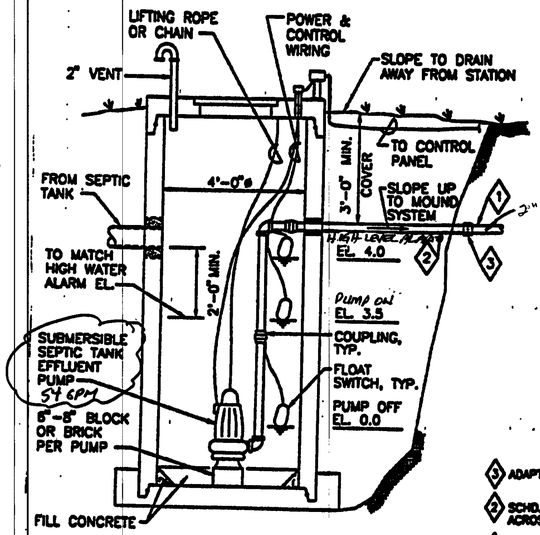


DOSING STATION
(1000 GALLONS)

NOTES:

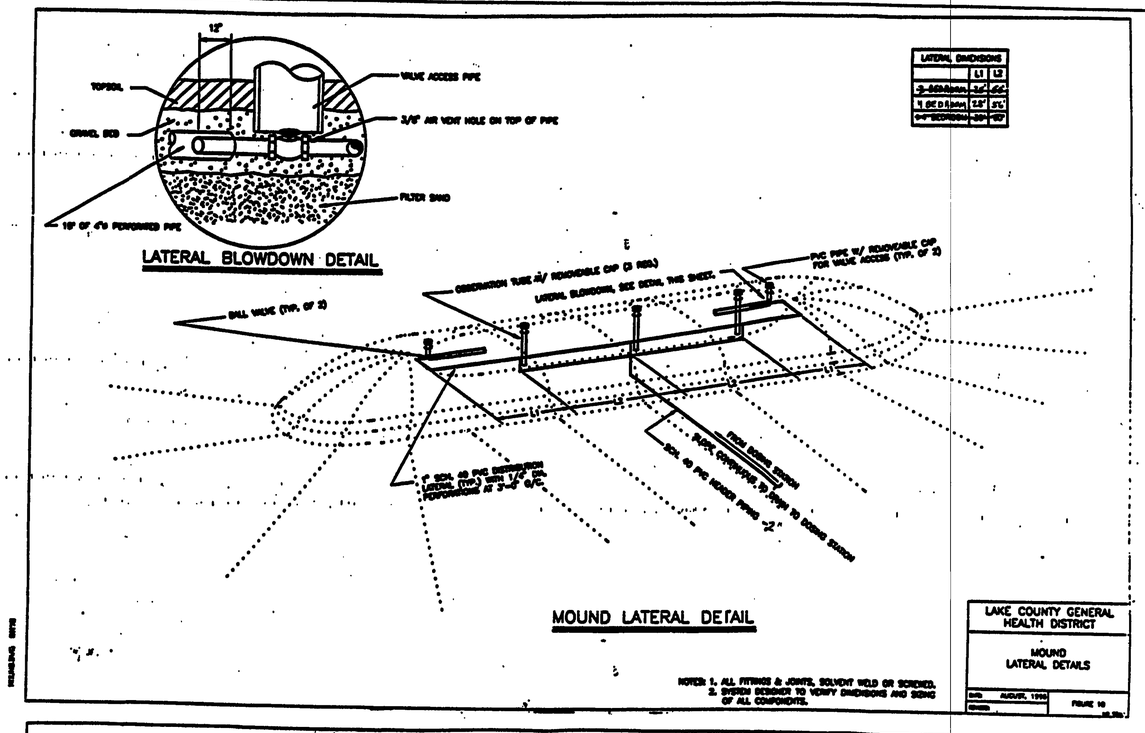
1. DESIGN STATION AND BASE TO PREVENT FLOTATION IN AREAS OF HIGH GROUND WATER.
2. ALL JOINTS AND PENETRATIONS SHALL BE WATERTIGHT TO PREVENT INFILTRATION OF GROUND/SURFACE WATER.
3. STATION PUMP SHALL BE DESIGNED TO DOSE MOUND BASED ON THE TABLE BELOW:

	TIME BETWEEN DOSE	MIN. GALLONS PER DOSE
3 BEDROOM	4 HOUR	~60
4 BEDROOM	3 HOUR	~40
>4 BEDROOM	3 HOUR	~50

4. FORCE MAIN, DISTRIBUTION LATERAL DESIGN AND DETAILED STATION INCLUDING DIMENSIONS, AND ELEVATIONS SHALL BE SUPPORTED BY CALCULATIONS AND OTHER APPROPRIATE DOCUMENTATION IN PLAN SUBMITTALS.
5. INSTALLATION SHALL MEET ALL APPLICABLE CODES/CRITERIA.
6. CONTROL PANEL WITH VISUAL AND AUDIBLE HIGH LEVEL ALARM SHALL BE LOCATED IN THE GARAGE, BASEMENT OR OTHER SUITABLE INDOOR LOCATION.
7. SPECIAL CONSIDERATION SHALL BE GIVEN WHEN DESIGNING A DOWNHILL PUMPING APPLICATION TO PREVENT SIPHONING.
8. WET WELL CAPACITY TO ACCOUNT FOR PIPING DRAINING BACK TO DOSING STATION.

(3) ADAPTER COUPLING.
(2) SCHD. 40 GALV. STL. ACROSS EXCAVATION.
(1) SCHD. 40 PVC OR OTHER APPROVED PRESSURE PIPE MATERIAL.

LAKE COUNTY GENERAL HEALTH DISTRICT
LAKE COUNTY MOUND SYSTEM DOSING STATION
DATE AUGUST, 1998 — FIGURE 11



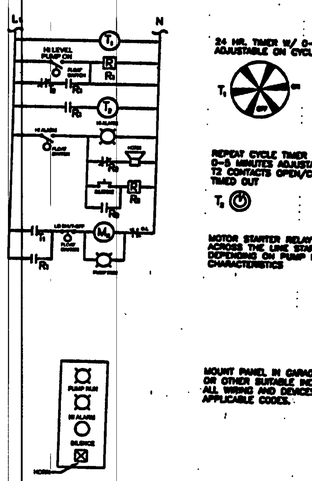
LATERAL BLOWDOWN DETAIL

LATERAL DIMENSIONS	L1	L2
3-BEDROOM	3'-0"	6'-6"
4-BEDROOM	2'-6"	5'-6"
>4-BEDROOM	3'-0"	6'-0"

MOUND LATERAL DETAIL

NOTES: 1. ALL FITTINGS & JOINTS, SOLVENT WELD OR SCREWED.
2. SYSTEM DESIGNER TO VERIFY DIMENSIONS AND SIZING OF ALL COMPONENTS.

LAKE COUNTY GENERAL HEALTH DISTRICT
MOUND LATERAL DETAILS
DATE AUGUST, 1998 — FIGURE 10



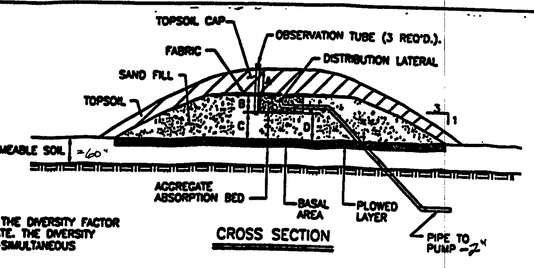
PUMP CONTROL PANEL

LAKE COUNTY GENERAL HEALTH DISTRICT
DOSING PUMP STATION ELECTRICAL SCHEMATIC
DATE AUGUST, 1998 — FIGURE 12

MINIMUM DIMENSIONS

A =	1'-6"
B =	8"
C =	2'-0" (NOTE 1)
D =	1'-0" (NOTE 1)
E =	3'-6"
F =	12'-9" (NOTE 1 & 2)
G =	12'-9" (NOTE 1 & 2)
H =	12'-9" (SEE NOTE 1)
I =	23'-0" (NOTE 1)

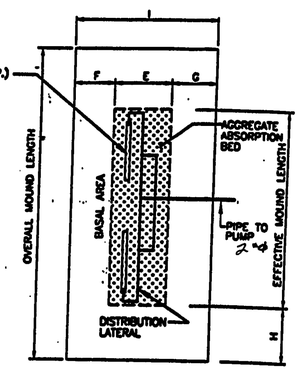
NOTES:
1. NOMINAL, ACTUAL MAY VARY WITH GROUND SLOPE.
2. G = F ON LEVEL OR NEAR LEVEL BUILDING SITES.
3. BASE FLOW RATE DIVIDED BY THE DIVERSITY FACTOR EQUALS THE DESIGN FLOW RATE. THE DIVERSITY FACTOR ACCOUNTS FOR NON-SIMULTANEOUS PEAKS AND TIMED DOSING.
4. FOR PIPING DETAILS, SEE FIGURE 10.



CROSS SECTION

MOUND CALCULATIONS

NUMBER OF BEDROOMS	3	4	>4
BASE FLOW RATE (gpd)	360	480	600
DIVERSITY FACTOR (NOTE 3)	1.0	1.15	1.30
DESIGN FLOW RATE (gpd)	360	417	460
EFFECTIVE MOUND LENGTH	124'	170'	198'
OVERALL MOUND LENGTH (NOTE 1)	149.5'	195'	216'
DESIGN LINEAR LOADING RATE (gpd/lf)	2.9	2.4	2.3
DESIGN SAND LOADING RATE (gpd/sf)	0.7	0.7	0.7
BASAL LOADING RATE (gpd/sf)	0.3	0.3	0.3
ABSORPTION BED AREA (sf)	525	525	665



PLAN

LAKE COUNTY GENERAL HEALTH DISTRICT
LAKE COUNTY MOUND SYSTEM DESIGN INFORMATION SHEET
DATE AUGUST, 1998 — FIGURE 9

REV NO.	DESCRIPTION	DATE	BY	CHK'D
1	REVISED MOUND	10/9/03	HJ	TJ

BABCOCK, JONES AND ASSOCIATES, INC
CIVIL ENGINEERS – SURVEYORS – LAND PLANNERS
PAINESVILLE OHIO 44077

DATE 9/30/03
DESIGN BY H.J.
DRAWN BY T.R.
APPROVED BY H.J.

SITE PLAN FOR
SCOTT & TIKA SALIMERI
CONCORD TOWNSHIP
LAKE COUNTY

SCALE: NONE
JCB NO. 03-058-A
SHEET 2 OF 2