Installer Name:	OSSF Installer #:	
1st Inspection Date:	2nd Inspection Date:	3rd Inspection Date:
Inspector Name:	Inspector Name:	Inspector Name:

Perm	it#:		Address:				
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
1	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	SITE AND SOIL CONDITIONS & SETBACK DISTANCES Setback Distances Meet Minimum Standards		285.91(10) 285.30(b)(4) 285.31(d)				
3	SEWER PIPE Proper Type Pipe from Structure to Disposal System (Cast Iron, Ductile Iron, Sch. 40, SDR 26)		285.32(a)(1)				
4	SEWER PIPE Slope from the Sewer to the Tank at least 1/8 Inch Per Foot		285.32(a)(3)				
5	SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends)		285.32(a)(5)				
6	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)(G)(i) 285.32(b)(1)(C)(ii) 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)				
7	PRETREATMENT Grease Interceptors if required for commercial		285.34(d)				

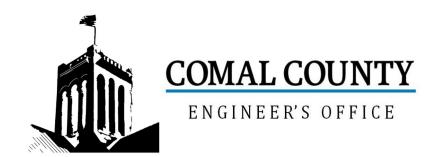
**Inspector Notes:** 

AL.	Di-si	Δ	Citation	N-4	1,41,	2	2
No.	Description SEPTIC TANK Tank(s) Clearly	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
8	Marked SEPTIC TANK If SingleTank, 2Compartments Provided withBaffle SEPTIC TANK Inlet Flowline Greater than3" and "T" Provided on Inlet and OutletSEPTIC TANK Septic Tank(s) MeetMinimum 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)(ii) (I)285.32(b)(1)(E) (i)285.32(b)(1)(E) (i)285.32(b)(1) (D)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)(E)(iv)				
9	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 providedSEPTIC TANK Riser permanently fastened to lid or cast into tank SEPTIC TANK Riser cap protected against unauthorized intrusions		285.38(d) 285.38(e)				
	SEPTIC TANK Tank Volume						
12	Installed						
	PUMP TANK Volume Installed						
13	AEROBIC TREATMENT UNIT Size						
14							
15	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number						
16	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
17	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	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
19	DISPOSAL SYSTEM Drip Irrigation		285.33(c)(3)(A)-(F)				
20	DISPOSAL SYSTEM Soil Substitution		285.33(d)(4)				
	DISPOSAL SYSTEM Pumped Effluent		285.33(a)(4) 285.33(a)(3) 285.33(a)(1) 285.33(a)(2)				
22	DISPOSAL SYSTEM Gravelless Pipe		285.33(a)(3) 285.33(a)(2) 285.33(a)(4) 285.33(a)(1)				
	DISPOSAL SYSTEM Mound		285.33(a)(3) 285.33(a)(1) 285.33(a)(2) 285.33(a)(4)				
24	DISPOSAL SYSTEM Other (describe) (Approved Design)		285.33(d)(6) 285.33(c)(4)				
	DRAINFIELD Absorptive Drainline 3" PVC or 4" PVC						
26	DRAINFIELD Area Installed						
27	DRAINFIELD Level to within 1 inch per 25 feet and within 3 inches over entire excavation		285.33(b)(1)(A)(v)				
	DRAINFIELD Excavation Width DRAINFIELD Excavation Depth DRAINFIELD Excavation Separation DRAINFIELD Depth of Porous Media DRAINFIELD Type of Porous Media						
	DRAINFIELD Pipe and Gravel - Geotextile Fabric in Place		285.33(b)(1)(E)				
	DRAINFIELD Leaching Chambers DRAINFIELD Chambers - Open End Plates w/Splash Plate, Inspection Port & Closed End Plates in Place (per manufacturers spec.)		285.33(c)(2)				
31	LOW PRESSURE DISPOSAL SYSTEM Adequate Trench Length & Width, and Adequate Separation Distance between Trenches		285.33(d)(1)(C)(i)				

				- T		I	I
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
32	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.						
	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						
37	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						
38	PUMP TANK Secondary restraint system provided PUMP TANK Electrical						
	Connections in Approved Junction Boxes / Wiring Buried						

				-			
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple?		285.33(d)(2)(G)(iii)(II) 285.33(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)(iii) 285.33(d)(2)(G)(iii)(I)				
	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)				
	APPLICATION AREA Area Installed						
	PUMP TANK Meets Minimum Reserve Capacity Requirements						
	PUMP TANK Material Type & Manufacturer						
	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: 118165

Issued This Date: 01/08/2025

This permit is hereby given to: Midcentury Custom Homes, LLC

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

1752 DEMI JOHN BEND RD CANYON LAKE, TX 78133

Subdivision: Paradise on the Guadalupe

Unit: 1

Lot: 12 Block: NA

Acreage: 1.3500

#### 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.



### ON-SITE SEWAGE FACILITY APPLICATION



WWW.CCEO.ORG

Date /2/6/2	002		Permit Number_	118165
1. APPLICANT / A	GENT INFORMATION		Torra	SIMPSON
Owner Name	MIDCENTURY CUSTOM HOMES, LLC	Agent Name	GREG W. JO	HINSON, P.E.
Mailing Address	c/o 23011 FM 306	Agent Address	170 Holl	low Oak
	Canyon Lake, TX 78133	City, State, Zip	New Braunf	els, TX 78132
Phone #	830-935-4936	Phone #	830-90	)5-2778
Email	katelyn@psseptics.com	Email	gregjohnsonp	e@yahoo.com
2. LOCATION				
Subdivision Name	PARADISE ON THE GUADALUPE	Unit	Lot	12 Block
Survey Name / Abs			/	Acreage
		City NEW BRAUNE	ELS State	TX Zip 78130
3. TYPE OF DEVE				
X Single Family				
	struction (House, Mobile, RV, Etc.) HOUSI	E +DETACHED L	IVING	
Number of B				
	Ft of Living Area 2803+508			
	amily Residential			
/Planning mate	erials must show adequate land area for doubling the	required land needed	for treatment units	and disposal area)
	lity			
	ories, Churches, Schools, Parks, Etc Indicate		nts	
	Lounges, Theaters - Indicate Number of Seats			
	Hospital, Nursing Home - Indicate Number of E			
	is			
Miscellaneou				
- · · · · · · · · · · · · · · · · · · ·	scorptions 500 000 (S	tructure Only)		
Estimated Cost of	f Construction: \$ 500,000 (State proposed OSSF located in the United State		ineers (USACE	) flowage easement?
is any portion of t	(If yes, owner must provide approval from USACE for p	ronosed OSSE improvem	ents within the USA	CE flowage easement)
harmed harmed		noposed Goo. Improve.	100 mm	
	Public Private Well			
, SIGNATURE OF				
By signing this application The completed applications. I certify that I a	ation, I certify that: cation and all additional information submitted does am the property owner or I possess the appropriate	not contain any false in land rights necessary to	nformation and do to make the permit	es not conceal any material ted improvements on said
nikalanil mushumkian a	by given to the permitting authority and designated and inspection of private sewage facilities			
<ul> <li>I understand that a p</li> <li>by the Comal Count</li> </ul>	permit of authorization to construct will not be issued y Flood Damage Prevention Order.	until the Floodplain Ad		
- 1 affirmatively conset	to the online posting/public release of my e-mail a			ation, as applicable.
1 Michae		12/12/2	.024	
Signature of Own	eff2	Date		Page 1 of



### **ON-SITE SEWAGE FACILITY APPLICATION**



Planning Materials & Site Evaluation as Required Completed By [	DANUEL GONZALEZ, R.S. 5385, S.E. OS0038056
System Description AEROBIC SURFACE APPLICATION	
Size of Septic System Required Based on Planning Materials & So	oil Evaluation
Tank Size(s) (Gallons) 750 GPD Ab	osorption/Application Area (Sq Ft) <u>5,655</u>
Gallons Per Day (As Per TCEQ Table III) 360 GPD	
(Sites generating more than 5000 gallons per day are required to obtain a	permit through TCEQ.)
Is the property located over the Edwards Recharge Zone?  Ye	es 🔀 No
(If yes, the planning materials must be completed by a Registered Sanitar	rian (R.S.) or Professional Engineer (P.E.))
Is there an existing TCEQ approved WPAP for the property?	Yes 🔀 No
(If yes, the R.S. or P.E. shall certify that the OSSF design complies with a	Il provisions of the existing WPAP.)
Is there at least one acre per single family dwelling as per 285.40(	c)(1)? 🔀 Yes 🗌 No
If there is no existing WPAP, does the proposed development activ	vity require a TCEQ approved WPAP? 🔲 Yes 🔀 No
(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with be issued for the proposed OSSF until the proposed WPAP has been app	
Is the property located over the Edwards Contributing Zone?	Yes No
Is the property located over the Edwards Contributing Zone?   Is there an existing TCEQ approval CZP for the property?   Yes	
	es 🔀 No
Is there an existing TCEQ approval CZP for the property?	es X No Ill provisions of the existing CZP.)
Is there an existing TCEQ approval CZP for the property?  Ye (If yes, the P.E. or R.S. shall certify that the OSSF design complies with a	es No  Ill provisions of the existing CZP.)  y require a TCEQ approved CZP? Yes No  all provisions of the proposed CZP. A Permit to Construct will not be
Is there an existing TCEQ approval CZP for the property? Yee (If yes, the P.E. or R.S. shall certify that the OSSF design complies with a lift there is no existing CZP, does the proposed development activit (If yes, the R.S. or P.E. shall certify that the OSSF design will comply with	es No  Ill provisions of the existing CZP.)  y require a TCEQ approved CZP? Yes No  all provisions of the proposed CZP. A Permit to Construct will not be
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#### **AFFIDAVIT**

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.

T

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.

II

An OSSF requiring a maintenance contract, according to 30 Texas Administrative Code §285.91(12) will be installed on the property described as (insert legal description):

The property is owned by (insert owner's full name): MIDCENTURY CUSTOM HOMES, LLC  This OSSF must be covered by a continuous maintenance contract 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 30 days or maintain the system personally.  Upon sale or transfer of the above-described property, the permit for the OSSF shall be transferred to the buyer or new owner. A copy of the planning materials for the OSSF can be obtained from the Comal County Engineer's Office.  WITNESS BY HAND(S) ON THIS DAY OF
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1 Michael Wray - Ma.(ACET)
J. Michael, May . May 2012
Owner (s) Printed name (s)
MICHAEL WYOU SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 6 DAY OF
THIS AREA FOR COMAL COUNTY CLERK RECORDING PURPOSES ONLY
Notary Public Signature Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
04/11/2022 12:45:03 PM  I A LIDA 1 Pages(s)
13 Notary Public, State of Townell   DAUTA 1 1 2865(5)
Comm. Expires 03-27-2024 202206016845 Notery ID 132419024
Bobbie Koepp

Docusign Envelope ID: D8231DD5-3805-4F75-A3CF-C679572F21A8

# Septic Maintenance & Monitoring by

## **LibertyHillTX Septic & Excavation**

PO Box 1143 or 925 Main Street Liberty Hill, TX 78642 (512) 818-6547



lhtxseptics.excavation@gmail.com

Website: LibertyHillSeptic.com

### Service Agreement

Prope	rty Owner:	Pacific RBFL reo llc	
Prope	rty Address:	1752 Demi John Bend	
City:	New Braunfe	Valentine@lynkcapital.com elsEmail:	
Count	y: Comal		
Install	Barton	n Simpson	
Desig	greg J	Johnson	
Syste	m:AA800	0 Spray	
Contr	act Start Da	ate: Contract End Date:	
OSSF	Permit #:	118165	
	above.The O of final inspec	agreement is for the On-Site Sewage Facility (OSSF) located at the address listed OSSF is to be inspected and serviced at regular intervals for the first two years from the ection by a licensed provider per TCEQ and/or Regulatory Authority. This agreement d in accordance with the State of Texas.	
		ontract is for 2 years from the date of final septic system inspection. Installer is respons ship and 2 year warranty on all parts and labor.	sible
1	Year Plan (3	3 Aerobic Inspections done every 4 months)	
2	2 Year Plan (6	S Aerobic Inspections done every 4 months)	

### Service Program Includes

- 1. Routine maintenance at 4-month intervals for residential septic systems in accordance with TCEQ and/or Regulatory Authority.
- 2. OSSF Maintenance-check aerator components for proper operation, control panel, effluent pump, spray head/drip nozzle, check proprietary specific components, other pumps, check and clean any filters, all valves. Flush drain field if needed.
- 3. Visual inspection of control panel when accessible.
- 4. Labor expenses required at the home to maintain/service, repair or remove, any part of the control center or mechanical aerator to be returned for factory repair.
- 5. All maintenance reports will be emailed to the permitting authority and customer within 14 days.
- 6. Client will be given notification of arrival of contractor to the site to person on location and/or by written notification left onsite
- 7. In no event shall the contractor be liable for indirect, consequential, incidental or punitive damages, whether in contract tort or any other theory. In no event shall the contractor's liability for direct damages exceed the price for the services described in this agreement..
- 8. When client requests an unscheduled service visit, the contractor will respond within 2 business days or less. It is the contractors goal to respond to malfunctioning systems asap to prevent any downtime in functionality of the OSSF that results any inconvenience to the client. The unscheduled service visits are billable events that are an addition to the fee for the service agreement.

#### **Customer Responsibilities**

- 1. Provide and maintain proper level of tablets or liquid chlorinator if the system is equipped with a chlorinator.
- 2. Perform all necessary yard/lawn maintenance needed to ensure proper functioning of the OSSFand to allow contractor adequate access to all components of the system as well as maintaining adequate site drainage so as not to impact the proper operation of the OSSF.
- 3. Immediately notify contractor of any problems with the OSSF
- 4. Upon receiving notification of needed repairs to OSSF, it is the clients responsibility to schedule repairs with contractor. If the client chooses another service provider for repairs, it becomes their responsibility to ensure that they are an licensed installer II and that the repair details are reported to the regulatory authority within 72hrs.
- 5. Agrees to provide water usage history to contractor in evaluating of OSSF performance.
- 6. Pump the tanks at clients expense as needed. Contractor can assist client in determining when pumping is required.
- 7. Agrees to pay contractor bills whether it is the service agreement or an unscheduled service request. Payment is due at the completion of work. Bills are considered late and are subject to a 10% increase carrying fee after 30 days.
- 8. BOD or TSS grab samples (additional charge if needed)
- 9. Agrees to never modify or alter any component of the OSSF
- 10. Customer agrees to provide contractor access to the OSSF. Gate code shall be provided to gain access or personal representative will be present.
- 11. If dogs or any other animals are on the property and are contained within any components of the OSSF, client must ensure animals aren't a threat.

Bon

Barton Simpson, Certified Technician MP # 002688 Installer II # 0029838

	DocuSigned by:	207-522-1000
Homeowner Signature_	07BAAD000387430	Phone:

\*Contract isn't binding until paid in full.

This Agreement constitutes the entire agreement between the customer and contractor and there are no other promises or conditions in any other agreement, oral or written regarding maintenance of the OSSF on this property. This agreement shall be construed in accordance with the State of Texas.

#### Transfer of this Agreement

Upon transfer of ownership of this property in this agreement, payments to contractor from customer are transferable, however, this service agreement is not. Any subsequent owner must contact the contractor so that a new contract may be initiated. This contract will automatically renew. Contractor must be notified 30 days before renewal date of cancellation. This must be done in less than 30 days from the transfer of ownership of the property. Contractor will pro-rate funds received from the previous owner less any outstanding bills due from previous owner.

#### <u>Severability</u>

If any provision in this agreement shall be held to be invalid or unenforceable for any reason, the remaining provisions shall continue to be valid and enforceable. If a court finds that any provision of this agreement is invalid or unenforceable but that by limiting such provision it would become valid and enforceable then such provision shall be deemed to be written, construed, and enforced as so limited.

#### Termination of this Agreement

This agreement can be terminated by either party with 30 days written notice in the event of substantial failure to perform in accordance with its terms by the other party without fault of the terminating party. The terminating party will immediately contact the other party in writing as well as the regulatory authority. It will then be the client's responsibility to contract with another Maintenance Provider for the service contract required by law.

# THE COUNTY OF COMAL STATE OF TEXAS

## CERTIFICATION OF SINGLE FAMILY DWELLING

According to Texas Commission of Environmental Quality Rules for On-Site Sewage Facilities, this document is filed in the Deed Records of COMAL COUNTY, TEXAS.

Before me this day appeared I , being the owners of the referenced property at 1752 DEMI JOHN BEND RD They further state that the Residence and any additional living space on this property will be occupied only by a single family.
living space on this property will be occupied only by a single family.
An OSSF requiring a Certification of Single Family Dwelling, will be installed on the property described as:
1 UNITBLOCK 12 LOT PARADISE ON THE GUADALUPE SUBDIVISION
IF NOT IN SUBDIVISION: ACREAGE SURVEY
The property is owned byMIDCENTURY CUSTOM HOMES, LLC, a Texas limited liability company  WITNESS MY HAND ON THIS OF DAY OF APY  , 20_28
OWNER (SIGNATURE)
SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 11 DAY OF April , 20 20 BY
OWNER NAME (PRINTED)  Notary Public Signature  KAYLA MARIE PASCHALL Notary Public, State of Texas Comm. Expires 03-27-2024 Notary ID 132419024

### **OSSF SOIL EVALUATION**

**REVISED**12:40 pm, Apr 17, 2025

Date Performed:	4/4/2025	12:40 p	III, Apr 17, 2025
Property Location: 1	752 Demi John Bend Road, Canyon Lake, TX 78133	Proposed Excavation Depth:	0" (Native Grade)
Name of Site Evaluat	tor: Danuel Gonzalez, R.S.	License Number:	OS0038056

#### Requirements:

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

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

Soil Boring Nu	Soil Boring Number:					
Depth (Inches)	Textural Class	Structure (If applicable)	Drainage (Mottles/Water Table)	Restrictive Horizon	Observations	
0"	Class IV	Clay				
12" 24"			None observed	Limestone @ 6"	Class IV to 6""; Gravel content <30%;	
36"					Topograhpy <15% NW	
48"						
60"						

Soil Boring No	umber:				
Depth (Inches)	Textural Class	Structure (If applicable)	Drainage (Mottles/Water Table)	Restrictive Horizon	Observations
0"	Class IV	Clay to 6"			
12"					
24"				Limestone @ 6"	Class IV to 6"; Gravel content <30%;
36"			None observed		Topograhpy <15% NW
48"					
60"					

I a south the state of the allowing	af this are and are becaused	and the first of a few and the few and a		In a set set seem as hellite a
I certify that the findings (	of this report are based	on my field observations and	are accurate to the	pest of my ability

Site Evaluator:

Maine. Dander Conzaicz, N.C. Signature.	Name: Danuel Gonzalez, R.S.	Signature:	Danuel Gonzalez	License No.:	OS0038056
---	-----------------------------	------------	-----------------	--------------	-----------

DATE: 4/15/2025  Applicant Information: Name: Pacific RBLF REO LLC  Address: 1752 Demi John Bend Rd  City: Canyon Lake  Zip Code: 78133 Phone:  Property Location: Lot: 12 Block: Subd  County: Comal Unincorpora	REVISED  12:40 pm, Apr 17, 2025  State: Fax:  Paradise on the ivision: Guadalupe ated Area? Y N	Name: Danuel G  Address: 2714 Red Li  City: San Antonio	onzalez, R.S.  on Ct.  State: TX  e: 815-713-7798 Fax:
City: Exc Canyon Lake Z  Additional Information:  Legal Description: Paradise on the Guadalupe	ip Code: 78133	City: <u>Liberty Hill</u> Zip Code: <u>78642</u> Phone	State: e: 5 <u>12-818-654</u> 7 Fax:
	Schematic of L	ot or Tract	
Show: Compass North, adjacent streets, property lines, proknown. Location of existing or proposed water wells within a Indicate slope or provide contour lines from the stru Location of soil borings or dug pits (show location w Location of natural, constructed, or proposed draina bank, sharp slopes and breaks.  Lot size (acres): 11.02 1.35  Show Compass	150 feet of property. cture to the farthest location of th rith respect to a known reference	e proposed soil absorption or irrigation point). , rivers, high tide of salt water bodies.  WING	on area.
North	See Attached Sca	ıle Drawing	
Site	is NOT within the bour	ndaries of the EARZ	
Based on this site evaluation, the following systems	may be utilized:	☑ SURFA	ACE IRRIGATION R
✓	Features of S	Site Area	
Presence of 100 year flood zone Presence of upper water shed Presence of adjacent ponds, stre Existing or proposed water well ir Organized sewage service availa EARZ features within 150' of OSS Evidence of groundwater	ams, water impoundments n nearby area ble to lot or tract	Yes	No
Site Evaluator:	ture: <u>Dansuncles</u>	בכל א ב מעוז	II. N
Name: <u>Danuel Gonzalez, R.S.</u> Signa	ture: <u>UMBANDENGE</u>	JEAN ZINCZ	License No.: OS0038056



To:
Comal County Engineer's Office
OSSF Department
195 David Jonas Dr
New Braunfels, TX 78132

Subject: Variance Request – OSSF Spray Head Setback (10 ft)

Dear OSSF Reviewer,

I am requesting a variance to allow spray heads for my aerobic on-site sewage facility (OSSF) to be located 10 feet from the property line, in lieu of the standard 25-foot setback required under Comal County OSSF regulations.

Due to physical site constraints, meeting the full setback requirement is not feasible. However, the system will incorporate enhanced safeguards to ensure proper containment and safe operation, including:

- Low-angle spray nozzles (13° or less) aimed inward to prevent overspray
- No effluent discharge beyond property boundaries
- Battery backup for the spray system timer to ensure all spray events occur only between midnight and 5:00 AM, reducing exposure and wind drift risk
- A vegetative buffer consisting of drought-tolerant, densely planted native shrubs (e.g., Texas sage, yaupon holly) along the property line to absorb residual mist and act as a physical barrier
- A low earthen berm (6–12 inches high) along the edge of the spray area to contain runoff and guide effluent inward
- Routine service under contract with a licensed OSSF maintenance provider

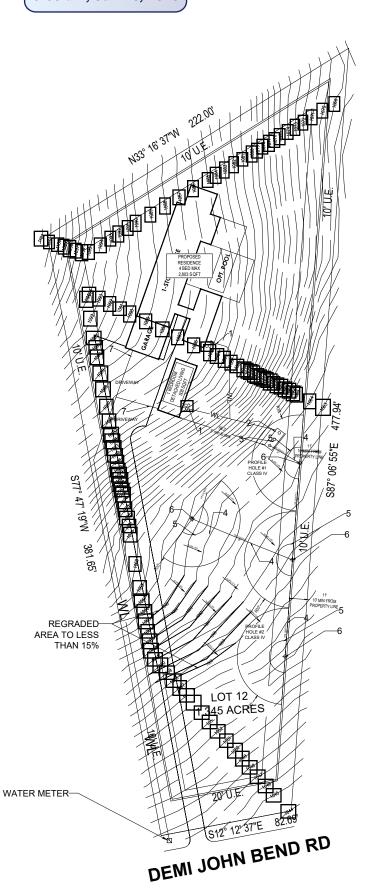
A site plan, spray pattern layout, and system specifications are attached in support of this request. These proposed measures offer equal or greater protection to public health and the environment than current setback standards.

Thank you for your consideration. Please feel free to contact me if any further information is required.

Sincerely,

Danuel Gonzalez, R.S. #5385

9:09 am, Jun 26, 2025



#### USE HYDROMULCHING REVEGETATION METHOD AROUND SPRAY AREA

- HYDROMULCHING METHOD ADDS A FIBRE-MULCH TO THE MIXTURE OF SEED, FERTILISER, AND WATER. THE MULCH ESSENTIALLY PROVIDES A SAFEGUARD FOR THE SEED, HELPING IT RETAIN MOISTURE FOR FASTER GERMINATION AND GROWTH, WHILE PROTECTING THE SOIL FROM EROSION AND THE SEEDS FROM WASHING AWAY IN THE RAIN. THESE ORGANIC MULCH FIBRES ARE DESIGNED TO DEGRADE OVER SEVERAL MONTHS, MAKING WAY FOR VEGETATION GROWTH TO FSTABI ISH
- HYDROMULCH WILL KEEP THE SOIL IN PLACE AND DETER ANY FURTHER EROSION FROM HAPPENING SO THAT THE SITE REMAINS INTACT. HYDROMULCH OF LARGE AREAS IN NEW CONSTRUCTION, RECENTLY COMPLETED CONSTRUCTION, AND AREAS THAT HAVE BEEN BURNED OR TILLED FOR RECONSTRUCTION WILL BE TREATED WITH HYDROMULCH.

#### Additional Information

- Curlex shall be used for stabilizing over the imported soils for the entire field or a vegetative cover is to be use to cover all drain fields prior to final inspection being passed, if field area is greater than 10% slope.
- Any future potable water line, such as swimming pool, irrigation etc must maintain 10' separation to any ossf component.

#### Disposal Field Finish:

- The sprinkler system area shall be located in a relatively open area at least 100' away from any well and 10' from any property lines. Spray heads must be10' from any obstacle.
- The field area may have to be amended to create a slope of 15% or less, any exposed rock shall be removed or covered prior to operation with 4" suitable soil.
- The field shall be maintained at all times (mowed)

			ļ		
	COMPONENTS SCHEDULE				
I	3" or 4" SCH 40 W/ 2 WAY CLEANOUT \$ SCREW PLUG MIN   1" FALL PER 1"	SEE SITE PLAN	3		
2	AA750-4290 (750 GPD) ATU	SEE DETAIL			
3	CHLORINATOR	SEE DETAIL	١		
4	I " SCH-40 PVC PURPLE PIPE (USE SCH-40 SLEEVE UNDER ANY IMPROVEMENTS)	SEE SITE PLAN	t		
5	I O' RADIUS TO A TREE	SEE SITE PLAN	N E		
6	30' RADIUS K-RAIN PROPLUS I 1003 RCW #4 NOZZLE (180º)	SEE SITE PLAN	9		
7	WATER LINE INTO HOME	SEE SITE PLAN	3		

#### **OSSF DESIGN**

Proposed system information:

The design is for a single family home and casita (w/ no kitchen) that is: 4 bedrooms at 2,803 sqft and 1 bedroom at 508 sqft = total 5 bedrooms at 3,311 sqft Total Q = **360 GPD** Gallons per day using water saving devices.

#### Field Disposal Calculations:

The designed load for this system is 360 GPD.

#### Spray Irrigation:

- Required Field Area: 360 ÷ 0.064 = 5,625 sq. ft. minimum field area
- Provided Field Area: 5,654.87 sq. ft.

#### Sprinkler Heads:

- Number of Heads: 4 (30' Radius @ 180-degree angle.)
- Coverage Area per Head: 1,413.72 sq. ft.
- Sprinkler Setting: 30 PSI, utilizing a 30' radius
- Minimum Spacing of Heads: (refer to site plan)
- Flow (GPM) per Field: (4 x 3.4) GPM = 13.6 GPM

#### **Total Daily Irrigation Time:**

- 360 GPD ÷ 13.6 GPM = 26.47 minutes/day
- Set timer for 30 minutes starting at 2 AM

#### OSSF DESIGN PROVISIONS

Table IX. OSSF System Designation of the Texas Administrative Code, which is part of Chapter 285 of the On-Site Sewage Facility (OSSF) Rules, specifies the design standards for sewage disposal systems. This section notes that a professional engineer, registered sanitarian is required for the design of Surface Application systems and its planning materials provided that it meets all requirements outlined in the rules.

This design fulfills all the criteria for the design and installation of this system, encompassing aspects such as soil analysis, system sizing, and component placement, among others. The regulations provide comprehensive guidelines and specifications for the design and installation of this system. This OSSF design meets and exceeds the minimum state requirements for OSSF as of June 14, 2023.

The installer must be licensed by the State of Texas and have the governing authority to inspect the system at the required construction and inspection intervals.

#### This site lies in the FEMA floodplain 48091C0090F FIRM effective 9/2/2009

Criteria for Surface Application systems:

This is an aerobic pre-treatment/chlorination system with a surface application effluent disposal on this site. The aerobic unit must be NSF approved and meet all state and local requirements for effluent quality.

#### **Design Principles:**

Primary treatment of effluent will be accomplished using a NSF approved aerobic treatment unit. Treated effluent will then be distributed evenly over the disposal field area at night. Surface application will be the method of effluent dispersal and disposal. The surface soil conditions for this site are adequate to support vegetation growth.

#### Soil Analysis:

Class IV

#### Note:

all piping shall be bedded with four inches class ib, class ii or, class iii soil with less than 30% gravel. the bedding soil shall be free of organic material and any rocks or grains larger than half inch.

all property lines and property pins must be verified prior to septic  $\prime$  ossf installation.

Minimum Required Separation Distances for OSSF

Building foundation to sewage treatment tank: 5 Feet

Soil absorption trench to groundwater: 3 Feet

Soil absorption system or sewer pipe to property lines: 5 Feet Soil absorption system or sewer pipe to water-lines: 10 Feet

Soil absorption system to public utility easements: 1 Feet



Project

1752 Demi John Bend Road

OUTSKIRTS SEPTIC DESIGNS

06/09/2025

Design by

DANUEL GONZALEZ



Owner

PACIFIC RBLF REO LLC

Address

1752 DEMI JOHN BEND ROAD CANYON LAKE, TX 78133 COMAL COUNTY

Property ID

R447873

Legal

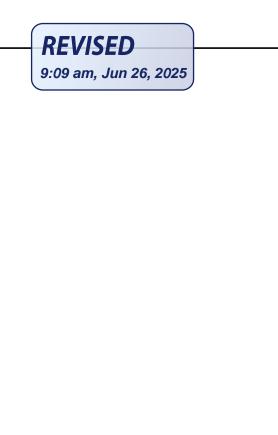
PARADISE ON THE GUADALUPE LOT 12 UNIT 1

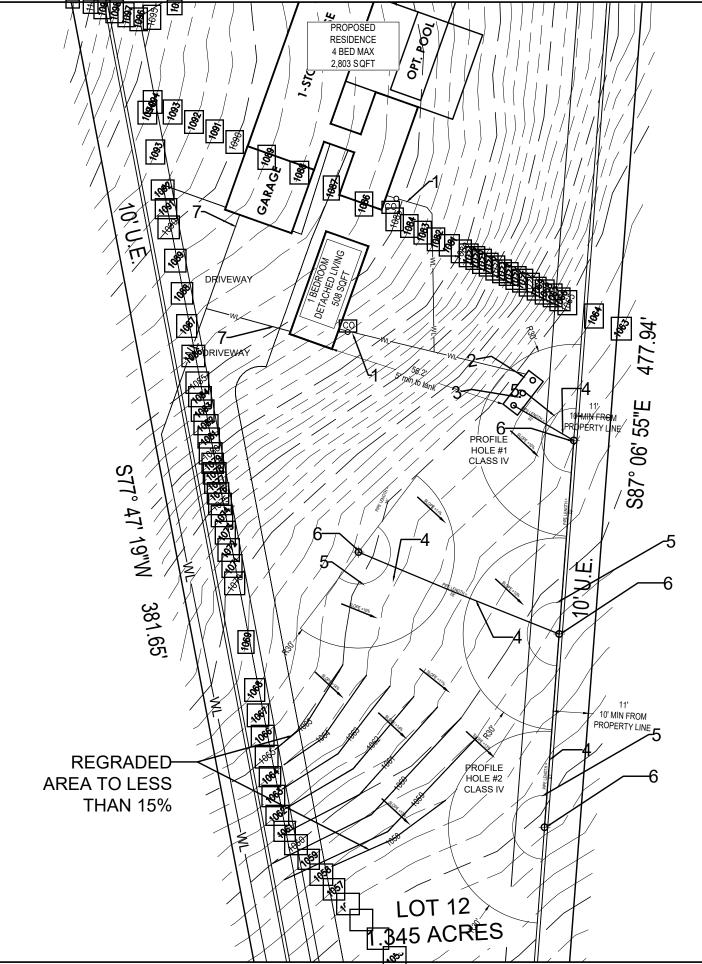
North

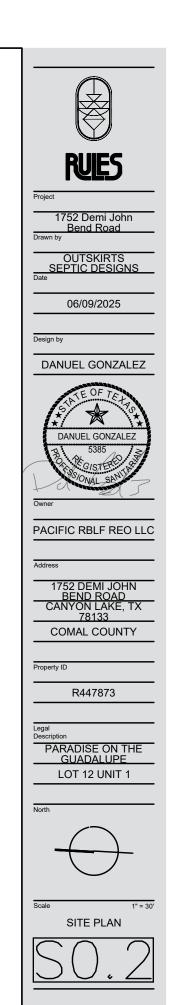


cale 1" = 6
SITE PLAN









	COMPONENTS SCHEDULE	
-	3" or 4" SCH 40 W/ 2 WAY CLEANOUT \$ SCREW PLUG MIN \( \frac{1}{8} \)" FALL PER 1'	SEE SITE PLAN
2	AA750-4290 (750 GPD) ATU	SEE DETAIL
3	CHLORINATOR	SEE DETAIL
4	I " SCH-40 PVC PURPLE PIPE (USE SCH-40 SLEEVE UNDER ANY IMPROVEMENTS)	SEE SITE PLAN
5	I O' RADIUS TO A TREE	SEE SITE PLAN
6	30' RADIUS K-RAIN PROPLUS I 1003 RCW #4 NOZZLE (180º)	SEE SITE PLAN
7	WATER LINE INTO HOME	SEE SITE PLAN



#### TAKING CARE OF YOUR SYSTEM

To prevent your system from failing, there are several important considerations that must be taken into account to ensure that the system functions properly, including:

- 1. Maintenance: Regular maintenance of the system is essential to prevent problems and ensure that it continues to function properly. This includes regular pumping of the septic tank, inspection of the distribution box and drainfield, and other routine tasks.
- 2. Water usage: The amount of water used in the household can have a significant impact on the performance of the system. It is important to avoid excessive water usage, such as running multiple appliances or fixtures simultaneously, as this can overwhelm the system and cause it to fail
- 3. Landscaping: Careful landscaping around the drainfield area is important to ensure that the system functions properly. It is important to avoid planting trees or shrubs near the drainfield, as the roots can damage the pipes and prevent proper drainage.

The following guidelines can help you to avoid these types of chemicals as they should not be disposed of into the system which include any harsh or toxic chemicals that can damage the beneficial bacteria in the septic tank that help to break down waste. This includes the following:

- 4. Household cleaners: Many common household cleaners contain harsh chemicals that can harm the bacteria in the septic tank. Examples include bleach, disinfectants, and drain cleaners.
- 5. Personal care products: Certain personal care products, such as soaps, shampoos, and lotions, can contain chemicals that are harmful to the septic system. It is important to use these products in moderation and to avoid excessive use.
- 6. Pesticides and herbicides: Any type of pesticide or herbicide should be avoided, as these can harm the bacteria in the septic tank and may also contaminate the surrounding environment.
- 7. Medications: Unused or expired medications should never be disposed of into the septic system, as they can harm the bacteria in the septic tank and may also contaminate the surrounding environment.

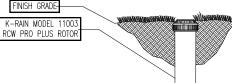
Minimum Required Separation Distances for OSSF Building foundation to sewage treatment tank: 5 Feet Soil absorption trench to groundwater: 3 Feet Soil absorption system or sewer pipe to property lines: 5 Feet Soil absorption system or sewer pipe to water-lines: 10 Feet Soil absorption system to public utility easements: 1 Feet

#### Additional Information:

- Curlex shall be used for stabilizing over the imported soils for the entire field or a vegetative cover is to be use to cover all drain fields prior to final inspection being passed, if field area is greater than 10% slope.
- Any future potable water line, such as swimming pool, irrigation etc must maintain 10' separation to any ossf component.

#### K-RAIN PROPLUS 11003 RCW<sub>\*</sub>; PERFORMANCE DATA LOW ANGLE DATA

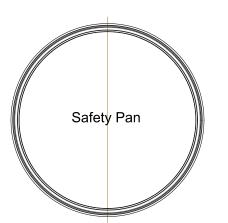
LOW	NOLL DATA		
NOZZLE	PRESSURE PSI	RADIUS FT.	FLOW GPM
#1	30	22'	1.2
	40	24'	1.7
	50	26'	1.8
	60	28'	2.0
#3	20	201	2.0
#3	30	29'	3.0
	40	32'	3.1
	50	35'	3.5
	60	37'	3.8
#4	30	31'	3.4
"-	40	34'	3.9
	50	37'	4.4
	60	38'	4.7
#6	40	38'	6.5
	50	40'	7.3
	60	42'	8.0
	70	44'	8.6
FINISH GF	PANE		
I I II II OI	VIDE		

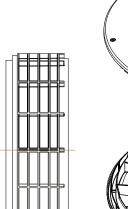




# RISER DETAIL w/OPTIONAL COMPONENTS TYPICAL NTS DIAMETER AND DEPTH VARIES

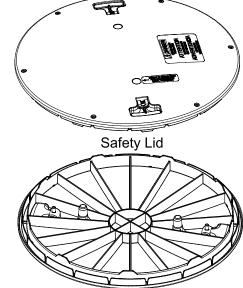
Riser Lid





Risers must be securely attached, watertight, and protected against unauthorized access. Risers and tank inspection ports will be required to have access safety provisions per 30 TAC 285.38 (12/29/2016).

All tank ports larger than 12-inches in diameter to have risers with access restriction to **2-inches** above grade per 30 tac 285.38 (effective 9/1/2023).





Project

1752 Demi John Bend Road

OUTSKIRTS SEPTIC DESIGNS

06/09/2025

Design by

DANUEL GONZALEZ



Owner

PACIFIC RBLF REO LLC

Address

1752 DEMI JOHN
BEND ROAD
CANYON LAKE, TX
78133
COMAL COUNTY

Property ID

R447873

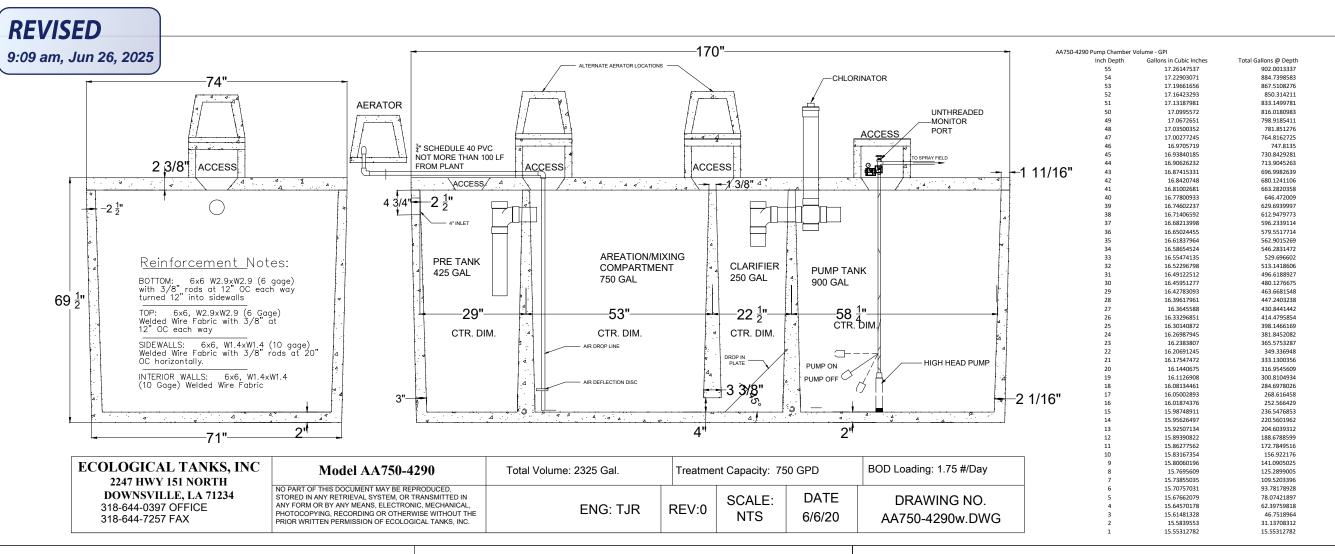
Legal

PARADISE ON THE GUADALUPE LOT 12 UNIT 1

North

OSSF DETAILS

 $\subseteq \cap A$ 



#### **SYSTEM DATA:**

#### Chlorinator:

- Tablet Chlorinator: Norweco LF-2000 (calcium hypochlorite tablets) or equivalent.
- Liquid Chlorinator: LBC500 (household liquid chlorine) or equivalent.

#### Pressure Gauge:

- Tank Pressure: 35.60 PSI.
- Flow Regulation: A pressure gauge and ball valve will be installed to regulate flow to irrigation heads.
- Pressure Regulator: Installed before each head to maintain 30 PSI.
   Collection Port:
- Installation: A plastic hose bib (unthreaded or equivalent) will be installed in the pump chamber for periodic effluent sampling.

#### **Pump Timer:**

- Controller Model: ETI model 203 with GRASSLIN / FM/1 STUZH-L or equivalent.
- Details: Refer to the site plan for calculation outputs.

#### Alarm System:

- Type: Audio/visual high water alarm (red light).
- Controller Model: ETI model 203 or equivalent.
- Location: Installed in a highly visible location near the pump tank.
- Function: The alarm will shut down the pump in case of aerator or system failure.

#### Head Loss and Pump selection - Using sch-40 PVC

General formula = Hazen Williams method.

h 100ft = 0.002083 (100 / c)1.852 q1.852 / d4.8655

- h 100ft = head loss in feet of water per 100 ft of pipe (ft h20 /100 ft pipe)
- c = Hazen-Williams roughness constant
- q = volume flow (gal/min)
- d = inside diameter of pipe (inches)

#### Loss in Supply line to

Head 1 = 1" Supply (13.6 GPM) @ 22 feet = 2.37 Loss (ft) Head 2 = 1" Supply (3.4 GPM) @ 70 feet = 0.58 Loss (ft)

Head 3 = 1" Supply (3.4 GPM) @ 68 feet = 0.56 Loss (ft)

Head 4 = 1" Supply (3.4 GPM) @ 61 feet = 0.51 Loss (ft)

Loss in Fittings (20%) = 4.02 (1.20) = 4.83 Loss (feet)

Elevation (including from pump) = 4 fee

Head pressure for Nozzle

30 PSI x 2.31 = 69.3 feet

Total Loss in feet = 4.83 + 4 + 69.3 = 78.13 feet or 33.82 PSI

Provide 13.6 GPM @ 78.13 Ft

Use: Ashland Pump 10CPM-115 (see spec sheet) or equivalent

#### Pump Float and Alarm settings:

AA-500-4075 Pump Tank: 902 gal (see table for gals/inch):

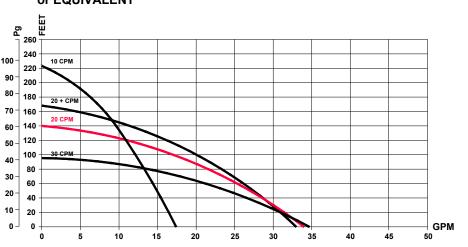
Alarm Height = 37 inches

• Operational Vol = 300 gal - (18" or 305.767 gal)

• Pump on = 8 inches (502.451 gal)

• Pump off = 6 inches (93.782 gal)

#### ASHLAND PUMP CPM SERIES CISTERN PUMP PERFORMANCE ASHLAND PUMP 20 CPM-115 or EQUIVALENT





Project

1752 Demi John Bend Road

OUTSKIRTS SEPTIC DESIGNS

06/09/2025

Design by

DANUEL GONZALEZ



Owner

PACIFIC RBLF REO LLC

Address

1752 DEMI JOHN BEND ROAD CANYON LAKE, TX 78133

COMAL COUNTY

Property ID

R447873

Legal

PARADISE ON THE GUADALUPE LOT 12 UNIT 1

North

Scale NTS

OSSF DETAILS



From: Ritzen, Brenda

LibertyHillTX Septics & Excavation; Olvera, Brandon To:

Subject: RE: As- Built Revised Design 118165 Date: Thursday, June 26, 2025 9:17:00 AM

Attachments: image001.png

Barton,

I have updated the permit file. Installation may proceed.

Thank you,



#### Brenda Ritzen

**Environmental Health Coordinator** 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS00007722 830-608-2090 www.cceo.org

From: LibertyHillTX Septics & Excavation < Ihtxseptics.excavation@gmail.com>

**Sent:** Wednesday, June 25, 2025 2:43 PM

To: Ritzen, Brenda < rabbjr@co.comal.tx.us>; Olvera, Brandon < Olverb@co.comal.tx.us>

Subject: Fwd: As-Built Revised Design 118165

### This email originated from outside of the organization.

Do not click links or open attachments unless you recognize the sender and know the content

Comal IT

Hello- Just checking to see if you had a chance to look at the design we sent yesterday.

Please let me know if you didn't get the attachment.

Thank you, Barton

----- Forwarded message ------

From: LibertyHillTX Septics & Excavation < <a href="mailto:lhtxseptics.excavation@gmail.com">lhtxseptics.excavation@gmail.com</a>>

Date: Tue, Jun 24, 2025 at 6:06 PM

Subject: Re: As- Built Revised Design 118165

To: <<u>Olverb@co.comal.tx.us</u>>, <<u>brenda.rabbir@co.comal.tx.us</u>>

From: Ritzen, Brenda

To: <u>LibertyHillTX Septics & Excavation; Olvera,Brandon</u>
Subject: RE: FW: As- Built Revised Design 118165

Date: Tuesday, June 24, 2025 11:39:00 AM

Attachments: <u>image001.png</u>

Pages from 118165.pdf

#### Barton.

The variance request is acceptable, but the design still has the min 20 ft. from the property line shown. See highlighted distance on attached.

#### Thank you,



#### **Brenda Ritzen**

Environmental Health Coordinator 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS00007722 830-608-2090 www.cceo.org

From: LibertyHillTX Septics & Excavation < Ihtxseptics.excavation@gmail.com>

Sent: Monday, June 23, 2025 7:29 PM

To: Ritzen, Brenda < rabbjr@co.comal.tx.us>; Olvera, Brandon < Olverb@co.comal.tx.us>

Subject: Re: FW: As- Built Revised Design 118165

# This email originated from outside of the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

- Comal IT

Hi there- Attached is the variance and revision.

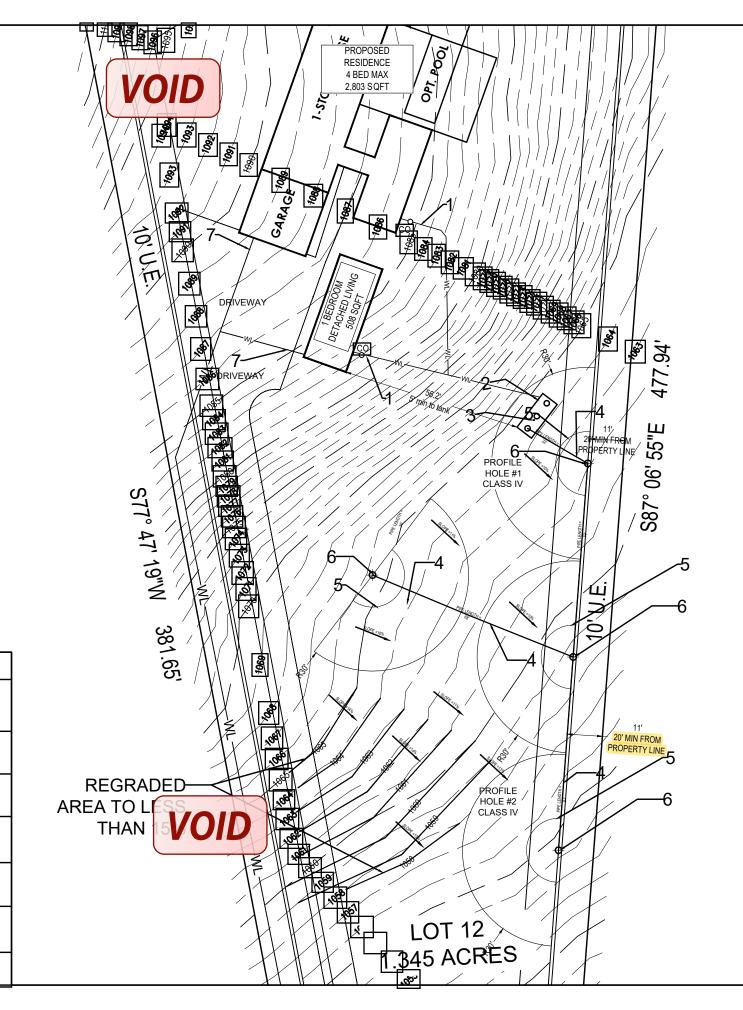
Hopefully this meets all of the requirements to be approved.

Please let me know if you have any questions or concerns.

Barton 512-818-6547

On Wed, Jun 11, 2025 at 4:15 PM Ritzen, Brenda < rabbjr@co.comal.tx.us > wrote:







Project

1752 Demi John Bend Road

OUTSKIRTS SEPTIC DESIGNS

06/09/2025

Design by

DANUEL GONZALEZ



Owner

PACIFIC RBLF REO LLC

Address

1752 DEMI JOHN BEND ROAD CANYON LAKE, TX 78133 COMAL COUNTY

Property ID

R447873

Legal Description

PARADISE ON THE GUADALUPE LOT 12 UNIT 1

Vorth



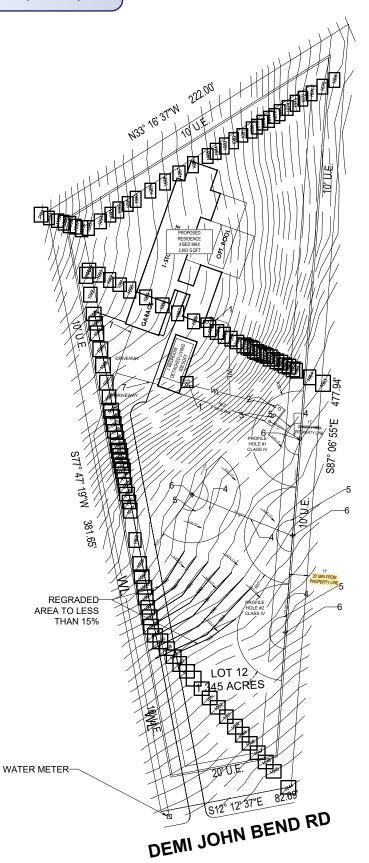
SITE PLAN

S0.2

	COMPONENTS SCHEDULE	
1	3" or 4" SCH 40 W/ 2 WAY CLEANOUT \$ SCREW PLUG MIN \( \frac{1}{8} \)" FALL PER 1'	SEE SITE PLAN
2	AA750-4290 (750 GPD) ATU	SEE DETAIL
3	CHLORINATOR	SEE DETAIL
4	I " SCH-40 PVC PURPLE PIPE (USE SCH-40 SLEEVE UNDER ANY IMPROVEMENTS)	SEE SITE PLAN
5	10' RADIUS TO A TREE	SEE SITE PLAN
6	30' RADIUS K-RAIN PROPLUS I I 003 RCW #4 NOZZLE (180 º)	SEE SITE PLAN
7	WATER LINE INTO HOME	SEE SITE PLAN

### REVISED

11:18 am, Jun 24, 2025





#### USE HYDROMULCHING REVEGETATION METHOD AROUND SPRAY AREA

- HYDROMULCHING METHOD ADDS A FIBRE-MULCH TO THE MIXTURE OF SEED, FERTILISER, AND WATER. THE MULCH ESSENTIALLY PROVIDES A SAFEGUARD FOR THE SEED, HELPING IT RETAIN MOISTURE FOR FASTER GERMINATION AND GROWTH, WHILE PROTECTING THE SOIL FROM EROSION AND THE SEEDS FROM WASHING AWAY IN THE RAIN. THESE ORGANIC MULCH FIBRES ARE DESIGNED TO DEGRADE OVER SEVERAL MONTHS, MAKING WAY FOR VEGETATION GROWTH TO ESTABLISH.
- HYDROMULCH WILL KEEP THE SOIL IN PLACE AND DETER ANY FURTHER EROSION FROM HAPPENING SO THAT THE SITE REMAINS INTACT. HYDROMULCH OF LARGE AREAS IN NEW CONSTRUCTION, RECENTLY COMPLETED CONSTRUCTION, AND AREAS THAT HAVE BEEN BURNED OR TILLED FOR RECONSTRUCTION WILL BE TREATED WITH HYDROMULCH.

#### Additional Information:

- Curlex shall be used for stabilizing over the imported soils for the entire field or a vegetative cover is to be use to cover all drain fields prior to final inspection being passed, if field area is greater than 10% slope.
- Any future potable water line, such as swimming pool, irrigation etc must maintain 10' separation to any ossf component.

#### Disposal Field Finish:

- The sprinkler system area shall be located in a relatively open area at least 100' away from any well and 10' from any property lines. Spray heads must be10' from any obstacle.
- The field area may have to be amended to create a slope of 15% or less, any exposed rock shall be removed or covered prior to operation with 4" suitable soil.
- The field shall be maintained at all times (mowed).

			D		
	COMPONENTS SCHEDULE				
I	3" or 4" SCH 40 W/ 2 WAY CLEANOUT \$ SCREW PLUG MIN   FALL PER 1'	SEE SITE PLAN	S C		
2	AA750-4290 (750 GPD) ATU	SEE DETAIL	S		
3	CHLORINATOR VOID	SEE DETAIL	N		
4	I " SCH-40 PVC PURPLE PIPE (LSE SCH-40 SLEEVE UNDER ANY IMPROVEMENTS)	SEE SITE PLAN	3 th		
5	I O' RADIUS TO A TREE	SEE SITE PLAN	a N B		
6	30' RADIUS K-RAIN PROPLUS I I 003 RCW #4 NOZZLE ( I 80º)	SEE SITE PLAN	S		
7	WATER LINE INTO HOME	SEE SITE PLAN	S S		

#### OSSF DESIGN

#### Proposed system information:

The design is for a single family home and casita (w/ no kitchen) that is: 4 bedrooms at 2,803 sqft and 1 bedroom at 508 sqft = total 5 bedrooms at 3,311 sqft Total Q = **360 GPD** Gallons per day using water saving devices.

#### Field Disposal Calculations:

The designed load for this system is 360 GPD.

#### Spray Irrigation:

- Required Field Area: 360 ÷ 0.064 = 5,625 sq. ft. minimum field area
- Provided Field Area: 5,654.87 sq. ft.

#### Sprinkler Heads:

- Number of Heads: 4 (30' Radius @ 180-degree angle.)
- Coverage Area per Head: 1,413.72 sq. ft.
- Sprinkler Setting: 30 PSI, utilizing a 30' radius
- Minimum Spacing of Heads: (refer to site plan)
- Flow (GPM) per Field: (4 x 3.4) GPM = 13.6 GPM

#### **Total Daily Irrigation Time:**

- 360 GPD ÷ 13.6 GPM = 26.47 minutes/day
- Set timer for 30 minutes starting at 2 AM

#### OSSF DESIGN PROVISIONS

Table IX. OSSF System Designation of the Texas Administrative Code, which is part of Chapter 285 of the On-Site Sewage Facility (OSSF) Rules, specifies the design standards for sewage disposal systems. This section notes that a professional engineer, registered sanitarian is required for the design of Surface Application systems and its planning materials provided that it meets all requirements outlined in the rules.

This design fulfills all the criteria for the design and installation of this system, encompassing aspects such as soil analysis, system sizing, and component placement, among others. The regulations provide comprehensive guidelines and specifications for the design and installation of this system. This OSSF design meets and exceeds the minimum state requirements for OSSF as of June 14, 2023.

The installer must be licensed by the State of Texas and have the governing authority to inspect the system at the required construction and inspection intervals.

#### This site lies in the FEMA floodplain 48091C0090F FIRM effective 9/2/2009

Criteria for Surface Application systems:

This is an aerobic pre-treatment/chlorination system with a surface application effluent disposal on this site. The aerobic unit must be NSF approved and meet all state and local requirements for effluent quality.

#### **Design Principles:**

Primary treatment of effluent will be accomplished using a NSF approved aerobic treatment unit. Treated effluent will then be distributed evenly over the disposal field area at night. Surface application will be the method of effluent dispersal and disposal. The surface soil conditions for this site are adequate to support vegetation growth.

#### Soil Analysis:

Class IV

#### Note:

all piping shall be bedded with four inches class ib, class ii or, class iii soil with less than 30% gravel. the bedding soil shall be free of organic material and any rocks or grains larger than half inch.

all property lines and property pins must be verified prior to septic / ossf installation.

Minimum Required Separation Distances for OSSF

Building foundation to sewage treatment tank: 5 Feet

Soil absorption trench to groundwater: 3 Feet

Soil absorption system or sewer pipe to property lines: 5 Feet Soil absorption system or sewer pipe to water-lines: 10 Feet

Soil absorption system to public utility easements: 1 Feet



Project

1752 Demi John Bend Road

OUTSKIRTS SEPTIC DESIGNS

06/09/2025

Design by

DANUEL GONZALEZ



Owner

PACIFIC RBLF REO LLC

Address

1752 DEMI JOHN BEND ROAD CANYON LAKE, TX 78133 COMAL COUNTY

Property ID

R447873

Legal

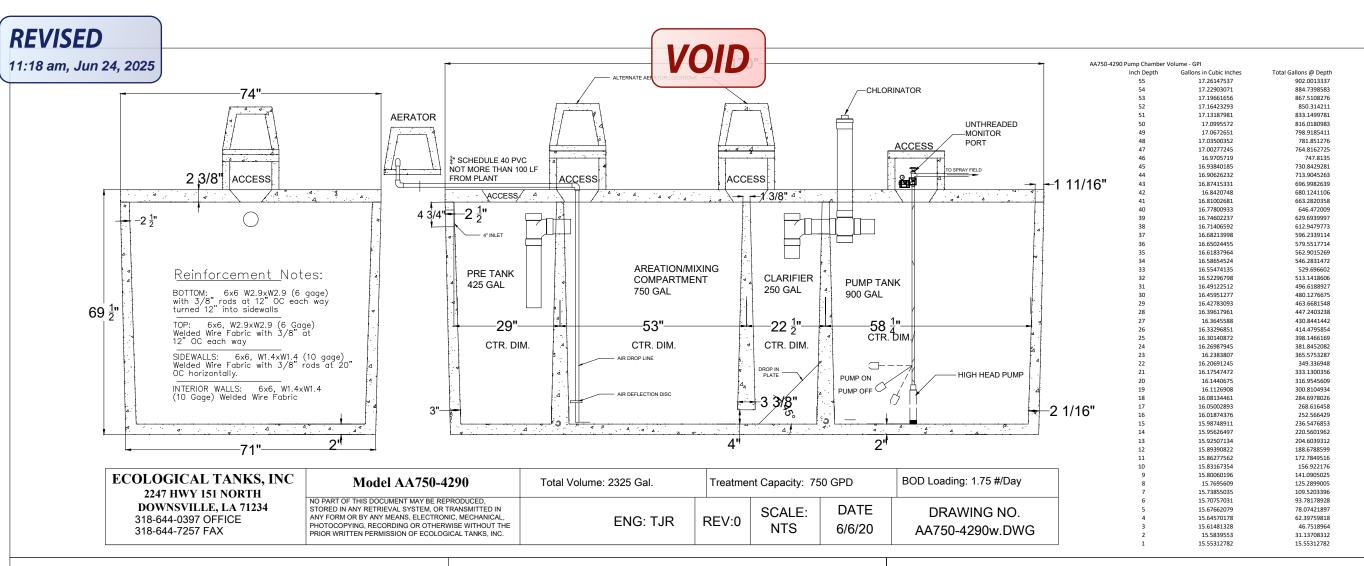
PARADISE ON THE GUADALUPE LOT 12 UNIT 1

North



Scale 1" = 60
SITE PLAN

OVERALL



#### **SYSTEM DATA:**

#### Chlorinator:

- Tablet Chlorinator: Norweco LF-2000 (calcium hypochlorite tablets) or equivalent.
- Liquid Chlorinator: LBC500 (household liquid chlorine) or equivalent.

#### Pressure Gauge:

- Tank Pressure: 35.60 PSI.
- Flow Regulation: A pressure gauge and ball valve will be installed to regulate flow to irrigation heads.
- Pressure Regulator: Installed before each head to maintain 30 PSI. Collection Port:
- Installation: A plastic hose bib (unthreaded or equivalent) will be installed in the pump chamber for periodic effluent sampling.

#### **Pump Timer:**

- Controller Model: ETI model 203 with GRASSLIN / FM/1 STUZH-L or equivalent.
- Details: Refer to the site plan for calculation outputs.

#### Alarm System:

- Type: Audio/visual high water alarm (red light).
- Controller Model: ETI model 203 or equivalent.
- Location: Installed in a highly visible location near the pump tank.
- Function: The alarm will shut down the pump in case of aerator or system failure.

#### Head Loss and Pump selection - Using sch-40 PVC

General formula = Hazen Williams method.

h 100ft = 0.002083 (100 / c)1.852 q1.852 / d4.8655

- h 100ft = head loss in feet of water per 100 ft of pipe (ft h20 /100 ft pipe)
- c = Hazen-Williams roughness constant
- q = volume flow (gal/min)
- d = inside diameter of pipe (inches)

Loss in Supply line to

Head 1 = 1" Supply (13.6 GPM) @ 22 feet = 2.37 Loss (ft) Head 2 = 1" Supply (3.4 GPM) @ 70 feet = 0.58 Loss (ft)

Head 2 = 1" Supply (3.4 GPM) @ 70 feet = 0.58 Loss (ft) Head 3 = 1" Supply (3.4 GPM) @ 68 feet = 0.56 Loss (ft)

Head 4 = 1" Supply (3.4 GPM) @ 61 feet = 0.51 Loss (ft)

Loss in Fittings (20%) = 4.02 (1.20) = 4.83 Loss (feet)

Elevation (including from pump) = 4 feet

Head pressure for Nozzle 30 PSI x 2.31

69.3 (69.01D)

Total Loss in feet = 4.83 + 4 + 69.3 = 78.13 feet or 33.82 PSI

Provide 13.6 GPM @ 78.13 Ft

Use: Ashland Pump 10CPM-115 (see spec sheet) or equivalent

#### Pump Float and Alarm settings:

AA-500-4075 Pump Tank: 902 gal (see table for gals/inch):

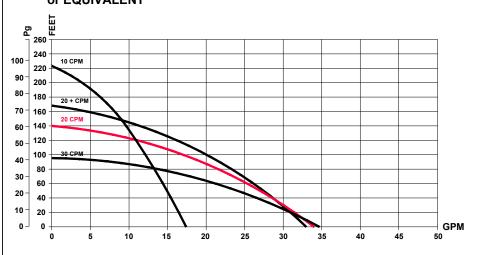
Alarm Height = 37 inches

• Operational Vol = 300 gal - (18" or 305.767 gal)

• Pump on = 8 inches (502.451 gal)

• Pump off = 6 inches (93.782 gal)

#### ASHLAND PUMP CPM SERIES CISTERN PUMP PERFORMANCE ASHLAND PUMP 20 CPM-115 or EQUIVALENT





Project

1752 Demi John Bend Road

OUTSKIRTS SEPTIC DESIGNS Date

06/09/2025

Design by

DANUEL GONZALEZ



Owner

PACIFIC RBLF REO LLC

Address

1752 DEMI JOHN BEND ROAD CANYON LAKE, TX 78133

COMAL COUNTY

Property ID

R447873

Legal

PARADISE ON THE GUADALUPE

LOT 12 UNIT 1

North

Scale NTS

OSSF DETAILS



### REVISED

11:18 am, Jun 24, 2025

#### TAKING CARE OF YOUR SYSTEM

To prevent your system from failing, there are several important considerations that must be taken into account to ensure that the system functions properly, including:

- 1. Maintenance: Regular maintenance of the system is essential to prevent problems and ensure that it continues to function properly. This includes regular pumping of the septic tank, inspection of the distribution box and drainfield, and other routine tasks.
- 2. Water usage: The amount of water used in the household can have a significant impact on the performance of the system. It is important to avoid excessive water usage, such as running multiple appliances or fixtures simultaneously, as this can overwhelm the system and cause it to fail
- 3. Landscaping: Careful landscaping around the drainfield area is important to ensure that the system functions properly. It is important to avoid planting trees or shrubs near the drainfield, as the roots can damage the pipes and prevent proper drainage.

The following guidelines can help you to avoid these types of chemicals as they should not be disposed of into the system which include any harsh or toxic chemicals that can damage the beneficial bacteria in the septic tank that help to break down waste. This includes the following:

- 4. Household cleaners: Many common household cleaners contain harsh chemicals that can harm the bacteria in the septic tank. Examples include bleach, disinfectants, and drain cleaners.
- 5. Personal care products: Certain personal care products, such as soaps, shampoos, and lotions, can contain chemicals that are harmful to the septic system. It is important to use these products in moderation and to avoid excessive use.
- 6. Pesticides and herbicides: Any type of pesticide or herbicide should be avoided, as these can harm the bacteria in the septic tank and may also contaminate the surrounding environment.
- 7. Medications: Unused or expired medications should never be disposed of into the septic system, as they can harm the bacteria in the septic tank and may also contaminate the surrounding environment.

Minimum Required Separation Distances for OSSF Building foundation to sewage treatment tank: 5 Feet Soil absorption trench to groundwater: 3 Feet Soil absorption system or sewer pipe to property lines: 5 Feet Soil absorption system or sewer pipe to water-lines: 10 Feet Soil absorption system to public utility easements: 1 Feet

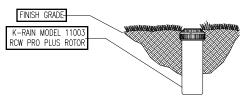
#### Additional Information:

- Curlex shall be used for stabilizing over the imported soils for the entire field or a vegetative cover is to be use to cover all drain fields prior to final inspection being passed, if field area is greater than 10% slope.
- Any future potable water line, such as swimming pool, irrigation etc must maintain 10' separation to any ossf component.



#### K-RAIN PROPLUS 11003 RCW<sub>\*</sub>; PERFORMANCE DATA LOW ANGLE DATA

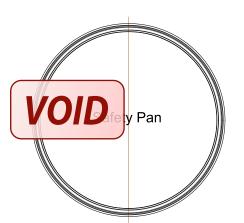
NOZZLE	PRESSURE PSI	RADIUS FT.	FLOW GP
#1	30	22'	1.2
	40	24'	1.7
	50	26'	1.8
	60	28'	2.0
#3	30	29'	3.0
	40	32'	3.1
	50	35'	3.5
	60	37'	3.8
#4	30	31'	3.4
	40	34'	3.9
	50	37'	4.4
	60	38'	4.7
#6	40	38'	6.5
	50	40'	7.3
	60	42'	8.0
	70	44'	8.6

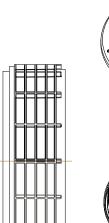




# RISER DETAIL w/OPTIONAL COMPONENTS TYPICAL NTS DIAMETER AND DEPTH VARIES

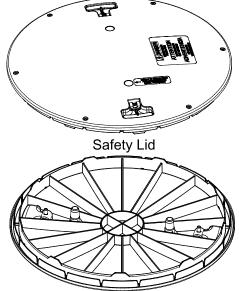
Riser Lid





Risers must be securely attached, watertight, and protected against unauthorized access. Risers and tank inspection ports will be required to have access safety provisions per 30 TAC 285.38 (12/29/2016).

All tank ports larger than 12-inches in diameter to have risers with access restriction to **2-inches** above grade per 30 tac 285.38 (effective 9/1/2023).





Project

1752 Demi John Bend Road

OUTSKIRTS SEPTIC DESIGNS

06/09/2025

Design by

DANUEL GONZALEZ



Owner

PACIFIC RBLF REO LLC

Address

1752 DEMI JOHN BEND ROAD CANYON LAKE, TX 78133 COMAL COUNTY

Property ID

R447873

Legal

PARADISE ON THE GUADALUPE LOT 12 UNIT 1

North

Scale

OSSF DETAILS



From: Ritzen, Brenda

To: <a href="mailto:lhtxseptics.excavation@gmail.com">lhtxseptics.excavation@gmail.com</a>
Subject: FW: As- Built Revised Design 118165
Date: Wednesday, June 11, 2025 4:15:00 PM

Attachments: 2025 06 09 1752DemiJohnBendRd OSSFDesignPlan.pdf

image001.png

Re: Midcentury Custom Homes, LLC

Paradise on the Guadalupe Unit 1 Lot 12, 1752 Demi John Bend Rd. Application for Permit for Authorization to Construct an On-Site Sewage

**Facility** 

Barton,

I have reviewed the revised planning materials and found the following information is needed:

- 1. Maintain required 20 ft. setback from the edge of the spray areas to the property line.
- 2. Revise as needed and resubmit.

#### Thank you,



#### **Brenda Ritzen**

Environmental Health Coordinator 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS00007722 830-608-2090 www.cceo.org

From: Olvera, Brandon < Olverb@co.comal.tx.us>

**Sent:** Wednesday, June 11, 2025 3:09 PM **To:** Ritzen, Brenda < rabbjr@co.comal.tx.us> **Subject:** FW: As- Built Revised Design 118165

118165

Thank You,

| Brandon Olvera | Designated Representative OS0034792 | Comal County | www.cceo.org | 195 David Jonas Dr, New Braunfels, TX-78132 | t: 830-608-2090 | f: 830-608-2078 | e: olverb@co.comal.tx.us |

### RECEIVED

By Brenda Ritzen at 1:28 pm, Jun 18, 2025

To:

Comal County Engineer's Office OSSF Department 195 David Jonas Dr New Braunfels, TX 78132



Subject: Variance Request – OSSF Spray Head Setback (10 ft)

Dear OSSF Reviewer,

I, Danuel Gonzalez, R.S., am requesting a variance to allow spray heads for my aerobic on-site sewage facility (OSSF) to be located 10 feet from the property line, instead of the standard 25-foot setback required under Comal County OSSF rules.

Due to lot constraints, full compliance is not possible. The system will include the following safeguards to ensure safe and responsible operation:

- Low-angle spray nozzles (≤13°) directed inward
- No discharge beyond property boundaries
- Vegetative buffer or berm between spray area and property line
- Routine service by a licensed maintenance provider

A site plan and design details are attached. These measures provide equal or greater protection to public health and the environment.

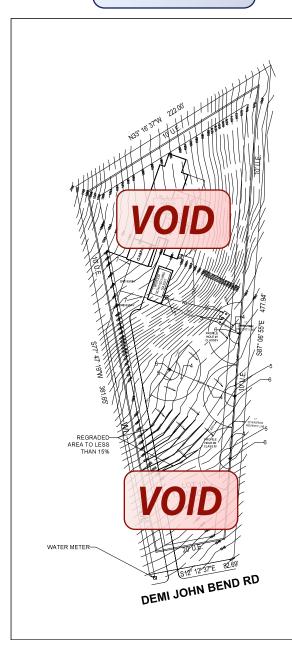
Please contact me if additional documentation is needed. Thank you for your time and consideration.

Sincerely,

Danuel Gonzalez, R.S. #5385

### REVISED

4:07 pm, Jun 11, 2025



#### USE HYDROMULCHING REVEGETATION METHOD AROUND SPRAY AREA

- HYDROMULCHING METHOD ADDS A FIBRE-MULCH TO THE MIXTURE OF SEED FERTILISER, AND WATER. THE MULCH ESSENTIALLY PROVIDES A SAFEGUARD FOR THE SEED, HELPING IT RETAIN MOISTURE FOR FASTER GERMINATION AND GROWTH, WHILE PROTECTING THE SOIL FROM EROSION AND THE SEEDS FROM WASHING AWAY IN THE RAIN. THESE ORGANIC MULCH FIBRES ARE DESIGNED TO DEGRADE OVER SEVERAL MONTHS, MAKING WAY FOR VEGETATION GROWTH TO
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			L
COMPONENTS SCHEDULE			F
ı	3" or 4" SCH 40 W/ 2 WAY CLEANOUT # SCREW PLUG MIN {" FALL PER 1"	SEE SITE PLAN	5
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6	30' RADIUS K-RAIN PROPLUS I I 003 RCW #4 NOZZLE (180º)	SEE SITE PLAN	000
7	WATER LINE INTO HOME	SEE SITE PLAN	5

#### OSSF DESIGN

#### Proposed system information:

The design is for a single family home and casita (w/ no kitchen) that is: 4 bedrooms at 2,803 sqft and 1 bedroom at 508 sqft = total 5 bedrooms at 3,311 sqft Total Q = 360 GPD Gallons per day using water saving devices.

#### Field Disposal Calculations:

The designed load for this system is 360 GPD.

#### Spray Irrigation:

- Required Field Area: 360 + 0.064 = 5,625 sq. ft, minimum field area
- Provided Field Area: 5,654.87 sq. ft.

#### Sprinkler Heads:

- Number of Heads: 4 (30' Radius @ 180-degree angle.)
- Coverage Area per Head: 1,413.72 sq. ft.
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- Flow (GPM) per Field: (4 x 3.4) GPM = 13.6 GPM

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- Set timer for 30 minutes starting at 2 AM

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all piping shall be bedded with four inches class ib. class ii or, class iii soil with less than 30% gravel, the bedding soil shall be free of organic material and any rocks or grains larger than half inch

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1752 Demi John Bend Road

OUTSKIRTS SEPTIC DESIGNS

06/09/2025

Design by

DANUEL GONZALEZ



PACIFIC RBLF REO LLC

1752 DEMI JOHN BEND ROAD CANYON LAKE, TX COMAL COUNTY

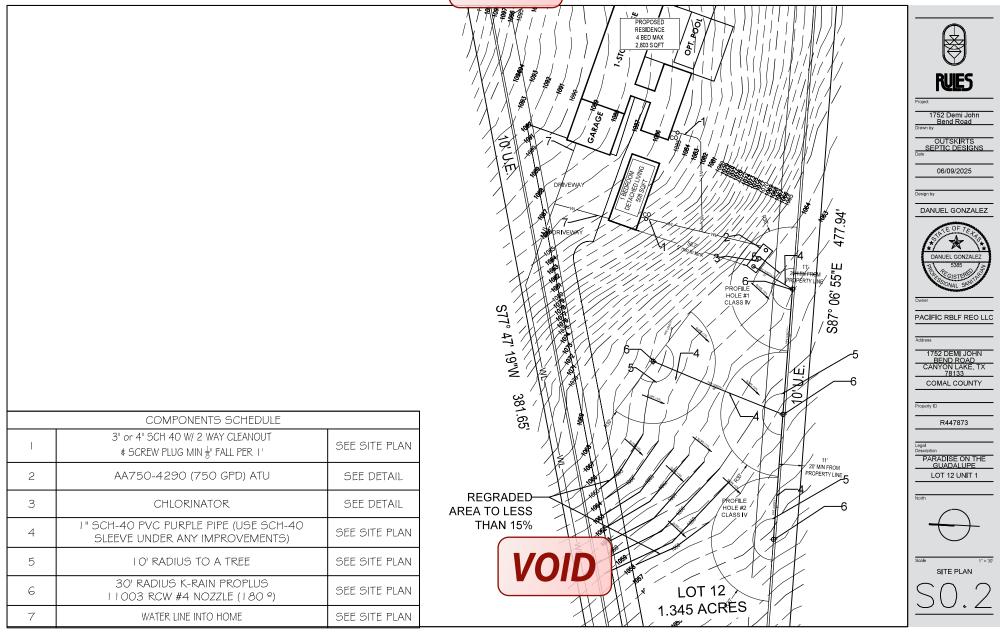
R447873

PARADISE ON THE GUADALUPE LOT 12 UNIT 1



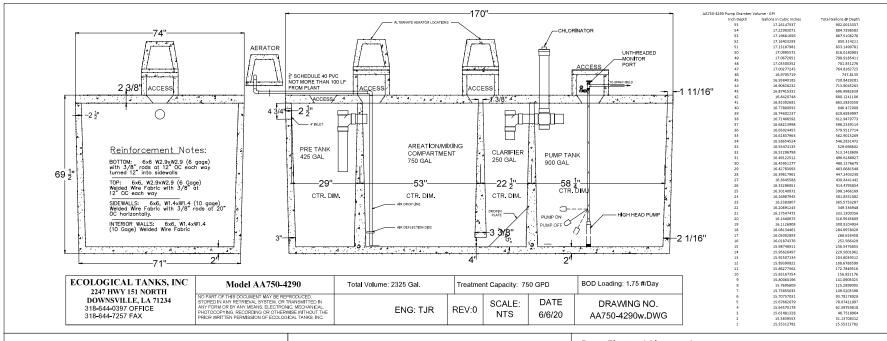
**REVISED**4:07 pm, Jun 11, 2025

VOID



# **REVISED** 4:07 pm, Jun 11, 2025





1752 Demi John Bend Road

OUTSKIRTS SEPTIC DESIGNS

06/09/2025

Design by

DANUEL GONZALEZ



PACIFIC RBLF REO LLC

1752 DEMI JOHN BEND ROAD CANYON LAKE, TX 78133 COMAL COUNTY

R447873

PARADISE ON THE GUADALUPE LOT 12 UNIT 1

OSSF DETAILS

#### SYSTEM DATA:

#### Chlorinator

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- Details: Refer to the site plan for calculation outputs. Alarm System:
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General formula = Hazen Williams method.

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Where.

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Loss in Fittings (20%) = 4.02 (1.20) = 4.83 Loss (feet)

Elevation (including from pump) =

Head pressure for Nozzle 30 PSI x 2,31



Total Loss in feet = 4.83 + 4 + 69.3 = 78.13 feet or 33.82 PSI

Provide 13.6 GPM @ 78.13 Ft

Use: Ashland Pump 10CPM-115 (see spec sheet) or equivalent

#### Pump Float and Alarm settings:

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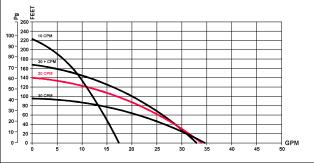
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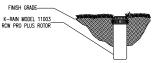
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  or a vegetative cover is to be use to cover all drain fields prior to final inspection
  being passed, if field area is greater than 10% slope.
- Any future potable water line, such as swimming pool, irrigation etc must maintain 10' separation to any ossf component.

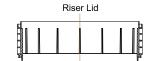
# K-RAIN PROPLUS 11003 RCW. PERFORMANCE DATA LOW ANGLE DATA

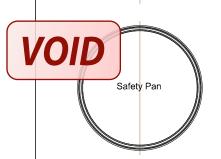
NOZZLE	PRESSURE PSI	RADIUS FT.	FLOW GPM
#1	30	22'	1.2
	40	24'	1.7
	50	26'	1.8
	60	28'	2.0
#3	30	29'	3.0
	40	32'	3.1
	50	35'	3.5
	60	37'	3.8
#4	30	31'	3,4
	40	34'	3.9
	50	37'	4.4
	60	38'	4.7
#6	40	38'	e E
#0			6.5
	50	40'	7.3
	60	42'	8.0
	70	44'	8.6

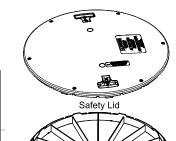




# RISER DETAIL W/OPTIONAL COMPONENTS TYPICAL NTS DIAMETER AND DEPTH VARIES







Risers must be securely attached, watertight, and protected against unauthorized access. Risers and tank inspection ports will be required to have access safety provisions per 30 TAC 285.38 (12/29/2016).

All tank ports larger than 12-inches in diameter to have risers with access restriction to 2-inches above grade per 30 tac 285.38 (effective 9/1/2023).



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1752 Demi John Bend Road

OUTSKIRTS SEPTIC DESIGNS

06/09/2025

Design by

DANUEL GONZALEZ



vner

PACIFIC RBLF REO LLC

Add----

1752 DEMI JOHN BEND ROAD CANYON LAKE, TX 78133 COMAL COUNTY

R447873

egal

PARADISE ON THE GUADALUPE LOT 12 UNIT 1

lorth

OSSF DETAILS

50.4

CHRISTOPHER RYAN SEIDENSTICKER

	Customer: MIDCENTURY CUSTOM HOMES, LLC  Site Address: 1752 DEMI JOHN BEND RD.		
PROPERTY LEGAL DESCRIPTION:			
LOT 12, PARADISE ON THE GUADALUPE, UNIT 1	City/State: NEW BRAUNFELS, TEXAS Zip: 78130		
	County: COMAL Permit#:		
	Phone Number:		
	E-mail:		
MIDCENTURY CUSTOM HOMES, LLC	ense to Operate is issued for Three (3) years.		

- III. Services by Contractor: Contractor will provide the following Services:
  - Inspect and perform routine maintenance on the On-Site Sewage Facility ("OSSF") in compliance with the code, regulations, and/or rules of the Texas Commission on Environmental Quality ("TCEQ") and county in which the OSSF is located (the "County") and the manufacturer's requirements, at a frequency of approximately once every four (4) months.
  - Report to the appropriate regulatory authority and to Client, as required by the State of Texas' on-site rules and, if required, TCEQ or County rules. All findings must be reported to the appropriate regulatory authority within 14 days.
  - Notify Client and repair any components of the OSSF that are found to be in need of repair during the inspection. If warranty, you just do it. If not, Client will be responsible. Repairs will be made so brought up to compliance and bill forward.
  - 4. Visit site in response to Client's request for unscheduled service within two business days from the date of Contractor's actual receipt of Client's request. Unscheduled service visits are not included in the fee agreement herein and will be billed to the client in addition to fees under this Agreement.
  - Provide notification of arrival to site to the Client or to site personnel. Additionally, Contractor will leave written notification of the visit at the site or with site personnel upon completion of inspection, and forward such notice to the appropriate regulatory authority within fourteen (14) days.

IV. Paym	ent(s): Client shall pay	to Contractor	included w/ septic	, for the Services	describe herein (the	"Inspection and Routine
λ	Aaintenance Fee"), exce	pting those desc	cribed in Section III (4),	or Section IX, herein.	The Fee does not in	clude equipment, parts or
la	abor supplied for anythi	ing beyond rout	ine inspection and routin	ne maintenance. Payme	ents for such addition	al services are due at the
ti	ime services are provide	d or rendered. P	ayments not received wi	thin thirty (30) days fro	om the due date will	be subject the greater of a
S	20.00 late penalty or 1.:	5% carrying cha	rge on the original balar	ice for each month or p	ortion thereof a bala	nce in past due. If for any
r	eason such charges are	found to be use	urious by a court of cor	npetent jurisdiction, su	ch charges shall be	reduced to the maximum
a	llowable by law. By sig	ning this contract	ct, Client authorizes Con	tractor to remove any p	parts installed, but no	t paid in full at the end of
tl	he thirty (30) days. Clie	nt agrees to pay	for any labor cost assoc	iated with the installat	ion and the reasonab	le cost of removal of said
p	arts.	10./1			1/0	
		D #1 A / 1 1				

Client: MW Contractor:



- V. Client's Responsibilities: Client is responsible for each and all of the following:
  - To maintain chlorinator and provide proper chlorine supply, if OSSF is so equipped.
  - To provide all necessary yard or lawn maintenance and removal of obstacles as needed to allow the OSSF to function properly, and to allow Contractor ready access to all parts of the OSSF.
  - To maintain a current license to operate, and abide by the conditions and limitations of that license and all requirements for onsite sewage facilities from the State and local regulatory agency.
  - 4. To maintain the OSSF in accordance with manufacturer's recommendations.
  - 5. To immediately notify Contractor and Agency of any and all problems with, the OSSF, including failure thereof.
  - 6. Upon receipt of any written notification of required services from Contractor, to contact Contractor and authorize the required service. If Client elects a different contractor to perform the required service, Client is responsible for ensuring the substitute contractor holds the proper license (Installer II) and is certified by the manufacturer. Additionally, Client shall be responsible for ensuring proper notification is given to the appropriate regulatory authority, as required by the State and/or local regulatory authority rules.
  - 7. To provide Contractor with water usage records, upon request, for evaluation by Contractor of the OSSF performance.
  - To pay required sampling charges for samples collected for testing (e.g. Biological Oxygen Demand/Total Suspended Solids ("BOD/TSS") that may be required on the OSSF.
  - 9. To prevent backwash from water treatment or water conditioning equipment to enter the OSSF.
  - 10. To provide, at Client's expense, for pumping of tanks as needed.
  - 11. To maintain site drainage sufficient to prevent adverse effects on the OSSF.
  - 12. To promptly and fully pay Contractor's bills, fees, or invoices as described herein.
- VI. Access by Contractor: Client agrees to allow Contractor, or personnel authorized by the Contractor, to enter the property at reasonable times without prior notice for the purpose of performing the Services described herein. Such entry shall include access to the OSSF electrical and physical components, including tanks, by means of manways or risers for the purpose of evaluations required by the manufacturer, and/or regulatory authority rules. If such manways or risers are not in place, Client shall allow and be responsible for payment of required excavation, including labor and materials, necessary to allow access to the OSSF or any required components. Such excavation shall be billed at the rate of \$75.00 per hour for labor, plus materials billed at list price. Contractor shall make only those efforts reasonable under the circumstances to replace excavated soil.
- VII. Application or Transfer of Payment: The fees paid for this agreement may transfer to any subsequent owner(s) of the property on which the OSSF is located. The subsequent owner(s) must sign a similar agreement authorizing Contractor to perform the above-described Services, and accepting Client's responsibilities. The replacement Agreement must be signed and received within 30 days of transfer of ownership. Contractor will apply all funds received from Client first to any past due obligations arising from this Agreement including late charges, return check charges, and charges for repairs or services not paid within 30 days of invoicing. The consumption of the payment in this manner may lead to termination of the agreement by Contractor
- VIII. Termination of Agreement: This agreement may be terminated by either party with 30 days written notice. If this agreement is so terminated by Client, Contractor shall be paid at the rate of \$75.00 per hour for any worked performed or required, but not yet paid. If terminated by Contractor, all amounts outstanding shall be due within thirty days of termination. The party terminating will immediately notify the other party, the equipment manufacturer, and the regulatory agency of the termination.
- IX. Limitation of Liability: In no event shall Contractor be liable for indirect, consequential, incidental or punitive damages, whether in contract, tort, or any other theory of liability. In no event shall the Contractor's liability for direct damages exceed payments by the Client under this Agreement.
- X. Severability and Reformation: If any provision in this Agreement shall be held to be invalid or unenforceable for any reason, it shall be reformed to the minimum extent necessary to effect the intent of the Parties. If any provision is such that it cannot reasonably be reformed, it shall be struck from this Agreement and the remaining provisions shall continue to be valid and enforceable.
- XI. Performance of Agreement: Commencement of performance by Contractor under this agreement is contingent on the following conditions: (1) Contractor receiving a fully executed original copy of this agreement. (2) Contractor receiving payment in full of the fee(s) described herein. If the above conditions are not met, then Contractor is from any obligation to perform any portion of this agreement.
- XII. Modification. This Agreement may not be changed or modified except by an instrument in writing, signed by both Contractor and Client.
- XIII. Waiver. Except as otherwise noted in this Agreement, the waiver by other party of a breach of any provision of this Agreement shall not operate or be construed as a consent to or waiver of any subsequent breach hereof.

Client: \_\_\_\_\_\_ Contractor: \_\_\_\_\_\_\_



- XIV. Headings. The Article and Section headings in this Agreement are for the convenience of reference only and do not constitute a part of this Agreement and shall not be deemed to limit or affect any of the provisions hereof.
- XV. GOVERNING LAW AND CHOICE OF VENUE. EACH OF THE PARTIES HERETO HEREBY CONSENTS TO THE EXCLUSIVE JURISDICTION OF THE COURTS OF THE STATE OF TEXAS, COUNTY OF COMAL, AND TO THE UNITED STATES DISTRICT COURT FOR THE WESTERN DISTRICT OF TEXAS SAN ANTONIO DIVISION, AS WELL AS TO THE JURISDICTION OF ALL COURTS TO WHICH AN APPEAL MAY BE TAKEN FROM SUCH COURTS, FOR THE PURPOSE OF ANY SUIT, ACTION, OR OTHER PROCEEDING ARISING OUT OF, OR IN CONNECTION WITH, THIS AGREEMENT OR ANY OF THE TRANSACTIONS CONTEMPLATED HEREBY, INCLUDING, WITHOUT LIMITATION, ANY PROCEEDING RELATING TO ANCILLARY MEASURES IN AID OF ARBITRATION, PROVISIONAL REMEDIES AND INTERIM RELIEF, OR ANY PROCEEDING TO ENFORCE ANY ARBITRAL DECISION OR AWARD. EACH PARTY HERETO EXPRESSLY WAIVES ANY AND ALL RIGHTS TO BRING ANY SUIT, ACTION, OR OTHER PROCEEDING IN OR BEFORE ANY COURT OR TRIBUNAL OTHER THAN COURTS OF THE STATE OF TEXAS, COUNTY OF COMAL, AND COVENANTS THAT IT SHALL NOT SEEK IN ANY MANNER TO PROSECUTE OR DEFEND ANY DISPUTE OTHER THAN AS SET FORTH IN THIS ARTICLE XVI OR TO CHALLENGE OR SET ASIDE ANY DECISION, AWARD, OR JUDGMENT OBTAINED IN ACCORDANCE WITH THE PROVISIONS HEREOF. EACH OF THE PARTIES HERETO HEREBY EXPRESSLY WAIVES ANY AND ALL OBJECTIONS IT MAY HAVE TO VENUE, INCLUDING, WITHOUT LIMITATION, THE INCONVENIENCE OF SUCH FORUM, IN ANY OF SUCH COURTS.
- XVI. JURY TRIAL WAIVER. THE PARTIES HEREBY UNCONDITIONALLY WAIVE THEIR RIGHT TO A JURY TRIAL OF ANY AND ALL CLAIMS OR CAUSES OF ACTION ARISING FROM OR RELATING TO THEIR RELATIONSHIP. THE PARTIES ACKNOWLEDGE THAT A RIGHT TO A JURY IS A CONSTITUTIONAL RIGHT, THAT THEY HAVE HAD AN OPPORTUNITY TO CONSULT WITH INDEPENDENT COUNSEL, AND THAT THIS JURY WAIVER HAS BEEN ENTERED INTO KNOWINGLY AND VOLUNTARILY BY ALL PARTIES TO THIS AGREEMENT. IN THE EVENT OF LITIGATION, THIS AGREEMENT MAY BE FILED AS A WRITTEN CONSENT TO A TRIAL BY THE COURT.

EVENT OF LITIGATION, THIS AGREEMENT MAY BE COURT.  Approved by Contractor:  Docusigned by:	MP#0001708  CHRISTOPHER RYAN SEIDENSTICKER
Approved by Client: J Michael Wray	

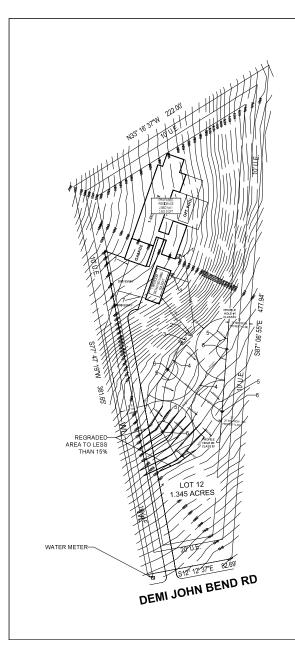
- XVII. Reservation of Rights. Contractor reserves all rights not specifically granted herein.
- XVIII. Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original but all of which together will constitute one and the same instrument.
- XIX. Counsel. Contractor has previously recommended that Client engage counsel to assist him/her/it in reviewing this Agreement and all other matters relating to it. Contractor and Client shall each bear his/her/its own costs and expenses in connection with the negotiation and documentation of this Agreement.
- XX. Entire Agreement: This agreement contains the entire agreement of the parties, and there are no promises or conditions in any other agreement, oral or written. The Parties expressly disclaim reliance on any prior statements, oral or written, by either party not expressly provided for herein.

Client: JMW

Contractor:







#### USE HYDROMULCHING REVEGETATION METHOD AROUND SPRAY AREA

- HYDROMULCHING METHOD ADDS A FIBRE-MULCH TO THE MIXTURE OF SEED, FERTILISER, AND WATER. THE MULCH ESSENTIALLY PROVIDES A SAFEGUARD FOR THE SEED, HELPING IT RETAIN MOISTURE FOR FASTER GERMINATION AND GROWTH, WHILE PROTECTING THE SOL, FROM EROSION AND THE SEEDS FROM WASHING AWAY IN THE RAIN. THESE ORGANIC MULCH FIBRES ARE DESIGNED TO DEGRADE OVER SEVERAL MONTHS, MAKING WAY FOR VEGETATION GROWTH TO ESTABLISM.
- HYDROMULCH WILL KEEP THE SOIL IN PLACE AND DETER ANY FURTHER EROSION FROM HAPPENING SO THAT THE SITE REMAINS INTACT, HYDROMULCH OF LARGE AREAS IN NEW CONSTRUCTION, RECENTLY COMPLETED CONSTRUCTION, AND AREAS THAT HAVE BEEN BURNED OR TILLED FOR RECONSTRUCTION WILL BE TREATED WITH HYDROMULCH.

#### Additional Information:

Disposal I

- Curlex shall be used for stabilizing over the imported soils for the entire field or a vegetative cover is to be use to cover all drain fields prior to final inspection being passed, if field area if increar than 10% slove.
- Any future to the separation to an additional separation to additional separation separation separation separation separation separation separation separation se
- The crinkler system area shall be located a relatively open area at least 100' away from any well area may have to be amended to create a slope of 15' for less, any exposed.
- rock shall be removed or covered prior to operation with 4" suitable soil.

  The field shall be maintained at all times (mowed).

		Į F	
1	3" or 4" SCH 40 W/ 2 WAY CLEANOUT \$ SCREW PLUG MIN   FALL PER 1"	SEE SITE PLAN	S
2	AA750-4290 (750 GPD) ATU	SEE DETAIL	5
3	CHLORINATOR	SEE DETAIL	N
4	I" SCH-40 PVC PURPLE PIPE (USE SCH-40 SLEEVE UNDER ANY IMPROVEMENTS)	SEE SITE PLAN	t t
5	I O' RADIUS TO A TREE	SEE SITE PLAN	N E
6	30' RADIUS K-RAIN PROPLUS I I 003 RCW #4 NOZZLE (180º)	SEE SITE PLAN	9
7	WATER LINE INTO HOME	SEE SITE PLAN	5

#### OSSF DESIGN

#### Proposed system information:

The design is for a single family home and casita (W no kitchen) that is: 4 bedrooms at 2,803 sqft and 1 bedroom at 508 sqft = total 5 bedrooms at 3,311 sqft Total Q = 360 GPD Callons per day using water saving devices.

#### Field Disposal Calculations:

The designed load for this system is 360 GPD.

#### Spray Irrigation:

- Required Field Area: 360 + 0.064 = 5,625 sq. ft. minimum field area
- Provided Field Area: 5,654.87 sq. ft.

#### Sprinkler Heads:

- Number of Heads: 4 (30' Radius @ 180-degree angle.)
- Coverage Area per Head: 1,413.72 sq. ft.
- Sprinkler Setting: 30 PSI, utilizing a 30' radius
- Minimum Spacing of Heads: (refer to site plan)
- Flow (GPM) per Field: (4 x 3.4) GPM = 13.6 GPM

#### Total Daily Irrigation Time:

- 360 GPD + 13.6 GPM = 26.47 minutes/day
- Set timer for 30 minutes starting at 2 AM

#### OSSF DESIGN PROVISIONS

Table IX. OSSF System Designation of the Texas Administrative Code, which is part of Chapter 285 of the On-Site Sewage Facility (OSSF) Rules, specifies the design standards for sewage disposal systems. This section notes that a professional engineer, registered sanitarian is required for the design of Surface Application systems and its planning materials provided that it meets all requirements outlined in the rules.

This design fulfills all the criteria for the design and installation of this system, encompassing aspects such as soil analysis, system sizing, and component placement, among others. The regulations provide comprehensive guidelines and specifications for the design and installation of this system. This OSSF design meets and exceeds the minimum state requirements for OSSF as of June 14, 2023.

The installer must be licensed by the State of Texas and have the governing authority to inspect the system at the required construction and inspection intervals.

#### This site lies in the FEMA floodplain 48091C0090F FIRM effective 9/2/2009

Criteria for Surface Application systems:

This is an aerobic pre-treatment/chlorination system with a surface application effluent disposal on this site. The aerobic unit must be NSF approved and meet all state and local requirements for effluent quality.

#### Design Principles:

Primary treatment of effluent will be accomplished using a NSF approved aerobic treatment unit. Treated effluent will then be distributed evenly over the disposal field area at night. Surface application will be the method of effluent dispersal and disposal. The surface soil conditions for this site are adequate to support vegetation growth.

#### Soil Analysis: Class IV

#### JIUSS I V

all piping shall be bedded with four inches class ib, class ii or, class iii soil with less than 30% gravel. the bedding soil shall be free of organic material and any rocks or grains larger than half inch

all property lines and property pins must be verified prior to septic / ossf installation.

Minimum Required Separation Distances for OSSF Building foundation to sewage treatment tank: 5 Feet

Soil absorption trench to groundwater: 3 Feet

Soil absorption system or sewer pipe to property lines: 5 Feet

Soil absorption system or sewer pipe to water-lines: 10 Feet

Soil absorption system to public utility easements: 1 Feet



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1752 Demi John Bend Road

OUTSKIRTS SEPTIC DESIGNS

04/23/2025

Design by

DANUEL GONZALEZ



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PACIFIC RBLF REO LLC

ddress

1752 DEMI JOHN BEND ROAD CANYON LAKE, TX 78133 COMAL COUNTY

roperty ID

R447873

gal

PARADISE ON THE GUADALUPE LOT 12 UNIT 1

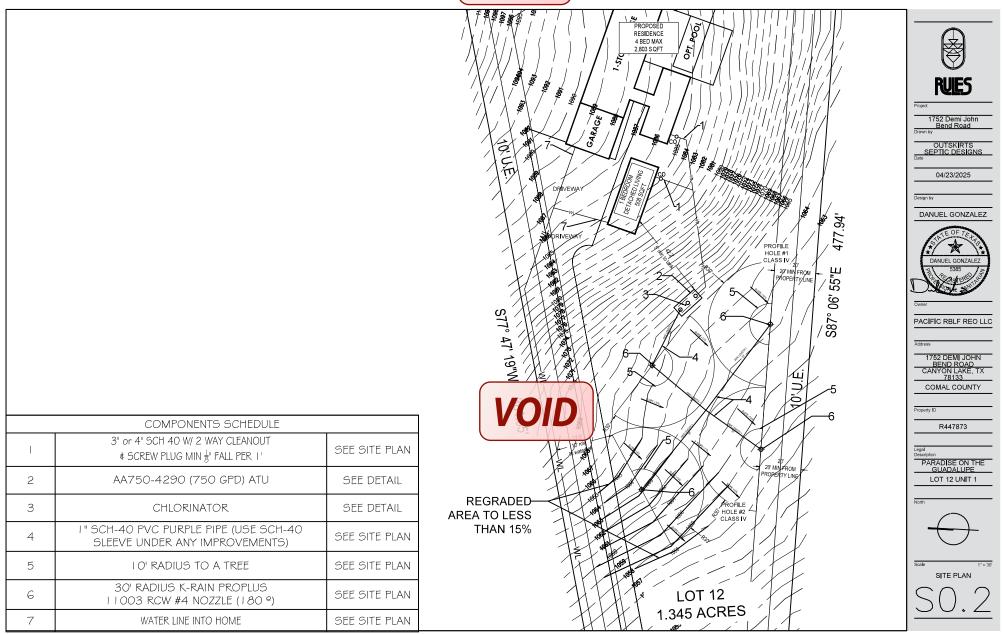
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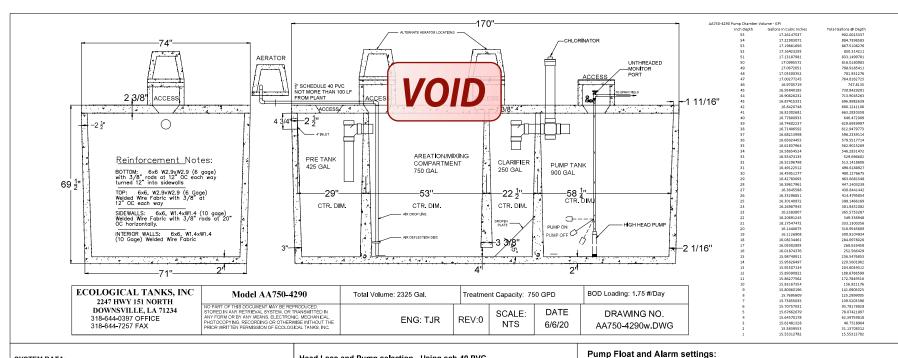
SITE PLAN OVERALL







### REVISED 11:18 am, Apr 25, 2025



1752 Demi John Bend Road

OUTSKIRTS SEPTIC DESIGNS

04/23/2025

Design by

DANUEL GONZALEZ



PACIFIC RBLF REO LLC

1752 DEMI JOHN BEND ROAD CANYON LAKE, TX 78133 COMAL COUNTY

Property ID

R447873

PARADISE ON THE

GUADALUPE LOT 12 UNIT 1

OSSF DETAILS

#### SYSTEM DATA:

#### Chlorinator:

- Tablet Chlorinator: Norweco LF-2000 (calcium hypochlorite tablets) or equivalent.
- Liquid Chlorinator: LBC500 (household liquid chlorine) or equivalent. Pressure Gauge:
- Tank Pressure: 35.60 PSI.
- Flow Regulation: A pressure gauge and ball valve will be installed to regulate flow to irrigation heads.
- Pressure Regulator: Installed before each head to maintain 30 PSI. Collection Port:
- Installation: A plastic hose bib (unthreaded or equivalent) will be installed in the pump chamber for periodic effluent sampling. Pump Timer:
- Controller Model: ETI model 203 with GRASSLIN / FM/1 STUZH-L or equivalent.
- Details: Refer to the site plan for calculation outputs. Alarm System:
- Type: Audio/visual high water alarm (red light).
- Controller Model: ETI model 203 or equivalent.
- Location: Installed in a highly visible location near the pump tank.
- Function: The alarm will shut down the pump in case of aerator or system failure.

#### Head Loss and Pump selection - Using sch-40 PVC

General formula = Hazen Williams method.

h 100ft = 0.002083 (100 / c)1.852 q1.852 / d4.8655

Where.

- h 100ft = head loss in feet of water per 100 ft of pipe (ft h20 /100 ft pipe)
- c = Hazen-Williams roughness constant
- q = volume flow (gal/min)
- d = inside diameter of pipe (inches)



Elevation (including from pump) = 4 feet

Head pressure for Nozzle

30 PSI x 2 31 69.3 feet

Total Loss in feet = 8.94 + 4 + 69.3 = 82.24 feet or 35.60 PSI

Provide 13.6 GPM @ 82.24 Ft

Use: Ashland Pump 10CPM-115 (see spec sheet) or equivalent

AA-500-4075 Pump Tank: 902 gal (see table for gals/inch):

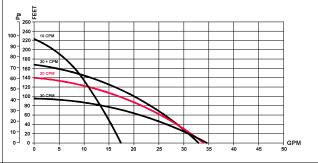
Alarm Height = 37 inches

Operational Vol = 300 gal - (18" or 305,767 gal)

Pump on = 8 inches (502.451 gal)

= 6 inches (93,782 gal) Pump off

#### ASHLAND PUMP CPM SERIES CISTERN PUMP PERFORMANCE ASHLAND PUMP 20 CPM-115 or EQUIVALENT





# **REVISED**11:18 am, Apr 25, 2025

#### TAKING CARE OF YOUR SYSTEM

To prevent your system from failing, there are several important considerations that must be taken into account to ensure that the system functions properly, including:

- Maintenance: Regular maintenance of the system is essential to prevent problems and ensure that it continues to function properly. This includes regular pumping of the septic tank, inspection of the distribution box and drainfield, and other routine tasks.
- Water usage: The amount of water used in the household can have a significant impact on the performance of the system. It is important to avoid excessive water usage, such as running multiple appliances or fixtures simultaneously, as this can overwhelm the system and cause it to fail
- Landscaping: Careful landscaping around the drainfield area is important to ensure that the system functions properly. It is important to avoid planting trees or shrubs near the drainfield, as the roots can damage the pipes and prevent proper drainage.

The following guidelines can help you to avoid these types of chemicals as they should not be disposed of into the system which include any harsh or toxic chemicals that can damage the beneficial bacteria in the septic tank that help to break down waste. This includes the following:

- Household cleaners: Many common household cleaners contain harsh chemicals that can harm the bacteria in the septic tank, Examples include bleach, disinfectants, and drain cleaners.
- Personal care products: Certain personal care products, such as soaps, shampoos, and lotions, can contain chemicals that are harmful to the septic system. It is important to use these products in moderation and to avoid excessive use.
- 6. Pesticides and herbicides: Any type of pesticide or herbicide should be avoided, as these can harm the bacteria in the septic tank and may also contaminate the surrounding environment.
- Medications: Unused or expired medications should never be disposed of into the septic system, as they can harm the bacteria in the septic tank and may also contaminate the surrounding environment.

Minimum Required Separation Distances for OSSF Building foundation to sewage treatment tank: 5 Feet Soil absorption trench to groundwater: 3 Feet Soil absorption system or sewer pipe to property lines: 5 Feet Soil absorption system or sewer pipe to water-lines: 10 Feet Soil absorption system to public utility easements: 1 Feet

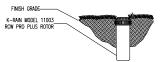
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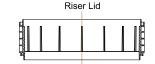
### K-RAIN PROPLUS 11003 RCW. PERFORMANCE DATA LOW ANGLE DATA

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	60	37'	3.8
#4	30	31'	3.4
	40	34'	3.9
	50	37'	4.4
	60	38'	4.7
#6	40	38'	6.5
	50	40'	7.3
	60	42'	8.0
	70	44'	8.6





## RISER DETAIL W/OPTIONAL COMPONENTS TYPICAL NTS DIAMETER AND DEPTH VARIES







Risers must be securely attached, watertight, and protected against unauthorized access. Risers and tank inspection ports will be required to have access safety provisions per 30 TAC 285.38 (12/29/2016).

All tank ports larger than 12-inches in diameter to have risers with access restriction to 2-inches above grade per 30 tac 285.38 (effective 9/1/2023).



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1752 Demi John Bend Road

OUTSKIRTS SEPTIC DESIGNS

04/23/2025

Design by

DANUEL GONZALEZ



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PACIFIC RBLF REO LLC

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1752 DEMI JOHN BEND ROAD CANYON LAKE, TX 78133 COMAL COUNTY

norty ID

R447873

gal

PARADISE ON THE GUADALUPE LOT 12 UNIT 1

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de OCCE DETAILS

50.4

From: Ritzen, Brenda

To: "LibertyHillTX Septics & Excavation"; Danuel Gonzalez
Cc: katie@psseptics.com; "(gregjohnsonpe@yahoo.com)"

**Subject:** RE: Revisions 118165

**Date:** Friday, April 25, 2025 11:34:00 AM

Attachments: <u>image001.png</u>

Terra,

Revisions have been approved.

Thank you,



#### Brenda Ritzen

Environmental Health Coordinator 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS00007722 830-608-2090 www.cceo.org

From: LibertyHillTX Septics & Excavation < Ihtxseptics.excavation@gmail.com>

**Sent:** Thursday, April 24, 2025 9:41 PM

To: Ritzen, Brenda < rabbjr@co.comal.tx.us>; Danuel Gonzalez < gonzalez.danuel.a@gmail.com>

Subject: Re: Revisions 118165

## This email originated from outside of the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

- Comal IT

Hi Brenda,

Attached is the revised design and application. Please let us know if there is anything we need to change.

Thank you so much for your patience, Terra

On Wed, Apr 23, 2025 at 11:31 AM Ritzen, Brenda < rabbir@co.comal.tx.us > wrote:

From: Ritzen, Brenda

To: <u>LibertyHillTX Septics & Excavation</u>

**Subject:** RE: Revisions 118165

**Date:** Wednesday, April 23, 2025 11:30:00 AM

Attachments: <u>image001.png</u>

pages from 118165.pdf

#### Terra.

I have reviewed the revised planning materials and found the following information is still needed:

There is conflicting information on the permit application (pages 1 & 2) and the design on the number of bedrooms and sq. ft. of living area and system design requirements. Note: As per the design -s 4 bedrooms less than 3500 sq. ft. plus 1 bedroom detached living less than 1500 sq. ft. allows a maximum of 4998 sq, ft. (6 bedrooms). This would require a system sized for 420 gpd.

- The permit application indicates that Greg Johnson is the agent for this permit.
- The designer must sign the 2<sup>nd</sup> page of the permit application.
- Revise as needed and resubmit.

### Thank you,



#### Brenda Ritzen

Environmental Health Coordinator 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS00007722 830-608-2090 www.cceo.org By KG at 8:34 am, Apr 13, 2022

DocuSign Envelope ID: 70991777-4E53-4428-ACED-0034D503D5CE



Signature of Owner 2



195 DAVID JONAS DR NEW BRAUNFELS, TX 78132 (830) 608-2090 WWW.CCEO.ORG

				The Control of the Land of the Land		
Date /2/6	100		Permit N	lumber	1434	6
1 APPLICANT	/ AGENT INFORMATION			1	1816	5
Owner Name	MIDCENTURY CUSTOM HOMES, LLC	Agent Name	GF	REG W. JOHN	ISON, F	P.E.
Mailing Address		Agent Address		170 Hollow	-	
City, State, Zip	The second secon	City, State, Zip				132
Phone #	830-935-4936	Phone #		830-905-2		
Email	katelyn@psseptics.com	Email	gregi	ohnsonpe@	yahoo.	com
2. LOCATION	Taxon	_	0 0,	•		
Subdivision Nar	me PARADISE ON THE GUADALUPE	Un	t 1	Lot	12	Block
	Abstract Number				eage	
	DEMI JOHN BEND RD.				-	Zip 78130
3. TYPE OF DE	ENGLISHED MAN CONTRACTOR AND					
X Single Far	mily Residential					
	construction (House, Mobile, RV, Etc.) HO	USE ADETACHEN	LIVING			
	of Bedrooms 4+1					
Indicate S	Sq Ft of Living Area 2803+508					
-	e Family Residential					
	naterials must show adequate land area for doubling	the required land needs	d for treat	ment units ar	nd dispo	osal area)
Type of F	acility					
	actories, Churches, Schools, Parks, Etc Indica		ants			
	nts, Lounges, Theaters - Indicate Number of Se					
	tel, Hospital, Nursing Home - Indicate Number o					
	ailer/RV Parks - Indicate Number of Spaces					
Miscellan						
Estimated Co	st of Construction: \$ 500,000	(Structure Only)				
Is any portion	of the proposed OSSF located in the United	ates Army Corps of E	ngineers	(USACE) flo	wage	easement?
Yes X	No (If yes, owner must provide approval from USAC	prove	ments with	in the USACE	flowage	easement)
Source of Wat	ter 🔀 Public 🗌 Private Well					
4. SIGNATURE						
- The completed a	plication, I certify that: application and all additional information submitted do at I am the property owner or I possess the appropria					
- Authorization is I	nereby given to the permitting authority and designate on and inspection of private sewage facilities	ed agents to enter upon	the above	described pr	operty	for the purpose of
<ul> <li>I understand that by the Comal Co</li> </ul>	t a permit of authorization to construct will not be issu- bunty Flood Damage Prevention Order.					
	ពុន្ធ <del>មស្តុ</del> to the online posting/public release of my e-ma			mit applicatio	n, as a	ррисавіе.
J Muc	liael Wray	1 <b>2/</b> 12/	<b>ZUZ4</b>			

Date



#### ON-SITE SEWAGE FACILITY APPLICATION

195 DAVID JONAS DR NEW BRAUNFELS, TX 78132 (830) 608-2090 WWW.CCEO.ORG

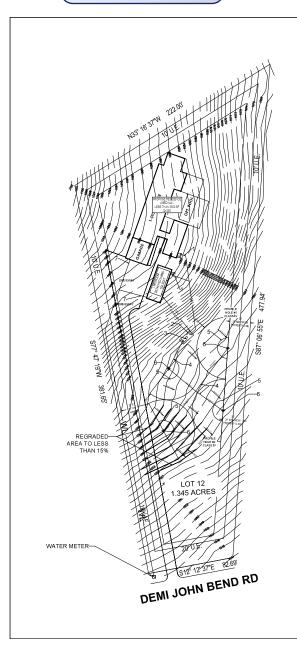
VOID

Planning Materials & Site Evaluation as Required Completed By Danuel Gonzalez, R.S. 5385, S.E. OS0038056 System Description Aerobic Surface Application Size of Septic System Required Based on Planning Materials & Soil Evaluation Absorption/Application Area (Sq Ft) Tank Size(s) (Gallons) 500 GPD 5.284.16 Gallons Per Day (As Per TCEQ Table III) (Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ.) Is the property located over the Edwards Recharge Zone? Yes X No (If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.)) Is there an existing TCEQ approved WPAP for the property? Yes X No (If yes, the R.S. or P.E. shall certify that the OSSF design complies with all provisions of the existing WPAP.) Is there at least one acre per single family dwelling as per 285.40(c)(1)? X Yes If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP? (If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.) Is the property located over the Edwards Contributing Zone? Is there an existing TCEQ approval CZP for the property? Yes X (If yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP.) If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? (If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to Construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.) Is this property within an incorporated city? If yes, indicate the city: Canvon Lake By signing this application, I certify that: - The information provided above is true and correct to the best of my knowledge. - I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable. Danuel Gonzalez, R.S. 4/15/2025 Date Signature of Designer

### **REVISED**

10:51 am, Apr 23, 2025





#### USE HYDROMULCHING REVEGETATION METHOD AROUND SPRAY AREA

- HYDROMULCHING METHOD ADDS A FIBRE-MULCH TO THE MIXTURE OF SEED, FERTILISER, AND WATER. THE MULCH ESSENTIALLY PROVIDES A SAFEGUARD FOR THE SEED, HELPING IT RETAIN MOISTURE FOR FASTER GERMINATION AND GROWTH, WHILE PROTECTING THE SOL, FROM EROSION AND THE SEEDS FROM WASHING AWAY IN THE RAIN, THESE ORGANIC MULCH FIBRES ARE DESIGNED TO DEGRADE OVER SEVERAL MONTHS, MAKING WAY FOR VEGETATION GROWTH TO ESTABLISM.
- HYDROMULCH WILL KEEP THE SOIL IN PLACE AND DETER ANY FURTHER EROSION FROM HAPPENING SO THAT THE SITE REMAINS INTACT, HYDROMULCH OF LARGE AREAS IN NEW CONSTRUCTION, RECENTLY COMPLETED CONSTRUCTION, AND AREAS THAT HAVE BEEN BURNED OR TILLED FOR RECONSTRUCTION WILL BE TREATED WITH HYDROMULCH.

#### Additional Information:

- Curlex shall be used for stabilizing over the imported soils for the entire field or a vegetative cover is to be use to cover all drain fields prior to final inspection being passed, if field area is greater than 10% slope.
- Any future potable water line, such as swimming pool, irrigation etc must maintain 10' separation to any ossf component.

#### Disposal Field Finish:

- The sprinkler system area shall be located in a relatively open area at least 100' away from any well and 10' from any property lines. Spray heads must be 10' from any obstacle.
- The field area may have to be amended to create a slope of 15% or less, any exposed rock shall be removed or covered prior to operation with 4" suitable soil.
- The field shall be maintained at all times (mowed).

			יו
	COMPONENTS SCHEDULE		
1	3" or 4" SCH 40 W/ 2 WAY CLEANOUT \$SCREW PLUG MIN \{" FALL PER !"	SEE SITE PLAN	
2	AA750-4290 (75) GIVOII	SEE DETAIL	1
3	CHLORINA OR V UIL	SEE DETAIL	1
4	I " SCH-40 PVC PURPLE P <u>PE (USE SCH-40</u> SLEEVE UNDER ANY IMPROVEMENTS)	SEE SITE PLAN	
5	10' RADIUS TO A TREE	SEE SITE PLAN	
6	30' RADIUS K-RAIN PROPLUS I 1003 RCW #4 NOZZLE (180º)	SEE SITE PLAN	:
7	WATER LINE INTO HOME	SEE SITE PLAN	:
	·		_

#### OSSF DESIGN

Proposed system information:

The design is for a single family home and casita that is:
4 bedrooms or 3,500 sq ft or less and 1 bedroom or 1,500 sqft or less
Total Q = 360 GPD Gallons per day using water saving devices.

Field Disposal Calculations:

The designed load for this system is 360 GPD.

#### Spray Irrigation:

- Required Field Area: 360 + 0.064 = 5,625 sq. ft. minimum field area
- Provided Field Area: 5,654.87 sq. ft.

#### Sprinkler Heads:

- Number of Heads: 4 (30' Radius @ 180-degree angle.)
- Coverage Area per Head: 1,413.72 sq. ft.
- Sprinkler Setting: 30 PSI, utilizing a 30' radius
- Minimum Spacing of Heads: (refer to site plan)
- Flow (GPM) per Field: (4 x 3.4) GPM = 13.6 GPM

#### **Total Daily Irrigation Time:**

- 360 GPD + 13.6 GPM = 26.47 minutes/day
- Set timer for 30 minutes starting at 2 AM

#### OSSF DESIGN PROVISIONS

Table IX. OSSF System Designation of the Texas Administrative Code, which is part of Chapter 285 of the On-Site Sewage Facility (OSSF) Rules, specifies the design standards for sewage disposal systems. This section notes that a professional engineer, registered sanitarian is required for the design of Surface Application systems and its planning materials provided that it meets all requirements outlined in the rules.

This design fulfills all the criteria for the design and installation of this system, encompassing aspects such as soil analysis, system sizing, and component placement, among others. The regulations provide comprehensive guidelines and specifications for the design and installation of this system. This OSSF design meets and exceeds the minimum state requirements for OSSF as of June 14, 2023.

The installer must be licensed by the State of Texas and have the governing authority to inspect the system at the required construction and inspection intervals.

This site lies in the FEMA floodplain 48091C0090F FIRM effective 9/2/2009

Criteria for Surface Application systems:

This is an aerobic pre-treatment/chlorination system with a surface application effluent disposal on this site. The aerobic unit must be NSF approved and meet all state and local requirements for effluent quality.

#### Design Principles:

Primary treatment of effluent will be accomplished using a NSF approved aerobic treatment unit. Treated effluent will then be distributed evenly over the disposal field area at night. Surface application will be the method of effluent dispersal and disposal. The surface soil conditions for this site are adequate to support vegetation growth.

#### Soil Analysis: Class IV

#### JIUSS I V

all piping shall be bedded with four inches class ib, class ii or, class iii soil with less than 30% gravel. the bedding soil shall be free of organic material and any rocks or grains larger than half inch

all property lines and property pins must be verified prior to septic / ossf installation.

Minimum Required Separation Distances for OSSF

Building foundation to sewage treatment tank: 5 Feet

Soil absorption trench to groundwater: 3 Feet

Soil absorption system or sewer pipe to property lines: 5 Feet Soil absorption system or sewer pipe to water-lines: 10 Feet

Soil absorption system to public utility easements: 1 Feet



oiect

1752 Demi John Bend Road

OUTSKIRTS SEPTIC DESIGNS

04/17/2025

Design by

DANUEL GONZALEZ



~----

PACIFIC RBLF REO LLC

ddress

1752 DEMI JOHN BEND ROAD CANYON LAKE, TX 78133 COMAL COUNTY

perty ID

R447873

al

PARADISE ON THE GUADALUPE LOT 12 UNIT 1

lorth



SITE PLAN OVERALL

From: Ritzen, Brenda

To: <u>LibertyHillTX Septics & Excavation</u>

**Subject:** RE: Revisions 118165

**Date:** Thursday, April 17, 2025 2:03:00 PM

Attachments: image001.png

#### Terra.

I have reviewed the revised planning materials and found the following information is needed before I can continue processing the referenced revision submittal:

- There is conflicting information on the permit application (pages 1 & 2) and the design on the number of bedrooms and sq. ft. of living area and system design requirements.
- 2. The permit application indicates that Greg Johnson is the agent for this permit.
- 3. The designer must sign the 2<sup>nd</sup> page of the permit application and the planning materials.
- 4. Designer must provide the following:
  - a. Sign the 2<sup>nd</sup> page of the permit application and the planning materials.
  - Maintain required 20 ft. setback from the edge of the spray areas to the property lines.
  - ▼∴ Indicate the amount of slope thru the spray area.
  - Submit a vegetation plan for the spray area.
  - Show location of water line to detached living area.
- 5. Revise as needed and resubmit.

#### Thank you,



#### Brenda Ritzen

Environmental Health Coordinator 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS00007722 830-608-2090 www.cceo.org

From: LibertyHillTX Septics & Excavation < lhtxseptics.excavation@gmail.com>

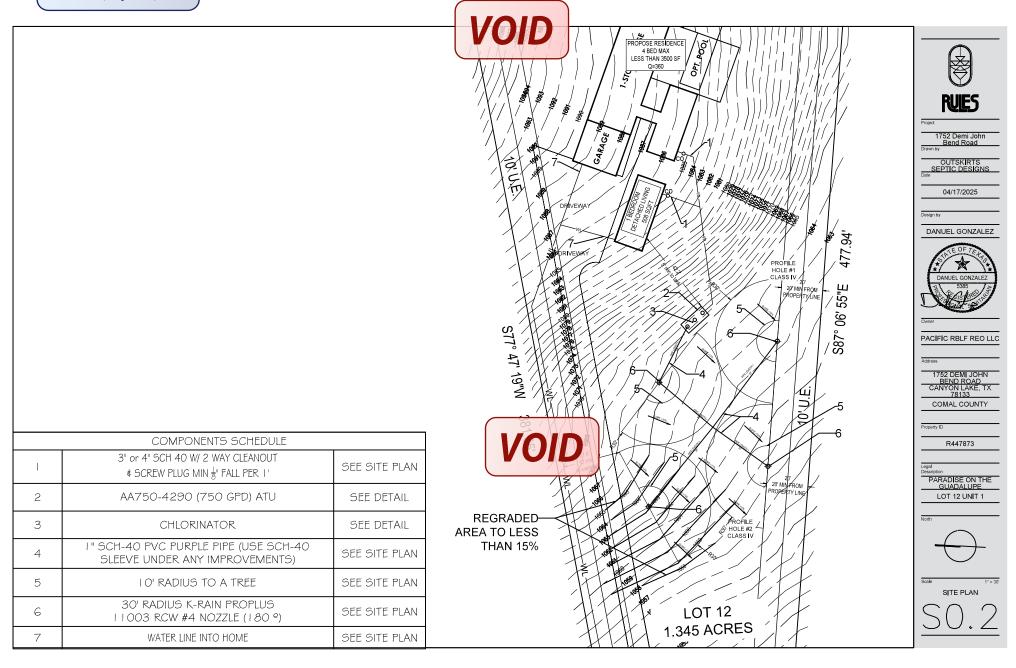
**Sent:** Thursday, April 17, 2025 11:44 AM

To: Ritzen, Brenda < rabbjr@co.comal.tx.us>; LHTX Contracting < lhtxseptics.excavation@gmail.com>

Subject: Fwd: Revisions 118 165

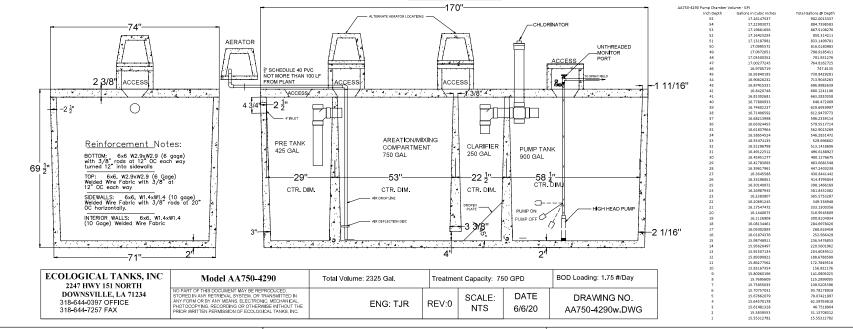
This email originated from outside of the organization.

**REVISED**10:51 am, Apr 23, 2025









1752 Demi John Bend Road

OUTSKIRTS SEPTIC DESIGNS

04/17/2025

Design by

DANUEL GONZALEZ



PACIFIC RBLF REO LLC

1752 DEMI JOHN BEND ROAD CANYON LAKE, TX 78133 COMAL COUNTY

R447873

PARADISE ON THE

GUADALUPE LOT 12 UNIT 1

OSSF DETAILS

#### SYSTEM DATA:

#### Chlorinator

- Tablet Chlorinator: Norweco LF-2000 (calcium hypochlorite tablets) or equivalent.
- Liquid Chlorinator: LBC500 (household liquid chlorine) or equivalent. Pressure Gauge:
- Tank Pressure: 35.60 PSI.
- Flow Regulation: A pressure gauge and ball valve will be installed to regulate flow to irrigation heads.
- Pressure Regulator: Installed before each head to maintain 30 PSI. Collection Port:
- Installation: A plastic hose bib (unthreaded or equivalent) will be installed in the pump chamber for periodic effluent sampling. Pump Timer:
- Controller Model: ETI model 203 with GRASSLIN / FM/1 STUZH-L or equivalent.
- Details: Refer to the site plan for calculation outputs. Alarm System:
- Type: Audio/visual high water alarm (red light).
- Controller Model: ETI model 203 or equivalent.
- Location: Installed in a highly visible location near the pump tank.
- Function: The alarm will shut down the pump in case of aerator or system failure.

#### Head Loss and Pump selection - Using sch-40 PVC

General formula = Hazen Williams method.

h 100ft = 0.002083 (100 / c)1.852 q1.852 / d4.8655

Where.

- h 100ft = head loss in feet of water per 100 ft of pipe (ft h20 /100 ft pipe)
- c = Hazen-Williams roughness constant
- q = volume flow (gal/min)
- d = inside diameter of pipe (inches)

Loss in Supply line to

Head 1 1" Supply (13.6 GMP) @ 30 feet = 3.71 Loss (ft) Pipe to split point = 1" Supply (10.2 GMP) @ 34 feet = 2.46 Loss (ft)

Head 2 = 1" Supply (3.4 GMP) @ 53 feet = 0.50 Loss (ff

Head 3 1" Supply (3.4 GMP) Head 4 1" Supply (3.4 GMP)

Loss in Fittings (20%) = 7.45 (1.20) = 8.94 L

Elevation (including from pump) = 4 feet

Head pressure for Nozzle

30 PSI x 2 31 69.3 feet

Total Loss in feet = 8.94 + 4 + 69.3 = 82.24 feet or 35.60 PSI

Provide 13.6 GPM @ 82.24 Ft

Use: Ashland Pump 10CPM-115 (see spec sheet) or equivalent

#### Pump Float and Alarm settings:

AA-500-4075 Pump Tank: 902 gal (see table for gals/inch):

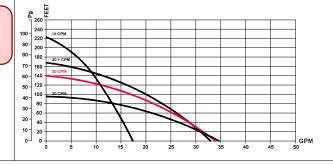
Alarm Height = 37 inches

Operational Vol = 300 gal - (18" or 305,767 gal)

Pump on = 8 inches (502.451 gal)

= 6 inches (93,782 gal) Pump off

#### ASHLAND PUMP CPM SERIES CISTERN PUMP PERFORMANCE ASHLAND PUMP 20 CPM-115 or EQUIVALENT





## VOID

#### TAKING CARE OF YOUR SYSTEM

To prevent your system from failing, there are several important considerations that must be taken into account to ensure that the system functions properly, including:

- Maintenance: Regular maintenance of the system is essential to prevent problems and ensure that it continues to function properly. This includes regular pumping of the septic tank, inspection of the distribution box and drainfield, and other routine tasks.
- Water usage: The amount of water used in the household can have a significant impact on the performance of the system. It is important to avoid excessive water usage, such as running multiple appliances or fixtures simultaneously, as this can overwhelm the system and cause it to fail
- Landscaping: Careful landscaping around the drainfield area is important to ensure that the system functions properly. It is important to avoid planting trees or shrubs near the drainfield, as the roots can damage the pipes and prevent proper drainage.

The following guidelines can help you to avoid these types of chemicals as they should not be disposed of into the system which include any harsh or toxic chemicals that can damage the beneficial bacteria in the septic tank that help to break down waste. This includes the following:

- 4. Household cleaners: Many common household cleaners contain harsh chemicals that can harm the bacteria in the septic tank, Examples include bleach, disinfectants, and drain cleaners.
- Personal care products: Certain personal care products, such as soaps, shampoos, and lotions, can contain chemicals that are harmful to the septic system. It is important to use these products in moderation and to avoid excessive use.
- 6. Pesticides and herbicides: Any type of pesticide or herbicide should be avoided, as these can harm the bacteria in the septic tank and may also contaminate the surrounding environment.
- Medications: Unused or expired medications should never be disposed of into the septic system, as they can harm the bacteria in the septic tank and may also contaminate the surrounding environment.

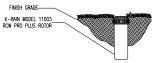
Minimum Required Separation Distances for OSSF Building foundation to sewage treatment tank: 5 Feet Soil absorption trench to groundwater: 3 Feet Soil absorption system or sewer pipe to property lines: 5 Feet Soil absorption system or sewer pipe to water-lines: 10 Feet Soil absorption system to public utility easements: 1 Feet

#### Additional Information:

- Curlex shall be used for stabilizing over the imported soils for the entire field
  or a vegetative cover is to be use to cover all drain fields prior to final inspection
  being passed, if field area is greater than 10% slope.
- Any future potable water line, such as swimming pool, irrigation etc must maintain 10' separation to any ossf component.

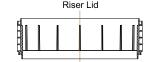
#### K-RAIN PROPLUS 11003 RCW<sub>\*</sub>, PERFORMANCE DATA LOW ANGLE DATA

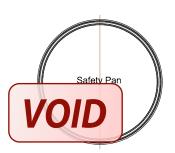
NOZZLE	PRESSURE PSI	RADIUS FT.	FLOW GPM
#1	30	22'	1.2
	40	24'	1.7
	50	26'	1.8
	60	28'	2.0
#3	30	29'	3.0
	40	32'	3.1
	50	35'	3.5
	60	37'	3.8
#4	30	31'	3,4
# <b>-</b>	40	34'	3.9
	50	37'	4.4
	60	38'	4.7
#6	40	38'	6.5
	50	40'	7.3
	60	42'	8.0
	70	44'	8.6





## RISER DETAIL W/OPTIONAL COMPONENTS TYPICAL NTS DIAMETER AND DEPTH VARIES







Risers must be securely attached, watertight,

will be required to have access safety provisions

and protected against unauthorized access.

All tank ports larger than 12-inches in

Risers and tank inspection ports

per 30 TAC 285.38 (12/29/2016).

with access restriction to 2-inches

diameter to have risers

above grade per 30 tac

285.38 (effective 9/1/2023).



Project

1752 Demi John Bend Road

OUTSKIRTS SEPTIC DESIGNS

04/17/2025

Design by

DANUEL GONZALEZ



Owner

PACIFIC RBLF REO LLC

A did----

1752 DEMI JOHN
BEND ROAD
CANYON LAKE, TX
78133
COMAL COUNTY

R447873

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PARADISE ON THE GUADALUPE LOT 12 UNIT 1

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SO.4



Planning Materials & Site Evaluation as Required Completed By GREG W. JOHNSON, P.E.	
System Description PROPRIETARY; AEROBIC TREATMENT AND SURFACE IRRIGATION	
Size of Septic System Required Based on Planning Materials & Soil Evaluation	
Tank Size(s) (Gallons) MAXX AIR M800 Absorption/Application Area (Sq Ft) 5654	
Gallons Per Day (As Per TCEQ Table III)	
Is the property located over the Edwards Recharge Zone?  Yes No  (If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.))  Is there an existing TCEQ approved WPAP for the property?  Yes No  (if yes, the R. S. or P. E. shall certify that the OSSF design complies with all provisions of the existing WPAP.)	
If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP?   Yes No  (If yes, the R.S. or P. E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)	
Is the property located over the Edwards Contributing Zone? 🛛 Yes 🔲 No	
Is there an existing TCEQ approval CZP for the property? Yes No  (if yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP)  If there is no existing CZP, does the proposed development of the proposed CZP, does the proposed development of the proposed CZP. A Permit to construct will) not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)	
Is this property within an incorporated city? Yes No  If yes, indicate the city:  GREG W. JOHNSON  B. AG7587  B. AG7587	
By signing this application, I certify that:  - The information provided above is true and correct to the best of my knowledge.  - I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable  10/25/2021	-
Signature of Designer Page 2 of 2	2



### Greg W. Johnson, P.E.

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

October 23, 2021

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

RESEPTIC DESIGN
1752 DEMI JOHN BEND RD.
PARADISE ON THE GUADALUPE, UNIT 1, LOT 12
CANYON LAKE, TX 78133
MIDCENTURY CUSTOM HOMES, LLC

Ms. Brenda Ritzen/Allyse Gros,

The referenced property is located within the Edwards Aquifer Contributing Zone. This OSSF design will comply with requirements in the CZP.

Temporary erosion and sedimentation controls should be utilized as necessary prior to construction. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, activities must be suspended immediately and the applicant or his agent must immediately notify the TCEQ Regional Office. After that operations can only proceed after the Executive Director approves

Designed in accordance with Chapter 285, Subchapter D, §285.40,285.41, & 285.42, Texas Commission on Environmental Quality (Effective December 29, 2016).

Greg W. Johnson, P.E. No. 67587 / F#2585

170 Hollow Oak

New Braunfels, Texas 78132 - 830/905-2778



October 25, 2021

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

RE- Septic Design

1752 DEMI JOHN BEND RD
PARADISE ON THE GUADALUPE, UNIT 1, LOT 12
CANYON LAKE, TX 78133
MIDCENTURY CUSTOM HOMES, LLC

#### Ms. Ritzen/Gros,

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 including a 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.

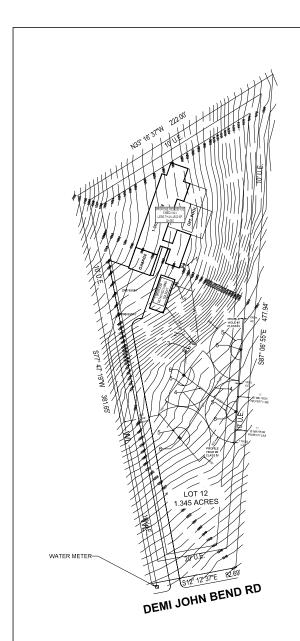
Respectfully yours,

October 25, 2021

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







#### Additional Information:

- Curlex shall be used for stabilizing over the imported soils for the entire field or a
  vegetative cover is to be use to cover all drain fields prior to final inspection being passed, if
  field area is greater than 10% slope.
- Any future potable water line, such as swimming pool, irrigation etc must maintain 10' separation to any ossf component.

#### Disposal Field Finish:

- The sprinkler system area shall be located in a relatively open area at least 100' away from any well and 10' from any property lines. Spray heads must be 10' from any obstacle.
   The field area may have to be amended to create a slope of 15% or 15% or lock shall be removed or covered prior to operation with 4" suitable soil.
- The field shall be maintained at all times (mowed).

	COMPONENTS SCHEDULE		F
ı	31 of 415 <b>VOID</b>	SEE SITE PLAN	3
2	AAT 50-4290 (750 GPD) ATU	SEE DETAIL	:
3	CHLORINATOR	SEE DETAIL	1
4	I" SCH-40 PVC PURPLE PIPE (USE SCH-40 SLEEVE UNDER ANY IMPROVEMENTS)	SEE SITE PLAN	t
5	I O' RADIUS TO A TREE	SEE SITE PLAN	î P E
6	30' RADIUS K-RAIN PROPLUS I I 003 RCW #4 NOZZLE (180º)	SEE SITE PLAN	0, 0,
7	WATER LINE INTO HOME	SEE SITE PLAN	3

#### OSSF DESIGN

Proposed system information:
The design is for a single family home that is:
5 bedrooms or 4,500 sq ft or less
Total Q = 380 GPD Gallons per day using water saving devices.

#### Field Disposal Calculations:

The designed load for this system is 360 GPD.

#### Spray Irrigation:

- Required Field Area: 360 + 0.064 = 5,625 sq. ft. minimum field area
- Provided Field Area: 5,654.87 sq. ft.

#### Sprinkler Heads:

- Number of Heads: 4 (30' Radius @ 180-degree angle.)
- Coverage Area per Head: 1,413.72 sq. ft.
- Sprinkler Setting: 30 PSI, utilizing a 30' radius
- Minimum Spacing of Heads: (refer to site plan)
- Flow (GPM) per Field: (4 x 3.4) GPM = 13.6 GPM

#### Total Daily Irrigation Time:

- 360 GPD + 13.6 GPM = 26.47 minutes/day
- Set timer for 30 minutes starting at 2 AM

#### OSSF DESIGN PROVISIONS

Table IX. OSSF System Designation of the Texas Administrative Code, which is part of Chapter 285 of the On-Site Sewage Facility (OSSF) Rules, specifies the design standards for sewage disposal systems. This section notes that a professional engineer, registered sanitarian is required for the design of Surface Application systems and its planning materials provided that it meets all requirements outlined in the rules.

This design fulfills all the criteria for the design and installation of this system, encompassing aspects such as soil analysis, system sizing, and component placement, among others. The regulations provide comprehensive guidelines and specifications for the design and installation of this system. This OSSF design meets and exceeds the minimum state requirements for OSSF as of June 14, 2023.

The installer must be licensed by the State of Texas and have the governing authority to inspect the system at the required construction and inspection intervals.

This site lies in the FEMA floodplain 48091 C0090F FIRM effective 9/2/2009

Criteria for Surface Application systems:

This is an aerobic pre-treatment/chlorination system with a surface application effluent disposal on this site. The aerobic unit must be NSF approved and meet all state and local requirements for effluent quality.

#### Design Principles:

Primary treatment of effluent will be accomplished using a NSF approved aerobic treatment unit. Treated effluent will then be distributed evenly over the disposal field area at night. Surface application will be the method of effluent dispersal and disposal. The surface soil conditions for this site are adequate to support vegetation growth.

#### Soil Analysis:

Class IV

all piping shall be bedded with four inches class ib, class ii or, class iii soil with less than 30% gravet, the bedding soil shall be free of organic material and any rocks or grains larger than half inch

all property lines and property pins must be verified prior to septic / ossf installation.

Minimum Required Separation Distances for OSSF

Building foundation to sewage treatment tank: 5 Feet

Soil absorption trench to groundwater: 3 Feet

Soil absorption system or sewer pipe to property lines: 5 Feet Soil absorption system or sewer pipe to water-lines: 10 Feet

Soil absorption system to public utility easements: 1 Feet



1752 Demi John Bend Road

OUTSKIRTS SEPTIC DESIGNS

04/16/2025

Design by

DANUEL GONZALEZ



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PACIFIC RBLF REO LLC

ddress

1752 DEMI JOHN
BEND ROAD
CANYON LAKE, TX
78133
COMAL COUNTY

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R447873

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PARADISE ON THE GUADALUPE LOT 12 UNIT 1

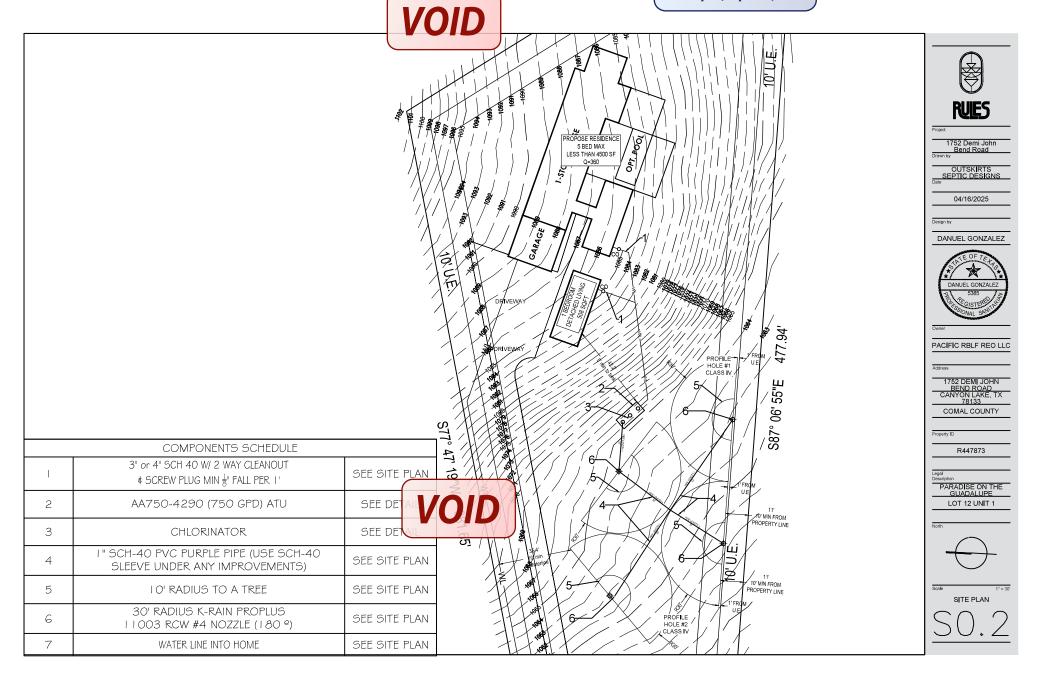
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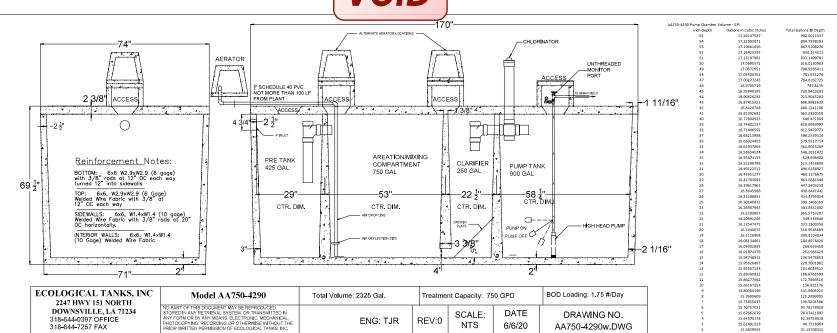
SITE PLAN OVERALL

**REVISED** 

12:54 pm, Apr 17, 2025



## **REVISED** 12:54 pm, Apr 17, 2025



REV:0

NTS

6/6/20

## DANUEL GONZALEZ

Design by

PACIFIC RBLF REO LLC

1752 Demi John Bend Road

OUTSKIRTS SEPTIC DESIGNS

04/16/2025

DANUEL GONZALEZ

1752 DEMI JOHN BEND ROAD CANYON LAKE, TX 78133 COMAL COUNTY

R447873

PARADISE ON THE GUADALUPE LOT 12 UNIT 1

OSSF DETAILS

#### SYSTEM DATA:

#### Chlorinator

- Tablet Chlorinator: Norweco LF-2000 (calcium hypochlorite tablets) or equivalent.
- Liquid Chlorinator: LBC500 (household liquid chlorine) or equivalent. Pressure Gauge:

318-644-0397 OFFICE

318-644-7257 FAX

- Tank Pressure: 34.90 PSI.
- Flow Regulation: A pressure gauge and ball valve will be installed to regulate flow to irrigation heads.
- Pressure Regulator: Installed before each head to maintain 30 PSI. Collection Port:
- Installation: A plastic hose bib (unthreaded or equivalent) will be installed in the pump chamber for periodic effluent sampling. Pump Timer:
- Controller Model: ETI model 203 with GRASSLIN / FM/1 STUZH-L or equivalent.
- Details: Refer to the site plan for calculation outputs. Alarm System:
- Type: Audio/visual high water alarm (red light).
- Controller Model: ETI model 203 or equivalent.
- Location: Installed in a highly visible location near the pump tank.
- Function: The alarm will shut down the pump in case of aerator or system failure.

#### Head Loss and Pump selection - Using sch-40 PVC

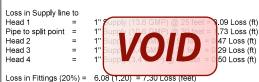
General formula = Hazen Williams method.

h 100ft = 0.002083 (100 / c)1.852 q1.852 / d4.8655 Where.

h 100ft = head loss in feet of water per 100 ft of pipe (ft h20 /100 ft pipe)

ENG: TJR

- c = Hazen-Williams roughness constant
- q = volume flow (gal/min)
- d = inside diameter of pipe (inches)



Elevation (including from pump) = 4 feet

Head pressure for Nozzle

30 PSI x 2 31 69.3 feet

Total Loss in feet = 7.30 + 4 + 69.3 = 80.60 feet or 34.90 PSI

Provide 13.6 GPM @ 80.60 Ft

Use: Ashland Pump 10CPM-115 (see spec sheet) or equivalent



AA750-4290w.DWG

AA-500-4075 Pump Tank: 902 gal (see table for gals/inch):

Alarm Height = 37 inches

Operational Vol = 300 gal - (18" or 305,767 gal)

Pump on = 8 inches (502.451 gal)

= 6 inches (93,782 gal) Pump off

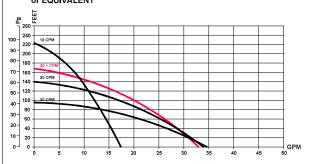
ASHLAND PUMP CPM SERIES CISTERN PUMP PERFORMANCE ASHLAND PUMP 20 + CPM-115 or EQUIVALENT

15.64570178

15.61481328

46.7518964

15.55312782





**REVISED**12:54 pm, Apr 17, 2025

#### TAKING CARE OF YOUR SYSTEM

To prevent your system from failing, there are several important considerations that must be taken into account to ensure that the system functions properly, including:

- 1. Maintenance: Regular maintenance of the system is essential to prevent problems and ensure that it continues to function properly. This includes regular pumping of the septic tank, inspection of the distribution box and drainfield, and other routine tasks.
- Water usage: The amount of water used in the household can have a significant impact on the performance of the system. It is important to avoid excessive water usage, such as running multiple appliances or fixtures simultaneously, as this can overwhelm the system and cause it to fail
- Landscaping: Careful landscaping around the drainfield area is important to ensure that the system functions properly. It is important to avoid planting trees or shrubs near the drainfield, as the roots can damage the pipes and prevent proper drainage.

The following guidelines can help you to avoid these types of chemicals as they should not be disposed of into the system which include any harsh or toxic chemicals that can damage the beneficial bacteria in the septic tank that help to break down waste. This includes the following:

- Household cleaners: Many common household cleaners contain harsh chemicals that can harm the bacteria in the septic tank, Examples include bleach, disinfectants, and drain cleaners.
- Personal care products: Certain personal care products, such as soaps, shampoos, and lotions, can contain chemicals that are harmful to the septic system. It is important to use these products in moderation and to avoid excessive use.
- 6. Pesticides and herbicides: Any type of pesticide or herbicide should be avoided, as these can harm the bacteria in the septic tank and may also contaminate the surrounding environment.
- Medications: Unused or expired medications should never be disposed of into the septic system, as they can harm the bacteria in the septic tank and may also contaminate the surrounding environment.

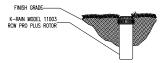
Minimum Required Separation Distances for OSSF Building foundation to sewage treatment tank: 5 Feet Soil absorption trench to groundwater: 3 Feet Soil absorption system or sewer pipe to property lines: 5 Feet Soil absorption system or sewer pipe to water-lines: 10 Feet Soil absorption system to public utility easements: 1 Feet

#### Additional Information:

- Curlex shall be used for stabilizing over the imported soils for the entire field
  or a vegetative cover is to be use to cover all drain fields prior to final inspection
  being passed, if field area is greater than 10% slope.
- Any future potable water line, such as swimming pool, irrigation etc must maintain 10' separation to any ossf component.

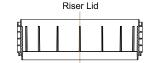
## K-RAIN PROPLUS 11003 RCW. PERFORMANCE DATA LOW ANGLE DATA

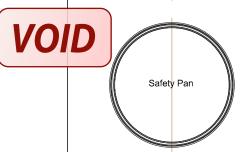
NOZZLE	PRESSURE PSI	RADIUS FT.	FLOW GPM
#1	30	22'	1.2
	40	24'	1.7
	50	26'	1.8
	60	28'	2.0
#3	30	29'	3.0
	40	32'	3.1
	50	35'	3.5
	60	37'	3.8
#4	30	31'	3.4
	40	34'	3.9
	50	37'	4.4
	60	38'	4.7
#6	40	38'	6.5
	50	40'	7.3
	60	42'	8.0
	70	44'	8.6





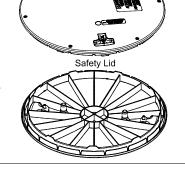
## RISER DETAIL W/OPTIONAL COMPONENTS TYPICAL NTS DIAMETER AND DEPTH VARIES







All tank ports larger than 12-inches in diameter to have risers with access restriction to 2-inches above grade per 30 tac 285.38 (effective 9/1/2023).





1752 Demi John Bend Road

OUTSKIRTS SEPTIC DESIGNS

04/16/2025

Design by

DANUEL GONZALEZ



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PACIFIC RBLF REO LLC

Add----

1752 DEMI JOHN
BEND ROAD
CANYON LAKE, TX
78133
COMAL COUNTY

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R447873

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PARADISE ON THE GUADALUPE LOT 12 UNIT 1

North

OCCE DETAILS

50.4

### ON-SITE SEWERAGE FACILITY SOIL EVALU T INFORMATION

Date Soil Survey Performed: _	October 22, 2021		
Site Location:	PAR	RADISE on the GUADALUPE, UNIT 1, LOT 12	
Proposed Excavation Denth:	N/A		

#### Requirements:

Proposed Excavation Depth: \_\_\_

At least two soil excavations 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 site drawing.

For subsurface disposal, soil evaluations must be performed to a depth of at least two feet below the 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
6"	IV	CLAY	N/A	NONE OBSERVED	LIMESTONE @ 6"	BROWN
3						
5						

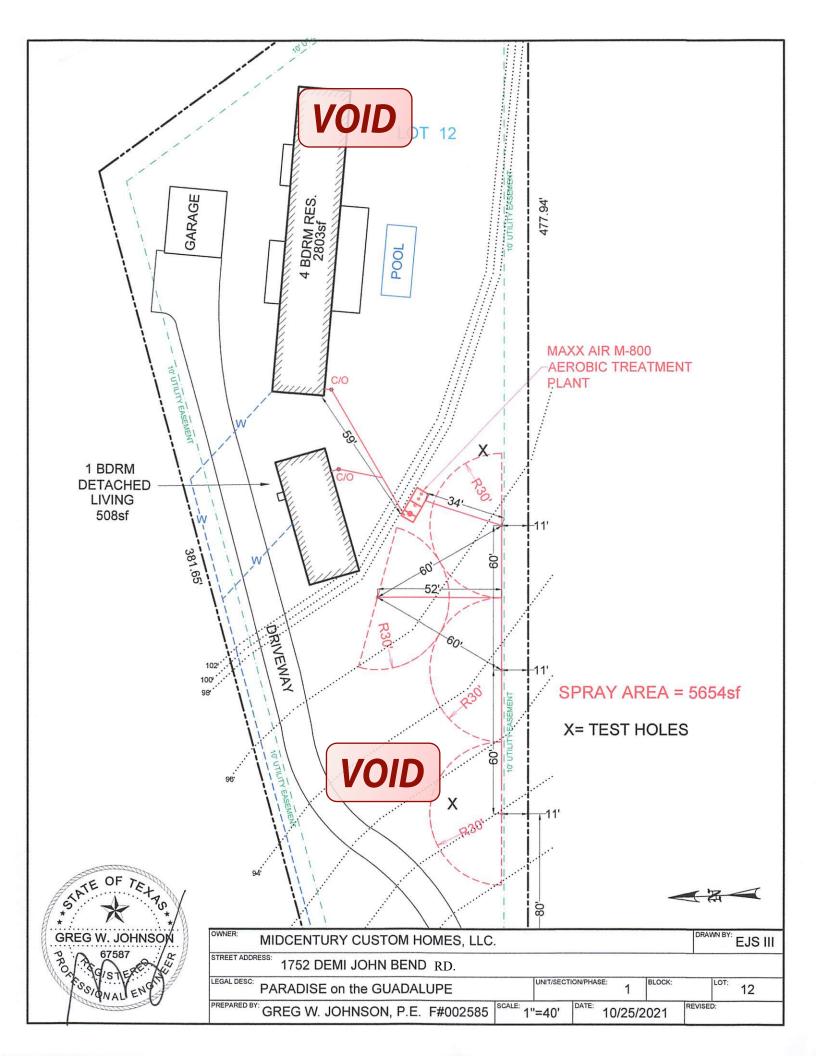
SOIL BO	RING NUMBER SUR	FACE EVALUA	VOID			
Depth (Feet)	Texture	Soil Texture	Gravei Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0 1 2	SAME		AS		ABOVE	
3						
5						

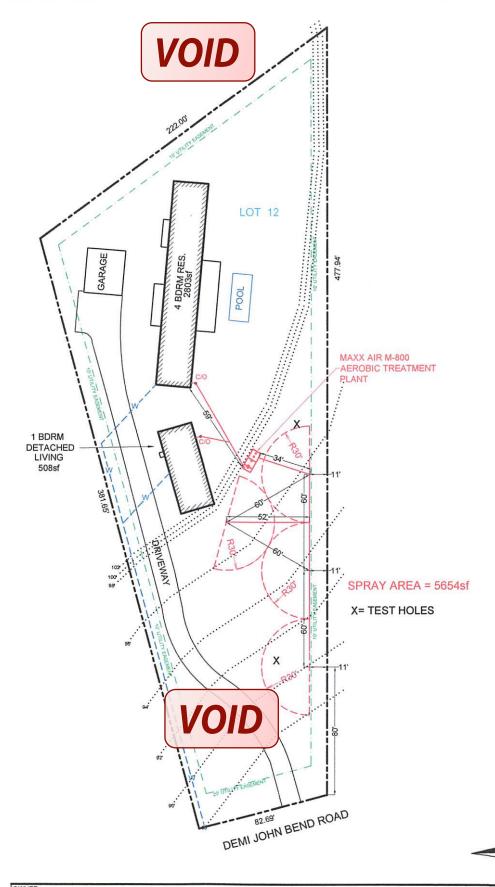
I certify that the findings of this report are based on my field observations and are accurate to the best of my ability.

Greg W. Johnson, P.E. 67587-F2585, S.E. 11561

### **OSSF SOIL EVALUATION REPORT INFORMATION**

Date:October 25, 2021
Applicant Information:
Name: MIDCENTURY CUSTOM HOMES LICE Name: Greg W. Johnson, P.E. P.S., S.E. 11561
Name: MIDCENTURY CUSTOM HOMES, LLC. Name: Greg W. Johnson, P.E., R.S., S.E. 11561
Address: c/o 23011 F.M. 306 Address: 170 Hollow Oak
City: CANYON LAKE State: TEXAS City: New Braunfels State: Texas
Zip Code: 78133 Phone: (830) 935-4936 Zip Code: 78132 Phone & Fax (830) 905-2778
Property Location:  Lot 12 Unit 1 Blk Subd. PARADISE on the GUADALUPE   Name:    Street Address: 1752 DEMI JOHN BEND RD.   Company:    City: CANYON LAKE Zip Code: 78133   Address:    Additional Info.:   City:   State:    Zip Code:   Phone    Topography: Slope within proposed disposal area: 6 to 8 %
Presence of 100 yr. Flood Zone: YESNO_X_
Existing or proposed water well in nearby area.  YES NO X
Presence of adjacent ponds, streams, water impoundments YESNO_X
Presence of upper water shed YESNO_X
Organized sewage service available to lot YESNO_X
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: 4+1 Total sq. ft. living area 2803+508
Q gal/day = (Bedrooms +1) * 75 GPD - (20% reduction for water conserving fixtures)
$Q = (\underline{4+1} + 1)*75-(20\%) = \underline{360}$
Trash Tank Size431Gal.
TCEQ Approved Aerobic Plant Size G.P.D.
Req'd Application Area = $Q/Ri = \underline{\qquad} 360 \qquad / \underline{\qquad} 0.064 = \underline{\qquad} 5625 \qquad \text{sq. ft.}$
Application Area Utilized = 5654 sq. ft.
Pump Requirement12Gpm @41Psi (Redjacket 0.5 HP 18 G.P.M. series or equivalent)
Dosing Cycle: ON DEMAND or X TIMED TO DOSE IN PREDAWN HOURS
Pump Tank Size = 854 Gal. 16.1 Gal/inch.
Reserve Requirement = 120 Gal. 1/3 day flow.
Alarms: Audible & Visual High Water Alarm & Visual Air Pump malfunction
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 APPLICATION WITH VEGETATION.
EXPOSED ROCK WILL BE COVERED WITH SOLUTION.
I HAVE PERFORMED A THOROUGH INVESTIGATION BEING A REGISTERED PROFESSIONAL ENGINEER
AND SITE EVALUATOR IN ACCORDANCE WITH CHAPTER 285, SUBCHAPTER D, §285.30, & §285.40
(REGARDING RECHARGE FEATURES), TEXAS COMMISSION OF ENVIRONMENTAL QUALITY
(EFFECTIVE DECEMBER 29, 2016)  10/15/201/ STATE OF TEXTS.
GREG W. JOHNSON, P.E. F#002585 - S.E. 11561  DATE  GREG W. JOHNSON  67587  67587
GISTER #2585







MIDCENTURY CUSTOM HOMES, LLC.				DRAWN BY:	EJS III
STREET ADDRESS: 1752 DEMI JOHN BEND RD.					
PARADISE on the GUADALUPE	UNIT/SECTION	VPHASE:	BLOCK:	LOT:	12
PREPARED BY: GREG W. JOHNSON, P.E. F#002585	1"=60'	10/25/2	021	EVISED:	

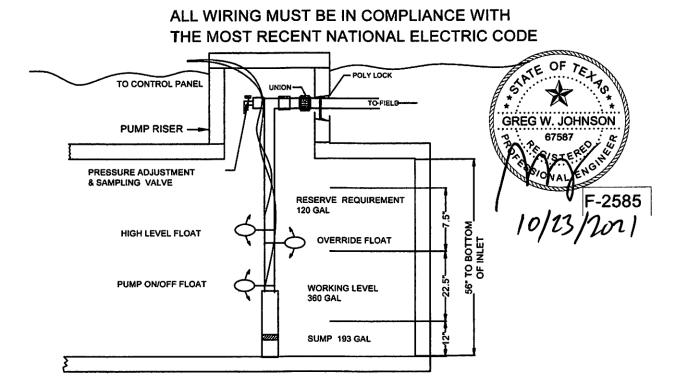
### **TANK NOTES:**

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.

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



TYPICAL PUMP TANK CONFIGURATION MAXX AIR-M800 PUMP TANK

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.

#### Special Warranty Deed with Vendor's Lien

THE STATE OF TEXAS

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KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF COMAL

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Effective on: September 28, 2021.

Grantor:

PARADISE I ON THE GUADALUPE, LLC, a Texas limited liability company

Grantor's Mailing Address: 755 E. Mulberry Ave., Suite 600, San Antonio, Bexar County,

Texas 78212

Grantee:

MIDCENTURY CUSTOM HOMES, LLC, a Texas limited liability company

Grantee's Mailing Address: 28811 Throssel Ln, San Antonio, Bexar County, Texas 78260-4463

Consideration: A note of even date executed by Grantee and payable to the order of HOUSEMAX FUNDING FUND I LLC, a Texas limited liability company, 901 S. Mo Pac Expy, Ste. 125, Bldg 4, Austin, Texas 78746, in the principal amount of ONE HUNDRED SIXTY-SEVEN THOUSAND NINE HUNDRED SIX AND 01/100 DOLLARS (\$167,906.01). The note is secured by a first and superior vendor's lien and superior title retained in this deed in favor of HOUSEMAX FUNDING FUND I LLC, a Texas limited liability company and by a first-lien deed of trust of even date from Grantee to MEGAN ULMANN, Trustee.

HOUSEMAX FUNDING FUND I LLC, a Texas limited liability company at Grantee's request, has paid in cash to Grantor that portion of the purchase price of the Property that is evidenced by the note. The first and superior vendor's lien against and superior title to the Property are retained for the benefit of HOUSEMAX FUNDING FUND I LLC, a Texas limited liability company and are transferred to HOUSEMAX FUNDING FUND I LLC, a Texas limited liability company without recourse against Grantor.

Property (including any improvements): Lot 12, PARADISE ON THE GUADALUPE, UNIT 1, a subdivision in Comal County, Texas, according to plat recorded under Document No. 202106042687, Map and Plat Records, Comal County, Texas.

Reservations from Conveyance: None.

Exceptions to Conveyance and Warranty: All presently recorded restrictions, reservations, easements, covenants and conditions that affect the property and taxes for the current year, the payment of which Grantee assumes.

Grantor, for the Consideration and subject to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty, grants, sells, 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.

The vendor's lien against and superior title to the Property are retained until each note described is fully paid according to its terms, at which time this deed will become absolute.

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

PARADISE I ON THE GUADALUPE, LLC
a Texas limited liability company

By:
Printed Name: Harry B. Adams IV

Title: Vice President

THE STATE OF TEXAS
COUNTY OF BEXAR

This instrument was acknowledged before me on this the 29 day of September , 2021, by Harry B. Adams IV , Vice President of PARADISE I ON THE GUADALUPE, LLC, a Texas limited liability company, in the capacity therein stated on behalf of said company.

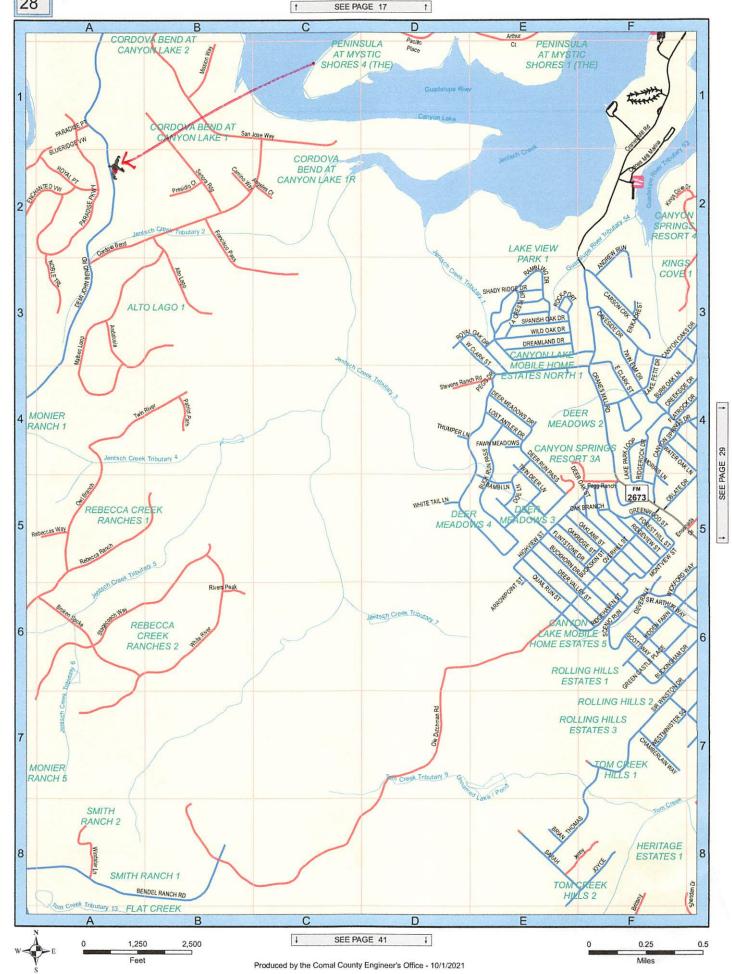
AFTER RECORDING RENEW Braunfels Title Comp GF No. NBT-2282-2021 NOTARY RUBLIC, STATE OF TEXAS

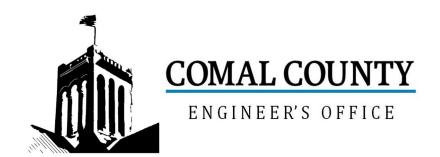
PREPARED IN THE LAW OFFICE OF: Kristen Quinney Porter P.O. Box 312643

New Braunfels, Texas 78131-2643

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
09/30/2021 12:07:41 PM
CASHONE 2 Pages(s)
202106051358







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

Permit Number: 114346

Issued This Date: 04/19/2022

This permit is hereby given to: MIDCENTURY CUSTOM HOMES, LLC

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

1752 DEMI JOHN BEND RD CANYON LAKE, TX 78133

0

Subdivision: PARADISE ON THE GUADALUPE

Unit: 1 Lot: 12

Block:

Acreage: 0.0000

#### 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 County requirements.

Call (830) 608-2090 to schedule inspections.



## OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

<del>114346</del>=

	•	Date Received	Initials	Permit Number	
				118165	
Instructions: Place a check mark next to all items that apply. For items that do not apply, place "N/A". This OSSF Development Application Checklist <u>must</u> accompany the completed application.					
OSSF Permit					
Completed Application for Permit for Authorization to Construct an On-Site Sewage Facility and License to Operate					
X	Site/Soil Evaluation Completed by a Certified Site Evaluator or a Professional Engineer				
Planning Materials of the OSSF as Required by the TCEQ Rules for OSSF Chapter 285. Planning Materials shall consist of a scaled design and all system specifications.					
Required Permit Fee - See Attached Fee Schedule					
Copy of Recorded Deed					
$\times$	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 Application and that this application constitutes a completed OSSF Development Application.					
	188		12/12/	2024	
	Signature of Applicant			Date	
	COMPLETE APPLICATION  Check No Receipt No	—— (М		LETE APPLICATION ircled, Application Refeused)	
				Revised: September 2019	