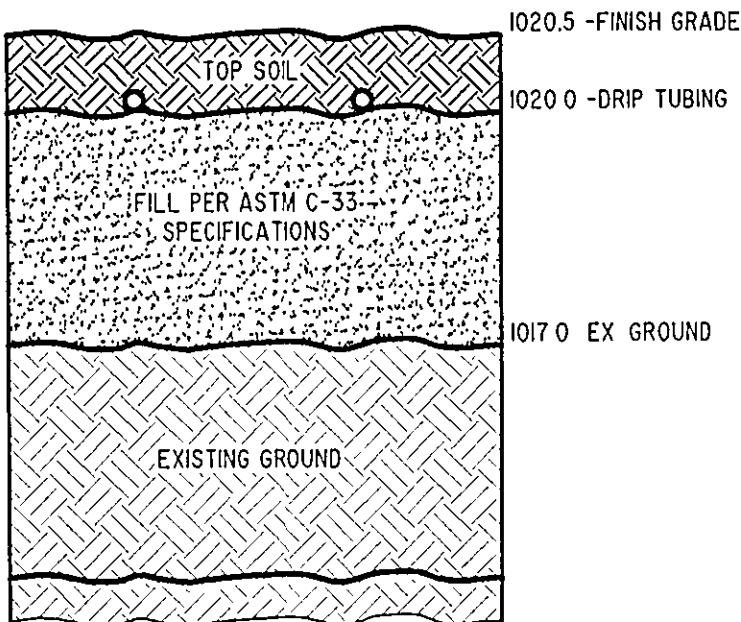


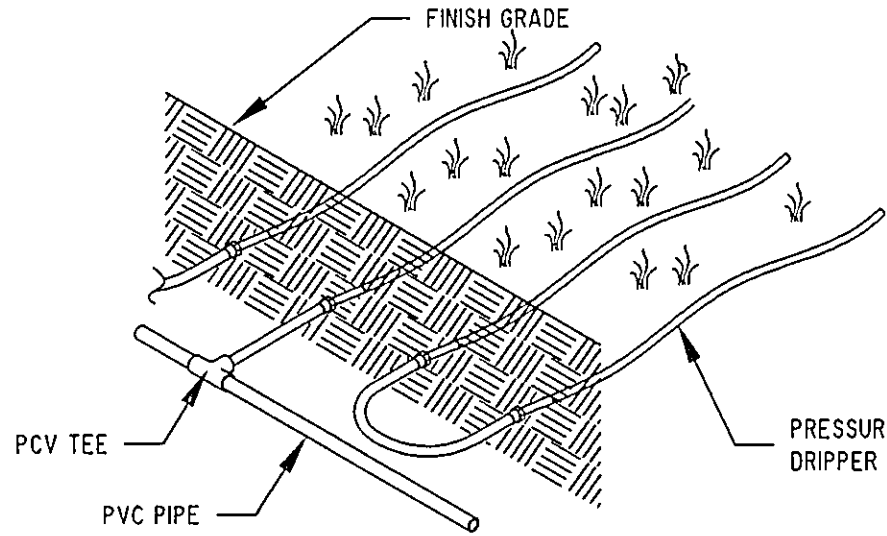
SEPTIC DRIP CALCULATION SHEET

1	417	GALLONS PER DAY	4	BEDROOMS
2	0.23	GPD/L.F. TUBING INFILTRATIVE SOIL LOADING RATE		
3	155	FT (Length)	14	FT (Width) AREA FOR DISPOSAL LAYOUT
4	0.19	GPD/FT ² AREA SOIL LOADING RATE PROVIDED	2170	FT SQ.
5	2	ZONES		
6	1550	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	1085	TOTAL ABSORPTION AREA		
12	775	LINEAR FEET OF DRIP TUBING		
13	155	LONGEST LATERAL LENGTH		
14	3.94	DOSING FLOW RATE		
15	5	NO RETURN FIELD FLUSH CONNECTIONS		
16	8.00	FIELD FLUSH FLOW RATE		
17	11.94	TOTAL FLOW REQUIRED		
18	ZONE TWO			
19	1085	TOTAL ABSORPTION AREA		
20	775	LINEAR FEET OF DRIP TUBING		
21	155	LONGEST LATERAL LENGTH		
22	3.94	DOSING FLOW RATE		
23	5	NO RETURN FIELD FLUSH CONNECTIONS		
24	8.00	FIELD FLUSH FLOW RATE		
25	11.94	TOTAL FLOW REQUIRED		
26	12	MAXIMUM DESIGN FLUSHING FLOW		
27	11	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	FORCE MAIN SUPPLY LINE PIPE SIZE & LENGTH:				
34	1"	ZONE 1 SIZE	150	ZONE 1 LENGTH	12
35	1"	ZONE 2 SIZE	150	ZONE 2 LENGTH	12
36	RETURN FLUSH LINE SIZE & RETURN:				
37	1"	ZONE 1 SIZE	150	ZONE 1 LENGTH	6
38	1"	ZONE 2 SIZE	150	ZONE 2 LENGTH	6
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	16	FEET FLUSHING	
42	64	ZONE 2 HEAD LOSS, INCLUDES	16	FEET FLUSHING	
43	PUMP SIZING:				
44	64	MAXIMUM TOTAL PRESSURE LOSS (Highest 41 or 42)			
45	124	DISC FILTER BACKFLUSH (#32 + 15ft @ 15 GPM)			
46	15	GPM @	124	FEET,	115
47				VOLTS,	1
48				PHASE,	0.5
49				HP.	
47	TIMED DOSING PER ZONE:				
48	ZONE ONE:				
49	4.58	Dosing GPM	6.84	MIN./DOSE	31.28
50	4	AVE. CYCLES	6.67	PEAK CYCLES	
51	ZONE TWO:				
52	4.58	Dosing GPM	6.84	MIN./DOSE	31.28
53	4	AVE. CYCLES	6.67	PEAK CYCLES	
54	4	INCHES DRAWDOWN FLOAT SWITCH SETTING (Minimum 4")			
55	Landscape Linear Loading Rate (LLLRL):				
56		Soil Loading Rate (SLR):	LLLRL =	2.69	
			SLR =	0.19	



TYPICAL SECTION



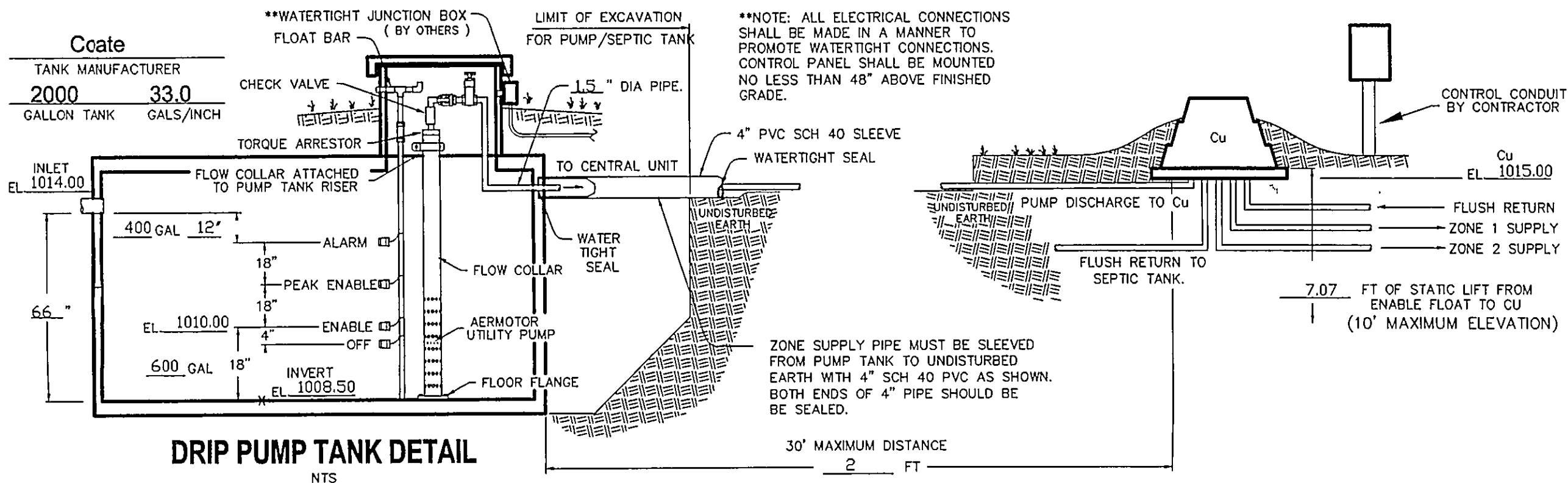
SUBSURFACE DISTRIBUTION SYSTEM

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.

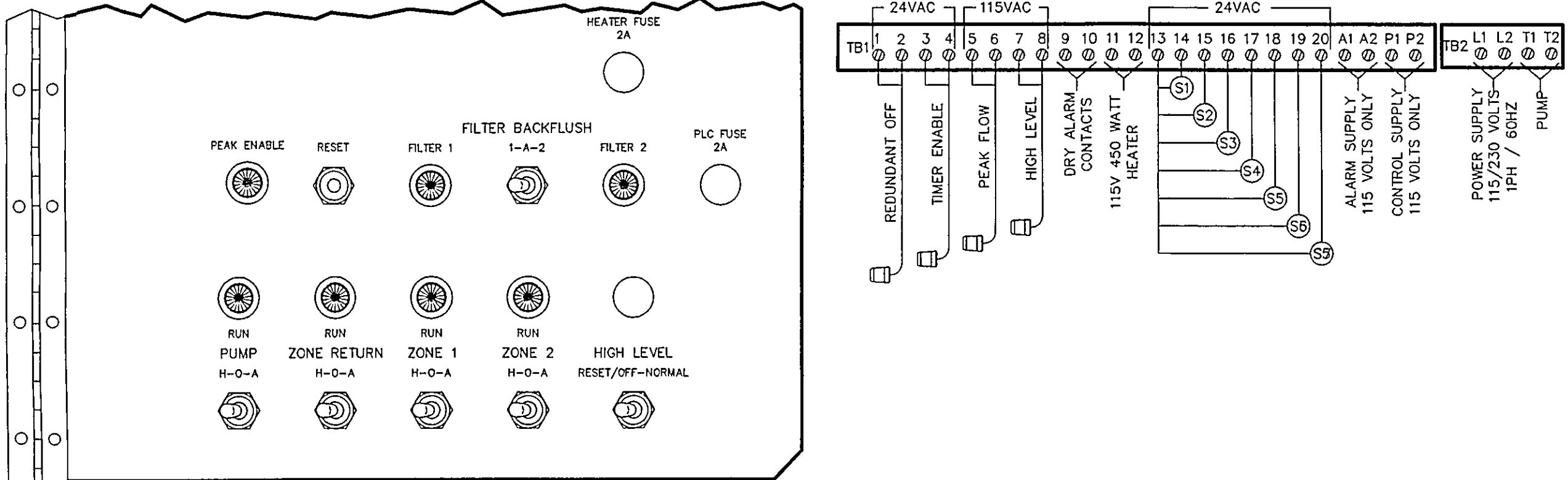
THE CENTRAL UNIT COMPRISES BOTH THE CONTROLS AND THE HYDRAULIC UNIT.

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

DRIP DETAIL SCHEMATICS



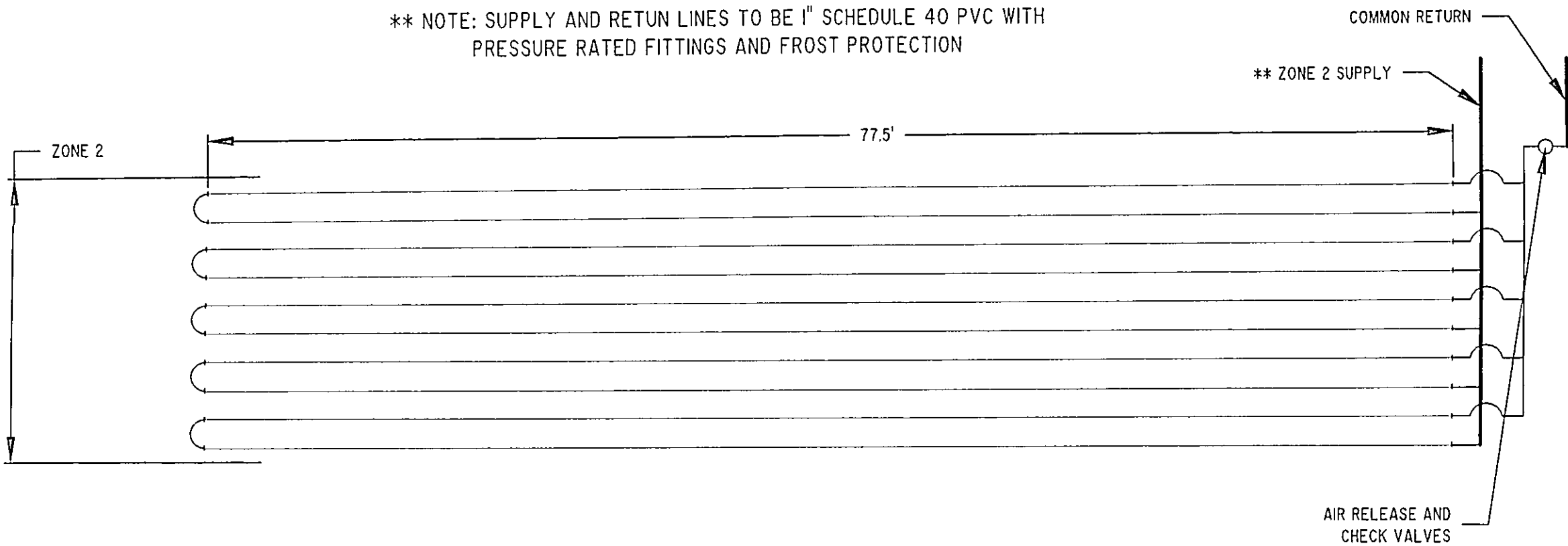
DRIP PUMP TANK DETAIL



INNER DOOR LAYOUT

PUMP & CONTROL DETAIL

** NOTE: SUPPLY AND RETURN LINES TO BE 1" SCHEDULE 40 PVC WITH PRESSURE RATED FITTINGS AND FROST PROTECTION



MANIFOLD DETAIL AND ZONE LAYOUT

REVISIONS	BY
REVISED SEPTIC SYS 01/08/04	DWN
REVISED SEPTIC SYS 01/01/05	WSO
REVISED SEPTIC MARCH 23, 2005	WSO
REVISED SEPTIC MARCH 23, 2005	WSO

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SIL 1 GIRLDED ROAD, CONCORD, OHIO 44077
P.P. No. 08A002000360

DRAWN
CHECKED
DATE
FEB. 22, 2005
SCALE
NONE
JOB NO.
05013
SHEET
2/2
OF SHEETS