INITIAL SYSTEM

DESIGN SPECIFICATIONS FOR ON-SITE, GROUND ABSORPTION WASTEWATER DISPOSAL SYSTEM SERVING ECLIPSE PROPERTIES, OWNER, ECLIPSE PACKAGING, INC., LEASEE, ROB WHITENER, PRESIDENT LOCATED ON 10.7 ACRE TRACT, TAYLORSVILLE HIGHWAY (N.C. HWY 90) NEAR MAGLA PRODUCTS, INC. CONCORD TOWNSHIP, IREDELL COUNTY, N.C.

DAILY WASTEFLOW:	40 EMPLOYEES @ 25 gpd/ea 1,000 gpd total
SEPTIC TANK SIZE:	3,000 gallons
PUMPING TANK SIZE:	3,000 gallons
EFFLUENT LOADING RATE:	0.3000 gpd/sq. ft. for conventional trenches
TOTAL ABSORPTION AREA:	3,333 sq.ft.
TOTAL LINEAR FEET OF DISPOSAL TRENCHES:	1,111 feet at 3' wide 2' deep, 1' stone & tube
TOTAL LENGTH AND DIAMETER OF SUPPLY MANIFOLD:	80 feet of 3" diameter Sch 40 PVC.
NUMBER AND LENGTH OF TRENCHES:	8 @ 140.0' each = 1,120' 8 trenches total.
NUMBER OF LATERAL TAPS & SIZE OF TAPS AT MANIFOLD:	8 lateral taps of 1/2" diameter, Sch 80 PVC.
TOTAL FLOW THROUGH SYSTEM (SEE PRESSURE DISTRIBUTION MANIFOLD DATA SHEET)	Total from 8 taps @ 4.0' head (7.75 GPM) = 62.0 gpm Anti-siphon hole 2.0 gpm TOTAL 64.0 gpm
ELEVATION HEAD:	8.3 feet
PRESSURE HEAD:	4.0' @ manifold
FRICTION HEAD:	0.9' @ 64 GPM, Say 1.5'
TOTAL HEAD:	13.8 feet
STORAGE VOLUME IN 1,120 LF of 4" DIA. TUBING:	1,120' x 0.0872 CF/LF x 7.48 GAL/CF = 730.5 GAL
RECOMMEND DOSING 2/3 to 3/4 VOLUME OF TUBING PER DOSE:	487.0 to 547.9 gal/dose recommended
DOSING VOLUME:	500 gallons = 11" in 3,000 gal. tank = 2 doses / day

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