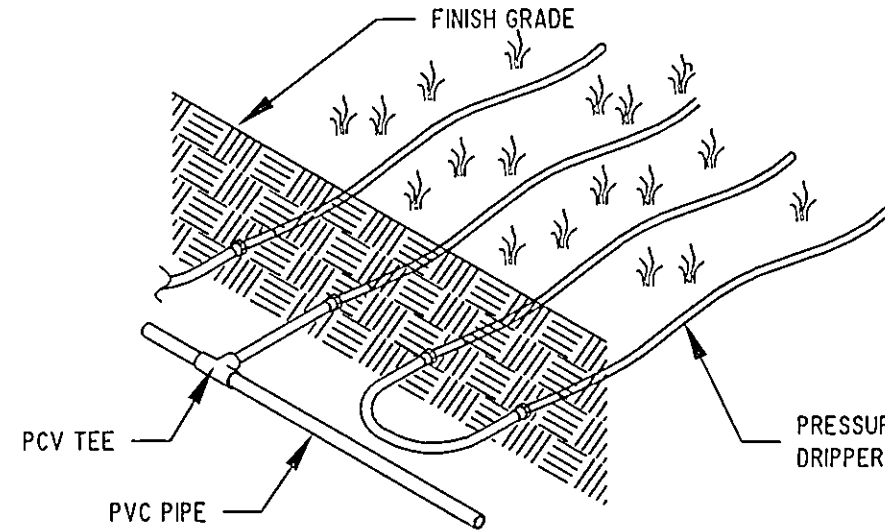


SEPTIC DRIP CALCULATION SHEET

1	417	GALLONS PER DAY	4	BEDROOMS
2	0.23	GPD/L F. TUBING INFILTRATIVE SOIL LOADING RATE		
3	102	FT. (Length)	12	FT. (Width) AREA FOR DISPOSAL LAYOUT
4	0.12	GPD/FT2 AREA SOIL LOADING RATE PROVIDED	1224	FT SQ.
5	2	ZONES		
6	1632	TOTAL DRIPPER LINE PROVIDED		
7	2000	SEPTIC TANK SIZE		
8	2000	DOSING TANK SIZE		
9	33	GALLONS PER INCH IN DOSING TANK (Recommended Minimum)		
10		ZONE ONE		
11	2100	TOTAL ABSORPTION AREA		
12	816	LINEAR FEET OF DRIP TUBING		
13	204	LONGEST LATERAL LENGTH		
14	4.15	DOSING FLOW RATE		
15	4	NO. RETURN FIELD FLUSH CONNECTIONS		
16	6.40	FIELD FLUSH FLOW RATE		
17	10.55	TOTAL FLOW REQUIRED		
18		ZONE TWO		
19	2100	TOTAL ABSORPTION AREA		
20	816	LINEAR FEET OF DRIP TUBING		
21	204	LONGEST LATERAL LENGTH		
22	4.15	DOSING FLOW RATE		
23	4	NO. RETURN FIELD FLUSH CONNECTIONS		
24	6.40	FIELD FLUSH FLOW RATE		
25	10.55	TOTAL FLOW REQUIRED		
26	11	MAXIMUM DESIGN FLUSHING FLOW		
27	9	FEET OF HEAD LOSS FROM HYDRAULIC UNIT (Based on #26)		

28		HYDRAULIC UNIT SUPPLY LINE		
29	1.5	PIPE DIAMETER		
30	15	LENGTH SUPPLY PIPE		
31	7.1	FEET OF STATIC LIFT		
32	9	TOTAL FEET HEAD LOSS IN LINE (Dynamic Head Loss + #31)		
33		FOR MAIN SUPPLY LINE PIPE SIZE & LENGTH:		
34	1"	ZONE 1 SIZE	150	ZONE 1 LENGTH
35	1"	ZONE 2 SIZE	150	ZONE 2 LENGTH
36		RETURN FLUSH LINE SIZE & RETURN:		
37	1"	ZONE 1 SIZE	150	ZONE 1 LENGTH
38	1"	ZONE 2 SIZE	150	ZONE 2 LENGTH
39	10	FEET OF TOTAL STATIC HEAD LOSS (Vertical Lift)		
40		TOTAL PRESSURE LOSS (Add Items 27, 32, 34/35, 37/38, 39 + Flushing):		
41	64	ZONE 1 HEAD LOSS, INCLUDES	20	FEET FLUSHING
42	64	ZONE 2 HEAD LOSS, INCLUDES	20	FEET FLUSHING
43		PUMP SIZING:		
44	64	MAXIMUM TOTAL PRESSURE LOSS (Highest 41 or 42)		
45	12	DISC FILTER BACKFLUSH (#32 + 115/11. + 15 GPM)		
46	15	GPM	124	FEET, 115 VOLTS, 1 PHASE, 0.5 HP
47		TWO DOSING PER ZONE:		
48		ZONE ONE:		
49	4.1	Dosing GPM	7.54	MIN /DOSE 31.3 GALLONS PER DOSE
50	4	AVE. CYCLES	6.67	PEAK CYCLES
51		ZONE TWO:		
52	4.1	Dosing GPM	7.54	MIN /DOSE 31.3 GALLONS PER DOSE
53	4	AVE. CYCLES	6.67	PEAK CYCLES
54	4	INCHES DRAWDOWN FLOAT SWITCH SETTING (Minimum 4")		
55		Landscape Linear Loading Rate (LLLR):	LLLR = 4.1	
56		So Loading Rate (SLR):	SLR = 0.11	



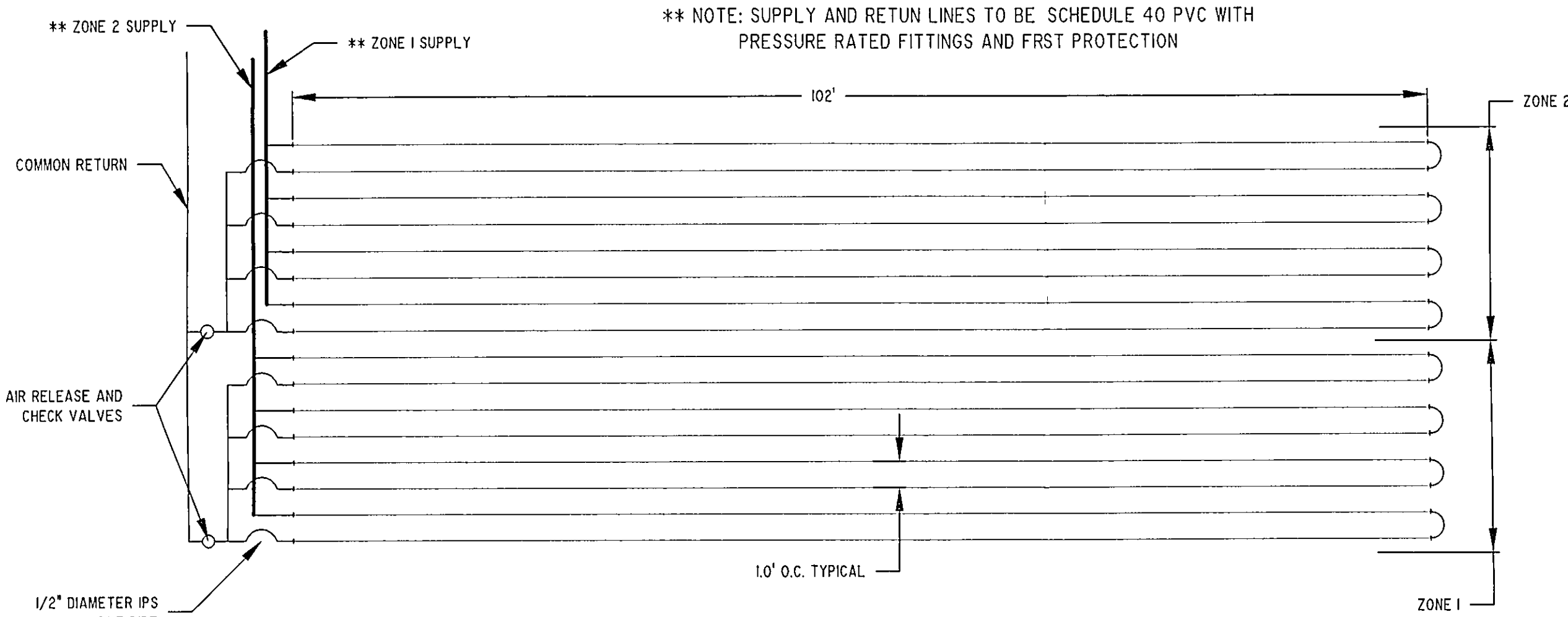
SUBSURFACE DISTRIBUTION SYSTEM

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

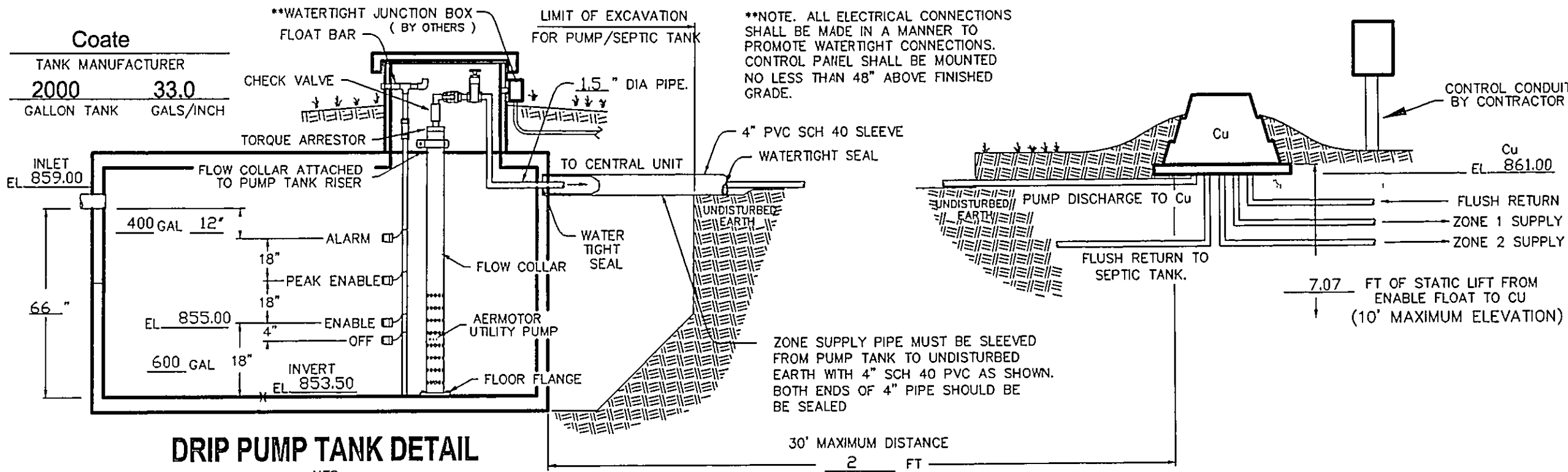
THE CENTRAL UNIT COMPRISES BOTH THE CONTROLS AND THE HYDRAULIC UNIT.

DRIPPER LINE TO FOLLOW CONTOURS WITH PVC MANIFOLD PERPENDICULAR TO GRADE. PVC MANIFOLD TO BE FREEZE PROTECTED.

DRIP DETAIL SCHEMATICS

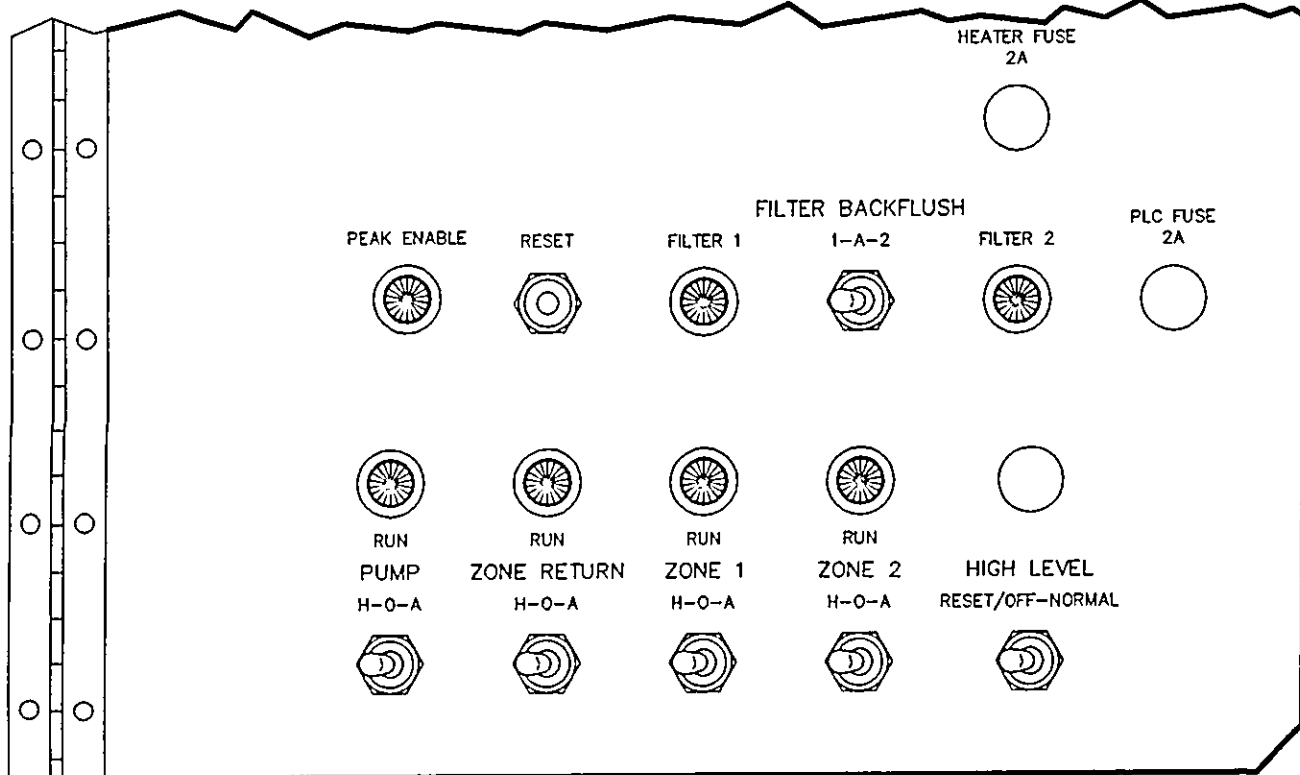


MANIFOLD DETAIL AND ZONE LAYOUT



DRIP PUMP TANK DETAIL

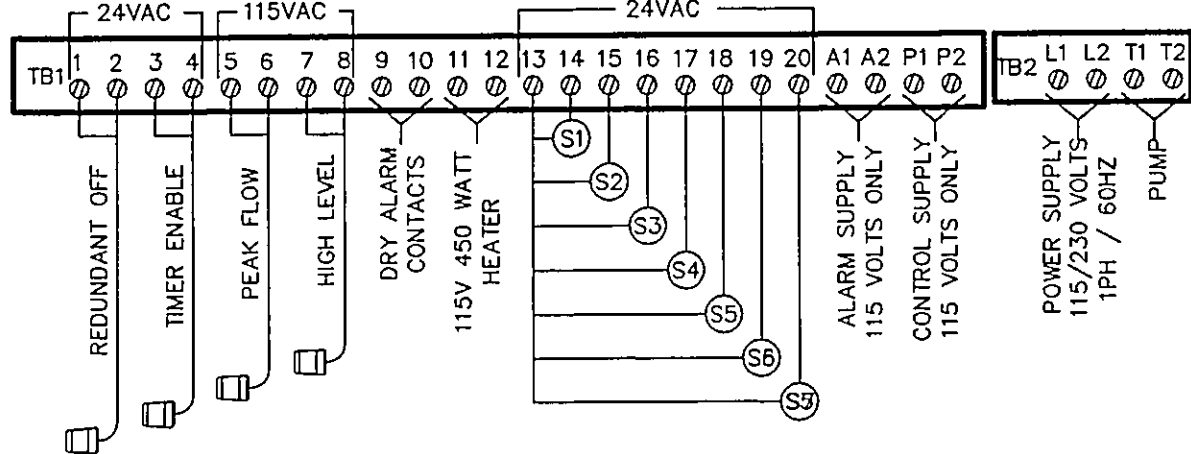
NTS



INNER DOOR LAYOUT

NTS

PUMP & CONTROL DETAIL



REVISIONS	BY
REVISED SEPTIC SYS 07/04/01	DWN

Barrington
CONSULTING GROUP, INC.
38342 WESTERN PARKWAY, SUITE 10
WILLOUGHBY, OHIO 44094
PHONE 440-946-1761 FAX 440-918-0486

ROSS DEJOHN
588 WILLIAMSBURG DR.
HIGHLAND HEIGHTS, OHIO 44143
216-310-0180

DETAILS
SIL 10 ANNA DRIVE LAZIO'S RIDGE SUBDIVISION
KIRTLAND, OHIO
DEJOHN RESIDENCE

DRAWN
WSO
CHECKED
DWN
JULY 26, 2004
SCALE
NONE
JOB NO.
04001
SHEET
2/2
OF SHEETS