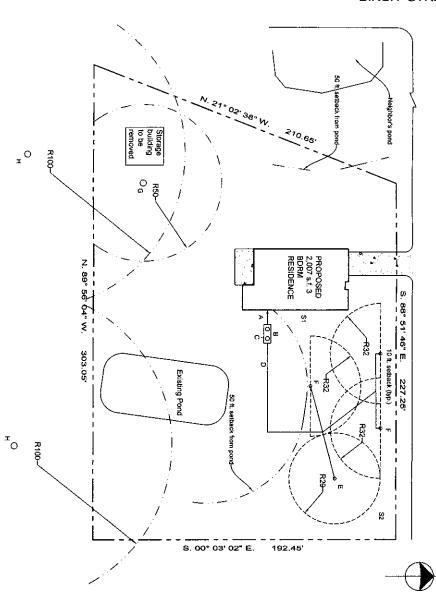
Site Evaluation: Building Application: Drainage Plan: Floodplain Information:	Health District OSSF Permit# ON 11653 City/County Building Permit# Receipt Number# 20112
CC 3300	GALVESTON COUNTY HEALTH DISTRICT ON-SITE SEWAGE FACILITY APPLICATION AND INSPECTION REPORT
NEW INSTALLATION	N
2. PERMANENT MAILING 3. TELEPHONE NO. DURI 4. SITE ADDRESS:	(STREET/P.O. BOX) (CITY/STATE) (ZIP) NG DAY: () 832-570-5576 23 BIRCH ST SANTA FC TX 17517 EET) (CITY/STATE) (ZIP) (ON: Lot
I. SEWER (House drain): TYPE AND S II. TREATMENT TANKS: TANK #1 MAT #2 #3 #4 III. SITE EVALUATION NOTE: Information wo Soil Class/Texture Performed By K. BEC IV. DISPOSAL AREA TYPE: SPRACURE EXCAVATION WIDTH TYPE/SIZE OF MEDIA TYPE OF BARRIER	SIZE OF PIPE: GCH 40 PVC 4 SLOPE OF SEWER PIPE TO TANK: /E / FOOT L CONC NO. OF COMPARTMENTS 3 TYPE SIZE 500 gals L TEAS! 400 2 ATU (21/224)

Gravel road from Birch Street

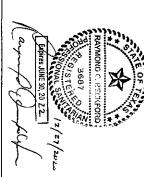


Basis for Design Proposed 2,007 s.f., 3 bedroom single family residence - 240 gpd Spray irrigation area required - 240 gpd / 0,041 g/sf/day = 5,854 s.f. Spray Irrigation designed - 6,010 s.f. (overlap deducted)

- Legend
 A Two way cleanout
 B Proposed 500 gallon Pro Flo 500 SLPT2 Aerobic Treatment Unit or equal
 C NSF approved chlorinator
 D 1" dianneter SCH 40 PVC irrigation line, 1/2" dianneter laterals
 E 29 ft. radius K Rain Proplus or equal sprinkler head 1 typical
 F 32 ft. radius K Rain Proplus or equal sprinkler head 3 typical
 F 32 ft. radius K Rain Proplus or equal sprinkler head 3 typical
 G Proposed pressure cemented water well
- H Neighboring water wells \$1, \$2 Soil bore locations

Landscape Plan / Irrigation Schedule
The spray irrigation area must be continuously covered with native grasses
and vegetation. Over seed with Winter Rye or other cold tolerant grass during
winter months. Install sprinkler heads 10 feet from trees. Set timer to spray
between the hours of midnight and 5.00 am.

as soon as possible. The property owner must operate this OSSF eccording to the owners manual and this specific design. Daily wastewater flows in excess of 240 gpd will invalidate this design. A maintenance contract shall remain in effect throughout the operation of this OSSF. The property owner must ensure that the OSSF is provided with electricity at all times and that the disinfection unit is supplied with the appropriate chlorine. Mattunctions must be reported to the maintenance provider



The property is not within the 100-year flood plain per Galveston County FIRM Panel 48167C0375G This property exhibits less than a 2% slope across its entire area

SCALE: 1" = 40"

RAFAEL MÖRENO
5023 Birch Street
Santer Fe TX 77517
Being out of Lot 5, Simpson Subdivision, Abstract 611 OSSF Design for

Prepared by: Raymond Beckford, RS Contact: 832-867-8871

Date: December, 2020

V. PLOT PLAN

- NOTE: This information must be attached for review to be completed.

 1. Submit two (2) copies of the Galveston County Health District OSSF Application & Inspection Report.

 The plot on the above mentioned form must include:

 a. Size and shape of lot or property.

 b. All structures on lot such as buildings, barns, pens, etc.

c. Circ and leasting of the street and the			
c. Size and location of treatment tank			
d. Size and location of wastewater di	sposal area,		
e. Distance of treatment tank(s) from	house, property line, water w	ell and wastewate	r disposal area,
 Distance of wastewater disposal ar 	rea from house, property line,	water well and tre	atment tank(s),
g. Distance and direction to closest no	eighboring water well from tr	eatment tank(s) an	d wastewater
disposal area,			
h. Distance and direction to closer op	en water such as ponds, lakes	, streams, etc.	
			1
agento abolete	3687	12/2	7/2020
DESIGNERS SIGNATURE	REGISTRATION NO.	T 17/47	
	ALGISTRATION NO.	DAI	a
This notice must be read and signed before	these construction plan	s will be appro	ved. AFTER
APPROVAL A BUILDING PERMIT MI	<u>UST BE SECURED FI</u>	ROM THE AP	PROPRIATE
<u>COUNTY OR CITY BUILDING INSPEC</u>	CTION DEPARTMENT.	The final in	spection is to
assure the system has been constructed account	cording to the submitted	l plan and is a	operation to to
good mublic health and according and the	The submittee	pian and is co	onsistent with
good public health engineering practices.	The acceptance of this p	lan and approv	al of the final
inspection, however, should not be construe	ed to mean that the Galv	eston County H	Iealth District
recommends, approves, certifies or guara	antees On-Site Sewage	Facility Syst	ems or their
satisfactory performance. In the Galve	eston County Facility	Creatown mars	and for their
satisfactory performance. In the Galve	ston County Facility	Systems may	not function
satisfactorily at all times. This plan meets	all State and local rules	and laws inclu	ding distance
requirements.			
	~		
	Rufcel more	10	
A	COTORT PROFE	70 1	operty Owner
		Pr	operty Owner
HEALTH DI	ISTRICT USE ONLY		
	1)//	/	
Authorization to Construct Approved/Disapproved by	Vamon Dalda	Kp# 000009	Date 4-16-202
inspection Requested by	XXXIIIIXXX QUEERCEX		
	/		Date
Date inspection requested for		Time	am/pm
Date inspection made		Time	am/pm
Construction Approved/Disapproved by	DR#	Da	ate
Disapproval notice given to			
REMARKS:			
			A CONTRACTOR OF THE PARTY OF TH

PROPOSED

ON-SITE SEWAGE FACILITY DESIGN

for

Rafael Moreno

located at 5023 Birch Street Santa Fe, TX 77517

> Prepared by: Raymond C Beckford, RS 832-867-8871

> > December, 2020

BASIS FOR DESIGN: 5023 Birch Street Santa Fe TX 77517

Proposed 2,007 square foot, three bedroom single family residence with ulf fixtures Total Daily Flow – 240 gpd

Spray irrigation area required: 240 gpd ÷ 0.041 gal./s.f./day = 5,854 square feet Spray irrigation area designed: 6,010 square feet (overlaps deducted)

SYSTEM CONFIGURATION

500 gallon Pro Flo 500 SLPT2 Aerobic Treatment Unit or equal NSF approved chlorinator

PUMP SIZING

Total dynamic head (TDH) = operating head + friction head + static head Operating head = 40 psi x 2.31 ft./psi = 92.4 ft.

Friction head = 3.26 psi x 2.31 ft./psi = 7.53 ft.

Static head = 7 ft.

TDH = 92.4 ft. + 7.53 ft. + 7 ft. = 106.93 ft. @ 20 gpm

Choose E Series Environmental 20 gpm or similar pump

SPRINKLER HEAD SPECIFICATIONS

K Rain Model 11003 RCW #3 low angle nozzle or equivalent (4 required).

Trajectory: 11°

Spray Radius: 32 feet, flow rate: 3.1 gpm @ 40 psi, 3 typical Spray Radius: 29 feet, flow rate: 3.0 gpm @ 30 psi, 1 typical

DISTRIBUTION PIPING

Irrigation line to sprinklers – 1" diameter Schedule 40 PVC, $\frac{1}{2}$ " diameter laterals all purple pipe.

EFFLUENT DISINFECTION

The treated effluent must be disinfected with chlorine prior to irrigation. NSF approved stack fed tablet type or liquid chlorine chlorinators are acceptable.

LANDSCAPE PLAN

The irrigated area must be continuously covered or seeded with Coastal Bermuda or St. Augustine grasses. Areas subjected to dormant or dying vegetation during the winter months shall over seeded with Winter Rye grass or other cold tolerant vegetation. Grasses shall be cut as needed to prevent interference with the sprinkler operation. Surface improvements such as buildings sidewalks, driveways, patios, etc., cannot be constructed within the spray application area. Grade the sprinkler area to provide positive storm water runoff.

SPRAY TIMES

Spray times can be on demand, however, if controlled by a commercial time spray between 12:00 midnight and 5:00 am.

12/27/2

RCB

MAINTENANCE

A maintenance contract shall be maintained for throughout the life of this OSSF. The property owner must ensure that the OSSF is provided with electricity at all times and that the disinfection unit is supplied with the appropriate chlorine. Malfunctions must be reported to the Maintenance Provider as soon as possible. The property owner must operate the OSSF according to the owner's manual and specific design criteria.

ADDITIONAL NOTES

The system has been designed in accordance 30 TAC Chapter 285 On-Site Sewage Facilities for the purposes of securing a permit. This OSSF designer provides no process guarantee relative to system operation and performance. Water conservation is encouraged with all on-site wastewater systems. Daily flows in excess of 240 gpd will invalidate this design.



12/27/20

Septic Systems DOs and DON'Ts (Courtesy of National Small Flows Clearinghouse, Pipeline, Fall 1995, Vol. 6 No. 4)

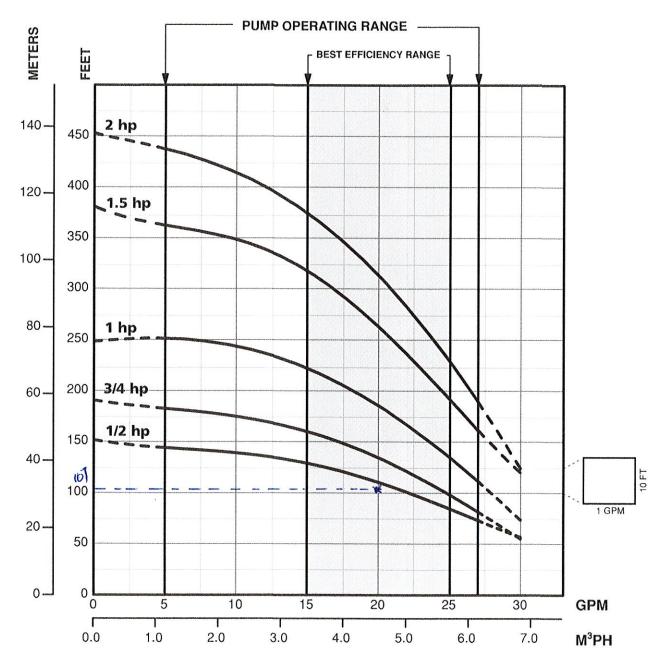
Dos	DON'Ts
Learn the location of your septic tanks	Go down into a septic tank. Toxic gases
and soil treatment area. Keep a sketch of	are produced by the natural treatment
it handy with your maintenance record	processes in septic tanks and can kill in
for service visits	minutes. Extreme care should be taken
	when inspecting a septic tank, even
	when just looking into it.
Have your onsite wastewater treatment	Allow anyone to drive or park over any
system inspected annually	part of the system
Have your septic tank pumped our	Plant anything over or near the soil
regularly by a licensed contractor	treatment area except grass. Roots from
	nearby tree or shrubs may damage
	distribution line.
Keep your septic tank cover accessible	Dig into your soil treatment area or build
for inspection and pumping. Install	anything over it, and don't cover the soil
risers if necessary.	treatment area with hard surface such as
	concrete or asphalt. The area over the
	soil treatment area should have only a grass cover. The grass will not only
	prevent erosion but will help remove
	excess water.
Call a professional whenever you	Make or allow repairs on your on-site
experience problems with your system	wastewater treatment system without
or if there are any signs of system	obtaining the required health
malfunction.	department permit. Do use professional
	licensed septic contractors when
	needed.
Keep a detailed record of repairs,	Use septic tank additives. These
pumping, inspections, permits issued,	products usually do not help and some
and other maintenance activities.	may even harmful to your system

Dos	DON'Ts
Conserve water to avoid overloading the system. Be sure to repair any leaky faucets or toilets. Space laundry over the week and not all on one day.	Use your toilet as a trash can, or poison your septic system and the groundwater by pouring harmful chemicals and cleansers down the drain. Harsh chemicals can kill the beneficial bacteria that treat your wastewater.
Divert other sources of water, like roof drains, house footing drains, and sump pumps, away from the on-site wastewater treatment system. Excessive water keeps the soil in the soil treatment area from naturally cleansing the wastewater.	Use a garbage disposal without checking with your local regulatory agency to make sure that your on-site wastewater treatment system can accommodate this additional waste.

Submersible Pumps

E-Series Environmental Pumps

Thermoplastic - 20 GPM Performance Curves



FPS, 1/2 HP, 20 GPM High Head Effluent Pump Model: 20FE05P4-2W115

Product Details

OSSF

SPECIFICATIONS

- Inlet: 3/4" Threaded NPT
- Arc Adjustment Range: 40° to Continuous 360° Flow Range: .5 10.0 GPM
- Pressure Rating: 7 70 PSI
- Precipitation Rate: .06 to .50 Inches Per Hour
- High Pop (Depending on Spacing and Nozzle Used)
 Overall Height (Popped Down): 7 1/2" / 17" for
- Recommended Spacing: 28' to 44' Radius: 28' to 50'
- Nozzle Trajectory: 26°
- Low Angle Nozzle Trajectory: 12°

Model: NC-SJ-12 ProPlus Rotor for Reclaimed SWING JOINT Water w/Low Angle Nozzle Model: 1103-RCW As Specified

LOW ANGLE DATA

#6	#4	#3	#1	NOZZLE
40 50 60 70	30 40 50 60	30 40 50 60	30 40 50	PRESSURE PSI
38'	31'	29'	22;	RADIUS FT.
40'	34'	32'	24;	
42'	37'	35'	26;	
44'	38'	37'	28;	
6.5	3.4	3.0	1.2	FLOW GPM
7.3	3.9	3.1	1.7	
8.0	4.4	3.5	1.8	
8.6	4.7	3.8	2.0	

The PropPlus is a gear-driven, rotary type sprinkler, capable of covering an area of 28' to 50' (8.5 to 15.3 M) radius at nozzle pressure of 30 to 70 PSI (2.0 to 5.0 bar) with a discharge rate of .5 to 10.0 GPM (1.14 to 28.39 LPM).



for Reclaimed Water K-Rain Pro-Plus Rotor

September, 2010 By: A.S.

Scale:

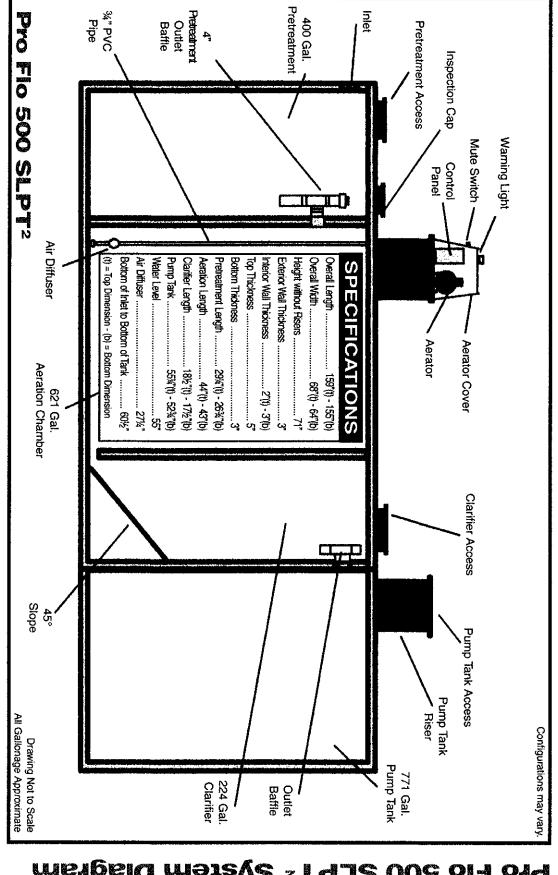
* All Dimensions subject to allowable spedification tolerances.

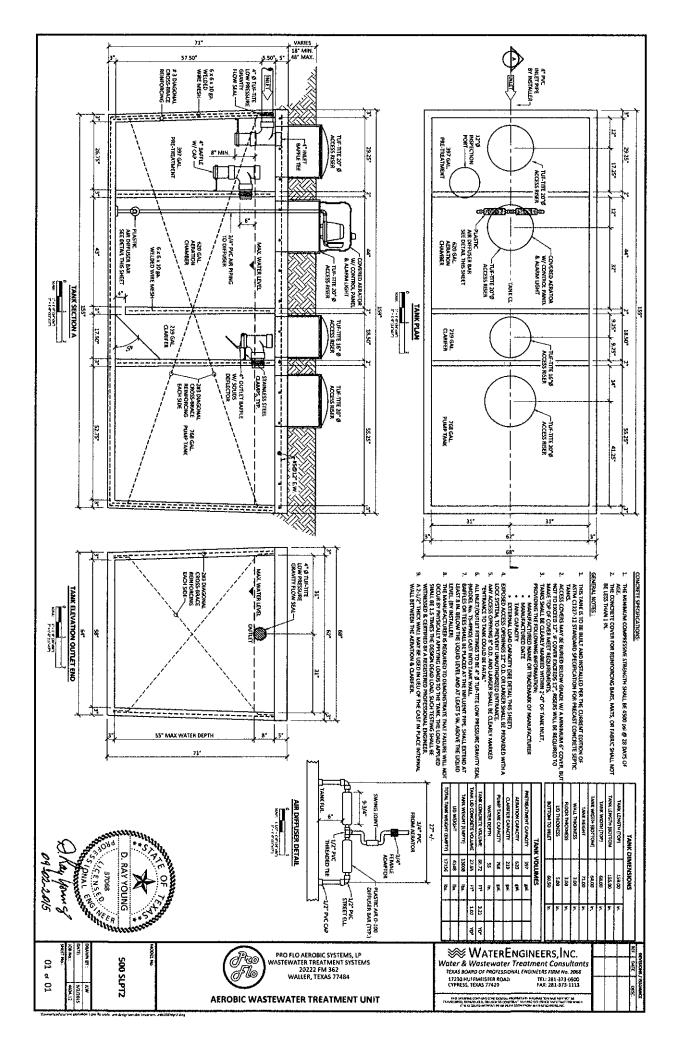
Dwg. #: KR-PPR

P.O. Box 507 Needville, Texas, 77461 1-888-331-5871 9235 Main Street #1

" Providing Concrete Environmental Solutions "

Pro Flo 500 SLPT² System Diagram





GENERAL NOTES

- NOTE EQUIVALENT MATERIALS AND EQUIPMENT MAY BE SUBSTITUTED PROVIDED STATE AND COUNTY REGULATIONS ARE MET.
 - 1. AN ON-SITE SEWERAGE FACILITY LICENSE MUST BE OBTAINED FROM THE PERMITTING AUTHORITY PRIOR TO INSTALLING THIS WASTEWATER SYSTEM.
 - 2. SYSTEM INSTALLATION MUST BE BY A REGISTERED INSTALLER OF ON-SITE SEWERAGE FACILITIES AS REQUIRED BY ARTICLE 4477-7E OF VERNONS CIVIL STATUTES OR BY THE OWNER OF THE PROPERTY UNDER LICENSE.
 - 3. IF ANY DISCREPANCIES EXIST BETWEEN THIS DESIGN AND ACTUAL FIELD CONDITIONS IT IS THE INSTALLER'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE DESIGNER AND THE PERMITTING AUTHORITY PRIOR TO START OF ANY WORK.
 - 4. ALL CONSTRUCTION METHODS AND MATERIALS MUST BE IN ACCORDANCE WITH COUNTY AND STATE RULES AND POLICIES UNLESS SPECIFICALLY NOTED BY THIS DRAWING AND APPROVED BY THE PERMITTING AUTHORITY.
 - 5. SITE SHALL BE CAREFULLY FINISH GRADED TO PROVIDE POSITIVE STORM WATER RUNOFF. ABSORPTION AREA SHALL BE CROWNED. DRAINAGE SWALES SHALL BE CONSTRUCTED TO ADEQUATELY CONVEY STORM WATER AWAY FROM THE ABSORPTION AREA.
 - 6. THIS SYSTEM, IF INSTALLED AND OPERATED IN ACCORDANCE WITH THIS PLAN SHOULD NOT PRESENT A HAZARD TO PUBLIC HEALTH OR THREATEN PROPOSED OR ADJACENT WATER WELLS.
 - 7. IT IS THE INSTALLER'S RESPONSIBILITY TO INSURE THAT THE SAFE DISTANCE FROM ANY WATER WELL MEET OR EXCEED STATE AND LOCAL CRITERIA, AND ARE IN ACCORDANCE WITH THE LICENSE ISSUED.
 - 8. IT IS THE INSTALLER'S RESPONSIBILITY TO REVIEW THE DESIGN CRITERIA WHICH ACCOMPANIES OR IS SHOWN ON THIS DRAWING. THE CRITERIA IS AN IMPORTANT PART OF THE CONSTRUCTION DOCUMENTATION PACKAGE.
 - 9. ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE, CURRENT EDITION. ALL ELECTRICAL WORK SHALL BE CONDUCTED UNDER THE SUPERVISION OF A MASTER ELECTRICIAN.
 - 10. IF THE PROPERTY IS LOCATED IN THE WITNIN THE 100 YEAR FLOOD PLAIN ALL MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE ELEVATED AT LEAST 18 INCHES ABOVE THE BASE FLOOD ELEVATION.
 - 11. STORM OR SITE DRAINAGE IMPROVEMENTS SHOWN ON THIS DRAWING SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF CONSTRUCTION OF THE ON-SITE SEWERAGE FACILITY.

- 12. PLUMBING STUB OUTS SHALL BE CONSTRUCTED AS SHALLOW AS POSSIBLE.
 MAXIMUM DEPTH SHALL BE BELOW NATURAL GROUND TO FLOWLINE IS 12 INCHES.
- 13. CONDENSATE FROM AIR CONDITIONING, ICE-MACHINES, OR OTHER REFRIGERATION EQUIPMENT SHALL NOT BE DISCHARGED INTO THE ON-SITE SEWERAGE SYSTEM UNLESS THE SYSTEM HAS BEEN SIZED TO ACCEPT SUCH WASTEWATER FLOW. WATER SOFTENER BACKWASH OR POOL/SPA DRAINS/BACKWASH SHALL NOT BE INTRODUCED INTO THE SYSTEM.
- 14. CONTRACTORS SHALL NOTIFY THE UTILITY COORDINATION COMMITTEE, 1-800-669-8344 AND/OR TEXAS ONE CALL SYTEM 1-800-245-4545, 48 HOURS IN ADVANCE OF CONSTRUCTION FOR THE PURPOSE OF LOCATING UNDERGROUND LINES (PER OSHA 1926.651).
- 15. THE LICENSING AUTHORITY SHALL BE NOTIFIED FOR INSPECTION PRIOR TO COVERING OF ANY SYSTEM COMPONENTS.
- 16. CONTAMINANTS SUCH AS PESTICIDES, HYDROCARBON WASTES, BLUE WATER DISINFECTANTS, CIGARETTE BUTTS, COFFEE GROUNDS, PAPER TOWELS, SANITARY NAPKINS, CONDOMS, SHOULD NOT BE ALLOWED TO ENTER THE ONSITE SEWAGE FACILITY.
- 17. IT IS THE OWNER'S RESPONSIBILITY TO KEEP A CURRENT MAINTENANCE CONTRACT WITH AN APPROVED MAINTENANCE COMPANY. THE CONTRACT SHOULD STATE WHO IS RESPONSIBLE TO REPLENISH THE DISINFECTION DEVICE.
- 18. ANY WARRANTY ON THE PRODUCT(S) INSTALLED ARE THOSE MADE BY THE MANUFACTURER. THE ENGINEER/INSTALLER EXPRESSLY DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING IMPLIED WARRANTY FOR FITNESS FOR A PARTICULAR PURPOSE, AND ENGINEER/INSTALLER NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY LIABILITY CONNECTION WITH THE DESIGN, INSTALLATION, OPERATION, AND/OR OPERATION OF THE PRODUCT. LICENSE HOLDER ASSUMES FULL RESPONSIBILITY FOR THE PERFORMANCE OF THIS SYSTEM FOLLOWING FINAL INSPECTION APPROVAL BY THE LICENSING AUTHORITY.

THESE CALCULATIONS ARE BASED UPON SOUND ENGINEERING PRACTICE IN ACCORDANCE WITH THE STATE OF TEXAS REQUIREMENTS AND WILL BE ADEQUATE FOR THIS INSTALLATION.

ADDITIONAL QUANTITIES OF EFFLUENT FROM ANY SOURCE ARE NOT PROVIDED FOR THIS DESIGN. IF THE QUANTITY OR QUALITY OF EFFLUENT CHANGES FROM THE DESIGN CRITERIA THE INSTALLATION AND DESIGN ARE INVALIDATED. SYSTEM UPGRADING TO MEET ADDITIONAL EFFLUENT LOADING IS THE RESPONSIBILITY OF THE PROPERTY OWNER.

SELECTION OF OSSF TYPE AND SYSTEM DESIGN IS BASED UPON SOIL SAMPLES AT THE LOCATIONS SHOWN ON THE SITE PLAN. IF DURING THE ACTUAL CONSTRUCTION OF THIS SYSTEM THE SOIL TYPE PROVES UNSUITABLE FOR A CONVENTIONAL SYSTEM THE DESIGN FOR SUCH WILL BE CHANGED TO SUIT THE REQUIREMENTS OF THE STATE OF TEXAS.

SITE / SOIL EVALUATION

CLIENT: Rafael Moreno ADDRESS: 5023 Birch Street

Santa Fe, TX 77517

LEGAL DESCRIPTION: Being out of Lot 5, Simpson Subdivision, Abstract 611

PROPERTY SIZE: 1.17 acres

EXISTING OR PROPOSED STRUCTURE TO BE SERVED: Proposed 2,007 s.f. single family residence.

TOPOGRAPHY

SLOPE: FLAT (UNDER 2%) <u>X</u> SLIGHT (UNDER 4%)SEVERE (OVER 5%)
VEGETATION: GRASS/BRUSH LIGHTLY WOODED _X_ HEAVILY WOODEDn/a
SITE DRAINAGE: POORADEQUATE: XGOOD:

NOTE: If slope is severe a topographic survey with 5 foot contours must be provided with this form on the design. If site drainage is poor or slope is flat, then a detailed drainage plan must be provided on the design.

FLOOD HAZARD

PROPERTY IS LOCATED:

OUTSIDE 100 YEAR FLOOD PLAIN: yes FIRM 48167C0375G

IN 100 YEAR FLOOD PLAIN

IN 100 YEAR FLOOD PLAIN AND FLOODWAY

NOTE: Attach a FEMA Flood Insurance Rate Map (FIRM) with property location identification or current survey with Flood Plain determination.



WATER SUPPLY

PUBL	IC	COMMUNITY	F	PRIVAT	Ex
------	----	-----------	---	--------	----

NAME OF WATER SUPPLIER: Proposed private water well.

NOTE: If well is on-site complete the following:_ SIZE OF WELL: n/a AGE OF WELL: n/a

DEPTH OF WELL: n/a

SEAL BLOCK PRESENT: n/a

WELL HOUSE PROTECTION WELL: n/a

IS A WELL LOG AVAILABLE (ATTACH IF AVAILABLE): n/a

NEIGHBORING WELL WITHIN 150 FEET OF PROPERTY LINE: None

(If neighboring well exists they must be shown on the design.)

OTHER SETBACKS

Streams, Ponds, or Lakes within 75 feet: Shown Sharp Slopes, Breaks, or Dry Ditches: None

SOIL EVALUATION

SOIL BORING NO. 1

PROFILE DEPTH	TEXTURE (USDA)	COLOR	GRAVEL %
0" to 13"	Loam	Dark Gray	0
13" to 24"	Clay Loam	Gray	0
24" to 60"	Clay Loam	Light Brownish/Gray	0

SOIL BORING NO. 2

PROFILE DEPTH TEXTURE (USDA)

COLOR

GRAVEL %

Same as Soil Bore 1

OSSF SITE OF TEXAS QUANTED TEX

EFFLUENT LOADING DETERMINATION

SOIL TEXTURE	SOIL CLASS	GALLONS PER DAY / SQUARE FOOT
course sand, gravel	1a	> 0.5
sand, loamy sand	1b	0.38
sandy loam, loam	II	0.25
silt, silt loam, silty clay loam, clay loam, sandy clay loam, sandy clay	III	0.20
silty clay, clay	IV	0.10

NOTE: The soil evaluated for effluent loading should be the soil below the maximum depth of application (normally between 36 and 48 inches)

INDICATION OF SEASONAL WATER TABLE: YES @ 13"

NOTE: Subsurface horizons with colors of red, yellow and brown generally indicate good soil aeration and drainage throughout the year. Subsurface horizons that are in color of gray, olive or brackish colors indicate poor aeration and poor soil drainage. Any soil profile that has grayish colors indicative of a high water table or soil mottling within 36 inches of the surface or has groundwater visible in the test bore less than 48 inches below the ground surface shall be deemed unsuitable for conventional subsurface disposal due to the internal drainage.

Soil Classification: CLASS III

IS SOIL SUITABLE FOR A CONVENTIONAL SYSTEM: NO APPLICATION RATE: 0.20 GPD/SF/DAY

NOTE: If soil has an application rate of over 0.38 GPD/SF or less than 0.1 GPD/SF or a high seasonal water table then conventional systems are prohibited by State Law.

I, Raymond C. Beckford, a registered Site Evaluator, license OS 25275, did personally conduct the site evaluation at: 5023 Birch Street Santa Fe TX 77517

I certify these results are true and correct for the property evaluated.

Signature

12-27-2020

Galveston County Health District Site Evaluation Form

Date: 12/20/2020		
Date: 12/20/2020 Client: RAFAEL MONENO	Address: 5023 B	IRCH ST
Phone:	City, State Zip:	NTA FG TX 77517
Legal Description:		
Site Address: 5023 BIRCH ST	City/Area: SANTA	FE TX
Subdivision: SIMPSON	Sec: L	ot: _5 Block:
Survey:	Abstract No:	611
Property Size:	Acres:	1.17
Existing or proposed structure to be served: (C	Circle one) Existing Structure/Ne	ew Structure
	Topography	
Slope	Vegetation	Drainage
Flat: Under 2%	Grass/Brush:	Poor:
Note: If slope is flat a <u>detailed drainage</u> <u>plan</u> shall be provided on design.		Note: If drainage is poor a <u>detailed</u> <u>drainage plan</u> shall be provided on design.
Slight: Under 4%	Lightly Wooded:	Adequate:
Severe: Over 30%	Heavily Wooded:	Good:
Note : If slope is severe a <u>Topo Survey</u> with half foot contours should be provided with this form on design.		
Other:	Other:	Other:
	Flood Hazard	
Property is located:		
Outside 100 year flood plain:		
*In 100 year flood plain:		
In 100 year flood plain and floodway:		

Note: *Systems installed in flood plain must document how floatation concerns will be addressed on design. Attach a FEMA Flood Insurance Rate Map (FIRM) with property location identification or current survey with Flood Plain determination.

Soil Evaluation

(Based on at least two soil borings or two backhoe pits at opposite ends of the soil absorption area)

	Profile Depth	Texture (USDA)	Color DARK GRAY
	13"- 24"	CLAY LOAM	BARK GRAY GRAY
	24"- 66"	CLAY LOAM	LIGHT BROWN / GR
(M	inimum depth is two fee	et below proposed excavati	on)
	Profile Depth	Texture (USDA)	Color
	CANE	E AS ABOUT	
Normal Textures (USDA)	course sand/gravel, loamy san	et below proposed excavati	clay loam, silty clay, clay.
Note: Location of bore ho	les must be shown on design of the state of the shown on design of the state of the show features in the state of the stat	or on a separate sheet of paper atta	ched to this report.
SHOWN	ON SITE PLAN		

RESTRICTIVE HORIZON

Restrictive Horizon within 24" below bottom of proposed excavation?	Yes No	
**************************************	ALYSIS	
% Total Gravel:		
% Gravel Less Than 2.0 mm:		
% Gravel Greater than 5.0 mm:		
*************	******	
EFFLUENT LOADING DE	TERMINATION	
Soil Class/Texture	Gallons per day per squar	<u>e foot</u>
Ia/Gravelly Soil >30% Gravel	To great for consideration	>0.5
Ib/Sandy solis with <30% gravel		0.38
II/Sandy loams/loams		0.25
III/Sandy clay/clay loams		0.20
IV/Clay/silty clays	Unsuitable	0.10
Indication of seasonal water table: (Circle One)	No Depth: 13	
**************	******	
FINDINGS		
s soil suitable for standard subsurface disposal methods? (Circle One)	Yes No	
Wastewater appl	ication rate 0, 2 Gal/day	y/sq.ft.
I, RAYMOND BECKFORD, a registered	SITE EVALUAT	TOR
did personally conduct the site evaluation on 12/20/20	20 (Date)	· ,
certify that these results are true and correct for the property evaluate	d. Site Evaluator OS 25 2 7 Registration Number	

TWO YEAR INITIAL MAINTENANCE AGREEMENT FOR AN ON SITE SEWAGE FACILITY TREATMENT SYSTEM

_					
System Owner:		Serial Number:			
Ratael Morero	Brand Name: Aqua Klear				
-	System Name: Aqua Klear				
	Located at:				
	5023 Birch 8+				
	Santa Fi Th				

Guif Coast Aerobic Services will Inspect and service your Aqua Klear Aerobic System once every <u>4 months</u> for a period of <u>two years</u> from the date that this OSSF is first used at no additional charge to the customer as required by state guidelines dated June 13, 2001. For a new single family dwelling, this date is the date of sale by the builder. For an existing single family dwelling this date is the date the notice of approval is issued by the permitting authority.

Before this initial two year service policy expires, the owner of this OSSF is required to have a new maintenance contract signed. A copy of the new contract shall be submitted to the permitting authority at least 30 days before the current contract expires. If the property owner or maintenance company desire to discontinue the maintenance contract, the maintenance company shall notify, in writing, the permitting authority at least 30 days prior to the date service will cease. If a maintenance company discontinues business, the property owner shall within 30 days of the termination date, contract with another approved maintenance company and provide the permitting authority with a copy of the newly signed maintenance agreement.

Testing and Reporting

Gulf Coast Aerobic Services shall test and report on the following for this system as required by rule:

- 1. An inspection every 4 months, which includes inspection of the mechanical and electrical component parts as necessary to ensure proper function is being attained.
- An effluent quality inspection consisting of a visual check for color, turbidity, scum overflow and an examination of odors.
- If required, a sample shall be pulled from the aeration tank to determine if there is an excess of solids in the
 treatment plant. If the test results determine a need for solids removal, the user will bear the cost and
 responsibility for doing so.
- 4. If any improper operation is observed at the time of the inspection, the user shall be notified immediately in writing of the condition(s) and the estimated cost to bring the system into compliance and good working order.
- 5. If required, a chlorine residual test will be taken at each visit.

Inspection Contract Description:

An inspection Contract to be effective for a period of 12 months. Inspections are to be performed every 4 months. Under the terms of this inspection Contract Renewal Agreement the owner is responsible for keeping chlorine (calcium Hypochlorite properly labeled for wastewater disinfection) in the chlorinator as well as the cost of the chlorine. Additional service, as ordered including replacement of components, laboratory test work, and pumping of unit or pre-tank will be done upon authority from the customer and at an additional charge. (This Policy Does Not Include Pumping Sludge From Unit If Necessary)

-if you request notification prior to inspection an attempt will be made to contact you when we are certain we will have a technician in your area, if we are unable to reach you the technician will still attempt to complete the scheduled inspection. If he is unable to complete the inspection due to a locked gate and/or dags in the yard, etc. a door hanger will be left as notification of our attempt to complete the inspection and this will count as one of your three yearly inspections.

-Any service call requested by the owner that requires repairs due to any fault of the owner and/or requiring no repairs at all will result in a \$70.00 service call fee + parts and labor (If required) and payment will be due immediately. FAILURE TO PAY ANY INVOICE WILL RESULT IN CANCELLATION OF CONTRACT.

Michael P. Robinson, has been certified by the manufacturer of your system and will be responsible for fulfilling the requirements of this inspection Contract, as well as responding to any complaints and/or addressing any concerns by the owner of the system. Concerns and/or complaints will be addressed within 48 hours of the initial contact. Upon expiration of this inspection contract, our firm will offer a renewal of your inspection contract as mandated by State regulations.

VIOLATIONS OF WARRANTY include shutting off the electric current of the system for more than 24 hours, disconnecting the alarm system, restricting ventilation to the aerator, overloading the system above its rated capacity, or introducing excessive amounts of harmful matter into the system, or any other form of unusual abuse.

Michael P. Robinson, who has been certified by the manufacturer of your system and will be responsible for fulfilling the requirements of this Maintenance Contract, as well as responding to any complaints and/or addressing any concerns by the owner of the system. Concerns and/or complaints will be addressed within 48 hours of the initial contract. Upon expiration of this service policy, our firm will offer a continuing service policy as mandated by state regulations.

Affidavit to the Public

THE COUNTY OF GALVESTON
STATE OF TEXAS

AFFIDAVIT

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According to Texas Commission on Environmental Quality Rules for On-Site Sewage (OSSFs) Facilities, this document is filed in the Deed Records of Galveston County, Texas.

I

The Texas Health and Safety Code, Chapter 366 authorizes the Texas Commission on Environmental Quality (commission) to regulate on-site sewage facilities (OSSFs). Additionally, the Texas Water Code (TWC), §5.012 and §5.013, gives the commission primary responsibility for implementing the laws of the State of Texas relating to water and adopting rules necessary to carry out its powers and duties under the TWC. The commission, under the authority of the TWC and the Texas Health and Safety Code, requires owners to provide notice to the public that certain types of OSSFs are located on specific pieces of property. To achieve this notice, the commission requires a recorded affidavit. Additionally, the owner must provide proof of the recording to the OSSF permitting authority. This recorded affidavit is not a representation or warranty by the commission of the suitability of this OSSF, nor does it constitute any guarantee by the commission that the appropriate OSSF was installed.

H

An OSSF requiring a maintenance contract, according to 30 Texas Administrative Code §285.91(12) will be installed or	a
the property described as (insert full legal description and full location address):	
Lot B Goldons Subdivisor S023 Birch Strect	
The property is owned by RAFAL MOVENO ALLMAN Scota Fe (insert owner's full name) Scota Fe F7517	
(insert owner's full name) F3517	
This OSSF shall be covered by a continuous service policy for the first two years. After the initial two-year service policy the owner of an aerobic treatment system for a single family residence shall either obtain a maintenance contract within days or maintain the system personally under the guidelines of the regulatory authority.	уу, 30
Upon sale or transfer of the above-described property, the permit for the OSSF shall be transferred to the buyer or nowner. A copy of the planning materials for the OSSF may be obtained from the Galveston County Health District.	ıew
WITNESS BY HAND(S) ON THIS Q 6 DAY OF WYUNDY 2021	
facuel moreno	>
(Owner(s) signature	re(s)
WORN TO AND SUBSCRIBED BEFORE ME ON THIS DU DAY OF WYULLY	
HAMMASTATES	
ary Public, State of Texas	
Iry's Printed Name: GEOANNYE PONCE NAME OF THE PONCE	
Commission Expires: Notary ID #132754553	

FILED AND RECORDED

Instrument Number:

2021027570

Recording Fee: 26.00

Number Of Pages:2

Filing and Recording Date: 04/16/2021 1:11PM

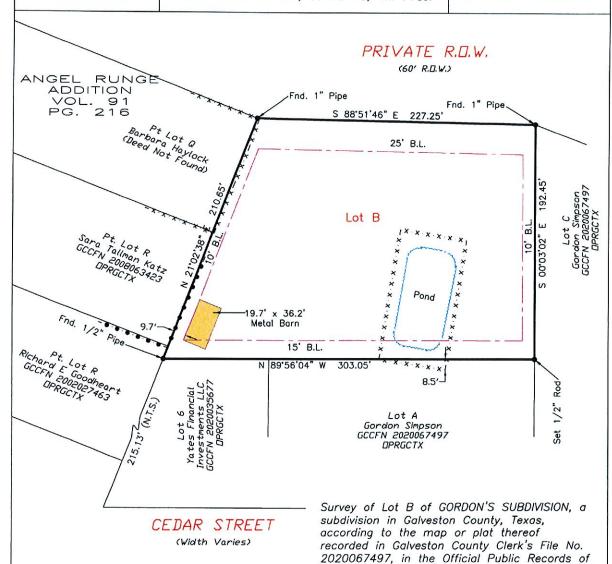
I hereby certify that this instrument was FILED on the date and time stamped hereon and RECORDED in the OFFICIAL PUBLIC RECORDS of Galveston County, Texas.



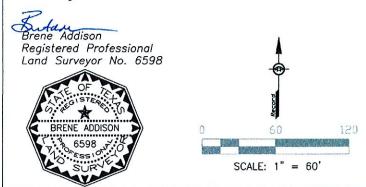
Dwight D. Sullivan, County Clerk

Galveston County, Texas

>O NOT DESTROY - Warning, this document is part of the Official Public Record.



I hereby certify that on the below date, the herein described property, together with improvements located thereon, was surveyed on the ground and under my direction, and that this map, together with dimensions as shown hereon, accurately represents the facts as found on the ground this date.



1) This property is subject to the zoning ordinances of the City of Santa Fe.

2) This property lies within "other areas" Zone X as established by the FEMA Flood Insurance Rate Map No. 48167C0375G, Dated August 15,

3) This property is subject to any restrictions of record and may be subject to setbacks from power lines as established by DSHA and/or the local power company.

4) Bearings are based on the monumentation of the North

right-of-way line of Cedar Street.
Surveyed without the benefit of a title commitment. This property may be subject to matters of record not shown hereon that might be revealed by title report or title commitment.

Legend:

Real Property of Galveston County, Texas.

x · X - Wire Fence B.L. Building Setback Line
Building Line (N.T.S.) Not to Scale



Drafting: LP Survey Date: October 27, 2020

Surveyed for: Gordon Simpson

City of Santa Fe Residential Development Permit Application 12002 Hwy. 6, P.O. Box 950, Santa Fe, TX 77510 Phone: 409-925-6412 Fax: 409-316-1941

INCOMPLETE APPLICATIONS WILL NOT BE ACCEPTED

Project Address:	5023 LOT B	Brich	5t	50	Santa	Fe GCA	AD account #	77517	
Type of Perm	nit: BUILDING 🖸	MECHANICAL		CAL	PLUMBING DEMOLITION		OL INCLUDE	/Modular Home	
CLASS OF WORK:	O NEW O	ADDITION (ALTER	RATION	O REPA		OTHER		
DESCRIPTION OF W	ORK AND USE OF BUIL	LDING:			Total Build	ding Square		2,747 50	, A
New family residence			Building Square Footage: 2,747 59.ft Building Square Footage (unconditioned space): 424 59.ft Building Height 22.41 No. of Stories						
Pool Value \$					Flood Zon	11. 17			
Total Paving (sq. ft.)	W Parking Spaces Provided	Well and Septic	% of Lot C	overage	Zoning District	Fire Sprinkl	er Required	SWPPP Require	d
Owner's Name	Rafael H Kildare	loveno		Constitution of	L CONTRACTO		Cael	MOV Q M	NO O
PHONE NO.: 63	ouston T 32-573 Tunior@	x. 7704 - 5546 ichoud.co		CITY, STAT	0. 832	uston -59 unior (TX +3-9 Wick	77047 6546 oud - com	
Electrical C () Plumbing: Mechanical: Other:	Company Name an	2M _O				Master's Nam	Copy of L	Icense and Insurance required	uired)
Required to be submitted TWO copies of the Complete of the Co	the building plans an or survey (showing all earlian or Drainage Plan illution Prevention Plan (decress built or modified within illution Code for Windstorm at the available to the Building are of the Permanent Occur icate shall result in cancella as Any development in a special in a special flood hazard are reyor to be 12 inches above are required: before work be	in Santa Fe must be but Resistant Construction in Department within the pancy Certificate. Failution of any Occupancy Certificate and Parameters of the Para	In size) If to the 1 The TDI Ce O days of to Dertificate. Equires a Scates are re- certified by	rtificate he Final ide the	application and i provisions of law be complied with does not presum provisions of any performance of a applicable codes that the permit is may be revoked in relevant item of it Galveston County drainage or deter contacting them, authorized is not	know the same is and ordinary is and ordinary in whether species to give authorized to construction. Upon submits conditioned upon a finding information is a prainage Distriction for this This permit be commenced indoned for a red.	ne to be true a nees governine ecified or not. hority to viola proposed cor ssion of this a information g by the inspe a correct. I acl strict #1 may project, and t project, and t	ng this type of work in the granting of a pinte or cancel the igulation construction shall mee in that I have supplied ection official that a section official that as	ermit on or it all tand and ny e for ition