

WAFFLE HOUSE AEROBIC SYSTEM DESIGN

COMMON DRAIN FIELD USAGE CALCULATIONS

AVERAGE WATER USAGE FOR SIMILAR STORES = 1500 GALLONS PER DAY
 COMMERCIAL PERCOLATION COEFFICIENT FOR 45 MIN/IN = .745 GPD/SF
 DRAIN FIELD USAGE = 1500 GPD / .745 GPD/SF = 2013 SF/3 = 671 LF

ORGANIC LOADING RATE CALCULATIONS

ESTIMATED FOOD SERVICE BOD LOADING RATE = 800 MG/L
 (1500 GPD X 800 MG/L X 8.34 LB/G) / 1,000,000 = 10 LBS PER DAY

THE AQUASAFE AS1500 AEROBIC TREATMENT UNIT IS DESIGNED TO PRODUCE CLASS 1 EFFLUENT FOR 3.75 LBS/DAY OF ORGANIC LOADING. TWO AS1500S SHOULD BE SUFFICIENT TO PRODUCE 200 mg/l CBOD EFFLUENT. THE PRETREATMENT TANK SHOULD BE PREPARED FOR FUTURE AERATION IN CASE THE INFLUENT HAS A BOD LOADING HIGHER THAN 800 MG/L.

AEROBIC TREATMENT SYSTEM

TWO 1500-GALLON DOUBLE COMPARTMENT GREASE TRAPS IN SERIES FROM KITCHEN PLUMBING TO PRETREATMENT TANK. ZABEL A300-12-20-VC FILTER INSTALLED ON SECOND TANK'S OUTLET TEE.

2000-GALLON SINGLE COMPARTMENT PRETREATMENT TANK FROM GREASE TRAPS AND REST ROOM PLUMBING TO DISTRIBUTION BOX WITH LEVELERS.

TWO AQUASAFE AS1500 1500 GPD AEROBIC TREATMENT UNITS TO SANITARY SEWER LINE.

ALL CALCULATIONS ARE BASED ON SOILS DATA, SURVEY DATA INCLUDING CONTOURS AND SITE PLANS PROVIDED BY OTHERS. NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE ACCURACY OF THE DATA. THIS DESIGN DOES NOT GUARANTEE THE APPROVAL OR FUNCTION OF A SEPTIC SYSTEM. FINAL APPROVAL IS AT THE DISCRETION OF THE LOCAL ENVIRONMENTAL HEALTH DEPARTMENT. I CERTIFY THIS SEWAGE SYSTEM DESIGN MEETS THE MINIMUM DESIGN REQUIREMENTS ESTABLISHED BY THE GEORGIA DEPARTMENT OF HUMAN RESOURCES MANUAL FOR ON-SITE SEWAGE MANAGEMENT SYSTEMS.

JOHN FORTUNE



DATE: 2/18/2008
 SHEET: 1 OF 1
 DRAWING NUMBER: HCWH
 DRAWING SCALE: 1"=40'
 PAPER SIZE: 11X17

HWY 155/138 WAFFLE HOUSE
 HENRY COUNTY
 for
 THE ELITE PLUMBER

GENERAL NOTES: GRADE TO PREVENT RUN-OFF WATER FROM ENTERING ATU AREA AND DRAIN FIELD. REMOVE ANY VEGETATION WITH ROOTS CAPABLE OF CLOGGING THE DRAIN FIELD. MAINTENANCE IS VITAL FOR THE PROPER FUNCTION AND LONGEVITY OF THE SYSTEM SHOWN. A MAINTENANCE AGREEMENT IS REQUIRED BY THE GA MANUAL FOR ON-SITE SEWAGE MANAGEMENT SYSTEMS. THE MAINTENANCE AGREEMENT IS TO BE PROVIDED BY THE ETI/AQUA SAFE AUTHORIZED INSTALLER/SERVICE PROVIDER.

AEROBIC DESIGN
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