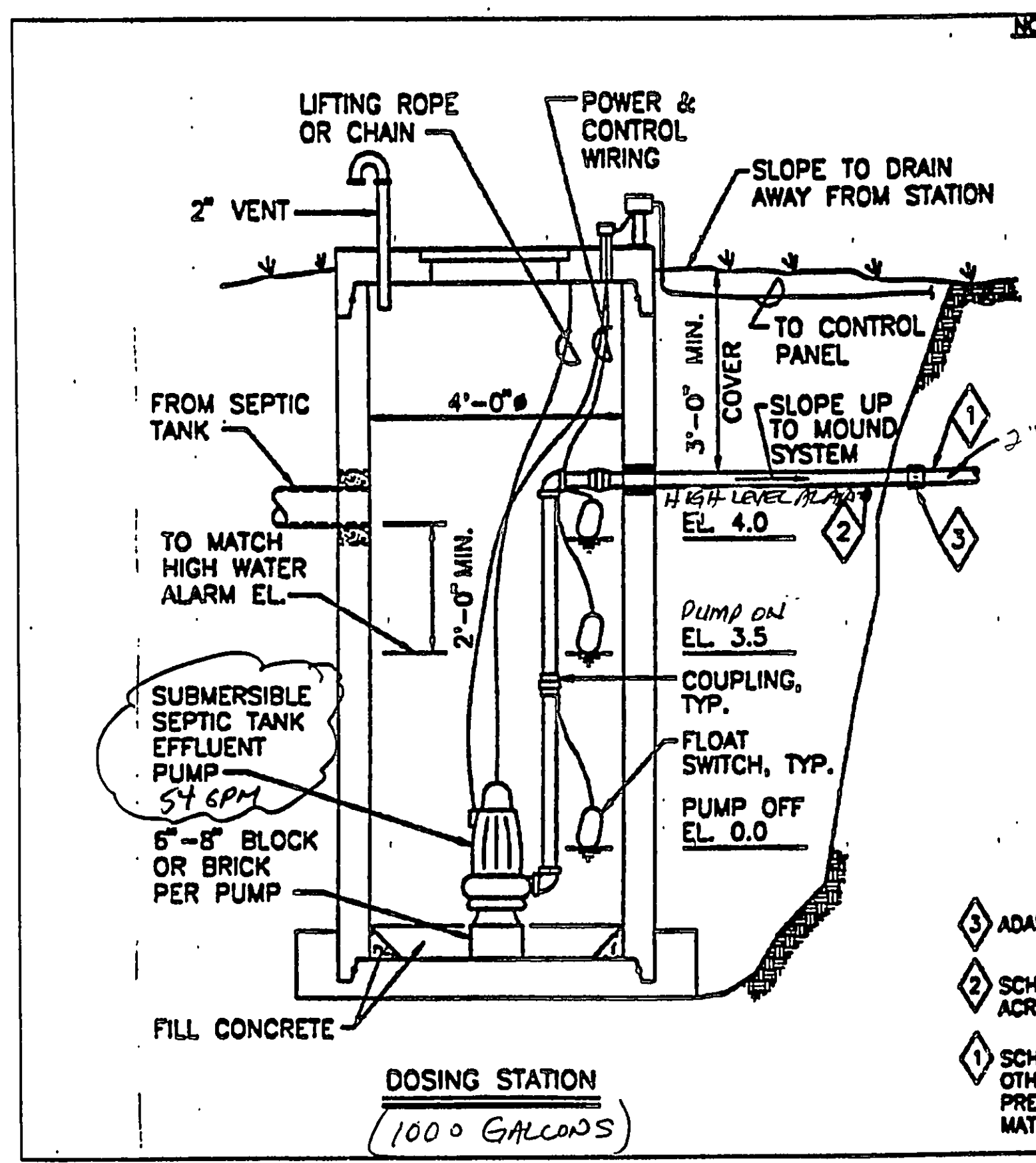




- NOTES:
1. DESIGN STATION AND BASE TO PREVENT FLOTATION IN AREAS OF HIGH GROUND WATER.
 2. ALL JOINTS AND PENETRATIONS SHALL BE WATERTIGHT TO PREVENT INFILTRATION OF GROUND/SURFACE WATER.
 3. STATION PUMP SHALL BE DESIGNED TO DOSE MOUND BASED ON THE TABLE BELOW:
- | TIME BETWEEN MAX. DILUTIONS PER DOSE | 3 BEDROOM | 4 BEDROOM | 5+ BEDROOM |
|--------------------------------------|-----------|-----------|------------|
| 4 HOUR | ~60 | ~40 | ~50 |
| 3 HOUR | ~40 | ~30 | ~40 |
| 2 HOUR | ~30 | ~20 | ~30 |
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.

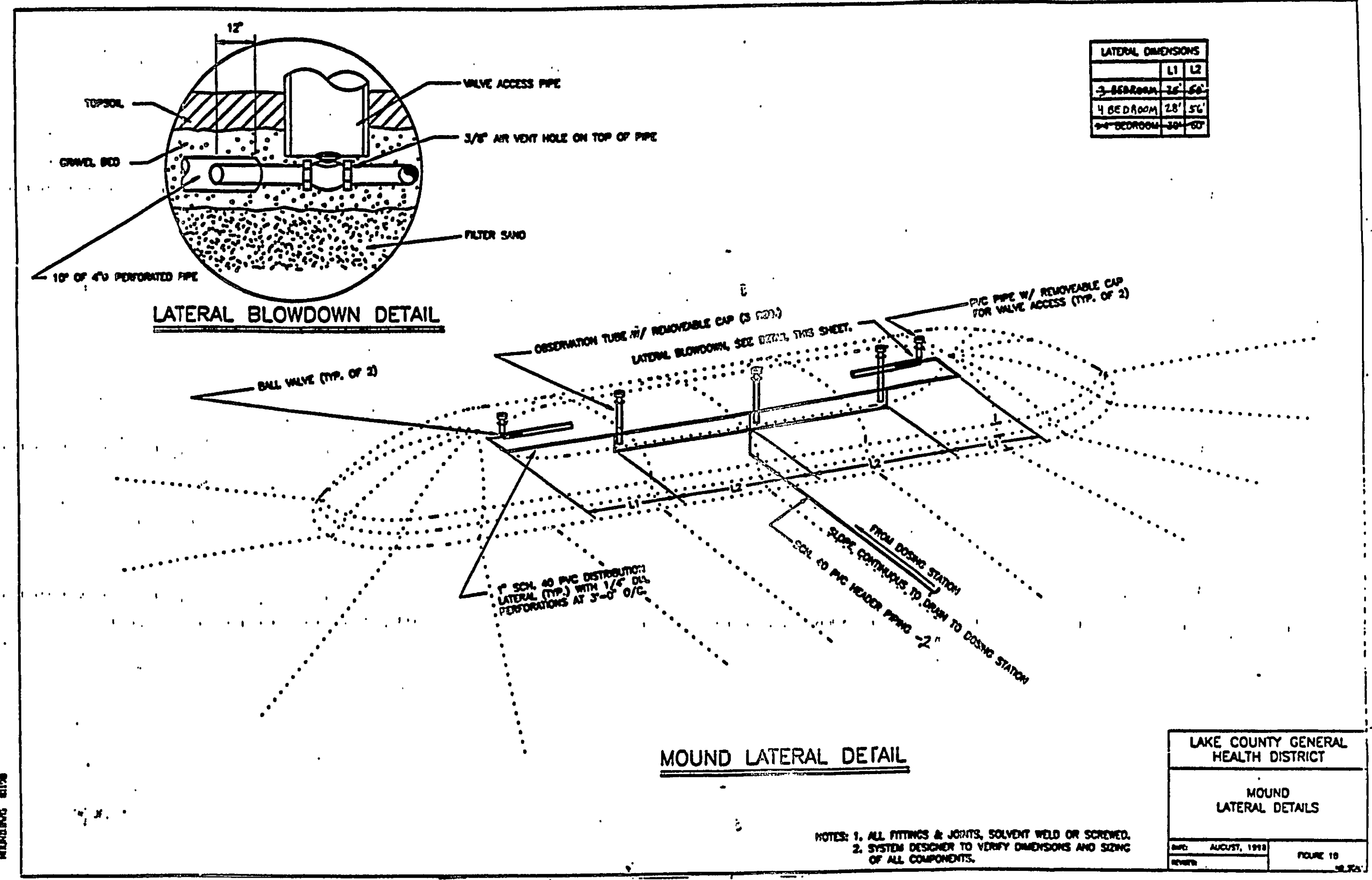
- 3 ADAPTER COUPLING.
- 2 SCHED. 40 GALV. STL. ACROSS EXCAVATION.
- 1 SCHED. 40 PVC OR OTHER APPROVED PRESSURE PIPE MATERIAL.

LAKE COUNTY GENERAL HEALTH DISTRICT

LAKE COUNTY MOUND SYSTEM DOSING STATION

DATE: AUGUST, 1998

FIGURE 11



LATERAL DIMENSIONS

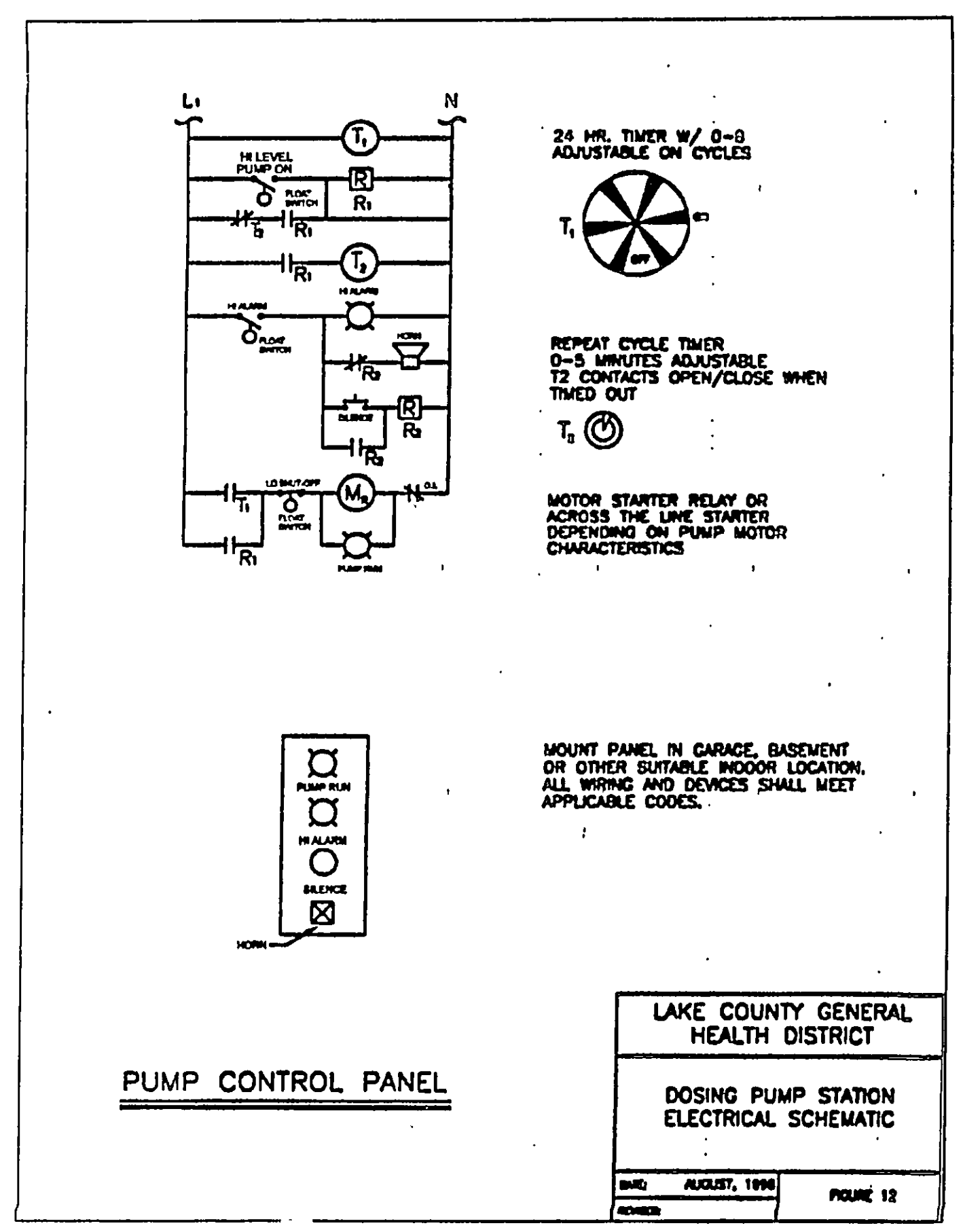
	L1	L2
3 BEDROOM	24'	60'
4 BEDROOM	18'	50'
5+ BEDROOM	30'	60'

LAKE COUNTY GENERAL HEALTH DISTRICT

MOUND LATERAL DETAILS

DATE: AUGUST, 1998

FIGURE 12



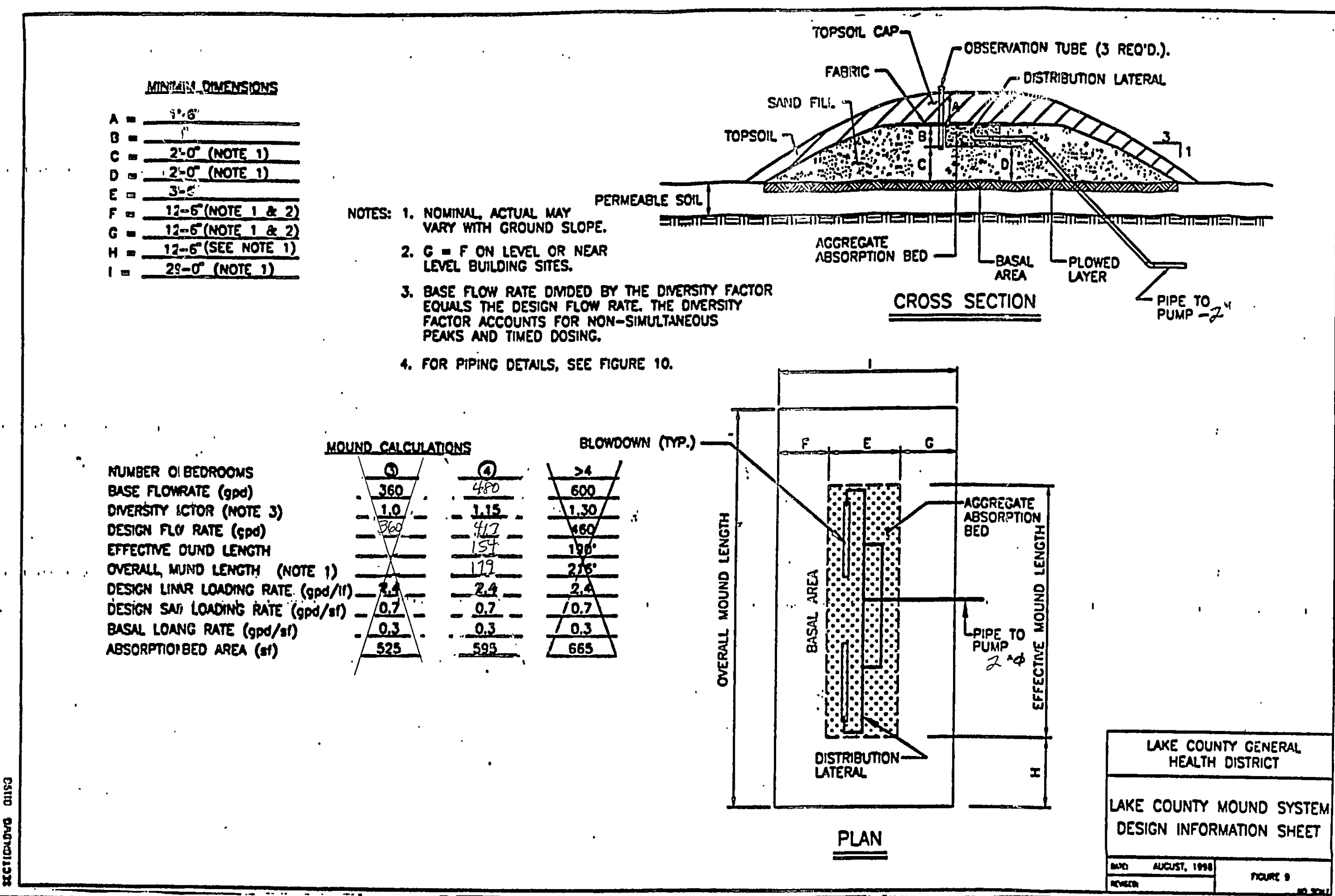
MOUNT PANEL IN GARAGE, BASEMENT OR OTHER SUITABLE INDOOR LOCATION. ALL WIRING AND DEVICES SHALL MEET APPLICABLE CODES.

LAKE COUNTY GENERAL HEALTH DISTRICT

DOSING PUMP STATION ELECTRICAL SCHEMATIC

DATE: AUGUST, 1998

FIGURE 12



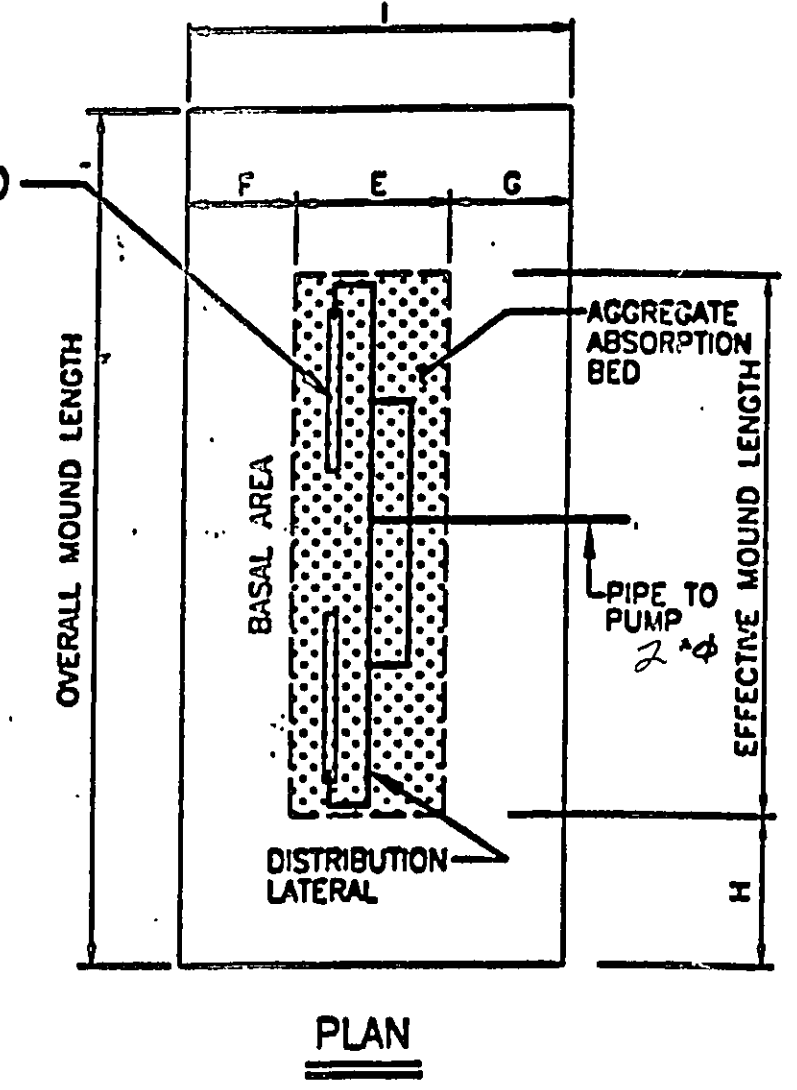
MINIMUM DIMENSIONS

A =	3'-6"
B =	2'-0"
C =	2'-0" (NOTE 1)
D =	2'-0" (NOTE 1)
E =	3'-5"
F =	12'-6" (NOTE 1 & 2)
G =	12'-6" (NOTE 1 & 2)
H =	12'-6" (SEE NOTE 1)
I =	25'-0" (NOTE 1)

- NOTES:
1. NOMINAL ACTUAL MAY VARY WITH GROUND SLOPE.
 2. C = 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.

MOUND CALCULATIONS

	3	4	5+
NUMBER OF BEDROOMS	3	4	5
BASE FLOWRATE (gpd)	360	480	600
DIVERSITY FACTOR (NOTE 3)	1.0	1.15	1.30
DESIGN FLOW RATE (gpd)	360	417	460
EFFECTIVE MOUND LENGTH	150'	150'	180'
OVERALL MOUND LENGTH (NOTE 1)	175'	175'	210'
DESIGN LINEAR LOADING RATE (gpd/ft)	2.4	2.4	2.4
DESIGN SAG LOADING RATE (gpd/ft)	0.7	0.7	0.7
BASAL LOADING RATE (gpd/ft)	0.3	0.3	0.3
ABSORPTION BED AREA (sf)	525	595	665



LAKE COUNTY GENERAL HEALTH DISTRICT

LAKE COUNTY MOUND SYSTEM DESIGN INFORMATION SHEET

DATE: AUGUST, 1998

FIGURE 13

REV. NO.	DESCRIPTION	DATE	BY	CHK'D
1	Revisions per City Engineer	9/23/04	HT	HT

bj BBLOCK, JONES AND ASSOCIATES, INC
CIVIL ENGINEERS - SURVEYORS - LAND PLANNERS
PAINESVILLE OHIO 44077

DATE: 9/9/04
DESIGN BY: H.J.
DRAWN BY: T.R.
APPROVED BY: H.J.

SITE PLAN FOR VAL HOMES
SLC BARRISTERS COURT

SCALE: None
SHEET 2 OF 2
LAKE COUNTY 2 OF 2