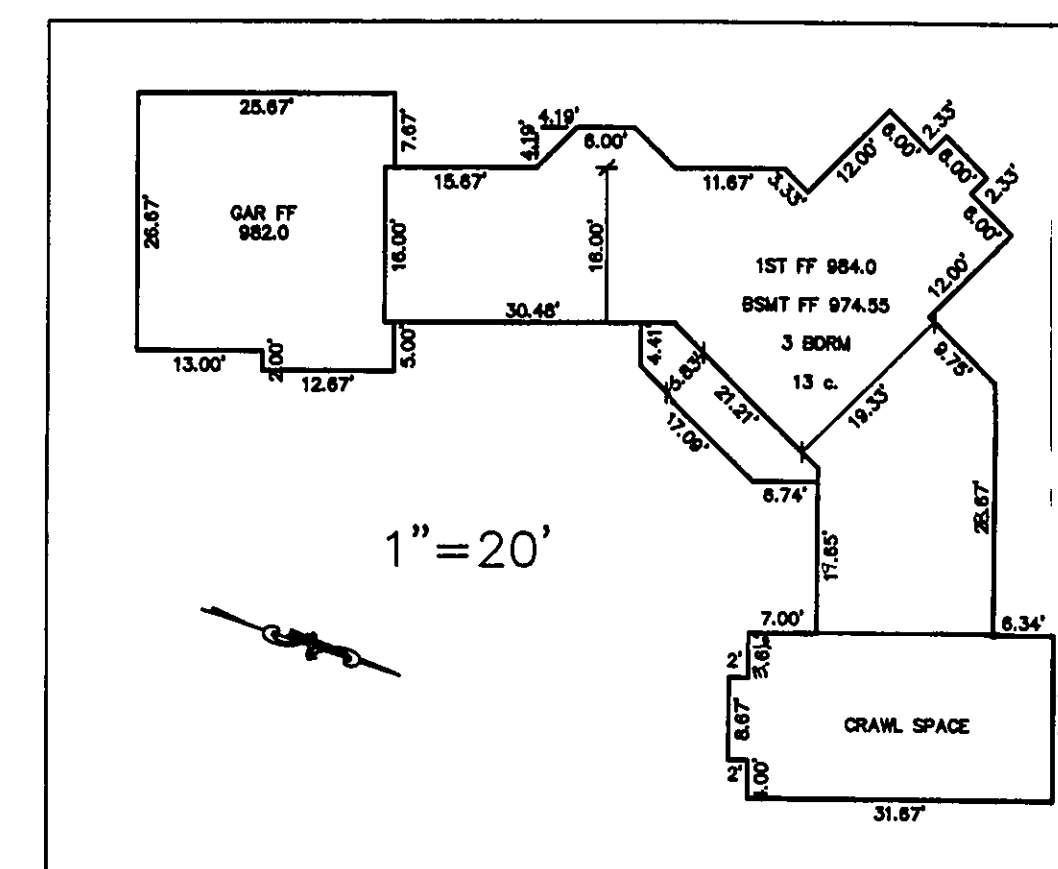
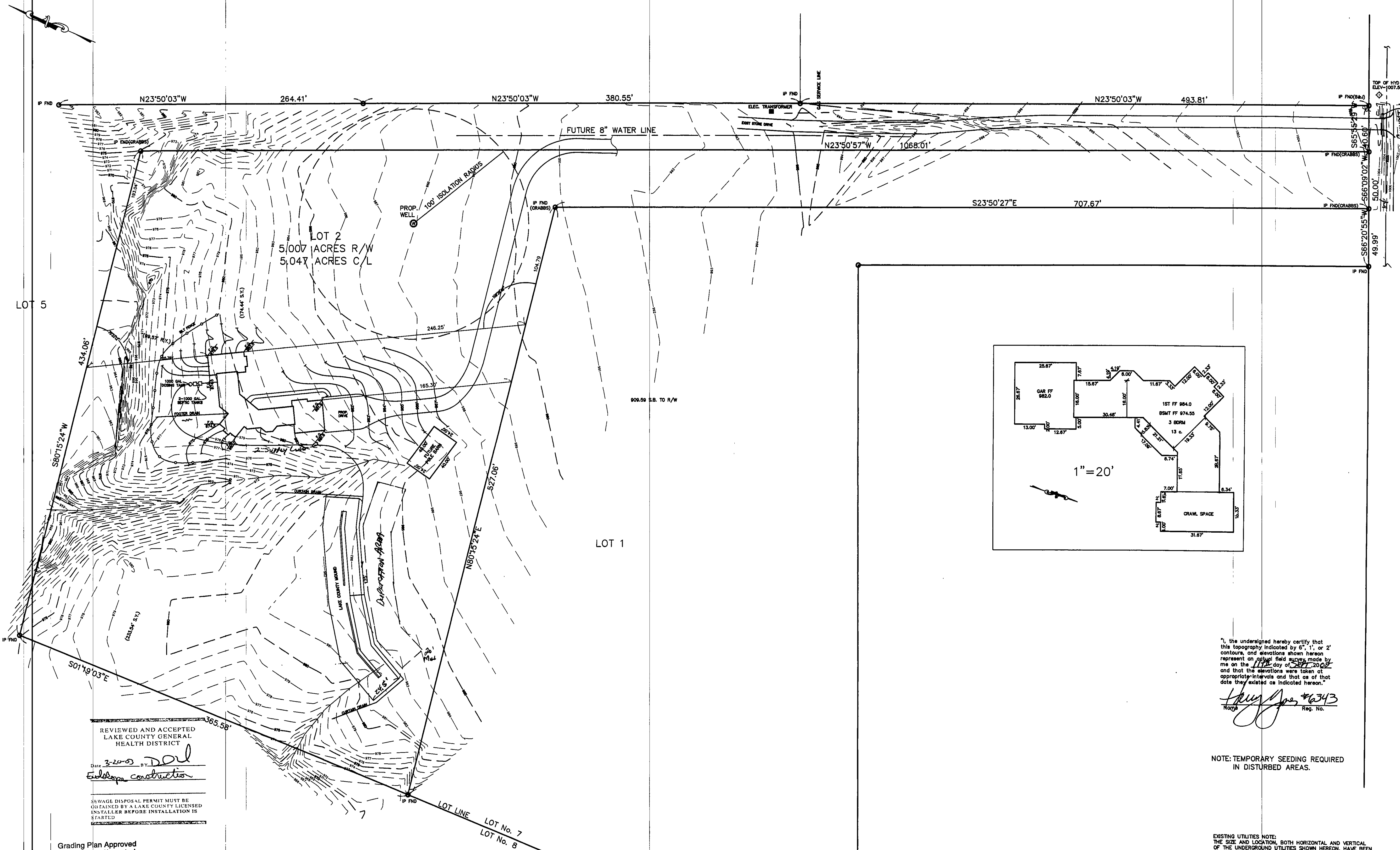




"I, the undersigned hereby certify that this topography indicated by 6", 1", or 2" contours, and elevations shown hereon represent an original field survey made by me on the 17th day of May, 2002, and that the elevations were taken at appropriate intervals and that as of that date they existed as indicated hereon."

Harry Jones #6343
 Reg. No.

NOTE: TEMPORARY SEEDING REQUIRED IN DISTURBED AREAS.

EXISTING UTILITIES NOTE:
 THE SIZE AND LOCATION OF THE UNDERGROUND UTILITIES SHOWN HEREON, HAVE BEEN OBTAINED BY A SEARCH OF AVAILABLE RECORDS. VERIFICATION BY FIELD OBSERVATION HAS BEEN CONDUCTED WHERE PRACTICAL. HOWEVER, BABCOCK, JONES AND ASSOCIATES, INC. DOES NOT GUARANTEE THE COMPLETENESS NOR ACCURACY THEREOF.



REVIEWED AND ACCEPTED
 LAKE COUNTY GENERAL
 HEALTH DISTRICT

Date 3-20-03 BY *DOL*
Endorsement Construction

SEWAGE DISPOSAL PERMIT MUST BE OBTAINED BY A LAKE COUNTY LICENSED INSTALLER BEFORE INSTALLATION IS STARTED

Grading Plan Approved
 as shown and/or noted
 JAMES R. GILLS, P.E.
 Lake County Engineer

Date 4/1/2003

PROPOSED ADDRESS 12151 GIRDLED RD.
 PIN BA-3-32

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

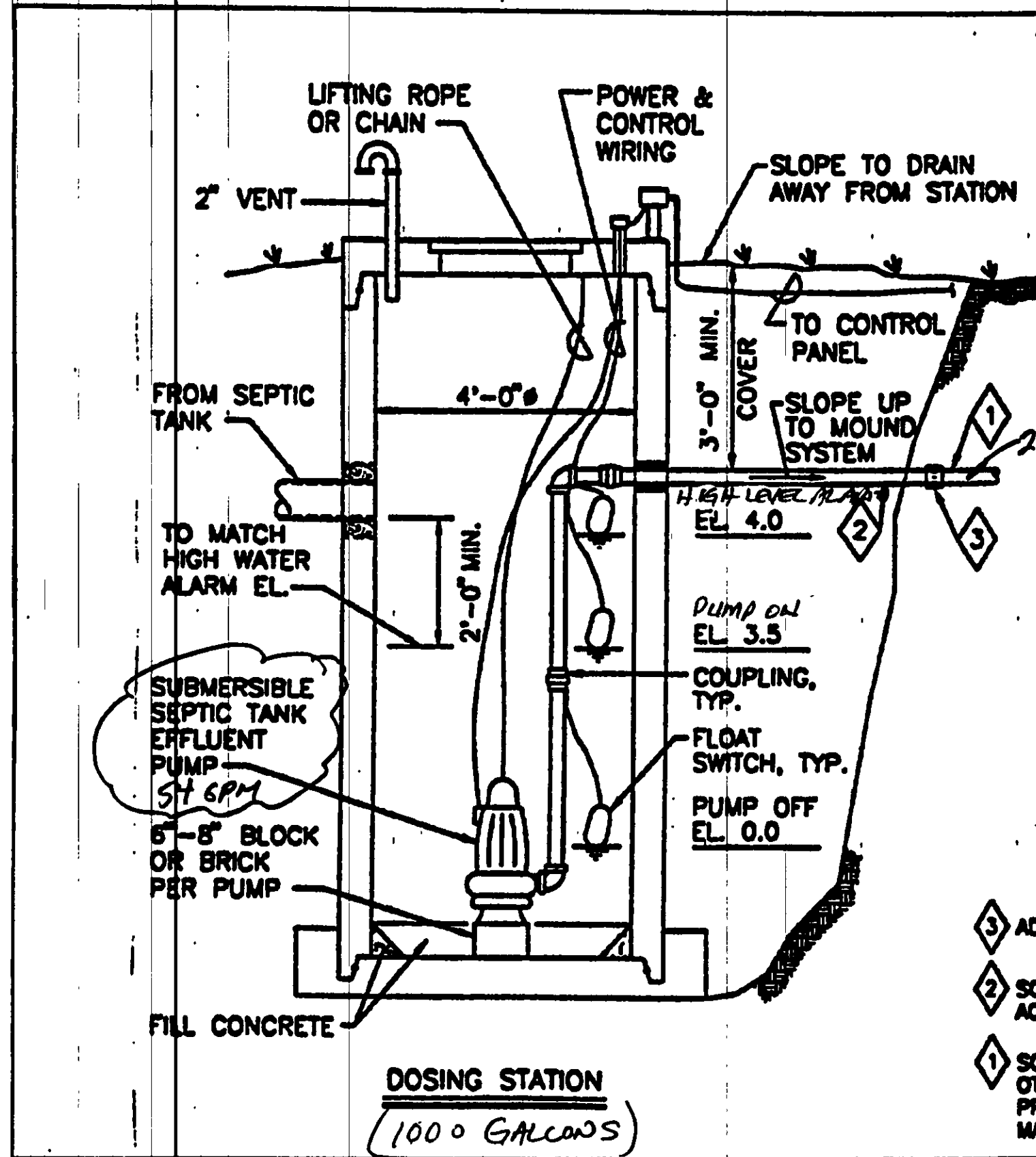
DATE 9/17/02
 DESIGN BY HJ
 DRAWN BY NS
 APPROVED BY HJ

SITE PLAN
 FOR
 D.L.A. SERVICES

CONCORD TOWNSHIP LAKE COUNTY STATE OF OHIO

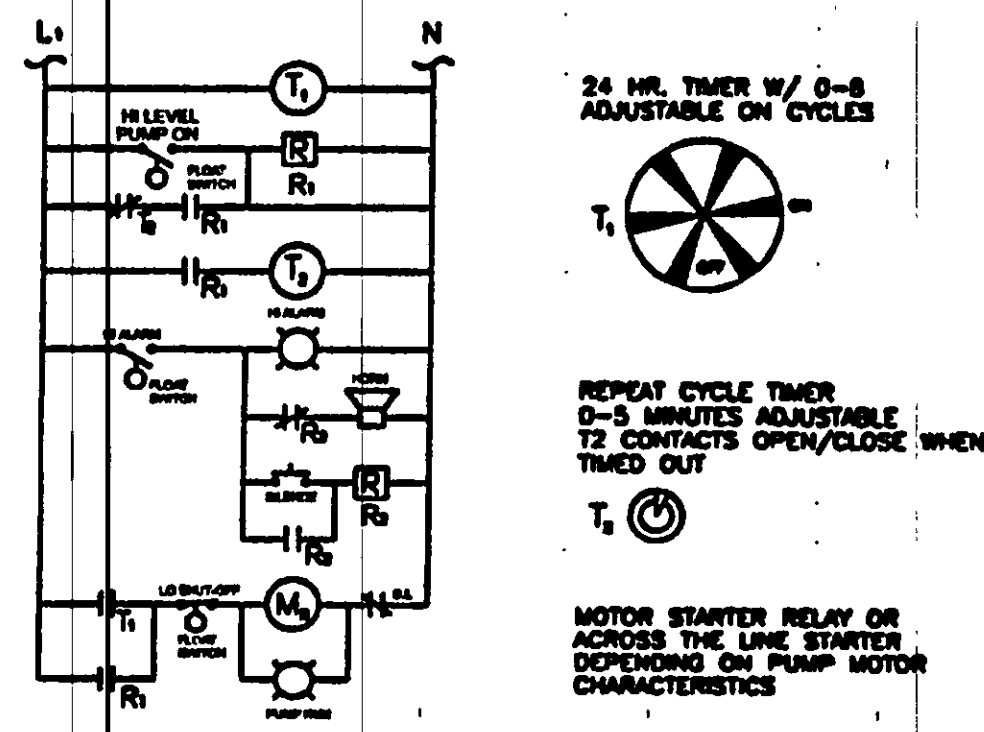
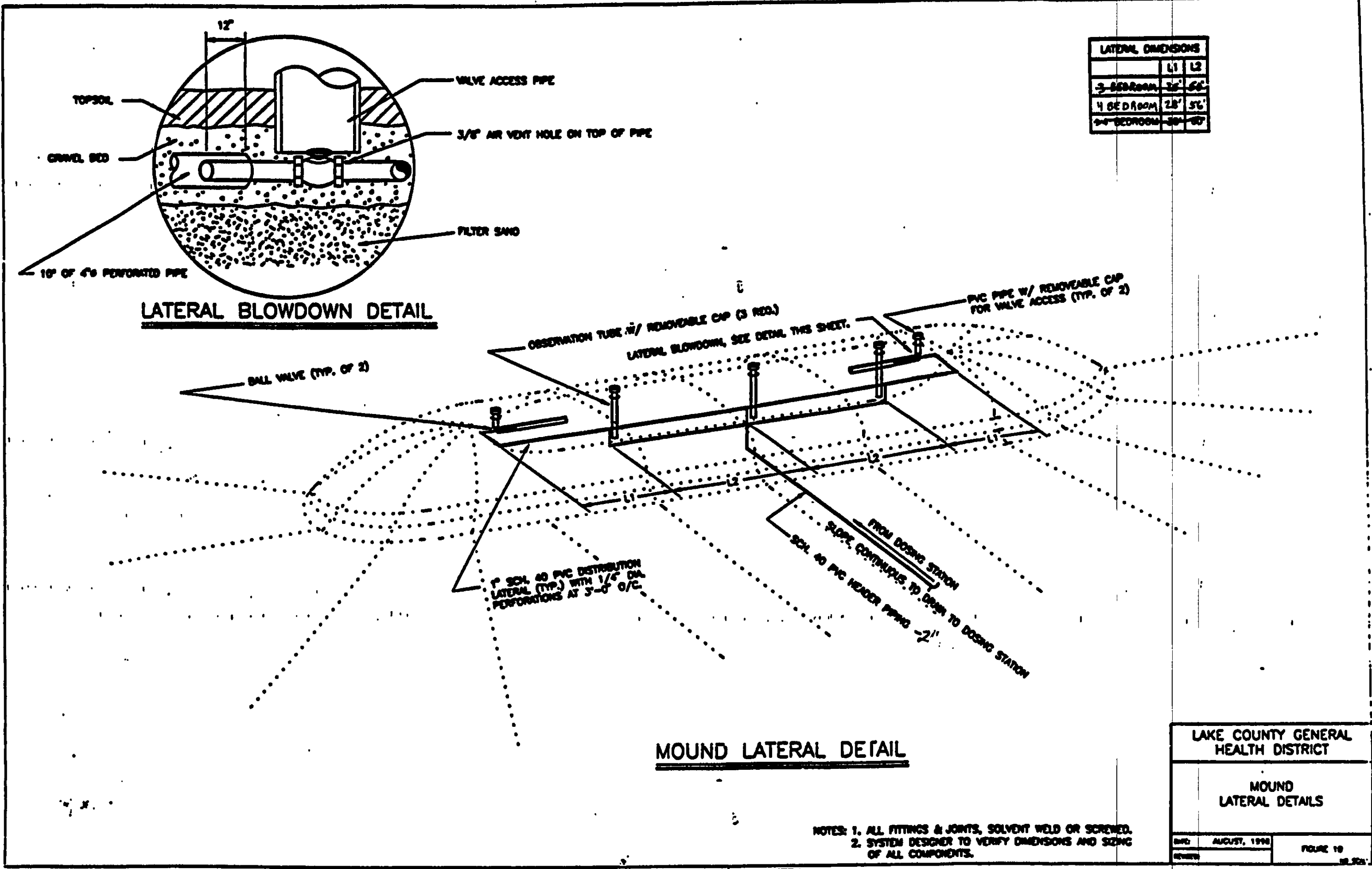
SCALE 1"=40'
 JOB NO 02-211
 SHEET 1 OF 2

REV. NO.	DESCRIPTION	DATE	BY	CHK'D
1	REVISED HOUSE & MOUND LOCATION	11/20/02	B.P.	H.J.
2	REVISED HOUSE	2/25/03	B.P.	H.J.
3	ADDED SILT FENCE	2/27/03	H.J.	H.J.
4	RELOCATED HOUSE, SEPTIC, WELL & FINISH GRADES	2/25/03	B.P.	H.J.
5	1601500 SEPTIC	3/19/03	HJ	HJ



- 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 DOSES | MAX. GALLONS PER DOSE |
|--------------------|-----------------------|
| 3 BEDROOM 4 HOUR | ~50 |
| 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.
- LAKE COUNTY GENERAL HEALTH DISTRICT**
LAKE COUNTY MOUND SYSTEM DOSING STATION
- DATE: AUGUST, 1999
FIGURE 11

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



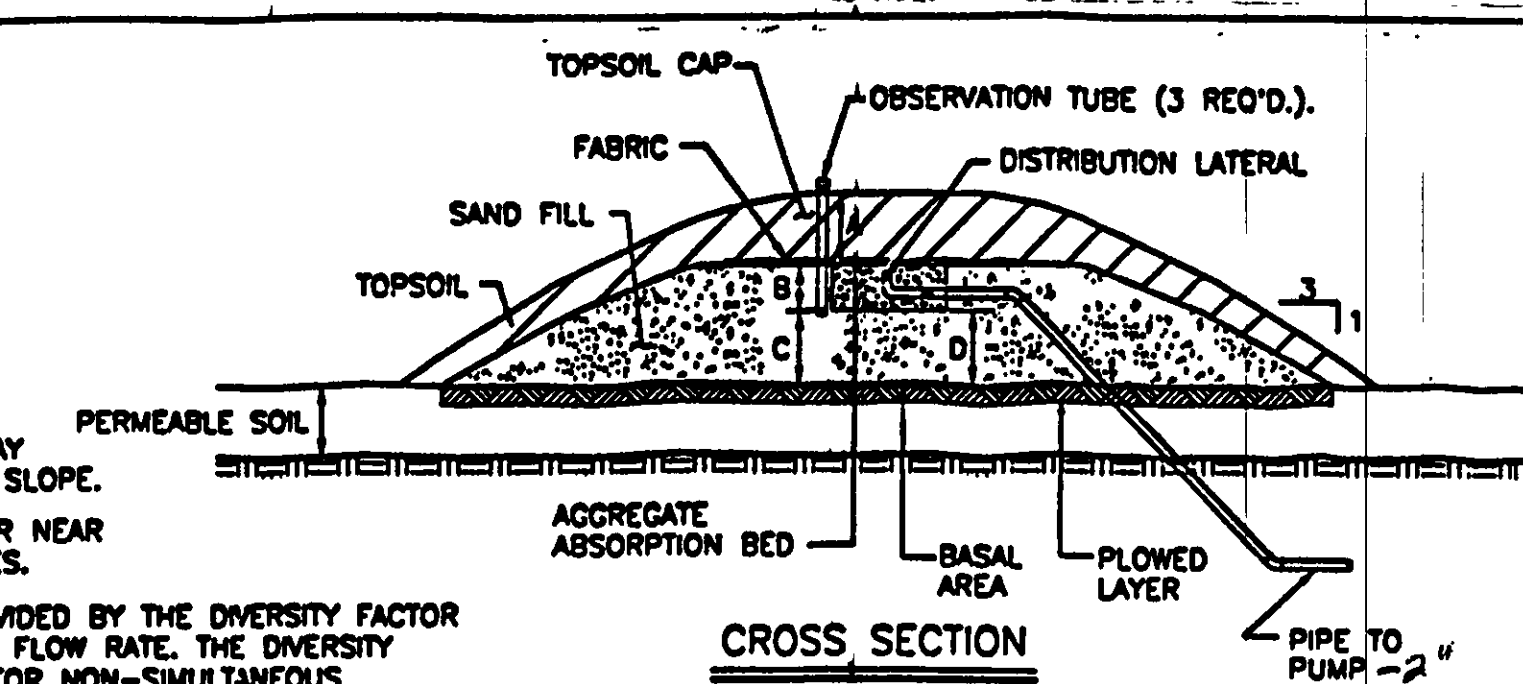
LAKE COUNTY GENERAL HEALTH DISTRICT
DOSING PUMP STATION ELECTRICAL SCHEMATIC

DATE: AUGUST, 1999
FIGURE 12

MINIMUM DIMENSIONS

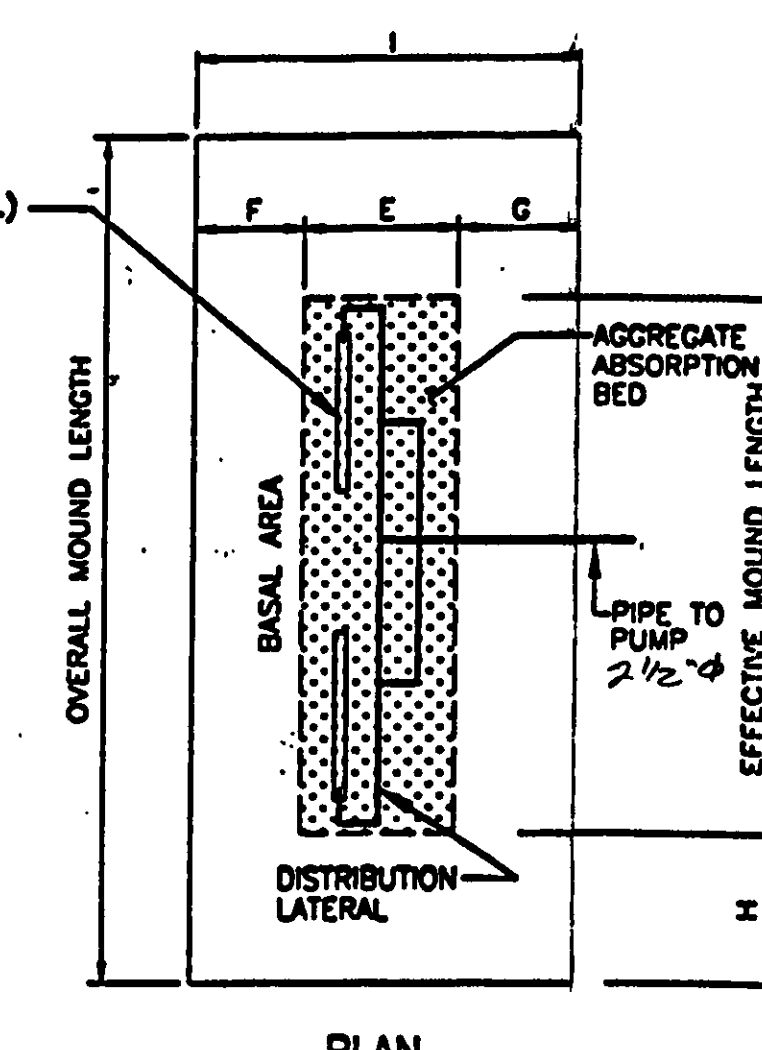
A = 1'-6"
B = 9"
C = 2'-0" (NOTE 1)
D = 2'-0" (NOTE 1)
E = 2'-6"
F = 1'-2" (NOTE 1 & 2)
G = 1'-9" (NOTE 1 & 2)
H = 17'-6" (SEE NOTE 1)
I = 24'-6" (NOTE 1)

- 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.



MOUND CALCULATIONS

	3	4	>4
NUMBER OF BEDROOMS	360	480	600
BASE FLOW RATE (gpd)	1.0	1.15	1.30
DIVERSITY FACTOR (NOTE 3)	360	480	600
DESIGN FLOW RATE (gpd)	150	170	190
EFFECTIVE MOUND LENGTH	178	198	216
OVERALL MOUND LENGTH (NOTE 1)	2.4	2.4	2.4
DESIGN LINEAR LOADING RATE (gpd/ft)	0.7	0.7	0.7
DESIGN SAND LOADING RATE (gpd/sf)	0.3	0.3	0.3
BASAL LOADING RATE (gpd/sf)	525	595	665
ABSORPTION BED AREA (sf)			



LAKE COUNTY GENERAL HEALTH DISTRICT
LAKE COUNTY MOUND SYSTEM DESIGN INFORMATION SHEET

DATE: AUGUST, 1999
FIGURE 9

REV. NO.	DESCRIPTION	DATE	BY	CHK'D
1	ADDED CURTAIN DRAIN DETAIL	11-20-02	HJT	HT
2	REVISED SETTING	3-19-03	HJT	HT

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

DATE: 10/31/02
DESIGN BY: H.J.
DRAWN BY: T.R.
APPROVED BY: H.J.

SITE PLAN FOR
D.L.A. SERVICES

SCALE: None
FIG. NO. 02-211
SHEET 2 OF 2
LAKE COUNTY 2 OF 2