## ON-SITE SEWAGE FACILITY DESIGN

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PREPARED FOR: Michael & Karin Lord 12 Amy Lane Boling TX 77420 Tract 21-16 ABST 33 Colt R & L Survey 10.382 Acres

DESIGNED BY: Clayton Mayfield Professional Sanitarian 6567 W, F.M. 884 Goliad TX 77963

February 24, 2020

#### Client: Lord

#### A. Wastewater Load:

The OSSF will serve a 3 bedroom home less than 2,500 square feet of living area equipped with water saving devices. Wastewater load will be calculated at 240 gallons per day.

#### B. Topography & Flood Zone:

Slope = Less than 2%

Flood Zone X

#### C. <u>Treatment System:</u>

Nu Water ATU 600 or equivalent

400 Gallon Trash Tank

600 Gallon Aerobic Unit

750 Gallon Pump Tank

#### D. Chlorinator:

This system will be equipped with a liquid or tablet chlorinator.

#### E. Irrigation Area:

Q / Ri = Total Square Feet Of Irrigation Area 240 GPD / .045 = 5,333 Square Feet of Required Irrigation Area

#### F. Nozzle:

Spray Head #1

Type: K-Rain or equivalent

Number: 3

GPM: 3.1

Psi: 40

Radius: 30'

Spray Area:  $30 \times 30 \times 3.14 \times 2 = 5,652$ 

Spray Head # 2

Type: K-Rain or equivalent

Number: 3

GPM: 3.1

Psi: 40

Radius: 30'

Total Square Feet of Application Area = 5,652

#### G. Pump Requirements:

Use 1" schedule 40 purple pipe for sprinkler system.

Total gallons per minute equal 6.2

Use a ½ horsepower pump capable of pumping 6.2 gallons per minute.

#### H. Time of Discharge:

Pump to discharge between midnight and four a.m.

#### I. Vegetation:

As soon as construction will allow, the surface application area shall be covered with grasses, evergreen shrubs, bushes, or trees. Plants intended for human consumption shall not be grown within the disposal area. All vegetation grown inside the disposal area shall be properly maintained to prevent sprinkler head interference. The homeowner is responsible for providing and maintaining the vegetation in the disposal area.

#### Client: Lord

### J. Notes and Additional Specification Requirements:

If discrepancies exist between the design and actual size conditions the installer shall notify the designer and the local permitting authority prior to construction. Construction materials and methods shall be pursuant to county and state rules/policies, unless specifically noted on this design and approved by the local permitting authority.

#### **Additional Notes:**

1) Water Softener must not drain into aerobic treatment chamber.

2) No surface improvements such as buildings, sidewalks, driveways, patios, etc. shall be constructed on the disposal area.

 Grease, cigarette butts, personal hygiene products, and other trash shall be disposed of in the garbage.

4) It is the installer's responsibility to review the design criteria prior to construction.

5) The site shall be finish graded for positive drainage, and or adequate drainage structures shall be constructed if needed prior to system installation.

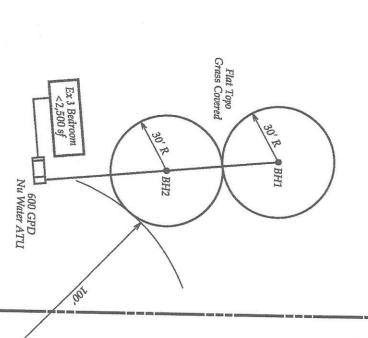
6) Any warranties of the products installed are those made by the manufacturer. The permit holder assumes full responsibility of the system following final inspection approval by the licensing authority.

Michael & Karin Lord 12 Amy Lane Boling, Texas 77420

Tract 21-16, Abstract 33
Colt R & L Tract 103
Wharton County
10.382 Acres

Floodzone X Scale: 1" = 50'

Amy Lane



Existing Water Well

LAYTON T. MAYFIELD

Existing Water Well

# Environmental Health Division On-Site Sewage Facility Soil and Site Evaluation

Date Performed:	24120	Nev	w Installation Replacement Alteration			
Property Owner's Info  Name Michael  Address 12 An  City Boling  Zip Code 77420	+ Karin Lord		Certified Site Evaluator/PE Information  Name Clay-ton May field  Company May field Designs  Address 6566 WFM 884  City Goilad State TX  Zip Code 77963 Phone 645-4510 Fax  TCEQ Registration Number 641			
<b>Property Description</b>						
County Whart	Subdivision  2 Am 1 Fave Unincorporated Zip Code 7 Acreage Abstract 33	- (V) 0 A I	Name Company Address City State Zip Code Phone Fax TCEQ Registration Number			
TOPOGRAPHY						
Slope	Vegetation	Site Drainage	Reference Soil Survey Book			
Flat (under 2%)	☑ Grass/Brush	Poor	☐ Seasonal water table			
☐ Slight (under 4%) ☐ Severe (over 5%)	☐ Lightly Wooded	☐ Adequate	☐ Water table (upper water shed) evident Depth:			
☐ Gullies/erosion	☐ Heavily Wooded	☐ Good	☐ Presence of adjacent ponds, streams, water impoundments			
Comments/Observation	S;					
. /	V	WATER SUP	PLY			
Private	Public Na	me of public wa	ater supplier			
For on-site water well:						
*If yes, attach do that well is pres	s than 100 feet from dra commentation, i.e. well log source commented or grouted	*Yes No				
Neighboring wells within 100 feet of property line? *Yes No *If neighboring wells exist they must be shown on the design.						
Water saving devices	Yes No					
☐ Water softener	☐ Reverse osmos	is system	Other:			

#### SOIL EVALUATION

#### Requirements:

At least two soil evaluations must be performed on the site, at opposite ends of the proposed disposal area. Locations of soil boring or dug pits must be shown on the drawing.

For subsurface disposal, soil evaluations must be performed to a depth of at least two feet below the

proposed trench depth. For surface disposal, the surface horizon must be evaluated.

Please describe each soil horizon and identify any restrictive features in the space provided below. Draw lines at the appropriate depth.

Proposed Trench Depth Surface (Will be 18" to 36" unless designed by P.E. or R.S.)

Soil Boring Depth	Number   Textural	Soil Texture			
(Feet)	Class	And Color	Gravel Analysis For Class II and III	Drainage (Mottles/Water Table) indicate color of mottling	Restrictive Horizon
0	TV J	Clay	N/A	Non	Now
5					
6					

Soil Boring l		-			
Depth (Feet)	Textural Class	Soil Texture And Color	Gravel Analysis For Class II and III	Drainage (Mottles/Water Table) indicate color of mottling	Restrictive Horizon
0   1   2   3   4		Clay	N/A	Non	NO-
5					

I certify that the findings of this report are based on my field	d observations and are accurate to the best of my ability
Clark Mill 1020 Co	2/24/21
Signature of Certified Site Evaluator/PE & License #	Date