DESIGN SPECIFICATIONS
GROUND ABSORPTION SEWAGE DISPOSAL SYSTEM
Pennington Fronzen Food Warehouse
N/S N.C. 90
Loray, Iredell County, NC

May 31, 1996

Peak daily design flow:	750 GPD
Septic tank size:	(1) 2,000 gal. (2 compartment) precast concrete
Pumping tank size:	(1) 2,000 gal. (single compartment) precast concrete
Effluent loading rate:	0.3 GPD/SF
Total absorption areas:	2500 SF; 2500 SF Repair
Total linear feet of laterals:	833 LF, 8 lines @ 104 feet each
Total length and diameter of supply force main:	220 LF - SCH 40 2" diameter PVC
Pressure Manifold:	4" SCH 80 PVC
Orifice	8 - 1/2" diameter SCH 80 PVC
Manifold placement:	End and above field
Flow rate through the system:	43.84 GPM
Elevation head :	10.0 ft
Pressure head:	2.0 ft
Friction head:	9.9 ft
Total head:	21.9 ft
Pump requirements:	43.84 GPM @ 21.9 ft head; use Myers ME-33 1/3 HP 110 v single phase
Dosing volume:	364 gal
Depth of water pumped per dose:	8.74 inches (to be field verified)
Pump run per dose:	8.3 min.
Check valve:	yes
Syphon break hole:	no

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