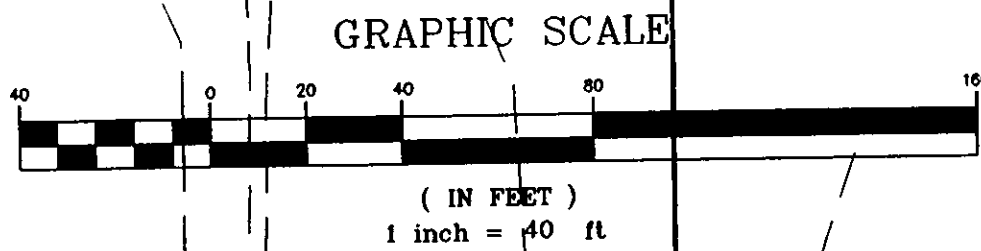


NOTES:
1. ALL WORK ON THE SEPTIC AND DRIP IRRIGATION SYSTEM SHALL BE IN ACCORDANCE WITH LAKE COUNTY GENERAL HEALTH DISTRICT GUIDELINES.
2. ONLY LICENSED INSTALLERS SHALL BE USED.
3. ALL COMPONENTS FOR THE DRIP SYSTEM SHALL BE FURNISHED AS A SINGLE PACKAGE FROM ONE SUPPLIER.
4. THE SYSTEM SUPPLIER OR AUTHORIZED LOCAL SERVICE REPRESENTATIVE SHALL PROVIDE INSTALLATION ASSISTANCE, FIELD PROGRAMMING OF THE CONTROLLER, START-UP ASSISTANCE AND SEMI-ANNUAL SERVICE FOR THE FIRST YEAR OF OPERATION.



JOSEPH AND AMY HAHN
PP#1A-050-0-00-020-0
DOC.# 2003R063526

VACANT

PP#1A-050-0-00-022-0
DOC.# 2004R015277

PP#1A-050-0-00-010-0
DOC.# 990031231

VACANT

Drip distribution area has been field
verified and protected with marking tape.
Plans submitted to LGHD and meet
design criteria.
Hydraulic calculations verified and accurate.

DRIP DISTRIBUTION PLAN SUBMITTAL REVIEW

Date Name
6-23-04 David B. Rapp
6-24-04 David B. Rapp RS
6-16-04 Joseph R. Rapp PF
ABN

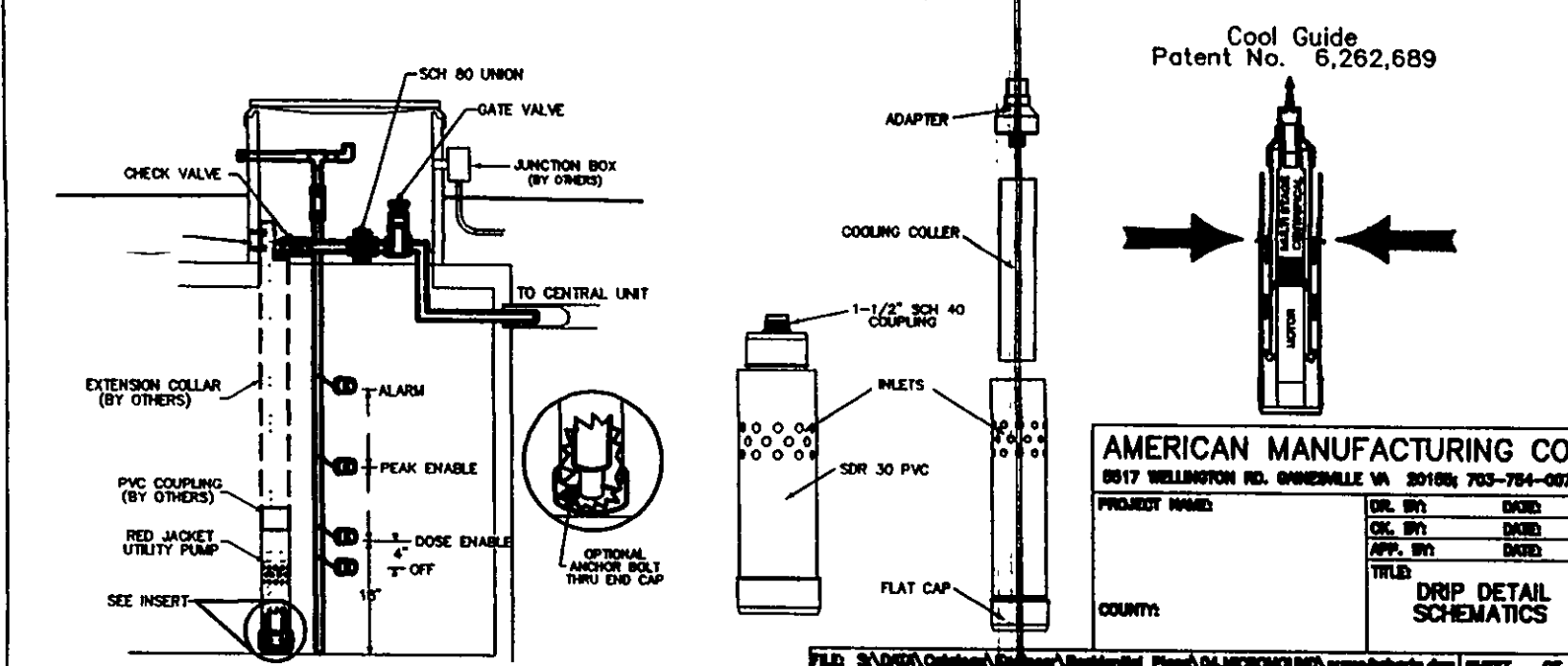
DRIPPER LINE PRESSURE CHART 2A FIELD FLUSHING			CENTRAL HYDRAULIC CHART 2A FLOW vs HEAD LOSS		
LINEAR FEET	HEAD PSI	HEAD FT.	FLOW GPM	TOTAL IN 15' TOH UNIT	TOTAL IN 30' TOH UNIT
50	7	16			
60	7	16			
70	7	16	5	2	4
80	7	16	6	2	4
90	7	16	7	3	5
100	7	16	8	4	6
110	7	16	9	5	7
120	7	16	10	6	8
130	7	16	11	7	9
140	7	16	12	8	10
150	7	16	13	9	11
160	7	16	14	10	12
170	7	16	15	11	13
180	7	16	16	12	14
190	7.4	17	17	13	15
200	8	18	18	14	16
210	8.6	20	19	15	17
220	9.2	21	20	16	18
230	9.9	23	21	17	19
240	10.5	24	22	18	20
250	11.2	26	23	19	21
260	12	28	24	20	22
270	12.7	29	25	21	23
280	13.5	31			
290	14.3	33			
300	15.2	35			
310	16	37			
320	16.9	39			
330	17.9	41			
340	18.9	44			
350	19.9	46			
360	20.9	48			
370	22	51			
380	23.1	53			
390	24.2	56			
400	25.4	59			

SPECIFICATION

The laminar flow collar shall be made of non-corrosive, glueable PVC and have sufficient holes in the outer guide tube to assure laminar flow for the rated capacity. The inner flow collar shall extend near the bottom to provide sufficient cooling flow for the motor. The dimension between the inner collar and the pump motor shall not restrict flow to the pump intake, but will provide for scouring of surfaces. The laminar flow collar shall be a "Cool Guide" as manufactured by Americh Manufacturing Company, Inc. Patent Pending.

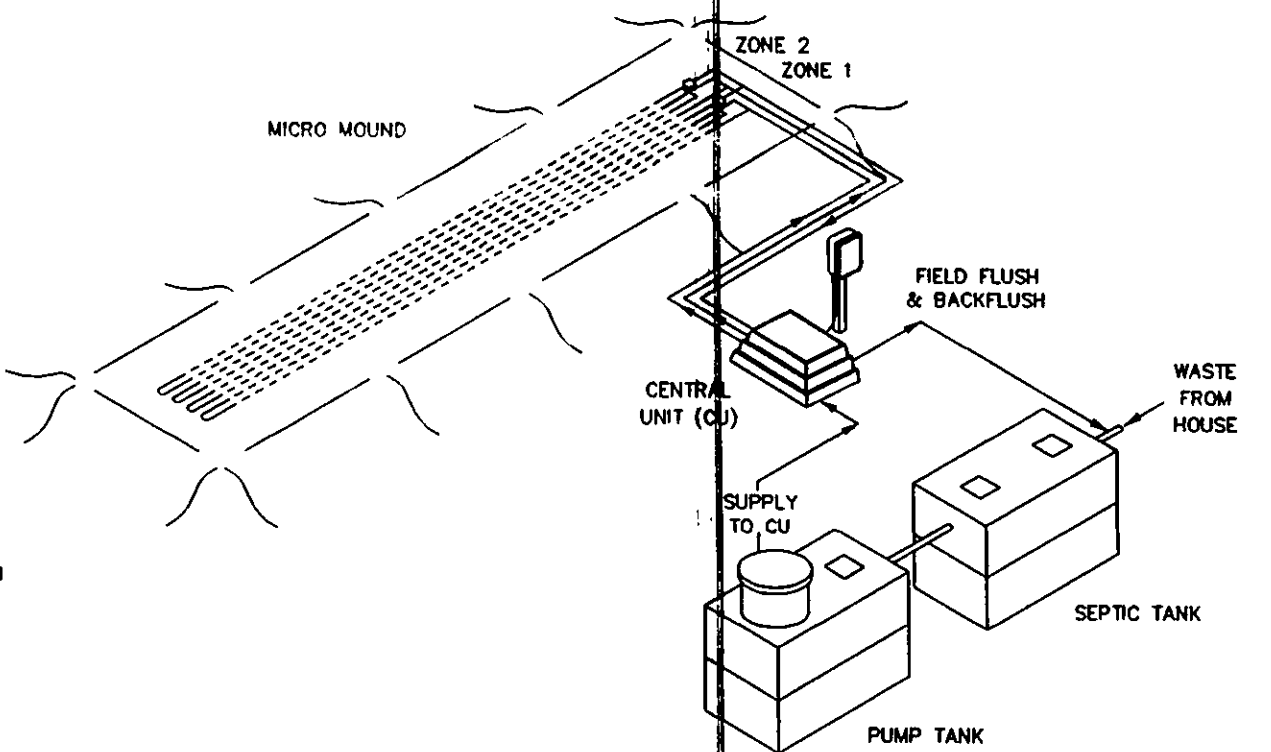
INSTALLATION INSTRUCTIONS

- Measure the distance from the bottom of the tank to 6" down from the top of the riser. Cut the extension pipe (by others) to the length necessary to reach this height. Cut 1/2 of the pipe down 12" to 18" away from the top of the pipe for pump discharge pipe.
- Glue the extension coupling (by others) to the extension pipe and to the Cool Guide.
- For repairs: glue on the Cool Guide flat cap and place the Cool Guide firmly in the bottom of the tank. Attach the extension to the riser, with the anchors as shown.
- For new construction: Anchor the flat cap to the bottom of the tank in the proper location to hold Cool Guide and extension. The cap may or may not be glued to the device. Attach the extension to the riser with the anchors as shown.
- Place the pipe dope on the Cool Guide adapter threads and thread them into pump discharge.
- Attach cooling collar to adapter with set screw provided.
- Glue pipe into flow collar and with pump attached, lower into the guide tube.
- Attach to discharge pipe, valves, and connect electrical as specified.



GENERAL NOTES - DRIP DISPOSAL

- 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.
- THE INSTALLATION OF THIS SYSTEM SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND PROCEDURES AS SUPPLIED BY THE MANUFACTURER OF THE EQUIPMENT.
- 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.
- ALL CUTTING OF PVC PIPE, FLEXIBLE PVC AND DRIPPER TUBING SHALL BE ACCOMPLISHED WITH PIPE CUTTERS APPROVED BY MANUFACTURER. NO SAWING OF PVC, FLEXIBLE PVC OR DRIPPER TUBING ALLOWED.
- 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 CLEANED OF ANY CONSTRUCTION DEBRIS.
- NO WET WEATHER INSTALLATION IS PERMITTED.
- 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.
- HORIZONTAL SPACING BETWEEN DRIPPER LINES AND THE INSTALLATION DEPTH SHALL BE AS SPECIFIED.
- THE BUILDING SEWER SHALL BE 4" SCH40 PVC WITH A MINIMUM SLOPE OF 1/4" PER FOOT. THERE SHALL BE NO BENDS GREATER THAN 45 DEGREES. CLEANOUTS SHOULD BE PROVIDED EVERY 25 FEET FOR CONSTRUCTION TECHNIQUES REFER TO THE "SEWAGE HANDLING AND DISPOSAL REGULATIONS".
- IF TREES ARE TO BE REMOVED FROM SITE, CUT STUMPS FLUSH WITH GROUND, REMOVE BY HAND.
- 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).
- THE CONTRACTOR SHALL BE CERTIFIED 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 SITE WORK BEGINNING TO INSURE PROTECTION OF THE SITE CONDITIONS AND TO ENSURE THE SYSTEM IS INSTALLED ACCORDING TO DESIGN.
- 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 ANY ONGOING WORK SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- DRAINFIELD SUPPLY AND RETURN LINES TO BE INSTALLED AT ADEQUATE DEPTH TO PREVENT FREEZING.



SUBSURFACE DISTRIBUTION SYSTEM

SCOPE: DOMESTIC SEWAGE WILL FLOW BY GRAVITY THROUGH THE SEPTIC TANK THEN INTO A FINAL DRAINING TANK. THE CENTRAL UNIT WILL DISPOSE OF THE EFFLUENT BY ALTERNATELY DOSING MULTIPLE ZONES IN THE ABSORPTION AREA.

THE CENTRAL UNIT COMPRISES BOTH THE CONTROL AND THE HYDRAULIC UNITS.

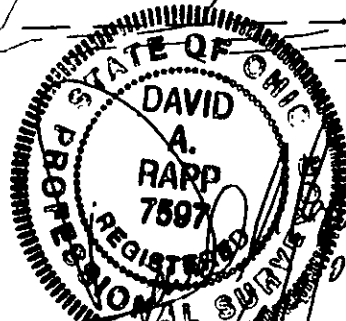
AMERICAN MANUFACTURING CO. 2517 WELLINGTON RD. GAINESVILLE, FL 32608 782-784-0077	
PROJECT NAME:	DATE:
CITY:	DATE:
COUNTY:	DATE:
COVER SHEET	

OWNER: DOUG AND BONNIE WOOLEY
2638 McMACKIN ROAD
MADISON, OHIO 44057

"I, the undersigned hereby certify that this topography, indicated by 1' contours and elevations shown hereon represents an actual field survey made by me in June 2004, and that the elevations were taken at appropriate intervals and that as of that date they existed as indicated hereon."

David A. Rapp 6/12/04
Reg. No.

APPROVED MADISON TOWNSHIP ZONING
DATE 6/25/04
BY JM 21870



COR Consultants, Inc.
23 S. Forest Street
Geneva, Ohio 44041
440-466-8085

DATE: JUNE 2004
DRAWN BY: DAR
CHECKED BY: DAR
APPROVED BY: DAR
P.S. No. 7597

DOUG AND BONNIE WOOLEY
STOCKING ROAD
MADISON TWP., OHIO