

SPECTRUM
ON-SITE SEPTIC DESIGN
P.O. BOX 1295
LIVINGSTON, TEXAS 77351
936-327-4055

Owners Name: TRIMBLE ACQUISITIONS
Location: #3183 MANGUM RD LIVINGSTON TX
FORESTER RETREAT- LOT 579

DESIGN CRITERIA – EXISTING SYSTEM FOR USE

Water Source: PUBLIC WATER SYSTEM
Number of Bedrooms: (3) BR 1650 HOUSE SQFT LIVING AREA
Estimated Flow: 240 GPD / LFD SITE
Land Disposal App. Rate: 0.10 GAL / SQFT APPLICATION
Area Required: SITE AREA DISPOSAL AREA USE 2400 SQFT
Area Designed: SOLID 4 “ LINE TO TANK / 2 WAY CO PORT ON LINE/ SCH 40
PVC LINE 1/8” PER FT GRADE USE – APPROVED GRADE ON
LINE TO INLET / ALL ELECTRIC / WIRING- CONTROL PANEL ON
UNIT APPROVED –TO NEC CODE USE ON SYSTEM – PIPING
ON TANKS / DRIP BED AREA= 2400 SQFT/ 12” DEPTH / 2 FT LINE
SPACING- APPROVED ALL CONSTRUCTION METHODS SHALL
BE IN ACCORDANCE WITH THE STATE AND LOCAL OSSF
CODES. GRASS COVER OVER BED AREA-

Total: DRIP BED AREA= 2400 / 2 FT LINE SPACING= 1200 FT DRIP LINE
Soil Information: CLAY SOIL / SEASONAL HIGH WATER TABLE / OPEN GRASS
AREA FOR SPRAY / / BUFFER USED ON WATER LINE-10’
PROPERTY LINES 5’ TREES BUFFER 10’



Todd Gardner
TODD GARDNER RS 3197

SOIL (TEXTURE) ANALYSIS

BORE HOLE #1

Profile Depth	Texture (USDA)	Color	Horizon Restrictive	Indication Ground Water	Analysis% Gravel
12	SANDY CLY				
24	CLAY	DARK			0-%
36	CLAY	GRAY	YES	YES	0%
48	CLAY		MOTTLING		0%
60	CLAY				

NOTE: BORED SHALL BE EXCAVATED TO THE DEPTH OF TWO FEET BELOW THE PROPOSED EXCAVATION OR TO A RESTRICTIVE HORIZON, WHICHEVER IS LESS.

BORE HOLE #2

Profile Depth	Texture (USDA)	Color	Horizon Restrictive	Indication Ground Water	Analysis% Gravel
12	SANDYCLY				
24	CLAY	GRAY			0%
36	CLAY	DARK	YES	YES	0%
48	CLAY		MOTTLING		0%
60	CLAY				
				<i>Redmond</i>	

NOTE: STANDARD SUBSURFACE SYSTEMS IN CLASS II OR III SOILS CONTAINING GRAVEL SHALL BE FURTHER EVALUATED BY USING A SIEVE ANALYSIS TO DETERMINE THE PERCENTAGE OF GRAVEL BY VOLUME AND SIZE.

SITE EVALUATION FORM

HOME/BUSINESS OWNER: TRIMBLE ACQUISITIONS

SUBDIVISION: FORESTER RETREAT LOT: 579 BLOCK: SECTION:

SURVEY: ABSTRACT:

STREET ADDRESS: 3183 - MANGUM RD LIVINGSTON TX

ACREAGE/SQUARE FOOTAGE OF LOT: 100 X 120

TOPOGRAPHY

SLOPE:

FLAT (0%-5%) SLIGHT (6%-15%) MODERATE (16%-29%) SEVERE(over 30%)

VEGETATION:

GRASSY GRASS/BRUSH LIGHTLY WOODED HEAVILY WOODED

SITE DRAINAGE:

POOR ADEQUATE GOOD OTHER

FLOOD HAZARD – OUT OF FLOOD ZONE AREA

NOTE: IF ANY OF THE PROPERTY LIES WITHIN FLOOD HAZZARD IT MUST BE SHOWN ON THE SEPTIC DESIGN

WATER SUPPLY

COMMUNITY PUBLIC PRIVATE-PRPOSED

NOTE: IF ANY NEIGHBORING WELLS EXIST, THEY MUST BE SHOWN ON THE DESIGN

TYPE OF FACILITY

RESIDENTIAL COMMERCIAL

ESTIMATED WATER USAGE 240 G.P.D

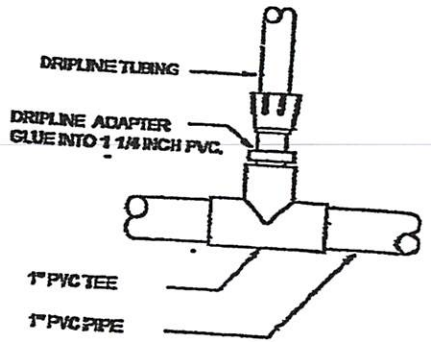


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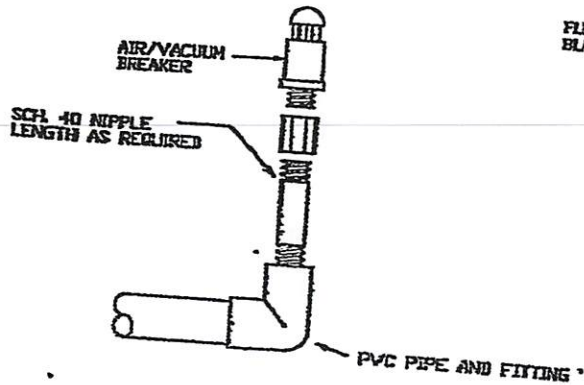
TODD E. GARDNER

DATE

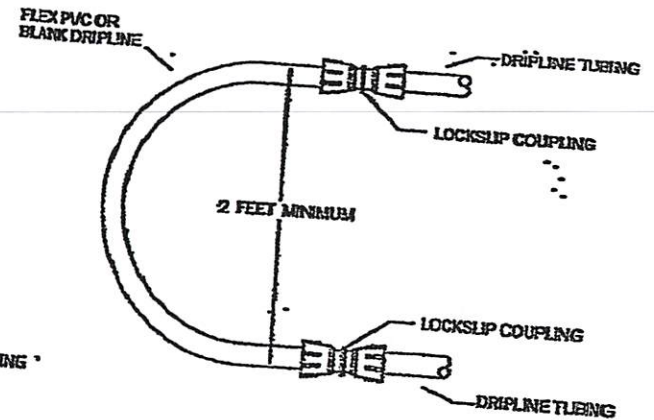
TYPICAL DRIP TUBING INSTALL DETAIL



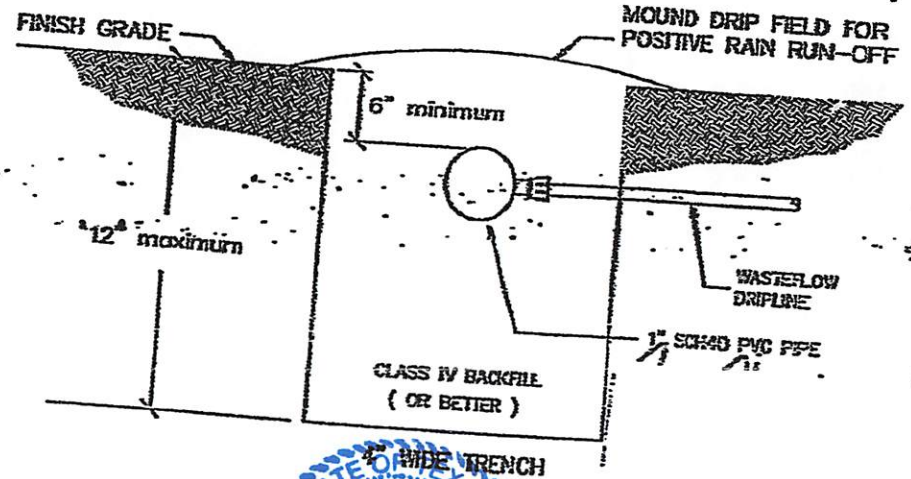
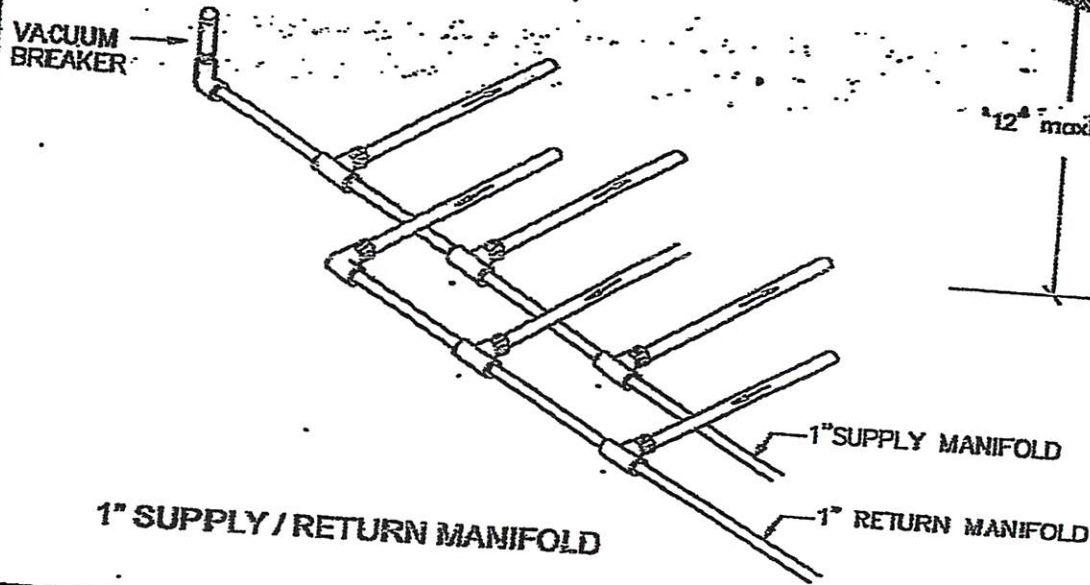
MANIFOLD CONNECTION



AIR / VACUUM BREAKER (PLUMBED TO PVC)



LOCKSLIP COUPLING LOOP



[Handwritten Signature]

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AEROBIC SYSTEM

- Trash Tank:** 500 GAL PRE TREATMENT TANK
- Manufacturer/Model No:** CLASS 1 - 500 GPD AEROBIC UNIT PLANT SYSTEM
- Pump Tank:** 750- GAL- DAILY FLOW / DOSING OVER 24 HRS / 7-10 MINUTES / EVERY 2 HRS/ TIMMER CONTROL / 1/3 RESERVE ON HL ALARM SETTING / .53 GAL/ PER HOUR EMMITER LINE
- Pump:** ½ HP DIRECT FLOW MULTI -STAGED OR EQUIV 20 GPM @ 30 PSI APPROVED FILTER BACK WASH / 1.6 GAL / MI ON APPROVED FILTER / APPROVED VACUUM BREAKER USE
- Chlorination:** NA USE
- Alarms:** AUDIO VISUAL HIGH WATER - CONTROL PANEL / TIMER
- Final Disposal:** DRIP / LINE USE APPROVED ROOT GURAD - 2 FT SACING .53 GAL/ HR USE

Registered Installer:

This system must be installed and maintained in accordance with all standards set by the Texas Commission Environmental Quality and the Local Regulatory Authority. The consultant does not represent or warrant the operation or proper performance of this system for any period of time. Every attempt has been made to accurately depict the location of lines, plants, tanks, sprinklers, etc. Construction realities may necessitate minor design changes. Any major changes will be submitted before construction. The report and drawings are based on an on-site inspection of the property.

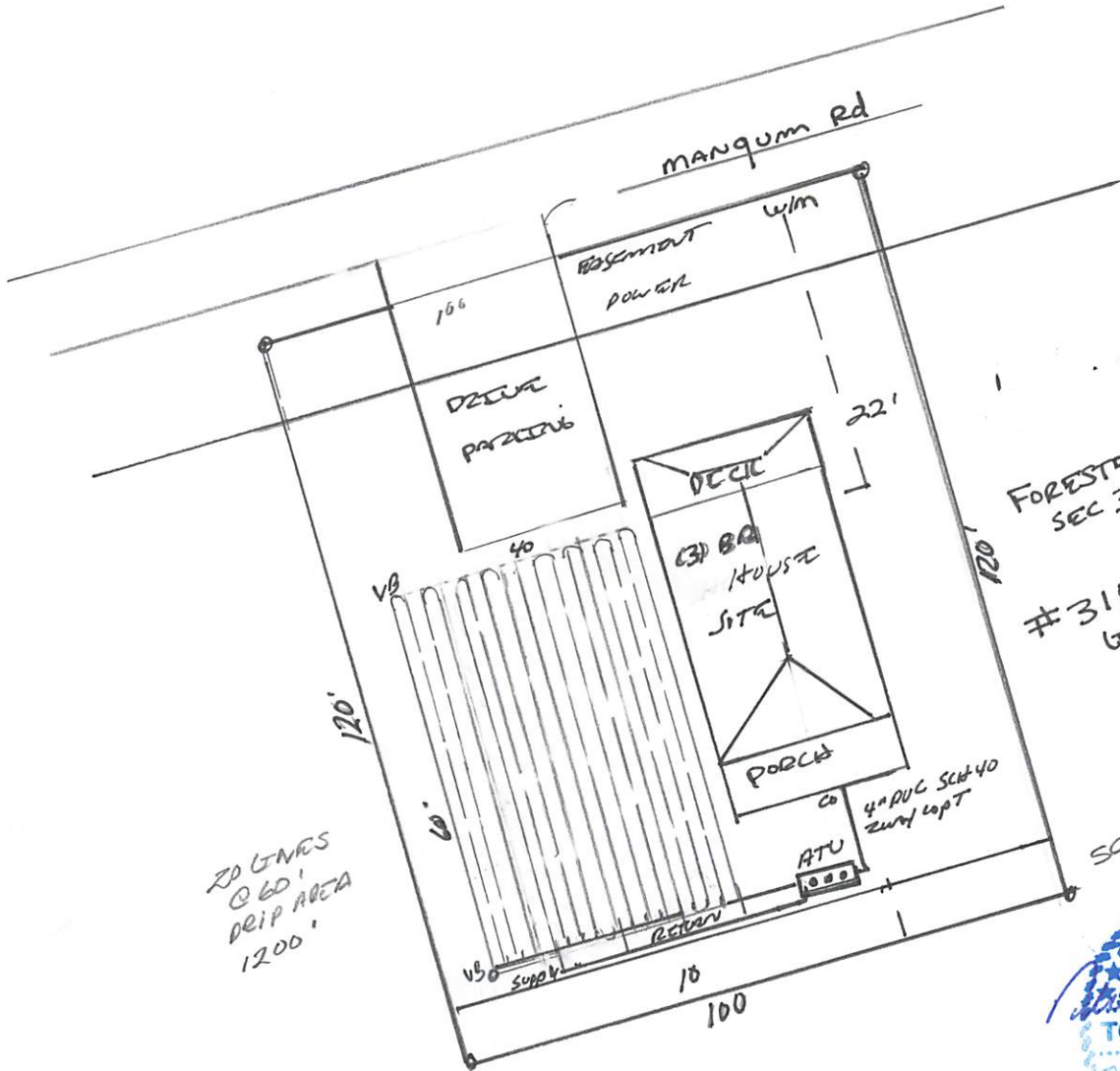
This is a site specific design and with such considerations as soil texture, topography, water tables, etc. having been evaluated, in my professional opinion, this system can be operated without causing a threat or harm to any existing or proposed water supply system or to the public health or causing the threat of pollution or nuisance conditions.

Todd E. Gardner

TODD E. GARDNER R.S. #TX3197
Designer



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FORESTER RETREAT
SEC 3 Lot 579
#3183-manguum Rd
LIVINGSTON TX

SCALE 1"=30'

