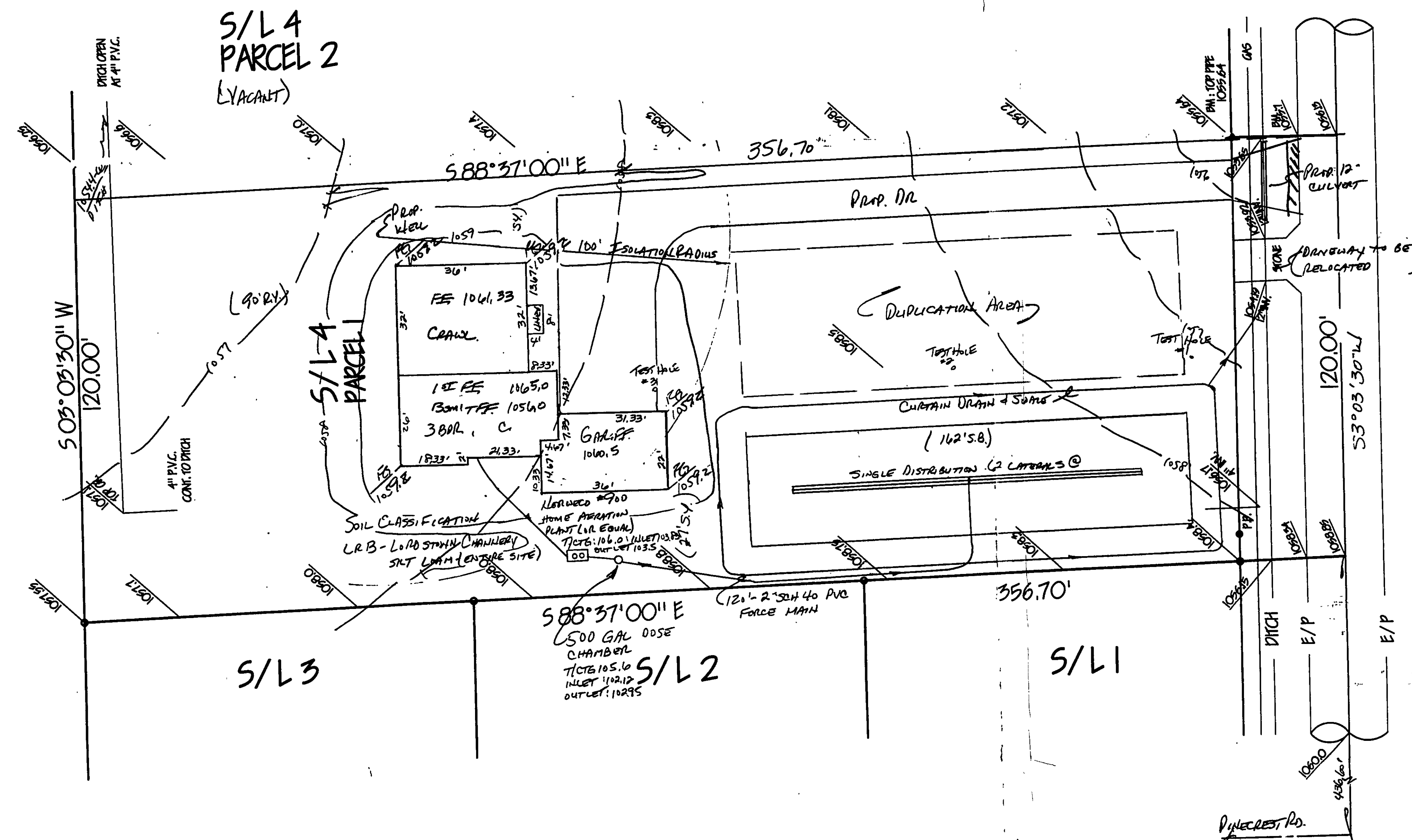




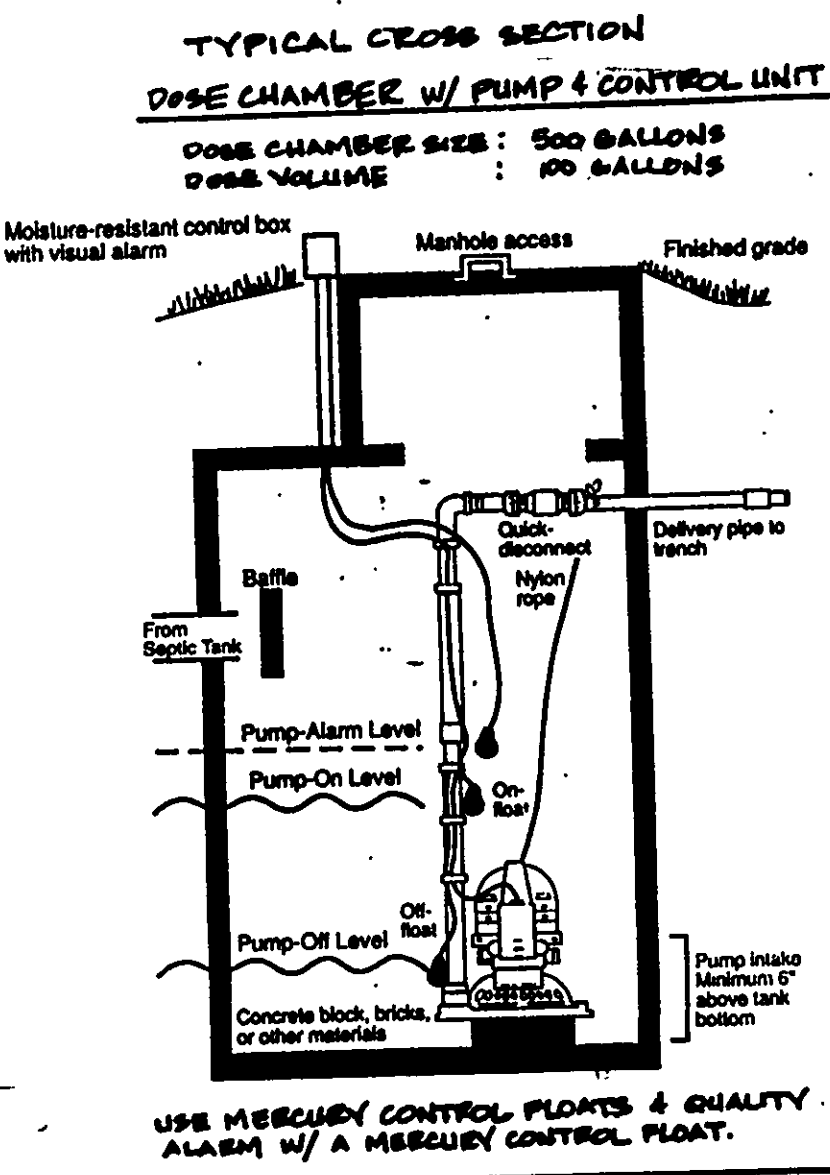
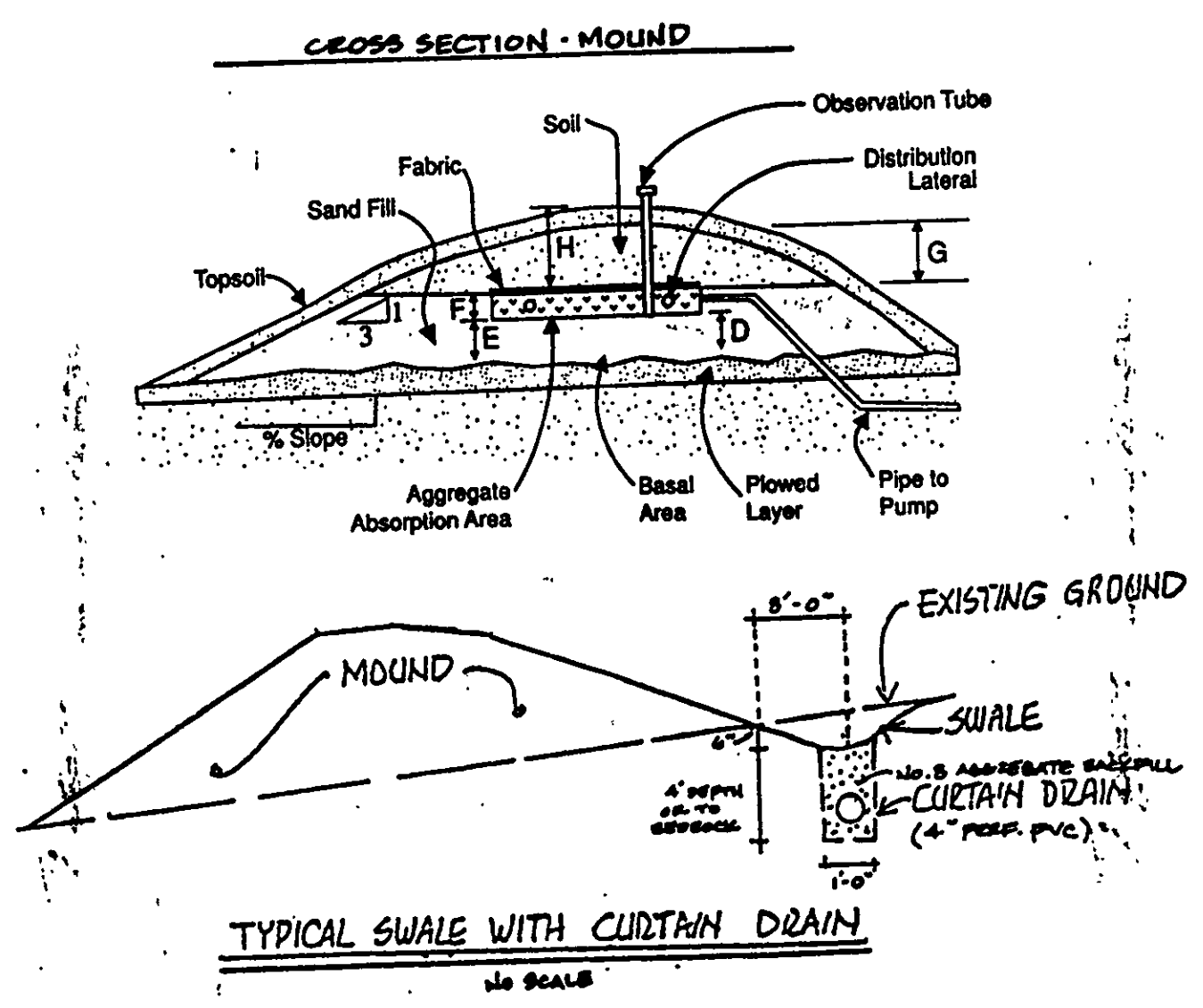
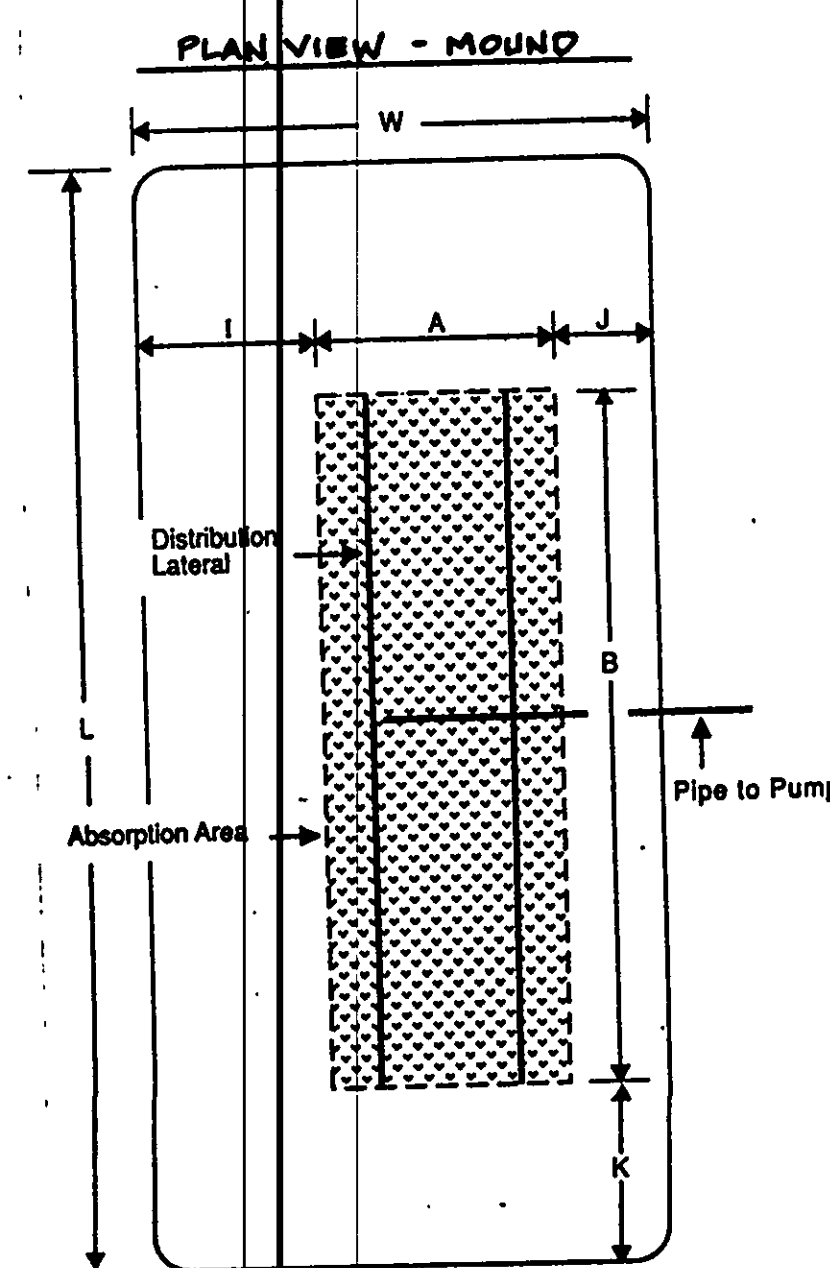
REVIEWED AND ACCEPTED
LAKE COUNTY GENERAL
HEALTH DISTRICT
DATE 7.15.98
BY *[Signature]*
SEWAGE DISPOSAL PERMIT MUST BE
OBTAINED BY A LAKE COUNTY LICENSED
INSTALLER BEFORE INSTALLATION
STARTED.

Grading Plan Approved
7.15.98
3' minimum asphalt drive
apron

- Inspections to be conducted by design engineer at the following phases of construction:
1. After preparation of basal area
 2. After placement of the mound fill material and mound distribution laterals
 3. After placement of remaining fill, topsoil & seeding

TEST HOLES WITH DEPTH TO BED ROCK (FEET)

#1	1.5
#2	3.0
#3	2.0

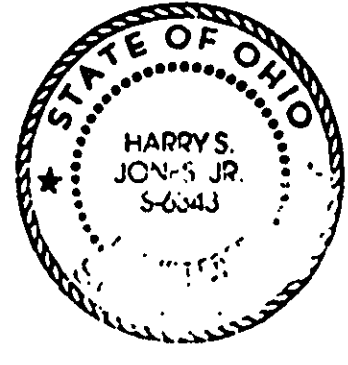
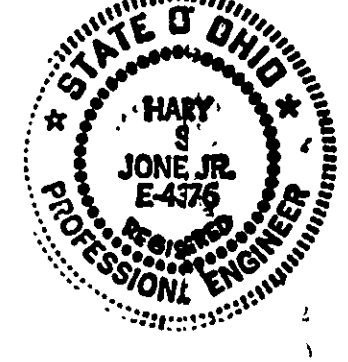


"I, the undersigned, hereby certify that this topography indicated by 6", 1' or 2' contours, and elevations shown hereon represent an actual field survey made by me on the 7th day of May, 1998, and that the elevations were taken at appropriate intervals and that as of that date they existed as indicated hereon."

[Signature]
Name *[Signature]* Reg. No. RE#49576

MOUND DIMENSIONS (FT.)

A	4.0	F	0.67	J	15.25
B	100.0	G	1.0	K	12.67
D	2.0	H	1.5	L	25.0
E	2.12	I	11.5	W	30.75



CONSTRUCTION NOTES

- LOCATION OF MOUND TO BE STAKED BY CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.
- MEASURE THE AVERAGE GROUND ELEVATION ALONG THE UPSLOPE EDGE OF THE UPPER TRENCH BOTTOM ELEVATION OF THE TRENCHES TO BE A MINIMUM OF 1' ABOVE THIS ELEVATION AS SHOWN ON THE DETAIL.
- DETERMINE WHERE THE PIPE FROM THE PUMPING CHAMBER CONNECTS TO THE DISTRIBUTION SYSTEM IN THE MOUND.
- TRENCH AND LAY THE EFFLUENT PIPE FROM THE PUMPING CHAMBER TO THE MOUND. CUT AND CAP THE PIPE ONE FT. BENEATH THE GROUND SURFACE. LAY PIPE BELOW PROST LINE, SLOPING UNIFORMLY BACK TO THE PUMPING CHAMBER SO THAT THE LINE DRAINS AFTER DOSING. BACKFILL AND COMPACT SOIL AROUND PIPE TO PREVENT BACK SEEPAGE OF EFFLUENT ALONG THE PIPE.
- CHECK THE MOISTURE CONTENT OF THE SOIL AT 7-8 IN. DEEP. IF IT IS TOO WET, SNEAKING AND COMPACTION WILL RESULT. SOIL MOISTURE CAN BE DETERMINED BY ROLLING A SOIL SAMPLE BETWEEN THE HANDS. IF IT ROLLS INTO A BALL, THE SITE IS TOO WET TO PREPARE. IF IT CRUMBLES, SOIL PREPARATION CAN PROCEED.
- CUT TREES TO GROUND LEVEL. REMOVE EXCESS VEGETATION BY MOWING. PREPARE THE SITE USING A MOLDBOARD OR CHisel. FLOW BY FLOWING PERPENDICULAR TO THE SLOPE. ROTOTILLING THE SITE IS NOT PERMITTED. CONSTRUCTION OF THE MOUND SHALL BEGIN AS SOON AS THE BASE AREA HAS BEEN FLOWED. THE CONTRACTOR SHALL AVOID RUTTING OF FLOWED AREA WITH VEHICULAR TRAFFIC.
- EXTEND THE EFFLUENT PIPE TO SEVERAL FEET ABOVE THE GROUND SURFACE.
- PLACE THE FILL MATERIAL WHICH HAS BEEN PROPERLY SELECTED AROUND THE EDGE OF THE FLOWED AREA. KEEP WHEELS OF TRUCK OFF FLOWED AREA. MINIMIZE TRAFFIC ON THE DOWNSLOPE SIDE OF THE MOUND. WORK FROM THE END AND UPSLOPE SIDE.
- MOVE THE FILL MATERIAL INTO PLACE USING A SMALL TRACK TYPE TRACTOR WITH A BLADE. ALWAYS KEEP A MINIMUM OF 6" OF SAND BENEATH TRACKS TO PREVENT COMPACTION OF THE NATURAL SOIL.
- PLACE THE FILL MATERIAL TO THE REQUIRED DEPTH WHICH IS THE TOP OF THE TRENCHES. SHAPE SIDES TO THE DESIRED SLOPE.
- WITH THE BLADE OF THE TRACTOR, FORM THE TRENCHES. HAND LEVEL THE BOTTOM OF THE TRENCHES. THE BOTTOMS SHALL BE AT THE SAME ELEVATION AND LEVEL.
- PLACE THE COARSE AGGREGATE IN THE TRENCHES. AGGREGATE SHALL BE 1/2-2 IN. NON-DETERIORATING AGGREGATE.
- PLACE THE DISTRIBUTION SYSTEM ON THE AGGREGATE. CONNECT THE MANHOLE TO THE PIPE FROM THE PUMPING CHAMBER. SLOPE MANHOLE TO EFFLUENT PIPE. LAY LATERALS LEVEL, REMOVING RISERS AND DIPS.
- PLACE 2 IN. OF AGGREGATE OVER THE DISTRIBUTION PIPES.

- PLACE 4-5 IN. OF UNCOMPACTED STRAW OR MARSH HAY, UNTREATED BUILDING PAPER OR A SYNTHETIC FABRIC, SUCH AS TYNAP, WRAP OR THE EQUIVALENT OVER AGGREGATE.
- PLACE SOL ON TOP OF THE TRENCHES TO A DEPTH OF 1 FT. IN THE CENTER AND 6 IN. AT THE OUTER EDGE OF THE TRENCHES. THIS MAY BE A SUBSOL OR TOPSOIL.
- PLACE 6 IN. OF GOOD QUALITY TOPSOIL OVER THE ENTIRE MOUND SURFACE. THIS WILL RAISE THE ELEVATION AT THE CENTER OF THE MOUND TO A MINIMUM OF 15 FT. AND THE OUTSIDE EDGES OF THE TRENCHES TO 1 FT.
- LANDSCAPE THE MOUND BY SEEDING AND MULCHING. A MIXTURE OF 90% BROODFOOT TREFOIL AND 10% TIMOTHY MAY BE USED IF THE MOUND WILL NOT BE MANICURED. IF MANICURING IS DESIRED, A COMBINATION OF 60% BLUEGRASS, 30% CREEPING DEO PEGOLE AND 10% ANNUAL RYE GRASS MAY BE USED. SEEDS CAN BE PLANTED AROUND THE BASE AND UP THE SLOPES. THEY SHOULD BE SOMEWHAT MOISTURE TOLERANT SINCE THE TOP OF THE MOUND MAY BE SOMEWHAT MOIST DURING VARIOUS TIMES OF THE YEAR.
- ALL LAWS AND RULES OF THE LAKE COUNTY GENERAL HEALTH DISTRICT AND THE OHIO DEPARTMENT OF HEALTH PERTAINING TO INDIVIDUAL SEWAGE DISPOSAL AND WATER SUPPLY SYSTEMS SHALL BE FOLLOWED.
- BUILDING CONSTRUCTION SHALL COMPLY TO ALL APPLICABLE REGULATIONS OF THE LAKE COUNTY BUILDING DEPARTMENT.
- RESIDENCE MUST UTILIZE WATER SAVING TOILETS, SHOWER-HEADS, AND FAUCETS.
- DRAINAGE IMPROVEMENTS OR CHANGES FROM EXISTING GRADE NOTED ON THE APPROVED. PLAN SHALL BE INSTALLED PRIOR TO SEWAGE DISPOSAL SYSTEM CONSTRUCTION.
- NO OPEN BURNING WILL OCCUR DURING CONSTRUCTION.
- DOWNSPOUTS AND FOOTER DRAINS SHALL BE CONNECTED TO THE MOUND SYSTEM. CURTAIN DRAIN AS SHOWN ON THE PLANS.
- SURFACE WATER SHALL BE DIVERTED AWAY FROM THE MOUND AREA BY THE USE OF SWALES.
- SEWAGE LIFT PUMP SHALL BE CAPABLE OF LIFTING RESIDENTIAL SEWAGE EFFLUENT AT A RATE OF 44 GPM AT 10' HPT. OF HEAD. THE PUMPING CHAMBER SHALL HAVE A MINIMUM CAPACITY OF 660 GALLONS. THE FLOAT LEVELS SHALL BE ADJUSTED TO PROVIDE FOR A 660 GALLON DOSING VOLUME TO THE MOUND.
- ELECTRICAL WORK & EQUIPMENT SHALL CONFORM WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE.
- MECHANICAL COMPONENTS SHALL BE INSTALLED IN A PROPERLY VENTED LOCATION AND ALL VENTS, AIR INTAKES AND AIR HOSES SHALL BE PROTECTED FROM SNOW, ICE OR WATER VAPOR ACCUMULATIONS. INSTALLATION SHALL BE MADE TO MINIMIZE RELEASE OF ODORS AND AREOSOLS.
- MECHANICAL COMPONENTS INSTALLED IN OR AT THE SEWAGE TANK SHALL BE PROTECTED AGAINST DAMAGE OR IMPAIRMENT OF EFFICIENCY BY FLOODING, FOAMING OR SURGE-LOADS. PUMPS MUST BE READILY REMOVABLE FROM THE MANHOLE IN CASE OF PUMP FAILURES.

REV NO.	DESCRIPTION	DATE	BY	CHK'D

babcock, jones and associates, inc
CIVIL ENGINEERS - SURVEYORS - LAND PLANNERS
PAINESVILLE OHIO 44077

SITE PLAN
FILE
DAVE CARREL, INC.
SUBMIT No. 4 - HERMITAGE CREST EST. S.I.B.
CONCORD TOWNSHIP LAKE COUNTY OHIO

DATE 9/19/97
DESIGN BY HT
DRAWN BY M.S. & T.R.
APPROVED BY HT

SCALE 1" = 20'
JOB NO 97-196-04
SHEET 1 OF 1