

## Comal County

OFFICE OF COMAL COUNTY ENGINEER

## License to Operate On-Site Sewage Treatment and Disposal Facility

Issued This Date:

04/15/2019

Permit Number:

108720

Location Description:

2645 ROCKY RIDGE LOOP CANYON LAKE, TX 78133

Subdivision:

Rocky Creek Ranch

Unit:

8 230

Lot:

Block:

Acreage:

Type of System:

Aerobic

Surface Irrigation

Issued to:

Grady P. Drugg

This license is authorization for the owner to operate and maintain a private facility at the location described in accordance to the rules and regulations for on-site sewerage facilities of Comal County, Texas, and the Texas Commission on Environmental Quality.

The license grants permission to operate the facility. It does not guarantee successful operation. It is the responsibility of the owner to maintain and operate the facility in a satisfactory manner.

Alterations to this permit including, but not limited to:

- Increase in the square feet of living area
- Increase in the number of bedrooms
- A change of use (i.e. residential to commercial)
- Relocation of system components (including the relocation of spray heads)
- Installation of landscaping
- Adding new structures to the system

may require a new permit. It is the responsibility of the owner to apply for a new permit, if applicable.

Inspection and licensing of a facility indicates only that the facility meets certain minimum requirements. It does not impede any governmental entity in taking the proper steps to prevent or control pollution, to abate nuisance, or to protect the public health.

This license to operate is valid for an indefinite period. The holder may transfer it to a succeeding owner, provided the facility has not been remodeled and is functioning properly.

Licensing Authority

Comal County Environmental Health

NVIRONMENTAL HEALTH CORDINATOR

OS00077

ENVIRONMENTAL HEALTH INSPECTOR

Installer Name: David Winters	OSSF Installer #: 05 000 592+  2nd Inspection Date: 4.15.19 Inspector Name: Inspector Name:	
1st Inspection Date 2.22.19	2nd Inspection Date: 4.15.19	
Inspector Name: Stab On Re	Inspector Name:	_

Permit#: 108120	Anwser	Citations	ress: 2645 Roc	0 0	1st Insp.	chy Co	3rd Insp.
SITE AND SOIL CONDITIONS & SETBACK DISTANCES Site and Soil Conditions Consistent with Submitted Planning Materials	/	285.31(a) 285.30(b)(1)(A)(iv) 285.30(b)(1)(A)(v) 285.30(b)(1)(A)(iii) 285.30(b)(1)(A)(ii) 285.30(b)(1)(A)(i)			2.22.10		10
SITE AND SOIL CONDITIONS & SETBACK DISTANCES Setback Distances Meet Minimum Standards	J	285.91(10) 285.30(b)(4) 285.31(d)	1. · ·				
SEWER PIPE Proper Type Pipe from Structure to Disposal System (Cast Iron, Ductile Iron, Sch. 40, SDR 26)	1	285.32(a)(1)					
SEWER PIPE Slope from the Sewer to the Tank at least 1/8 Inch Per Foot	1	285.32(a)(3)					
SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends)	<b>✓</b>	285.32(a)(5)					
PRETREATMENT Installed (if required) TCEQ Approved List PRETREATMENT Septic Tank(s) Meet Minimum Requirements		285.32(b)(1)(G)285.32(b)(1)(E)(iii) 285.32(b)(1)(E)(iv) 285.32(b)(1)(F) 285.32(b)(1)(C)(i) 285.32(b)(1)(C)(ii) 285.32(b)(1)(D) 285.32(b)(1)(E) 285.32(b)(1)(E) 285.32(b)(1)(E) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II)					
PRETREATMENT Grease Interceptors if required for commercial		285.34(d)					

2.22.19-54

NEEDA REVISION

of the clock

Lank location

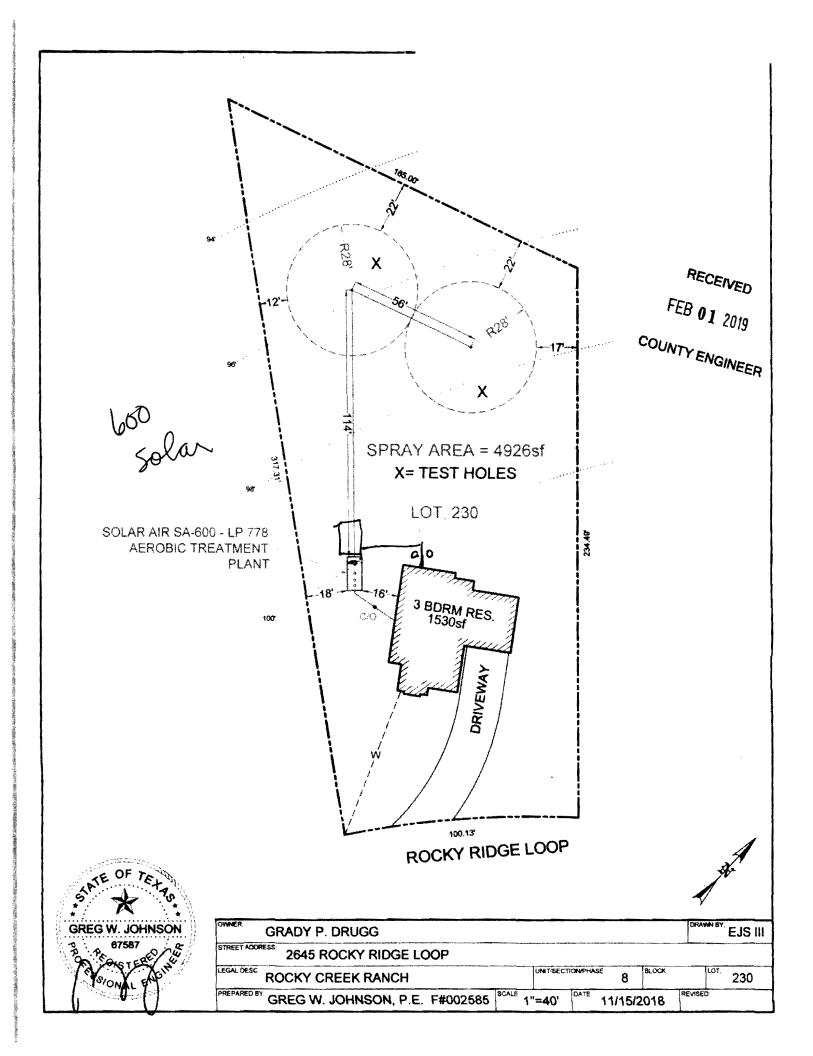
lo.	Description	Anwser	Citations	Nates	1st Insp.	2nd Insp.	3rd Insp.
	SEPTIC TANK Tank(s) Clearly Marked SEPTIC TANK If SingleTank, 2 Compartments Provided with Baffle SEPTIC TANK Inlet Flowline Greater than 3" and "T" Provided on Inlet and Outlet SEPTIC TANK Septic Tank(s) Meet Minimum Requirements	✓	285.32(b)(1)(E) 285.91(2) 285.32(b)(1)(F) 285.32(b)(1)(E)(iii) 285.32(b)(1)(E)(iii)(I) 285.32(b)(1)(E)(ii)(I) 285.32(b)(1)(E)(ii) 285.32(b)(1)(D) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C)(ii) 285.32(b)(1)(A) 285.32(b)(1)(A)		2.22.19		
	ALL TANKS Installed on 4" Sand Cushion/ Proper Backfill Used	/	285.32(b)(1)(F) 285.32(b)(1)(G) 285.34(b)				
	SEPTIC TANK Inspection / Clean Out Port & Risers Provided on Tanks Buried Greater than 12" Sealed and Capped	/	285.38(d)				
	SEPTIC TANK Secondary restraint system provided SEPTIC TANK Riser permanently fastened to lid or cast into tank SEPTIC TANK Riser cap protected against unauthorized intrusions	/	285.38(d) 285.38(e)				
2	SEPTIC TANK Tank Volume Installed	1					
3	PUMP TANK Volume Installed	<b>V</b>					
	AEROBIC TREATMENT UNIT Size Installed	1		600			
5	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number	/		Solair air			
	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
.5	DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
18	DISPOSAL SYSTEM Evapo- transpirative		285.33(a)(3) 285.33(a)(4) 285.33(a)(1) 285.33(a)(2)				

lo.	Description	Anwser	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
	DISPOSAL SYSTEM Drip Irrigation		285.33(a)(1)				
		7	285.33(a)(3)				
			285.33(a)(4)				
			285.33(a)(2)				
	Date to the		285.33(4)(2)				
	DISPOSAL SYSTEM Soil						
	Substitution		285.33(d)(4)				
_							
	DISPOSAL SYSTEM Pumped		285.33(a)(4)				
	Effluent		285.33(a)(3)				
			285.33(a)(1)				
1	DISPOSAL SYSTEM Gravelless		285.33(a)(3)				
	Pipe		285.33(a)(2)				
			285.33(a)(4)				
			285.33(a)(1)				
2							
	DISPOSAL SYSTEM Mound		285.33(a)(3)				
			285.33(a)(1)				
			285.33(a)(2)				
	10.		285.33(a)(4)				1 1 1 1 1
23							
	DISPOSAL SYSTEM Other		285.33(d)(6)				
	(describe) (Approved Design)		285.33(c)(4)				
			203.33(0)(4)				
4							
	DRAINFIELD Absorptive Drainline						
	3" PVC						
	or 4" PVC						
5						-	-
6	DRAINFIELD Area Installed						
	DRAINFIELD Level to within 1 inch	-				<del>                                     </del>	
	per 25 feet and within 3 inches		285.33(b)(1)(A)(v)				
	over entire excavation		200.55(0)(1)(1)(1)			1	
7	1						
	DRAINFIELD Excavation Width			1			
	DRAINFIELD Excavation Depth						
						1.	
	DRAINFIELD Excavation				7		
	Separation DRAINFIELD Depth of	45				-	
	Porous Media						
	DRAINFIELD Type of Porous						
	Media						
8	1					1	
	DRAINFIELD Pipe and Gravel -						
	Geotextile Fabric in Place		285.33(b)(1)(E)				
9							-
	DRAINFIELD Leaching Chambers						
	DRAINFIELD Chambers - Open						
	End Plates w/Splash Plate,						111111111111111111111111111111111111111
	Inspection Port & Closed End						
	Plates in Place (per		285.33(c)(2)		1		
	manufacturers spec.)						
	· · · · · · · · · · · · · · · · · · ·						
0	LOW ODSESTION STORES				-	-	-
	LOW PRESSURE DISPOSAL						
	SYSTEM Adequate Trench Length						
	& Width, and Adequate		285.33(d)(1)(C)(i)				
	Separation Distance between		203.33(4)(1)(0)(1)				
	Trenches						
					1		

No. Description	Anwser	Citations	Notes	1st insp.	2nd insp.	3rd insp.
EFFLUENT DISPOSAL SYSTEM Utilized Only by Single Family Dwelling EFFLUENT DISPOSAL SYSTEM Topographic Slopes < 2.0% EFFLUENT DISPOSAL SYSTEM Adequate Length of Drain Field ( 1000 Linear ft. for 2 bedrooms or Less & an additional 400 ft. for each additional bedroom ) EFFLUENT DISPOSAL SYSTEM Lateral Depth of 18 inches to 3 ft. & Vertical Separation of 1ft on bottom and 2 ft. to restrictive horizon and ground water respectfully EFFLUENT DISPOSAL SYSTEM Lateral Drain Pipe (1.25 - 1.5" dia.) & Pipe Holes ( 3/16 - 1/4" dia. Hole Size ) 5 ft. Apart		285.33(b)(3)(A) 285.33(b)(3)(A) 285.33(b)(3)(B) 285.91(13) 285.33(b)(3)(D) 285.33(b)(3)(F)				
AEROBIC TREATMENT UNIT IS Aerobic Unit Installed According to Approved Guidelines.		285.32(c)(1)				
AEROBIC TREATMENT UNIT Inspection/Clean Out Port & Risers Provided AEROBIC TREATMENT UNIT Secondary restraint system provided AEROBIC TREATMENT UNIT Riser permanently fastened to lid or cast into tank AEROBIC TREATMENT UNIT Riser cap protected against unauthorized intrusions						
AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets In Place.	/			222.19		3
PUMP TANK Is the Pump Tank an approved concrete tank or other acceptable materials & construction PUMP TANK Sampling Port Provided in the Treated Effluent Line PUMP TANK Check Valve and/or Anti- Siphon Device Present When Required PUMP TANK Audible and Visual High Water Alarm Installed on Separate Circuit From Pump						
PUMP TANK Inspection/Clean Out Port & Risers Provided PUMP TANK Secondary restraint system provided PUMP TANK Riser permanently fastened to lid or cast into tank PUMP TANK Riser cap protected against unauthorized intrusions						
PUMP TANK Secondary restraint 38 system provided						

Г	PUMP TANK Electrical				
	Connections in Approved		4.577		
39	Junction Boxes / Wiring Buried				

No.	Description	Anwser,	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
40	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple?	1	285.33(d)(2)(G)(iii)(II)285.3 3(d)(2)(G)(iii)(III)285.33(d)( 2)(G)(v) 285.33(d)(2)(G)(iii) 285.33(d)(2)(G)(iv) 285.33(d)(2)(G)(i) 285.33(d)(2)(G)(ii) 285.33(d)(2)(G)(iii)(I)		2/22/19		
41	APPLICATION AREA Low Angle Nozzles Used / Pressure is as required APPLICATION AREA Acceptable Area, nothing within 10 ft of sprinkler heads? APPLICATION AREA The Landscape Plan is as Designed	<b>/</b>	285.33(d)(2)(G)(i) 285.33(d)(2)(A) 285.33(d)(2)(F)	ready for cover			
42	APPLICATION AREA Area installed	/		2@ 4924		V	
43	PUMP TANK Meets Minimum Reserve Capacity Requirements						
44	PUMP TANK Material Type & Manufacturer						
45	PUMP TANK Type/Size of Pump Installed						



Installer Name: David Winters	OSSF Installer #: 05 (	0005924
1st Inspection Date 8.22.19	2nd Inspection Date:	3rd Inspection Date:
Inspector Name: S. de Once le	Inspector Name:	Inspector Name:

Permit#: 108120	Anwser	Citations	Address: 26	Notes	0 7	1st i	nsp.	2nd Msp.	3rd Insp.
SITE AND SOIL CONDITIONS & SETBACK DISTANCES Site and Soil Conditions Consistent with Submitted Planning Materials		285.31(a) 285.30(b)(1)(A)(iv) 285.30(b)(1)(A)(v) 285.30(b)(1)(A)(iii) 285.30(b)(1)(A)(ii) 285.30(b)(1)(A)(i)				2.2			
SITE AND SOIL CONDITIONS & SETBACK DISTANCES Setback Distances Meet Minimum Standards	J	285.91(10) 285.30(b)(4) 285.31(d)		,					
SEWER PIPE Proper Type Pipe from Structure to Disposal System (Cast Iron, Ductile Iron, Sch. 40, SDR 26)	J	285.32(a)(1)							
SEWER PIPE Slope from the Sewer to the Tank at least 1/8 Inch Per Foot	/	285.32(a)(3)		100000	<u></u>				
SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends)	<b>√</b>	285.32(a)(5)		-	***************************************				
PRETREATMENT Installed (if required) TCEQ Approved List PRETREATMENT Septic Tank(s) Meet Minimum Requirements		285.32(b)(1)(G)285.32(b)(1)(E)(iii) 285.32(b)(1)(E)(iv) 285.32(b)(1)(F) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C) 285.32(b)(1)(E) 285.32(b)(1)(E) 285.32(b)(1)(E) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II)							
PRETREATMENT Grease Interceptors if required for commercial		285.34(d)			1				

2.22.19-54

NEED A REVISION

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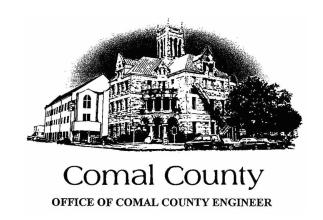
No.	Description	Anwser	Citations	Notes	1st insp.	2nd Insp.	3rd Insp.
	SEPTIC TANK Tank(s) Clearly Marked SEPTIC TANK If SingleTank, 2 Compartments Provided with Baffle SEPTIC TANK Inlet Flowline Greater than 3" and " T " Provided on Inlet and Outlet SEPTIC TANK Septic Tank(s) Meet Minimum Requirements	Anwser	285.32(b)(1)(E) 285.91(2) 285.32(b)(1)(F) 285.32(b)(1)(E)(iii) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(I) 285.32(b)(1)(E)(i) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C)(ii) 285.32(b)(1)(B) 285.32(b)(1)(A) 285.32(b)(1)(A)	Notes	2.22.\9		3rd Insp.
8	ALL TANKS Installed on 4" Sand Cushion/ Proper Backfill Used	/	285.32(b)(1)(F) 285.32(b)(1)(G) 285.34(b)				
	SEPTIC TANK Inspection / Clean Out Port & Risers Provided on Tanks Buried Greater than 12" Sealed and Capped	/	285.38(d)				
11	SEPTIC TANK Secondary restraint system provided SEPTIC TANK Riser permanently fastened to lid or cast into tank SEPTIC TANK Riser cap protected against unauthorized intrusions	/	285.38(d) 285.38(e)				
12	SEPTIC TANK Tank Volume Installed	1					
13	PUMP TANK Volume Installed						
14	AEROBIC TREATMENT UNIT Size Installed			600			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
15	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number	<b>√</b>		Solair Air			To
	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
16	DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
18	DISPOSAL SYSTEM Evapo- transpirative		285.33(a)(3) 285.33(a)(4) 285.33(a)(1) 285.33(a)(2)				

No.	Description	Anwser	Citations	Notes	1st Insp.	2nd insp.	3rd Insp.
	DISPOSAL SYSTEM Drip Irrigation		285.33(a)(1)				
			285.33(a)(3)				
		1	285.33(a)(4)				
	1.7	1	285.33(a)(2)				
19	DISPOSAL SYSTEM Soil						
	Substitution		285.33(d)(4)				
20							
	DISPOSAL SYSTEM Pumped	, · [	285.33(a)(4)				
	Effluent		285.33(a)(3)				
21			285.33(a)(1)				
	DISPOSAL SYSTEM Gravelless		285.33(a)(3)			_	
	Pipe	1	285.33(a)(2)				
l	'		285.33(a)(4)				
		1	285.33(a)(1)			į	
22							
	DISPOSAL SYSTEM Mound		285.33(a)(3)				
			285.33(a)(1)				
	¥		285.33(a)(2)		1	ļ	
	48.	***	285.33(a)(4)				:
23	DISPOSAL SYSTEM Other				<del>                                     </del>		
	(describe) (Approved Design)		285.33(d)(6)				
	(describe) (Approved Design)		285.33(c)(4)				
24							
	DRAINFIELD Absorptive Drainline	* .					
	3" PVC						
25	or 4" PVC						1.5
-	DRAINFIELD Area Installed						
26	3.8, 1.2.1						
	DRAINFIELD Level to within 1 inch						
	per 25 feet and within 3 inches		285.33(b)(1)(A)(v)			<b>!</b>	
	over entire excavation	1	703:33(0)(1)(M)(4)			ľ	
27	\text{mod} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						
	DRAINFIELD Excavation Width		,	*.			
	DRAINFIELD Excavation Depth				· ·	cy.	
	DRAINFIELD Excavation			·			,
	Separation DRAINFIELD Depth of	50					÷:
	Porous Media						
	DRAINFIELD Type of Porous	4. 4.4					. 1
	Media						
						1	
-							
28	DDAINGIG D CLASSES C						
	DRAINFIELD Pipe and Gravel -	]	285.33(b)(1)(E)				
29	Geotextile Fabric in Place						W
1	DRAINFIELD Leaching Chambers						
	DRAINFIELD Chambers - Open					1	
	End Plates w/Splash Plate,	l					
	Inspection Port & Closed End		285.33(c)(2)				
	Plates in Place (per					1	
	manufacturers spec.)	- terrent					
30	LOW DESCRIPT DISSOST						
	LOW PRESSURE DISPOSAL						
	SYSTEM Adequate Trench Length						
	& Width, and Adequate		285.33(d)(1)(C)(i)				
1	Separation Distance between	1				1	
1	Trenches						
31	<u> </u>				L		

No. Description	Anwser	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
EFFLUENT DISPOSAL SYSTEM Utilized Only by Single Family Dwelling EFFLUENT DISPOSAL SYSTEM Topographic Slopes < 2.0% EFFLUENT DISPOSAL SYSTEM					·	
Adequate Length of Drain Field ( 1000 Linear ft. for 2 bedrooms or Less & an additional 400 ft. for each additional bedroom )		285.33(b)(3)(A) 285.33(b)(3)(A) 285.33(b)(3)(B)				
EFFLUENT DISPOSAL SYSTEM Lateral Depth of 18 inches to 3 ft. & Vertical Separation of 1ft on bottom and 2 ft. to restrictive horizon and ground water respectfully EFFLUENT DISPOSAL SYSTEM Lateral Drain Pipe (1.25 - 1.5" dia.) & Pipe Holes (3/16 - 1/4" dia. Hole Size ) 5 ft. Apart		285.91(13) 285.33(b)(3)(D) 285.33(b)(3)(F)				
AEROBIC TREATMENT UNIT IS Aerobic Unit Installed According to Approved Guidelines. 33		285.32(c)(1)				± Avy
AEROBIC TREATMENT UNIT Inspection/Clean Out Port & Risers Provided AEROBIC TREATMENT UNIT				- '		
Secondary restraint system provided AEROBIC TREATMENT UNIT Riser permanently fastened		1			ж	
to lid or cast into tank AEROBIC TREATMENT UNIT Riser cap protected against unauthorized intrusions						
AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place.	1			222.19		
PUMP TANK Is the Pump Tank an approved concrete tank or other acceptable materials & construction						
PUMP TANK Sampling Port Provided in the Treated Effluent Line PUMP TANK Check Valve and/or			•			
Anti- Siphon Device Present When Required PUMP TANK Audible and Visual High Water Alarm Installed on Separate Circuit From Pump						
PUMP TANK Inspection/Clean Out Port & Risers Provided PUMP TANK Secondary restraint						
system provided PUMP TANK Riser permanently fastened to lid or cast into tank PUMP TANK Riser cap protected						
against unauthorized intrusions PUMP TANK Secondary restraint						
system provided						

	PUMP TANK Electrical					
	Connections in Approved				ı	I
39	Junction Boxes / Wiring Buried					

No.	<b>Description</b>	Anwser	Citations	Nates	1st Insp.	2nd Insp.	3rd Insp.
40	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple?		285.33(d)(2)(G)(iii)(II)285.3 3(d)(2)(G)(iii)(III)285.33(d)( 2)(G)(v) 285.33(d)(2)(G)(iii) 285.33(d)(2)(G)(iv) 285.33(d)(2)(G)(i) 285.33(d)(2)(G)(ii) 285.33(d)(2)(G)(iii)(I)		2/22/19		
41	APPLICATION AREA Low Angle Nozzles Used / Pressure is as required APPLICATION AREA Acceptable Area, nothing within 10 ft of sprinkler heads? APPLICATION AREA The Landscape Plan is as Designed		285.33(d)(2)(G)(i) 285.33(d)(2)(A) 285.33(d)(2)(F)	ready for cover			
42	APPLICATION AREA Area Installed	1		2@ 4924			
43	PUMP TANK Meets Minimum Reserve Capacity Requirements						
44	PUMP TANK Material Type & Manufacturer						
45	PUMP TANK Type/Size of Pump Installed						



## Permit of Authorization to Construct an On-Site Sewage Facility Permit Valid For One Year From Date Issued

Permit Number: 108720

Issued This Date: 02/07/2019

This permit is hereby given to: Grady P. Drugg

To start construction of a private, on-site sewage facility located at:

2645 ROCKY RIDGE LOOP CANYON LAKE, TX 78133

Subdivision: Rocky Creek Ranch

Unit: 8

Lot: 230

Block:

Acreage:

#### APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic

Surface Irrigation

This permit gives permission for the construction of the above referenced on-site facility to commence. Installation must be completed by an installer holding a valid registration card from the Texas Commission on Environmental Quality (TCEQ). Installation and inspection must comply with current TCEQ and Comal County requirements.

Call (830) 608-2090 to schedule inspections.

## \* \* \* COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH \* \* \*

## APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

Date Nov	rember 14, 2018	THE BIODING TO	Perm	nit #
Owner Name	GRADY P DRUGG	Agent Name	GR	EG W. JOHNSON, P.E.
Mailing Address	c/o 826 TIMBER DRIVE	Agent Address		170 HOLLOW OAK
City, State, Zip	NEW BRAUNFELS TEXAS 78130	City, State, Zip	NEW	BRAUNFELS, TX 78132
Phone#	830-643-4594	Phone #		(830) 905-2778
Email	n <b>m</b> buildersnb@gmail.com	Email	greg	gjohnsonpe@yahoo.com
All correspondence	ce should be sent to: Owner Agent	Both	Method:	Mail Email
Subdivision Name	e ROCKY CREEK RANCH Unit/Pha	ase/Section PHASE 8	Lot 2	230 Block
Acreage/Legal		-		
Street Name/Add	dress 2645 ROCKY RIDGE LOOP	City C	ANYON LAK	E Zip 78133
Type of Develop	ment:			
Single Family	Residential			- a = IV/ED
Type of Co	enstruction (House, Mobile, RV, Etc.)	HOUSE		RECEIVED
Number of	Bedrooms 3			FEB 01 2019
Indicate So	Ft of Living Area 1530			
			C	OUNTY ENGINEER
	or Institutional Facility rials must show adequate land area for doubling th	ne required land need		
Type of Fa	cility			
Offices, Fa	actories, Churches, Schools, Parks, Etc Ind	icate Number Of O	ccupants	
Restauran	ts, Lounges, Theaters - Indicate Number of S	eats		
Hotel, Mot	el, Hospital, Nursing Home - Indicate Number	r of Beds		
Travel Tra	iler/RV Parks - Indicate Number of Spaces			
Miscellane	ous			
Estimated Cost	of Construction: \$ 185,000 (Struct	ture Only)		
Is any portion of	the proposed OSSF located in the United Sta	ates Army Corps of	Engineers (U	ISACE) flowage easement?
Yes No	(if yes, owner must provide approval from USACE for	r proposed OSSF impro	ovements within	the USACE flowage easement)
Source of Water	Public Private Well			
	g Devices Being Utilized Within the Residence	e? X Yes N	0	
-Authorization is her site/soil evaluation -I also understand the by the Comal Coun	cation, I certify that: lication and all additional information submitted does no reby given to the permitting authority and designated ag and inspection of private sewage facilities. lat a permit of authorization to construct will not be issue ty Flood Damage Prevention Order. lent to the online posting/public release of my e-mail add	ents to enter upon the a	above described Administrator has	property for the purpose of sperformed the reviews required

195 David Jonas Dr., New Braunfeis, Texas 78132-3760 (830) 608-2090 Fax (830) 608-2078

Page I of 2 Revised July 2018

## \* \* \* COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH \* \* \*

### APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

Planning Materials & Site	Evaluation as Required Comp	leted By GREG	W. JOHNSON, P.E.	
System Description	PROPRIETARY; A	EROBIC TREATM	ENT AND SURFACE IRRIGA	TION
Size of Septic System Rec	quired Based on Planning Mate	erials & Soil Evalua	tion	
Tank Size(s) (Gallons)	SOLAR AIR SA600LP	Absorption/App	lication Area (Sq Ft)	4926
	TCEQ Table III) 240 5000 gallons per day are required		nrough TCEQ)	
Is the property located over	er the Edwards Recharge Zone	e? ☐ Yes ☒ No	0	RECEIVED
	s must be completed by a Registe		or Professional Engineer (P.E.))	FEB 01 2019
	approved WPAP for the prope I certify that the OSSF design com			COUNTY ENGINEE
(If yes, the R.S. or P. E. shall	AP, does the proposed develop I certify that the OSSF design will ed OSSF until the proposed WPAF	comply with all provis	sions of the proposed WPAP. A P	Yes No
Is the property located over	er the Edwards Contributing Zo	one? 🛛 Yes 🔲	No	
	approval CZP for the property certify that the OSSF design comp			
(if yes, the P.E. or R.S. shall	d, does the proposed developm certify that the OSSF design will co sed OSSF until the CZP has bee	omply with all provision	ons of the proposed CZP. A Permi	
Is this property within	an incorporated city?	∕es ⊠ No	E OF TO	
If yes, indicate the city	<i>;</i> :		GREG W. JOHNSON  67587  FGISTERED  FROM SONAL ENGINEERS  FROM SONA	
			FIRM	M #2585
	ertify that: nove is true and correct to the best online posting/public release of my		ciated with this permit application,	as applicable
19			ovember 15, 2018	
Signature of Designer		Date		Page 2 of 2

195 David Jonas Dr., New Braunfels, Texas 78132-3760 (830) 608-2090 Fax (830) 608-2078

## Greg W. Johnson, P.E.

170 Hollow Oak New Braunfels, Texas 78132 830/905-2778

November 15, 2018

Comal County Office of Environmental Health 195 David Jonas Drive New Braunfels, Texas 78132-3760

RE:

Septic Design

2645 ROCKY RIDGE LOOP

**ROCKY CREEK RANCH, PHASE 8, LOT 230** 

CANYON LAKE, TX 78133

**DRUGG RESIDENCE** 

FEB 01 2019
COUNTY ENGINEER

Ms. Ritzen/Hernandez,

Due to the lack of available application area it is necessary to have the setback from the property line to the spray at ten feet as required by TCEQ Chapter 285 rules Table X. I hereby request a variance to the twenty foot setback to property lines as required by Comal County Order and equivalent protection will be maintained by an existing battery backup to the timer clock to assure sprayers to only spray during the predawn hours. In my professional opinion this variance will not pose a threat to the environment or public health.

If I can be of further assistance please contact me.

Respectfully yours,

Greg W. (Johnson, P.E., F#2585

#### **AFFIDAVIT**



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# THE STA

THE COUNTY OF COMAL STATE OF TEXAS

## CERTIFICATION OF OSSF REQUIRING MAINTENANCE

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

I

The Texas Health and Safety Code, Chapter 366 authorizes the Texas Commission on Environmental Quality (TCEQ) 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 owner's 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.

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II

An OSSF requiring a maintenance contract, according to 30 Texas Administrative Code

§285.91(12) will be installed UNIT/HASE/SECTION				SUBDIVISION
F NOT IN SUBDIVISION:	ACREAGE			SURVEY
The property is owned by (in	sert owner's full nam	1e):	GRADY P. DRUGO	}
This OSSF must be covered the initial two-year service p residence shall either obtain personally.	olicy, the owner of an	aerobic treatme	ent system for a single fami	
Upon sale or transfer of the transferred to the buyer or no obtained from the Comal Comal Company of the Comal Company of the Comal Company of the Company o	ew owner. A copy of	the planning m		be
WITNESS BY HAND(S) ON	THIS 30 DAY OF	January	,20_1819	
& Grady P. Da	ac	GRADY P. I		
Owner(s) signature(s)	12	Owner (s) Prin	ted name (s)	7.

GRADY P. DRUGG

SWORN TO AND SUBSCRIBED BEFORE ME ON THIS DAY OF

Notary Public Signature

GREG W. JOHNSON
Notary Public, State of Texas
Comm. Expires 05-17-2022
Notary ID 124218310

(Notary Seal Here)

THIS AREA FOR COMAL COUNTY CLERK RECORDING PURPOSES ONLY

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
02/01/2019 01:18:11 PM
TERRI 1 Page(s)
201906003570

Bobbie Koepp

#### DAVID WINTERS SEPTICS, LLC **PO BOX 195**

### **SPRING BRANCH, TEXAS 78070** 830-935-2477 OFFICE 830-935-2470 FAX

## Routine Maintenance and Inspection Agreement

	830-935-2470 FAX	Pr
	winters3@gvtc.com	RECEIVED
	Routine Maintenance and Inspection Agreement  nent (hereinafter referred to as this "Agreement") is entered into by and between  (referred to as "Client") and David Winters Septics, LLC. Inc.  2645 ROCKY RIDGE LOOP / ROCKY CREEK RANCH, PH 8, LOT 230 Date beginning of the beginn	TER
This Work for Hire Agreer	nent (hereinafter referred to as this "Agreement") is entered into by and between	COLLAG
GRADY P. DRUGG	(referred to as "Client") and David Winters Septics, LLC. Inc.	(hereinafter referred to
as "Contractor") located at	2645 ROCKY RIDGE LOOP / ROCKY CREEK RANCH, PH 8, LOT 230 Date beginning	on LTO GIVE
and contract ending on	. By this Agreement the Contractor agrees to render professional ser	rvice, as described
herein, and the Client agree	es to fulfill the terms of this Agreement as described herein.	

This contract will provide for all required inspections, testing and service for your Aerobic Treatment System. The policy will include the following:

- 1. Three (6) inspections per year/service calls (at least one every four months), for a total of 6 over the two year period. Including inspection, adjustment and servicing of the mechanical, electrical and other applicable component parts to ensure proper function. This includes inspecting control panel, air pumps, air filters, diffuser operation, and replacing or repairing any component not found to be functioning correctly. Any alarm situations affecting the proper function of the Aerobic, process will be addressed within a 48 hour time frame. After the contract for the one year service agreement expires, work on the remaining warranty does not include labor prices. Repair work on non-warranty parts will include price for labor and parts. The prices will be quoted before work is performed.
- 2. An effluent quality inspection consisting of a visual check of color, turbidity, scum overflow and examination for odors. A test for chlorine residual and pH will be taken and reported as necessary.
- 3. If any improper operation is observed, which cannot be corrected at the time of the service visit, you will be notified immediately in writing of the conditions and estimated date of correction.
- 4. The Client is responsible for the chlorine tablets; they must be filled before or during the service visit.
- 5. Any additional visits, inspections or sample collection required by specific Municipalities, Water/River Authorities, and County Agencies the TCEO or any other authorized regulatory agency in your jurisdiction will be covered by this policy.

At the conclusion of the initial service policy, our company will make available, for purchase on an annual basis, a continuing service policy cover NORMAL inspection, maintenance and repair.

The Homeowners Manual must be strictly followed or warranties are subject invalidation. Pumping of sludge build up is not covered by this policy and will result in additional charges.

This agreement does not cover any labor or parts for items which must be replaced due to acts of God, ie, lightning strikes, high winds, flooding, freezing.

This agreement DOES NOT COVER materials or parts which must be replaced due to misuse or abuse of the system. These include but are not limited to: Sewage flows exceeding the recommended daily hydraulic design capabilities. Disposal of Non-Biodegradable materials, such as chemicals, grease or oil, sanitary napkins, tampons, baby wipes, disposable diapers. Clogs in the line between the house and the tank.

This agreement DOES NOT COVER LABOR OR PARTS for out of warranty items.

#### ACCESS BY CONTRACTOR

The contractor or anyone authorized by the contractor may enter the property at reasonable times without prior notice for the purpose of service described above.

PAYMENT FOR SERVICES

The client will pay compensation to the contractor for the be payable in one lump sum payment upon acceptance of described due date will be subject to a \$25.00 late penalty	services in the amount of This compensation shall this agreement. Payments not received within 30 days of the above .
TERMINATION OF THIS AGREEMENT Either party may terminate this agreement within 10 days accordance with its terms by other party without fault of t contractor will immediately notify the appropriate hea	alth authority.
LIMIT OF LIABILTY The Contractor will not be liable for indirect, consequents theory. In no event shall the Contractor's liability for direct agreement.  Permit #	ral, incidental or punitive damages, whether in contract or pay other ct damages exceed the price for the services described in the 01 2019  COUNTY ENGINEER
issued.	contract shall be the date the license to operate is
Owner	Contractor
GRADY P. DRUGG	David Winters Septics, LLC
Name 826 TIMBER DRIVE	PO Box 195
Address	Spring Branch, Texas 78070
NEW BRAUNFELS, TX 78130 City, State	Office #830-935-2477 - Fax # 830-935-2470
Signature of Home Owner	Signature of Contractor

## **ON-SITE SEWERAGE FACILITY** SOIL EVALUATION REPORT INFORMATION

Date Soil Survey Performed: November 14, 2018	
Site Location: ROCKY CREEK RANCH, PHASE 8, LOT 230	
Proposed Excavation Depth:N/A	RECEIVED
Requirements:	FEB 01 2019
At least two soil excavations must be performed on the site, at opposite ends of the proposed disposal area.	COUNTY ENGINEE
Locations of soil boring or dug pits must be shown on the site drawing.	ONTY ENO
For subsurface disposal, soil evaluations must be performed to a depth of at least two feet below the	GINEE
proposed excavation depth. For surface disposal, the surface horizon must be evaluated.	

Describe each soil horizon and identify any restrictive features on the form. Indicate depths where features appear.

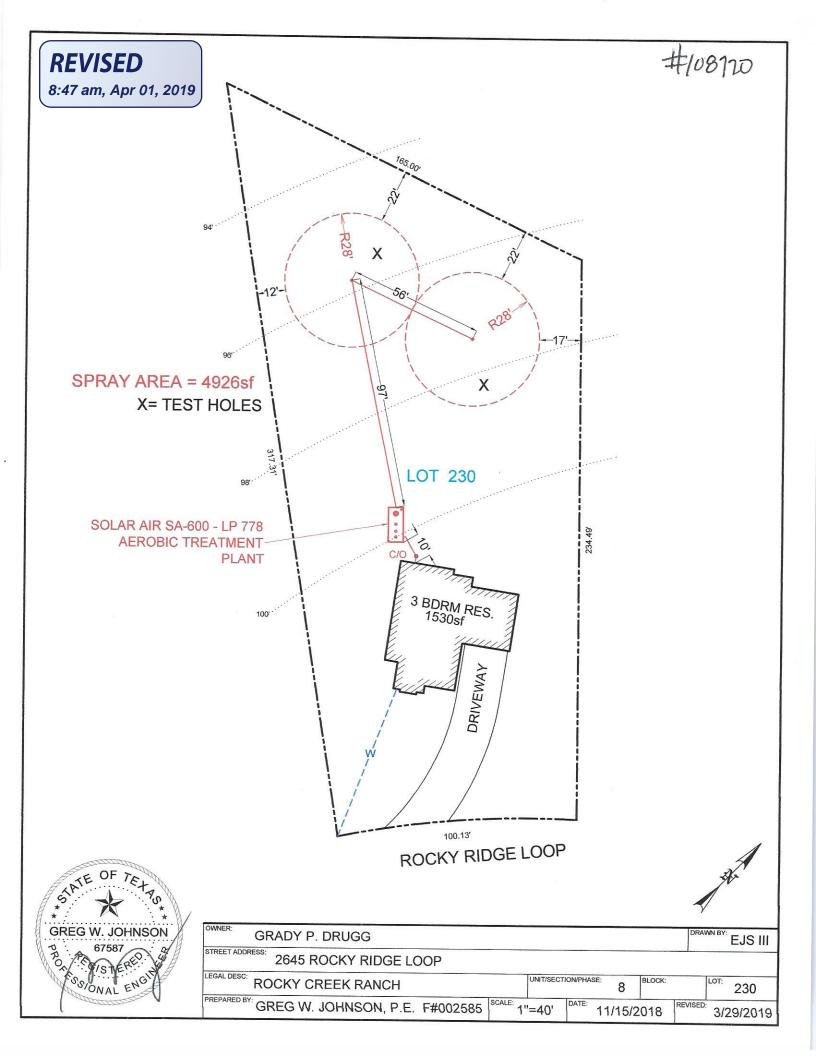
Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
1 12"	Ш	CLAY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 12"	BROWN
2						
3						
5						

SOIL BO	SOIL BORING NUMBER SURFACE EVALUATION					
Dept (Feet		Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0   1   2	SAME		AS		ABOVE	
3						
4 5					- 3	

I certify that the findings of this report are based on my field	l observations and are accurate to
the best of my ability.	
///	11114/13
	11/14/10
Greg W. Johnson, P.E. 67587-F2585, S.E. 11561	Date

## **OSSF SOIL EVALUATION REPORT INFORMATION**

Date: November 15, 2018	
Applicant Information:	
Sit	e Evaluator Information:
Name: GRADY P. DRUGG	ame: Greg W. Johnson, P.E., R.S., S.E. 11561
Address: 826 TIMBER DRIVE A	ddress: 170 Hollow Oak
City: NEW BRAUNFELS State: TEXAS C	ity: New Braunfels State: Texas
Zip Code:	ip Code: 78132 Phone & Fax (830)905-2778
Property Location:	Installer Information:
Lot 230 Unit 8 Blk Subd. ROCKY CREEK RANCH	
Street Address: 2645 ROCKY RIDGE LOOP	
City: CANYON LAKE Zip Code: 78133	Company: Address:
Additional Info.:	City:State:
1100101011011 1111000	Zip Code: Phone
Topography: Slope within proposed disposal area: 4	
Presence of 100 vr. Flood Zone:	RECEN
Existing or proposed water well in nearby area.	YESNO_X
Presence of adjacent ponds, streams, water impoundments	YES NO X YES NO X YES NO X YES NO X
Presence of upper water shed	YES NO X
Organized sewage service available to lot	YESNO_X YESNO_X COUNTY ENGINEE
	-NGINEE
Design Calculations for Aerobic Treatment with Spray	Irrigation:
Commercial	
Q = GPD	
Residential Water conserving fixtures to be utilized? Yes	X No
Number of Bedrooms the septic system is sized for: 3	
Q gal/day = (Bedrooms +1) * 75 GPD - (20% reduction for	
Q = (3 +1)*75-(20%) =	water competiting interesty
Trash Tank Size 376 Gal.	
TCEQ Approved Aerobic Plant Size 600 G.P.	D
	= 3750 sq. ft.
Application Area Utilized = 4926 sq. ft.	
	cket 0.5 HP 18 G.P.M. series or equivalent)
Dosing Cycle: ON DEMAND or X TIM	
Pump Tank Size = 778 Gal. 18.75 Gal/ii	
Reserve Requirement = 80 Gal. 1/3 day flow.	icn.
	- D
Alarms: Audible & Visual High Water Alarm & Visual Ai	r Pump mairunction
With Chlorinator NSF/TCEQ APPROVED SCH-40 or SDR-26 3" or 4" sewer line to tank	
Two way cleanout	
Pop-up rotary sprinkler heads w/ purple non-potable lids	
1" Sch-40 PVC discharge manifold	
APPLICATION AREA SHOULD BE SEEDED AND MAI	NTAINED WITH VEGETATION
I HAVE PERFORMED A THOROUGH INVESTIGATION BI	EING A REGISTERED PROFESSIONAL ENGINEER
AND SITE EVALUATOR IN ACCORDANCE WITH CHAPT	
(REGARDING RECHARGE FEATURES), TEXAS COM	MISSION OF ENVIRONMENTAL QUALITY
(EFFECTIVE DECEMBER 29, 2016)	E OF TE.
$\Lambda \sim 1$	TAN TOO
////	5/18 * CRECIN JOHNSON
CDEC W IONNEON DE PHONESE SE 115(1	GREG W. JOHNSON
GREG W. JONOSON, P.E. F#002585 - S.E. 11561 D.	ATE 67587 9: 2
	ON FGISTERE LE
	FIRM #2585
	Maria Salar



## TANK NOTES:

Tanks must be set to allow a minimum of 1/8" per foot fall from the residence.

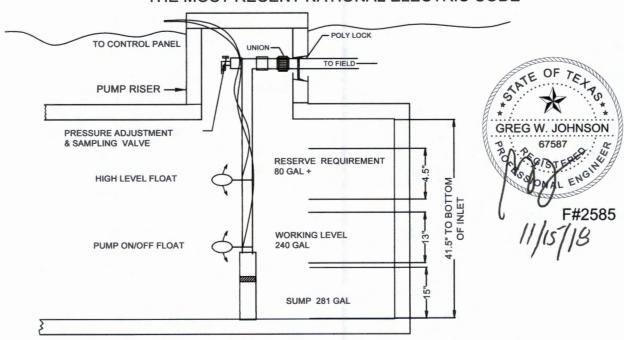
Tightlines to the tank shall be SCH-40 PVC.

A two way sanitary tee is required between residence and tank.

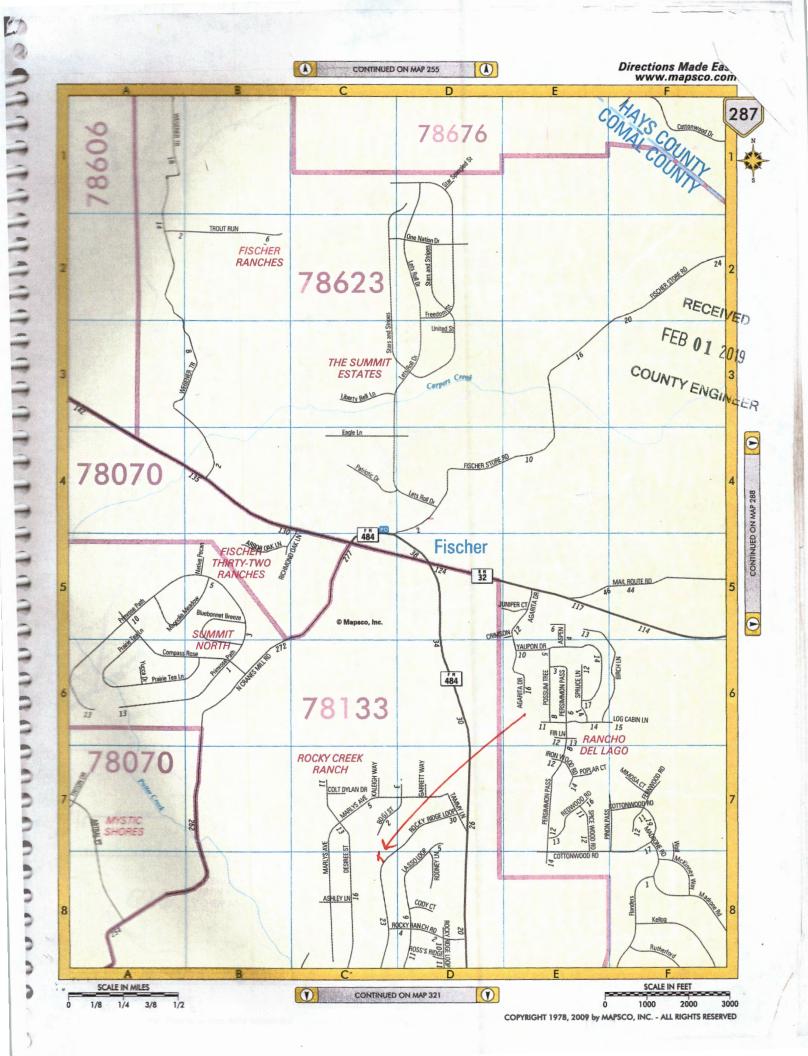
COUNTY ENGINEER A minimum of 4" of sand, sandy loam, clay loam free of rock shall be placed under and around tanks

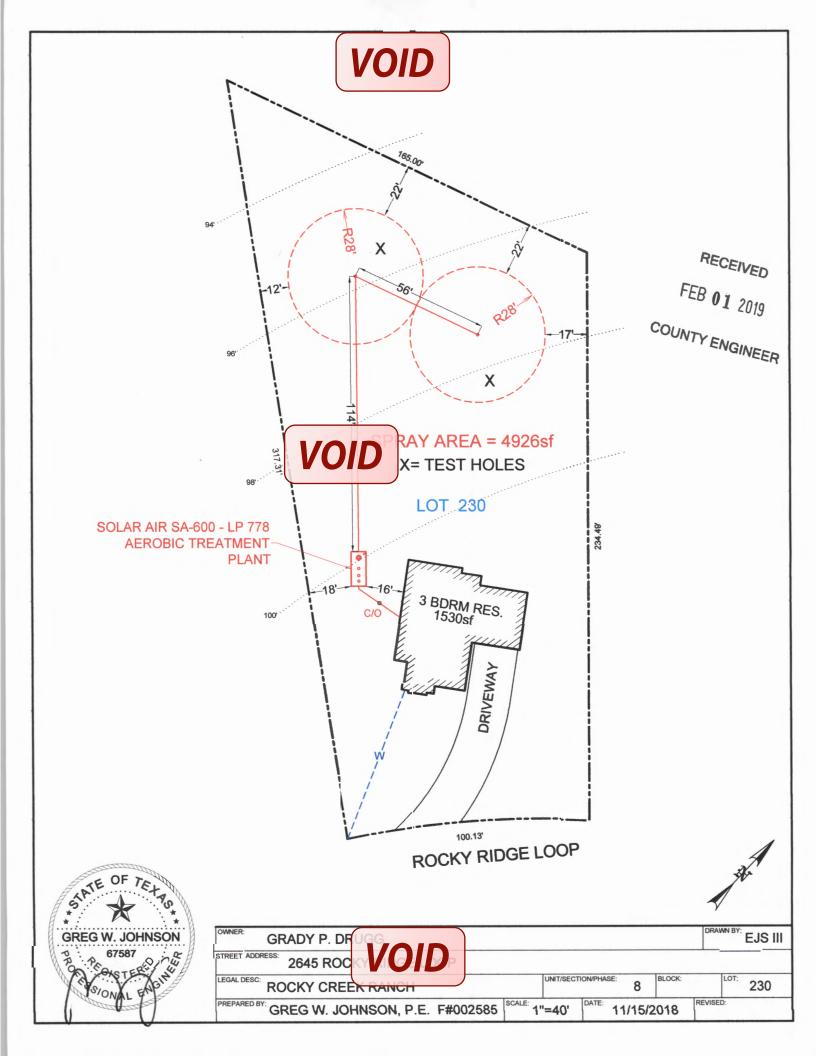
> ALL WIRING MUST BE IN COMPLIANCE WITH THE MOST RECENT NATIONAL ELECTRIC CODE

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TYPICAL PUMP TANK CONFIGURATION SOLAR-AIR SA-600 LP 778 GAL PUMP TANK







3/2

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

RECEIVED FEB 01 2010

## **EXECUTOR'S DEED**

Date:

February 22, 2018

Grantor: GRADY P. DRUGG Independent Administrator of the Estate of ELIZABETH JEAN FRANKLIN DRUGG BURCHAM, Deceased, Cause Number 2018PCB0033, in the County Court at Law of Comal County, Texas, Sitting in Matters Probate.

Grantee:

GRADY P. DRUGG, a single man

Grantee's Address:

646 Evergreen Lane
New Braunfels, Texas 78130

Consideration:

In accordance with the terms of the Last Will and Testament of ELIZABETH JEAN FRANKLIN DRUGG BURCHAM, Deceased, Cause Number 2018PCB0033, in the County Court at Law of Comal County, Texas, Sitting in Matters Probate

Property:

Lots 78 and 104 of RANCHO DEL LAGO, PHASE X, a subdivision in Comal County, Texas, according to the plat recorded in Volume 8, Pages 152-154 of the Map and Plat Records, Comal County, Texas.

Lots 131, 132 and 133 of RANCHO DEL LAGO, PHASE XII, a subdivision in Comal County, Texas, according to the plat recorded in Volume 8, Pages 293-295 of the Map and Plat Records, Comal County, Texas.

Lots 230, 245 and 246, ROCKY CREEK RANCH, PHASE 8, an addition in Comal County, Texas, according to the map or plat recorded in Volume 10, Page 60, Map and Plat Record of Comal County, Texas.

Reservations from and Exceptions to Conveyance:

All and singular, the restrictions, conditions, easements and covenants, if any, and mortgages applicable to and enforceable against the above described property as reflected by the records of the County Clerk of Comal County, Texas.

FEB 01 2019 COUNTY ENGINEER

Grantor, for the Consideration and subject to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty, grants and conveys to Grantee the Property, together with all and singular the rights and appurtenances thereto in any way belonging, to have and to hold it to Grantee and Grantee's heirs, successors, and assigns forever. Grantor binds Grantor and Grantor's heirs and successors to warrant and forever defend all and singular the Property to Grantee and Grantee's heirs, successors, and assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof when the claim is by, through, or under Grantor but not otherwise, except as to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty.

When the context requires, singular nouns and pronouns include the plural.

GRADY P. DRUGG, Independent
Administrator of the Estate of ELIZABETH
JEAN FRANKLIN DRUGG BURCHAM,
Deceased, Cause Number 2018PCB0033, in

the County Court at Law of Comal County,

Texas, Sitting in Matters Probate

STATE OF TEXAS COUNTY OF COMAL

800

This instrument was acknowledged before me on this the 22nd day of February, 2018, by GRADY P. DRUGG Independent Administrator of the Estate of ELIZABETH JEAN FRANKLIN DRUGG BURCHAM, Deceased, Cause Number 2018PCB0033, in the County Court at Law of Comal County, Texas, Sitting in Matters Probate.

STEVE D TAYLOR
Notary Public
STATE OF TEXAS
Notary ID#3405050
My Comm. Exp. April 20, 2021

otary Public, State of Texas

8946. deeds

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
02/23/2018 03:18:26 PM
JESSICA 3 Page(s)
201806006958

Cobbie Koepp

OSSF DEVELOPMENT APPLICATION CHECKLIST	Staff will complete shaded
	items Date Received initial
	Permit Number
Instructions:	REO
Place a check mark next to all items that apply. For items that do not apply, place "Napplication Checklist must accompany the completed application.	FEN O
OSSF Permit	COUNTY 2019
OSSF Permit  Completed Application for Permit for Authorization to Construct an On-Operate	Site Sewage Facility and License to
Site/Soil Evaluation Completed by a Certified Site Evaluator or a Profe	ssional Engineer
Planning Materials of the OSSF as Required by the TCEQ Rules for O shall consist of a scaled design and all system specifications.	SSF Chapter 285. Planning Materials
Required Permit Fee	
Copy of Recorded Deed	
Surface Application/Aerobic Treatment System	
Recorded Certification of OSSF Requiring Maintenance/Affidavit	to the Public
Signed Maintenance Contract with Effective Date as Issuance of	License to Operate
I affirm that I have provided all information required for my OSSF Development constitutes a completed OSSF Development Application.	Application and that this application
	02/01/19
Signature of Applicant	ι (Date
COMPLETE APPLICATIONINCOM	IPLETE APPLICATION
Check No Receipt No (Missing Ite	ms Circled, Application Refused)