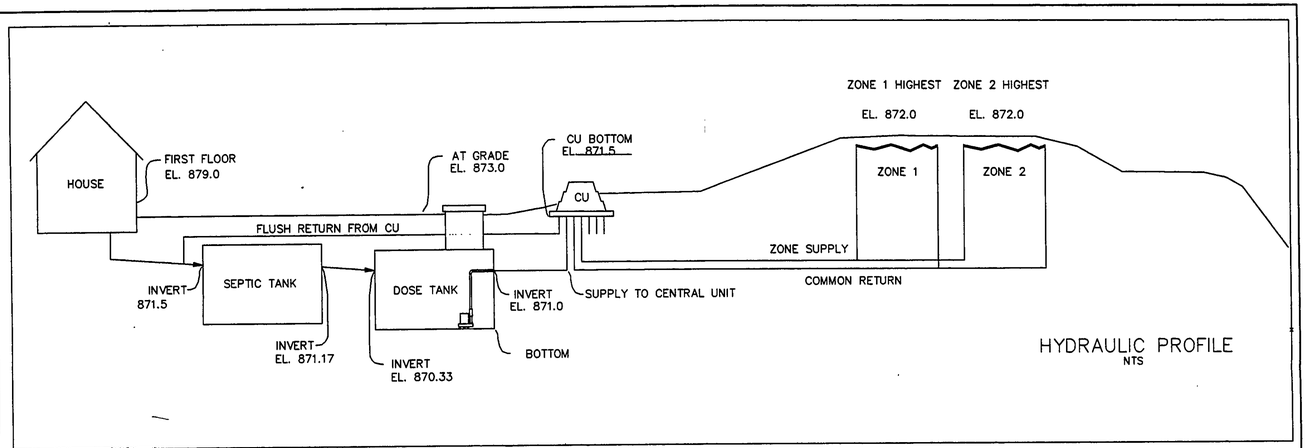




DRIP DOSE TANK DETAIL
NTS

AMERICAN MANUFACTURING CO.		
5817 WELLINGTON RD. GAINESVILLE VA 20155; 703-754-0077		
PROJECT NAME:	DR. BY:	DATE:
	CK. BY:	DATE:
	APP. BY:	DATE:
COUNTY:	TITLE: Pump and Control Detail	
FILE: S:\DATA\Datalog\Engineer\Residential Plans\04.MICROMOUND\Drip1Pump.dwg	SCALE:	SHEET OF

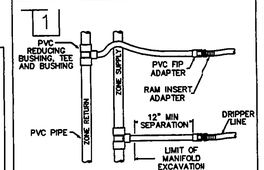


HYDRAULIC PROFILE
NTS

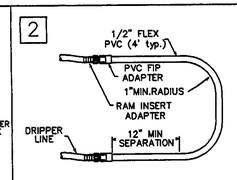
GENERAL NOTES - DRIP DISPOSAL

1. ALL INSTALLATION AND CONSTRUCTION TECHNIQUES SHALL CONFORM TO COUNTY CODES AND OHIO DEPARTMENT OF HEALTH "SEWAGE TREATMENT SYSTEM RULES" 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 MANUFACTURES 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 PRIOR TO BEING GLUED.
4. ALL CUTTING OF PVC PIPE, FLEXIBLE PVC AND DRIPPER TUBING SHALL BE ACCOMPLISHED WITH PIPE CUTTERS APPROVED BY MANUFACTUER. NO SAWING OF PVC, FLEXIBLE PVC OR DRIPPER TUBING IS 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 CONSTRUCTION DEBRIS.
6. NO WET WEATHER INSTALLATION IS PERMITTED.
7. NO ACTIVITY ON DRAINFIELD AREA NOR ON REPLACEMENT AREA OTHER THAN MINIMUM REQUIRED TO INSTALL SYSTEM. DO NOT PARK EQUIPMENT, DRIVE LARGE EQUIPMENT OVER, OR STORE MATERIALS ON DRAINFIELD NOR ON REPLACEMENT AREA SITE.
8. HORIZONTAL SPACING BETWEEN DRIPPER LINES AND THE INSTALLATION DEPTH SHALL BE AS SPECIFIED.
9. THE BUILDING SEWER SHALL BE 4" SCH 40 PVC WITH A MINIMUM SLOPE OF ¼" PER FOOT. THERE SHALL BE NO BENDS GREATER THAN 45 DEGREES. CLEANOUTS SHOULD BE PROVIDED EVERY 100 FEET. FOR CONSTRUCTION TECHNIQUES REFER TO THE "SEWAGE TREATMENT SYSTEM RULES".
10. IF TREES OR BRUSH ARE TO BE REMOVED FROM SITE, FOLLOW LOCAL HEALTH DEPARTMENT REGULATIONS FOR REMOVAL.
11. 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).
12. THE CONTRACTOR SHALL BE QUALIFIED TO INSTALL THIS TYPE OF SYSTEM BY THE MANUFACTURER AND SHALL HOLD A PRE-CONSTRUCTION MEETING WITH THE INDIVIDUALS RESPONSIBLE FOR SOIL EVALUATION, PERMITTING, AND INSPECTIONS PRIOR TO BEGINNING SITE WORK. THIS IS REQUIRED TO INSURE PROTECTION OF THE SITE CONDITIONS AND TO ENSURE THE SYSTEM IS INSTALLED ACCORDING TO DESIGN.
13. IF SITE CONDITIONS REQUIRE THE INSTALLATION OF THE SYSTEM TO DEVIATE FROM THESE PLANS. ALL SITE WORK SHALL STOP IMMEDIATELY AND THE DESIGNER SHALL BE NOTIFIED. ANY ONGOING WORK SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
14. DRAINFIELD SUPPLY, RETURN AND MANIFOLD LINES TO BE INSTALLED AT ADEQUATE DEPTH TO PREVENT FREEZING, OR AT A MINIMUM OF 30" BELOW GRADE.
15. AREAS DESIGNATED FOR INSTALLATION AND REPLACEMENT SHALL BE UNDISTURBED AND BE PROTECTED FROM DAMAGE OR DISTRUBANCE. ANY DISTURBANCE OR DAMAGE OF THESE DESIGNATED AREAS MAY RESULT IN THE INVALIDATION OF THIS DESIGN PLAN. IF ANY DISTURBANCE OR DAMAGE HAS OCCURRED, INSTALLATION SHALL NOT PROCEED AND THE REGISTERED INSTALLER SHALL CONTACT THE OWNER, THE DRIP DISTRIBUTION RESPONSIBLE PARTY AND THE BOARD OF HEALTH.
16. AN AS-BUILT RECORD OF THE INSTALLATION IS REQUIRED FROM THE REGISTERED INSTALLER.

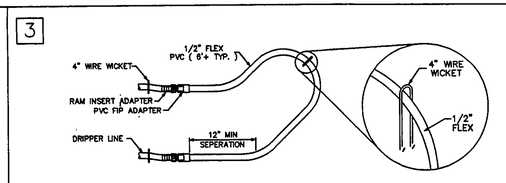
STANDARD RESIDENTIAL DRIP SYSTEM DETAILS



DRIP LINE CONNECTION TO MANIFOLD
NTS

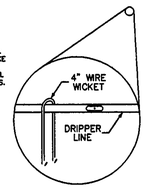


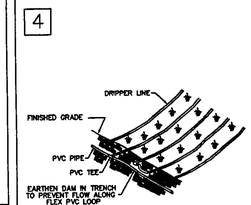
BURIED DRIP LOOP CONNECTION
NTS



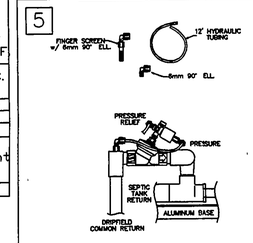
NEAR SURFACE DRIP LOOP CONNECTION
NTS

NOTES:
REMOVE ALL DEAD AND DOWN WOOD BY HAND. HAND INSTALLATION REQUIRED.
-MARK CONTOUR EVERY 15' WITH FLAGS.
-RAKE LEAVES/TOPSOIL ASIDE WITH LEAF RAKES.
-PREPARE 2-3" WIDE TRENCH WITH GARDEN RAKE OR SHOVEL.
-PLACE TUBING 3" BELOW TOPSOIL INTO MINERAL SOIL, HOLD IN PLACE WITH 4 INCH WIRE WICKETS.
-COVER IN REVERSE ORDER.

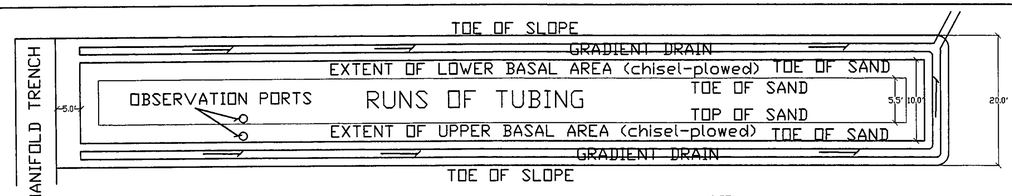




DRIPPER LINE SECTION DETAIL
NTS



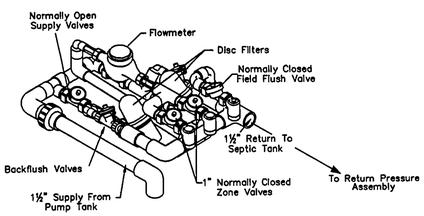
RETURN PRESSURE ASSEMBLY
NTS

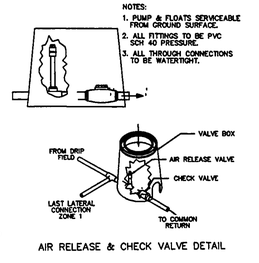


GENERAL SLOPE

ZONE DETAILS

AMERICAN MFG. COMPANY
TWO-FILTER - 15 GPM
HYDRAULIC UNIT





AIR RELEASE & CHECK VALVE DETAIL

NOTE:

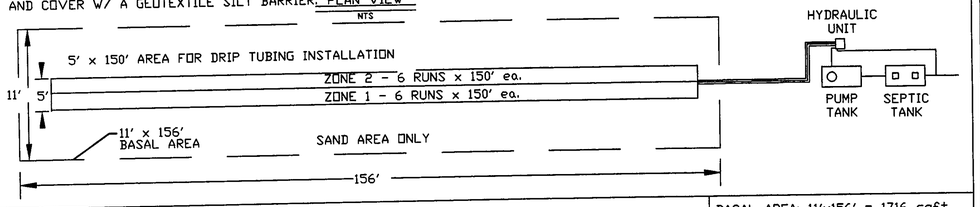
IN THE EVENT THE DRIP ZONES ARE OVER 10 FEET IN VERTICAL ELEVATION ABOVE THE HYDRAULIC UNIT, INSTALL A "RETURN PRESSURE ASSEMBLY." THE ASSEMBLY IS TO BE USED TO PREVENT THE RETURN LINE FROM DRAINING AFTER OR DURING A DOSE. REMOVE THE ZONE RETURN CONNECTION AND REINSTALL A SHORT 1" NIPPLE IN THE RETURN VALVE INSTALL ASSEMBLY AS SHOWN TO THE LEFT. THE HYDRAULIC TUBING PROVIDING PRESSURE FOR THE REST OF THE UNIT MUST BE PLUGGED AND THE NEW TUBING FROM THE ASSEMBLY CONNECTED TO THE PRESSURE SIDE OF THE SILENOID.

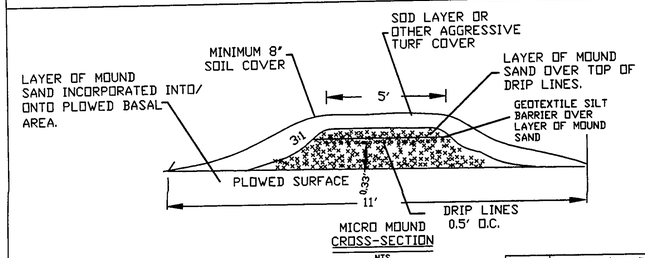
**BOTH SUPPLY AND A COMMON RETURN LINE ARE TO BE SCH. 40 PVC PIPING WITH PRESSURE RATED FITTINGS AND FROST PROTECTED.

NOTES:
1. PLOW ENTIRE 11'x156' AREA OF DRAINFIELD (SAME WAY YOU WOULD A REGULAR MOUND).
2. ADD LAYER OF MOUND SAND INCORPORATING IT INTO/ONTO PLOWED BASAL AREA.
3. PLACE DRIP TUBING ON TOP OF SAND IN THE 5'x150' UPPER SECTION OF DRAINFIELD.
4. ADD LAYER OF MOUND SAND OVER TOP OF DRIP TUBING IN THE 5'x150' AREA AND COVER W/ A GEOTEXTILE SILT BARRIER.
5. COVER ENTIRE 11'x156' AREA OF DRAINFIELD WITH A MINIMUM COVER OF 8" WITH A TURTLE-BACK GRADE FOR POSITIVE DRAINAGE.
6. AN AGGRESSIVE TURF COVER OVER ENTIRE 11'x156' AREA IS RECOMMENDED (PREFERABLY SOD).

ALL PVC PIPE SHALL BE SCH 40 PVC.

PLAN VIEW
NTS





MICRO MOUND CROSS-SECTION
NTS

BASAL AREA: 11'x156' = 1716 sqft
BASAL AREA LOADING: 0.24 gpd/sqft
SAND BED: 5'x150' = 750 sqft
SAND BED LOADING: 0.48 gpd/sqft
DRIP TUBING: 6 x 300' = 1800 L.F.
ZONE 1: 3 runs x 300' = 900 L.F.
ZONE 2: 3 runs x 300' = 900 L.F.
LANDSCAPE LINEAR LOAD: 2.4 gpd/L.F.

AMERICAN MANUFACTURING COMPANY INC. 5817 WELLINGTON ROAD, GAINESVILLE VA 20155 PHONE: 703-754-0077		
PROJECT NAME:	DATE: 4/15/07	
	CHECKED	DATE
	APPROVED	DATE
COUNTY:	TITLE: Mound Treatment SCHEMATIC	
DESIGNED BY:		
REVISION	FILE: S:/DATA/Datalog/Engineer/Residential Plans/04.MICROMOUND\Moundrip.dwg	SCALE: NTS SHEET OF

David Rapp Services
3406 Dayton Road Madison, Ohio 44057
440-428-1686

DATE: APRIL 2007
DRAWN BY: DAR
CHECKED BY:
APPROVED BY: DAR
P.S. No 7597

JAMES REEDER
PP# 08A-026-0-00-029-0
VIEWMONT DRIVE, CONCORD

DAVID A. RAPP 7597 REGISTERED PROFESSIONAL ENGINEER