Comal County Environmental Health OSSF Inspection Sheet

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:

Comal County Environmental Health OSSF Inspection Sheet

	USSF Inspection Sneet							
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.	
8	SEPTIC TANK Tank(s) Clearly 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)(ii) (I)285.32(b)(1)(E) (i)285.32(b)(1)(C) (ii)285.32(b)(1)(C) (ii)285.32(b)(1)(C) (ii)285.32(b)(1) (B)285.32(b)(1) (A)285.32(b)(1)(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)					
10	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)					
12	SEPTIC TANK Tank Volume Installed							
	PUMP TANK Volume Installed							
13	AEROBIC TREATMENT UNIT Size Installed							
14	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)					
	DISPOSAL SYSTEM Drip Irrigation		285.33(c)(3)(A)-(F)					
18								

^{12/12/24} CA: Revision for pressure gauge in lieu of regulator system operational field to design no tight lines or sanitary tee existing system not abandoned will need to provide pump receipt and verify crush. Leave tight lines and connection exposed to verify sleeving and connection

Comal County Environmental Health OSSF Inspection Sheet

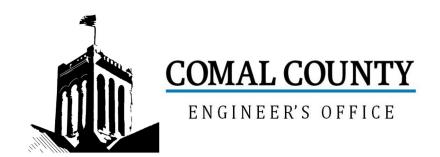
	OSSI IIISPECTION SHEET							
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.	
	EFFLUENT DISPOSAL SYSTEM Utilized Only by Single Family Dwelling EFFLUENT DISPOSAL SYSTEM Topographic Slopes < 2.0% EFFLUENT DISPOSAL SYSTEM Adequate Length of Drain Field (1000 Linear ft. for 2 bedrooms or Less & an additional 400 ft. for each additional bedroom) EFFLUENT DISPOSAL SYSTEM Lateral Depth of 18 inches to 3 ft. & Vertical Separation of 1ft on bottom and 2 ft. to restrictive horizon and ground water respectfully EFFLUENT DISPOSAL SYSTEM Lateral Drain Pipe (1.25 - 1.5" dia.) & Pipe Holes (3/16 - 1/4" dia. Hole Size) 5 ft. Apart		285.33(b)(3)(A) 285.33(b)(3)(A) 285.33(b)(3) (B)285.91(13) 285.33(b)(3)(D) 285.33(b)(3)(F)					
	AEROBIC TREATMENT UNIT IS							
	Aerobic Unit Installed According to Approved Guidelines.		285.32(c)(1)					
	AEROBIC TREATMENT UNIT Inspection/Clean Out Port & Risers Provided AEROBIC TREATMENT UNIT Secondary restraint system provided AEROBIC TREATMENT UNIT Riser permanently fastened to lid or cast into tank AEROBIC TREATMENT UNIT Riser cap protected against unauthorized intrusions							
35	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 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							

3/7/25 CA: Field covered and seeded tightline sleeved. Not connected to second structure

4/1/25 CA: Second structure connected

Comal County Environmental Health OSSF Inspection Sheet

				-			
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: 117702

Issued This Date: 10/01/2024

This permit is hereby given to: Salvador Cruz

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

2028 LIVE OAK DR

CANYON LAKE, TX 78133

Subdivision: Tamarack Shores, Section II

Unit: -

Lot: 83-84

Block: -

Acreage: 0.4600

APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic

Drip 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.



OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

Date Re	eceived	Initials	Permit Number
			117702

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 **must** accompany the completed 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
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
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.

COMPLETE APPLICATION

Check No. Receipt No.

Signature of Applicant

16/10/2024 Date

INCOMPLETE APPLICATION
(Missing Items Circled, Application Refeused)





ON-SITE SEWAGE FACILITY APPLICATION

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

Date			Permit Num	1177 nber	702
1. APPLICANT	/ AGENT INFORMATION				
	Salvador Cruz	Agent Name	Doug Dowlea	orn D S	
	004 D 11: D			III K.S.	
	Canyon Lake, TX 78133	Agent Address	TO THE RESERVE THE PARTY OF THE	9606	
Phone #	8	5 D D D		0	
Email		Phone #	210-878-810		
2. LOCATION		Email	TXSEPTIC@	GMAIL.COM	
	mo Tomorook Sharea Society II	9	lmit	L at 02 04	Block
000 Market 200	me Tamarack Shores, Section II		Jnit		Block
	Abstract Number				.2296+.2353
Address 2028 l		City Canyon Lak	e	State 1X	Zip <u>78133</u>
3. TYPE OF DE					
	imily Residential				
	Construction (House, Mobile, RV, Etc.) House				
	of Bedrooms 3+3				
	Sq Ft of Living Area 1200 +1200				
_	gle Family Residential				
	materials must show adequate land area for doubling the	ie required land nee	eded for treatme	ent units and disp	osai area)
Type of					
400 AUGUSTO	Factories, Churches, Schools, Parks, Etc Indicate		5877		
	ants, Lounges, Theaters - Indicate Number of Sea				
	Notel, Hospital, Nursing Home - Indicate Number of				
Travel T	Frailer/RV Parks - Indicate Number of Spaces				
Miscella	aneous	4	¥	× 100 × 100 × 100	
	EVISTING	Structure Only)	Late Call		
	Cost of Construction: \$_EXISTING (on of the proposed OSSF located in the United Sta	Constitution Constitution (Constitution Constitution Cons	of Engineers (I	ISACE) floward	e easement?
	on of the proposed OSSF located in the officer Sta				
			orovernents within	the GOAGE howay	je edecimenty
		.cj			
	RE OF OWNER				
- The completed facts. I certify	application, I certify that: d application and all additional information submitted do that I am the property owner or I possess the appropria	te land rights neces	ssary to make th	e permitted impr	ovements on said
- Authorization	is hereby given to the permitting authority and designate ation and inspection of private sewage facilities that a permit of authorization to construct will not be issu				
butha Camal	County Flood Damage Prevention Order. consent to the online posting/public release of my e-ma				
- rammauvery		,	/		
Signature o	of Owner V	Date/	10/202	/	Page 1 of



Signature of Designer



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

Planning Materials & Site Evaluation as Required Completed By Doug Dowlearn R.S.
System Description Aerobic with drip disposal
Size of Septic System Required Based on Planning Materials & Soil Evaluation
Tank Size(s) (Gallons) 800 Absorption/Application Area (Sq Ft) 2100
Gallons Per Day (As Per TCEQ Table III) 420 (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 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.)
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 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 activity require a TCEQ approved CZP? 🔲 Yes 🔲 No
(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? 🔲 Yes 📝 No
If yes, indicate the city:
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.
200 Andrew 1.5. 7/12/2024

Date





202406017677 06/12/2024 04:19:15 PM 1/2

AFFIDAVIT TO THE PUBLIC

CERTIFICATION OF OSSF REQUIRING MAINTENANCE

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

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

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):

Tamarack Shores, Section II, Lots 83-84

The property is owned by (Insert owner's full name):

Salvador Cruz

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 OSSF may be obtained from **Comal County Engineer's Office**.

WITNESS BY HAND(S) ON THIS DAY OF JUNE, WY

Owner(s) signature(s)

(PRINTED NAME) /TITLE

SWORN TO AND SUBSCRIBED BEFORE ME ON THIS D DAY OF JUNE, WY

Notary Public, State of Texas

Notary's Printed Name: Daiscmartine 2

My Commission Expires: Die - 20 - 2 7

DAISE N MARTINEZ Notary ID #134414445 My Commission Expires June 20, 2027

AFFIDAVIT TO THE PUBLIC

THE COUNTY OF COMAL

STATE OF TEXAS

Before me, the undersigned authority, on this day personally appeared

Salvador Cruz who after being duly sworn, upon oath states
that he/she is the owner of record of those certain tracts or parcels of land lying and being
situated in Comal County, Texas, and being more particularly described as follows:

Tamarack Shores, Section II, Lots 83-84

The undersigned further states that the on-site sewage facility for the referenced properties crosses the boundary between the described properties. These properties cannot be sold separately and must be sold as one. Any buyer or transferee is hereby notified of this requirement.

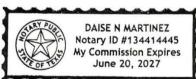
3	
WITNESS BY HAND(S) ON THE 10th DAY OF Jone	
20 14	
Owner(s) signature(s)	Filed and Ro Official Pub
SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 10th	Bobbie Koepr Comal County
Dave Martis	06/12/2024 (LAURA 2 Pac 202406017677
Notary Public, State of Texas	A L
Notary's Printed Name: <u>Dave Martinez</u>	
My Commission Expires: 06-20-27	-

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
06/12/2024 04:19:15 PM
LAURA 2 Page(s)
202406017677

Bobbie Koepp



- 1) Document must be completed and Property Owner(s) signature(s) notarized,
- 2) Record completed document in the Comal County Clerk's Office.
- 3) Submit copy of recorded document to the Comal County Office of Environmental Health



Baker Septic Service, LLC 15375 Cranes Mill Rd., Canyon Lake, TX 78133 830-899-2971

	Service Agreement
In consideration of payment for this service contract, we w	Particular and the second seco
Name: Salvador Cruz	Address: 2028 Live Oak
Subdivision/ County: Tamarack Shores/Comal	City, State, Zip: Canyon Lake, TX 78133
Permit # Model #	Serial #
Phone: 512-738-3946	
(X) Initial Two Year Service Agreement	() One Year Service Agreement
& Two Year Limited Warranty	
RENEWAL NAME TRANSFER	ANALYSIS
Legal Description:	
The Effective date of this initial maintenance contract shall be the	e date the License to Operate is issued.
For & this contract will be in effect FROM LITTO .	2/4/rS and will provide the following:
1. An inspection/service call every (4) four months w	hich will include: inspection, adjustments and servicing of the
mechanical & electrical components as necessary to	
An effluent quality inspection consisting of a visual	
	CHASING AND KEEPING CHLORINE IN THE CHLORINATOR (IF
APPLICALBE). IF THE CHLORINE TEST REVELS "NO AN ADDITIONAL COST.	CHLORINE" IN THE SYSTEM, THE PROPERTY OWNER MAY INCURE
 If any improper operation is observed (which cannot immediately of the conditions and the estimated or 	ot be corrected at that time) the property owner will be notified
	owner regarding operation of the system, shall be within 48 hours,
	ar, if needed, will be provided with no cost to property owner.
	EIGHT CHARGES, LABOR OR SERVICE CALLS DUE NOT PAID FOR
	, LLC AND COULD RESULT IN REPOSSESSION OF PARTS BY BAKER
SEPTIC SERVICE, LLC.	
	RIZES BAKER SEPTIC SERVICE, LLC TO ENTER THE PROPETY TO
EXECUTE ALL TERMS OF THIS CONTRACT.	•
	the septic system according to state and county regulations and the
	NSIBE FOR SERVICE CALL, LABOR, AND SHIPPING COSTS ON ANY
"WARRANTED PARTS" EXCHANGED DURING WARRANTY. All o	ther component will be according to manufacturer's warranties.
IMPORTANT: As Baker Septic Service, LLC cannot control what	or how much effluent goes into this septic system, we cannot
warranty how the system will function. Refer to manufacturers	or installers instructions for suggestions on septic operation. This
	or materials that are required or parts out of warranty, the failure
	roken, leaking, stopped-up or otherwise mal-functioning; or sewage
	e Input of non-biodegradable materials (solvent, grease, oil, paints,
	uthorized service representative. Laboratory test work is available a
an additional coast. Chlorine, filters, or parts that are out of war	
This contract does not include the pumping of a tank or of any of	compartment of a tank, or settlement of soil on or around any part
of the system regardless of reason:	
Violations of the warranty also include: Disconnecting the alarm	
above its rated capacity; or flooding by external means. Rodent,	, insect or Fire Ant damage or any other form of unusual abuse is a
violation.	
A renewal service contract should be activated (30) thirty days b	efore expiration of existing contract. We will contact property
owner prior to expiration of existing contract.	
Serviced by: Ba	ker Septic Service, LLC
Maintenance Pr	ovider_Meoor2099 (NXVI)
(v) Print Name (X)	ALUANOR COUZ Date: 06/10/2024
Property Owner Signature	Hotoga
201 1/2 / 7-16	ON

Affidavit

To Whom It May Concern:	
I, Salvador Cruz	_, swear that the statements below are
True for the properties at _2028 Live Oak Dr. Canyon	Lake, TX 78133in
SubdivisionTamarack Shores Section II, lot(s)	83 and 84 in Comal
County, Texas.	
The existing 3 bedroom home and the new 3 bedoom home and the new 3 bedoom home and the new 3 bedoom home.	ome will be lived in by
	· ·
	,
	01/0 hoo
Signature V'	06/10 2029 Date
(Sign in front of a notary)	1.4
SWORN TO AND SUBSCRIBED BEFORE ME ON	THIS DAY OF June 2024
Notary Public, State of Texas	
Notary's Printed Name: Daise Mart Due - 20 -	DAISE N MARTINEZ DAISE N MARTINEZ Notary ID #134414445 Notary ID #134414445 Notary ID #134414445
My Commission Expires: Du - 20 -	DAISE 10 #13441444 Notary ID #1344144 Notary ID #13441444 Notary ID #1344144 Notary ID #13441444 Notary ID #13441444 Notary ID #1344144 Notary ID #13441444 Notary ID #1344144 Notary ID #13441444 Notary ID #13441444 Notary ID #134

OSSF SOIL EVALUATION REPORT

RECEIVED

By Brandon Olvera at 12:21 pm, Nov 14, 2024

Observation

CLEAR SURFACE ROCK AND BOULDERS FROM DRAINFIELD AREA, AND ENSURE THAT THERE IS AT MINIMUM 12" OF SUITABLE SOIL BETWEEN THE BOTTOM OF THE DRIP

LINES, AND THE RESTRICTIVE

HORIZON. CLASS II

TO MAINTAIN THE

BETWEEN THE

LINES AND

SOIL MAY NEED TO BE IMPORTED IN ORDER

MINIMUM 12" OF SOIL

BOTTOM OF THE DRIP

Date: 7/12/2024 **Applicant Information:** Name: Salvador Cruz Address: 894 Rambling Dr

City, State & Zip Code: Canyon Lake, TX 78133

Phone: Email:

Property Location:

Subdivision: Tamarack Shores, Section II Lot: 83-84

Street/Road Address: 2028 Live Oak

City: Canyon Lake Zip: 78133 Additional Info: Comal County **Site Evaluator Information:** Name: Douglas R. Dowlearn **Company:** D.A.D. Services, Inc. Address: 703 Oak Drive

City, State & Zip: Blanco, TX 78606

Phone: (210)240-2101 Fax: (866)260-7687

Email: txseptic@gmail.com

Installer Information:

Name: **Company:** Address:

City, State & Zip:

Phone:

Depth	Texture Class	Soil Texture	Structure (For Class III – blocky, platy or massive)	Drainage (Mottles/Water Table	Restrictive Horizon
Soil Boring #1 60"	III	0-6" Clay/Loam 6"+ Limestone		<30% Gravel	6"+ Limestone
Soil Boring #2 60"		Same as above			

DESIGN SPECIFICATIONS

Application Rate (RA): 0.2

OSSF is designed for: Combined 6 Bedroom 2400 Sq. Ft House - Existing 3 BR 1200 SF and New 3 BR 1200 SF

420 gallons per day

An aerobic treatment/drip disposal system is to be utilized based on the site evaluation.

2100 sq. ft. disposal area required 800 gallon per day aerobic tank

Calculations: Absorption Area: Q/RA= 420/0.2=2100 Sq. Ft.

Presence of upper water shed: NO

Organized sewage service available to lot: NO

FEATURES OF SITE AREA

Presence of 100-year flood zone: NO

Existing or proposed water well in nearby area: NO

Presence of adjacent ponds, streams, water impoundments: NO

I certify that the findings of this report are based on my field observations and are accurate to the best of my ability. The site evaluation and OSSF design are subject to approval by the TCEQ or the local authorized agent. The planning materials and the OSSF design should not be considered final until a permit to construct has been issued.

Site Evaluator:

NAME: Douglas Dowlearn

glas Roma 1.5.

Signature:

License No. OS9902 Exp. 6/30/2026 TDH: #2432 Exp. 2/28/2025

D.A.D SERVICES, IN RECEIVED

DOUG DOWLEAR! By Brandon Olvera at 12:21 pm, Nov 14, 2024

PO BOX 212, BULVERDE, 12, 78163

Designed for: Cruz Salvador

The installation site is on lots 83 and 84 of the Tamarack Shores Section II Subdivision in Comal County, TX. The proposed OSSF will treat the wastewater from an existing main 3 Bedroom, 1200 sq. ft. house along with a new 3 Bedroom, 1200 sq. ft. detached living quarters, which shall be lived in by a single family. The total number of bedrooms and living square footage between both structures is 6 br, 2400 sq. ft. (420 gpd). The proposed method of wastewater treatment is aerobic treatment with drip irrigation. This method was chosen because of unsuitable soil conditions.

PROPOSED SYSTEM:

A 3" or 4" PVC pipe will discharge from the structures to a NuWater B-800 aerobic treatment plant, containing a 431 gallon pre-treatment tank, a 800 gpd aerobic treatment plant, and a 854 gallon pump tank equipped with a 20 gpm submersible pump. The pump is activated by a time controller allowing the distribution 8 times per day with a 10 minute run time per dose, with float switches set to pump 420 gallons per day. A high level audible and visual alarm will activate should the pump fail. Distribution from the pump is through a self flushing 100 micron, 140 mesh disc filter, then through a 1" SCH-40 manifold to a 1100 L.F. drip tubing field, with drip lines set approximately two feet apart with 0.61 gph emitters set every two feet, as per the attached schematic. A threaded union will be installed in the pump tank on the supply manifold to the drip field, and a pressure regulator will be installed on the supply manifold to maintain a pressure of 30 psi. A 1" SCH-40 return line is installed to continuously flush the system back to the pump tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. The placement of the drip tubing will be on soil that has been scarified, and enough class II soil will be added so that there is 12" of soil under the drip tubing. The tubing will be covered with 6" of Class II soil

DESIGN SPECIFICATIONS:

Daily Waste Flow: 420 gpd

Application rate: 0.2

Application area required: 420/.2 = 2100 sq. ft.

Application area utilized: 2200 sq. ft.

Pump tank reserve capacity: 140 gal minimum

SYSTEM COMPONENTS:

SCH 40 PVC sewer line

NuWater B-800

431 gallon pre treatment tank

800 gpd aerobic treatment plant

854 gallon pump tank with timed controls

C1 Series, 20Xgpm - 0.5hp/115V, Model No. 20C1X-05P4-2W115 (or equivalent)

1" purple PVC supply line

30 PSI pressure regulator - Model PMR30MF

Netafim Bioline Drip tubing

LANDSCAPING:

The native vegetation in the distribution area should consist of low level shrubs, plains grass, bluestem or bermuda. The entire area of the drip disposal must be covered with a ground cover such as grass seed or sod prior to the final inspection.

RECEIVED By Brandon Olvera at 8:20 am, Sep 24, 2024

Douglas R. Dowlearn
D.A.D. Services, Inc.
PO Box 212
Bulverde, TX 78163
(210)240-2101
txseptic@gmail.com

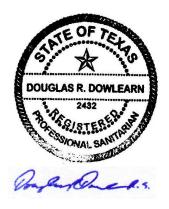
September 19th, 2024 Comal County Environmental Health Department 195 David Jonas Dr. New Braunfels, TX 78132-3760 RE: 2028 Live Oak Dr(permit #117702) - Lot 84 Lacking Space for OSSF

To whom it may concern:

The subject lot(lot 84) is lacking sufficient space to keep the OSSF within this single lot - see attached site plan for details. 2100 square feet of drainfield area is required for the two structures, while the approximate available area for drainfield on this lot is 1923 square feet; therefore, we are lacking approximately 177 square feet of available area to keep the OSSF system on lot 84. Lot 83 is being utilized as well to accommodate the area required to properly size the OSSF system.

If there are any questions concerning this matter, please contact me at (210)240-2101.

Sincerely, Douglas R. Dowlearn, R.S.



RECEIVED

By Brandon Olvera at 10:49 am, Dec 02, 2024

DOUGLAS R. DOWLEARN LIVE OAK DR 62.5' 62.5' LOT 84 LOT 83

EXISTING

3 BR HOUSE

DETACHED LIVING QUARTERS

62.5'

3 BR/1200 SF

MAIN

1200 SF

 $\mathsf{N}\mathsf{N}\mathsf{N}$

|| || || ||

55' 55' 55'

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NOTE: BOTH STRUCTURES SHALL BE LIVED IN BY A SINGLE FAMILY. TOTAL SIZE BETWEEN BOTH STRUCTURES IS

6 BR HOUSE/2400 SF (420 GPD).

PUMP, CRUSH AND FILL **EXISTING SEPTIC TANK -VERIFY LOCATION ON SITE -**([PERMIT #20358)

Ō

ABANDON EXISTING DRAINFIELD -**VERIFY LOCATION ON SITE** ([PERMIT #20358)

1005'

1015'

1100 L.F. OF DRIP TUBING SPACED 2' APART. 20 ROWS @ 55 L.F. EACH

NOTES:

160.0'

1010'

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UUUUU

62.5'

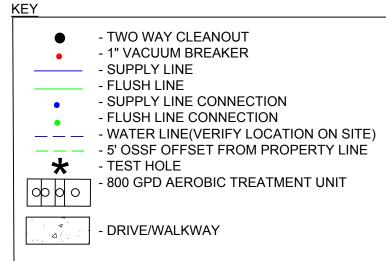
- USE 3" OR 4" SCH 40 SEWER PIPE TO CONNECT STRUCTURES TO TANK.
- CLEANOUT WITHIN 3' OF STRUCTURES.
- SEWER PIPE CONNECTING THE STRUCTURES TO THE TANK MUST HAVE AT MINIMUM 1/8" FALL PER 1'.
- SEWER LINE WILL BE SCH 80 PVC OR SLEEVED WITH SCH 40 PVC WHERE IT IS WITHIN 5' OF OR CROSSES UNDER DRIVE, WALKWAY, SURFACE IMPROVEMENTS AND 5' BEYOND TO PROVIDE EQUIVALENT PROTECTION UNDER SETBACK REQUIREMENTS OF TAC 285.
- INSTALL 1" VACUUM BREAKERS AT HIGHEST POINTS ON SUPPLY AND FLUSH LINES.
- 1" SCH 40 SUPPLY AND FLUSH LINES WILL BE SCH 80 PVC OR SLEEVED WITH SCH 40 PIPE WHERE THEY CROSS UNDER SURFACE IMPROVEMENTS, DRIVE, WALKWAY AND 5' BEYOND TO PROVIDE EQUIVALENT PROTECTION UNDER SETBACK REQUIREMENTS OF TAC 285.
- TANK TO BE > 5' FROM STRUCTURES AND SURFACE IMPROVEMENTS. THIS WILL PROVIDE EQUIVALENT PROTECTION FOR THE SETBACK REQUIREMENTS OF TAC 285.
- TANK WILL BE WATER TIGHT AND MANUFACTURED ACCORDING TO ASTM DESIGNATION: C 1227.
- DRAINFIELD SHALL BE GREATER THAN 100' FROM PRIVATE WELLS, AND GREATER THAN 150' FROM PUBLIC WELLS. VERIFY WELL LOCATION(S) ON SITE.
- CLEAR SURFACE ROCK AND BOULDERS FROM DRAINFIELD AREA, AND ENSURE THAT THERE IS AT MINIMUM 12" OF SUITABLE SOIL BETWEEN THE BOTTOM OF THE DRIP LINES, AND THE RESTRICTIVE HORIZON. CLASS II SOIL MAY NEED TO BE IMPORTED IN ORDER TO MAINTAIN THE MINIMUM 12" OF SOIL BETWEEN THE BOTTOM OF THE DRIP LINES AND RESTRICTIVE HORIZON.

- TWO WAY CLEANOUT - 1" VACUUM BREAKER - SUPPLY LINE - FLUSH LINE - SUPPLY LINE CONNECTION - FLUSH LINE CONNECTION - WATER LINE(VERIFY LOCATION ON SITE) - 5' OSSF OFFSET FROM PROPERTY LINE * - TEST HOLE - 800 GPD AEROBIC TREATMENT UNIT - DRIVE/WALKWAY

CRUZ SALVADOR 2028 LIVE OAK DR CANYON LAKE, TX 78133 TAMARACK SHORES SECTION II LOT 83 AND 84 **COMAL COUNTY**



SCALE 1" = 20' PRINT SIZE 11" X 17"



RECEIVED By Brandon Olvera at 12:23 pm, Nov 14, 2024 **Assembly Details** RAL NOTES: Plant structure material to be precast concrete and steel. Maximum burial depth is 30" from slab top to grade. **OSSF** Weight = 16,700 lbs. Treatment capacity is 800 GPD. Pump compartment set-up for a 420 GPD Flow Rate (5 beedroom, < 4,501 sq/ft living aera). Please specify for additional set-up requirements. BOD Loading = 2.60 lbs. per day. **DIMENSIONS:** 5. Standard tablet chlorinator or Optional Liquid chlorinator. Outside Height: 67" NSF approved chlorinators (tablet & liquid) available. Outside Width: 75" Bio-Robix B-800 Control Center w/ Timer for night Outside Length: 164.5" spray application. Optional Micro Dose (min/sec)timer available for drip applications. Electrical Requirement to be **MINIMUM EXCAVATION DIMENSIONS:** 115 Volts, 60 Hz, Single Phase, 30 AMP, Grounded Receptacle. Width: 87" 20" Ø acess riser w/ lid (Typical 4). Optional extension Length: 177" risers available. 20 GPM 1/2 HP, high head effluent pump. HIBLOW Air Compressor w/ concrete housing. See Note 9. 10. 1/2" Sch. 40 PVC Air Line (Max. 50 Lft from Plant). See Note 9. 11. 1" Sch. 40 PVC pipe to distribution system provided by contractor. See Note 5.-12. 4" min. compacted sand or gravel pad by Contractor See Note 10. See Note 7. See Note 11. 16.11 GALLONS/INCH Inlet 43" - 53" - RESERVE - 161.1 GAL Flow Line **43" - ALARM ON** 12" - 43" - WORKING LEVEL - 499,41 GAL D 10" - 12" - PUMP OFF TO PUMP ON - 32.22 GAL 53"" 59" Pump 854 Gal. Aeration Clarifier 0 - 10" - SUMP- 161.1 GAL 431 Gal NOTE: SET ON A TIMER TO DOSE 8 TIMES PER DAY AT 10 MINUTES PER DOSE. Diffuser Bar See Note 8. See Note 12. March, 2010 **NuWater B-800** By: A.S. **Advantage Wastewater Solutions IIc.** Advantage 444 A Old Hwy No 9 **Aerobic Treatment Plant (Assembled)** Comfort, TX 78013 830-995-3189

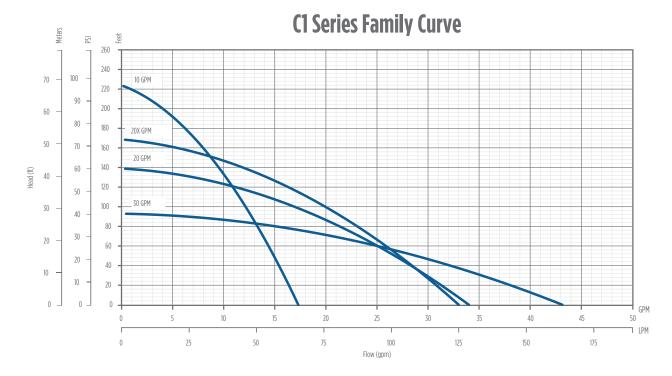
Dwg. #: ADV-B800-2

Model: B-800

fax 830-995-4051







FEATURES

- Supplied with a removable 5" base for secure and reliable mounting
- Bottom suction design
- Robust thermoplastic discharge head design resists breakage during installation and operation
- Single shell housing design provides a compact unit while ensuring cool and guiet operation
- Hydraulic components molded from high quality engineered thermoplastics
- Optimized hydraulic design allows for increased performance and decreased power usage
- All metal components are made of high grade stainless steel for corrosion resistance
- Available with a high quality 115 V or 230 V, ½ hp motor
- Fluid flows of 10, 20, and 30 gpm, with a max shut-off pressure of over 100 psi
- Heavy duty 600 V 10 foot SJ00W jacketed lead

APPLICATIONS

- Gray water pumping
- Filtered effluent service water pumping
- Water reclamation projects such as pumping from rain catchment basins
- Aeration and other foundation or pond applications
- Agriculture and livestock water pumping

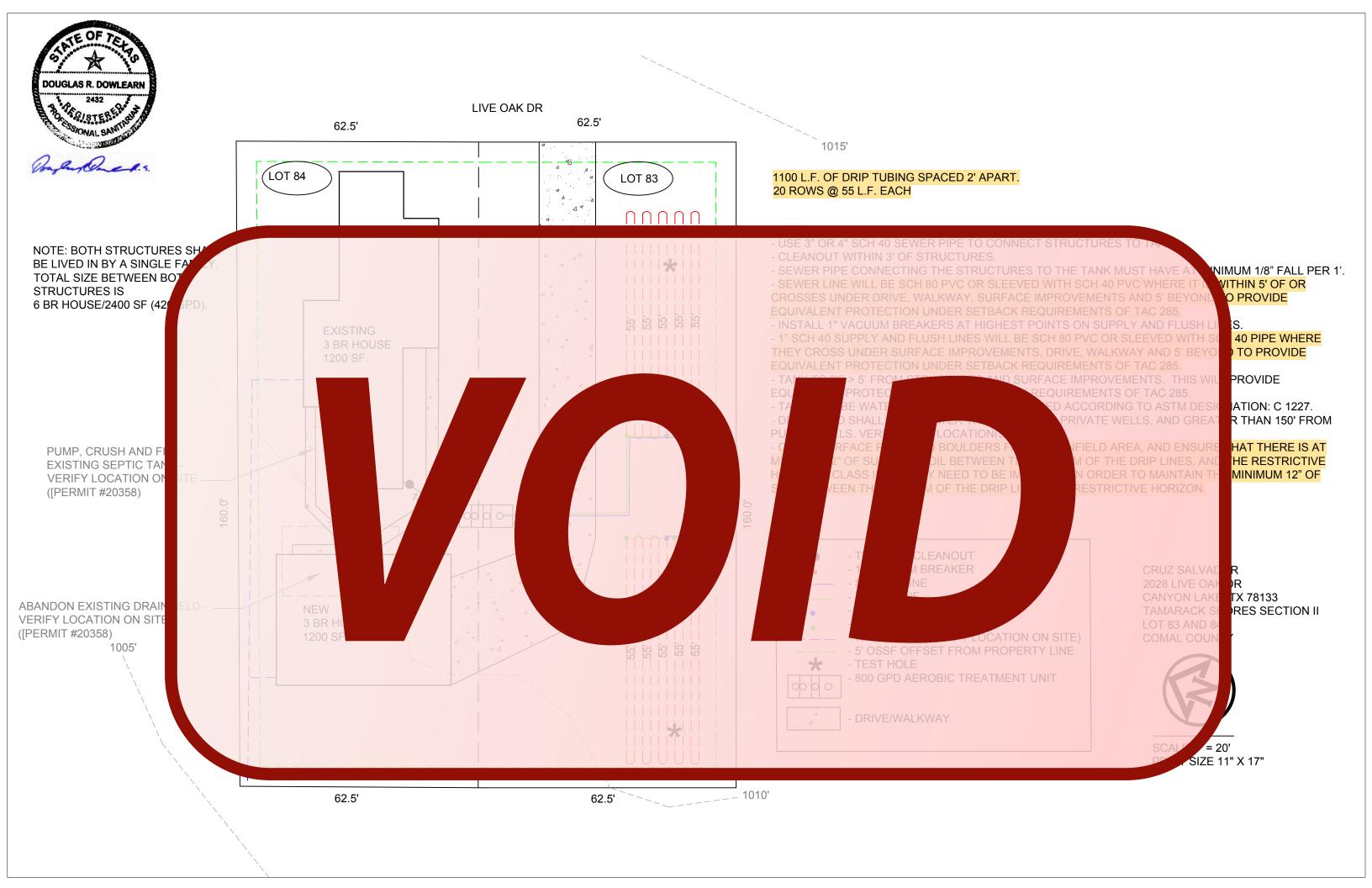
ORDERING INFORMATION

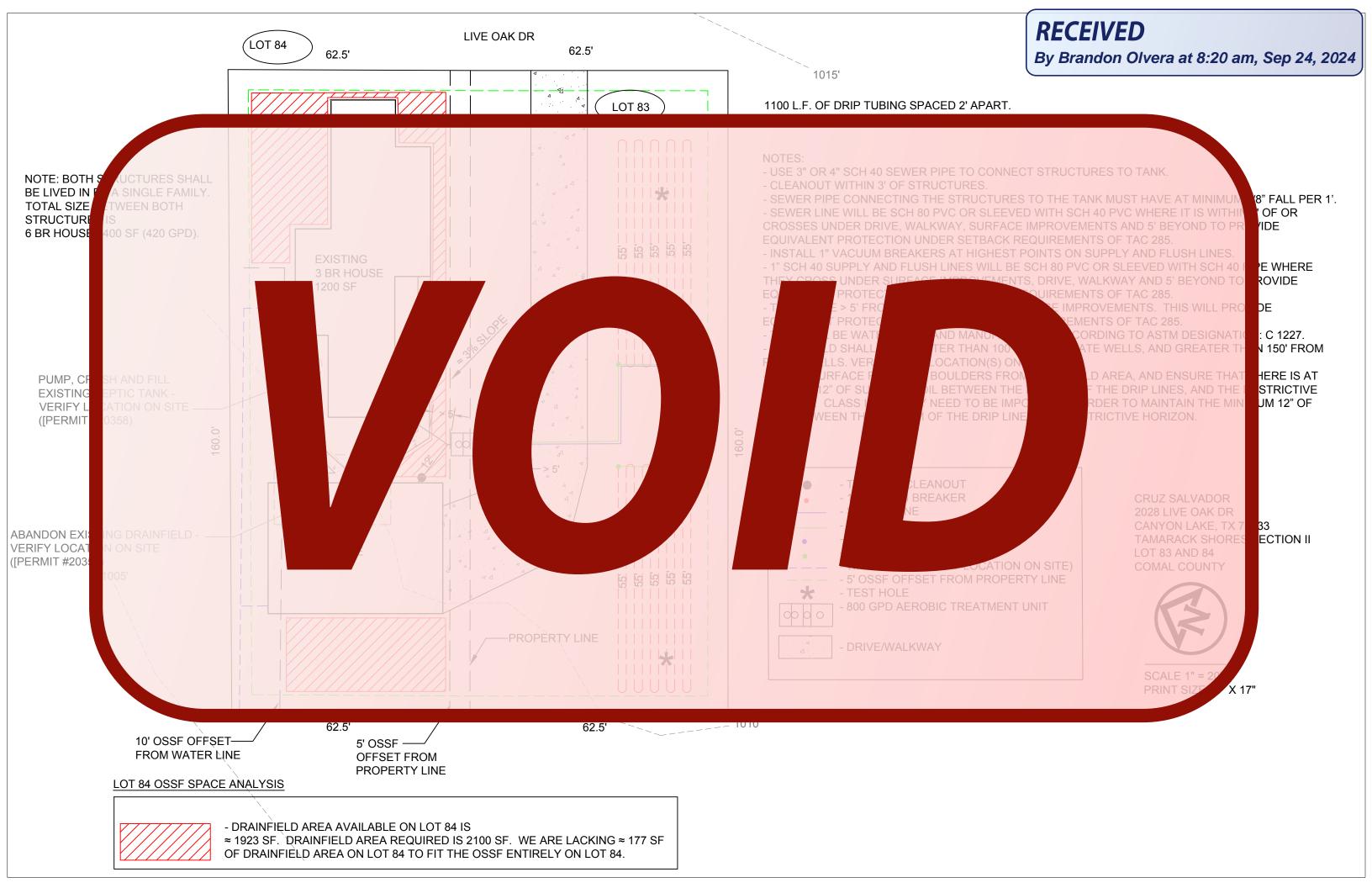
C1 Series Pumps							
GPM	HP	Volts	Stage	Model No.	Order No.	Length (in)	Weight (lbs)
10 20 20X 30		115	7	10C1-05P4-2W115	90301005	26	17
		230	7	10C1-05P4-2W230	90301010	26	17
		115	5	20C1-05P4-2W115	90302005	25	16
	1/2	230	5	20C1-05P4-2W230	90302010	25	16
	1/2	115	6	20XC1-05P4-2W115	90302015	26	17
		230	6	Z0XCI-05P4-ZWZ50	90302020	26	17
		115	4	30C1-05P4-2W115	90303005	25	16
		230	4	30C1-05P4-2W230	90303010	25	16

Note: All units have 10 foot long SJ00W leads.



franklinwater.com M1698 07-14





August 13, 2024

Permit: 117702



RE: 2028 Live Oak

Tamarack Shores Section II

Lot 83-84

Dear Property Owner & Agent,

Thank you for your submission. We have reviewed the planning materials for the referenced permit application, and unfortunately, they are insufficient. To proceed with processing this permit, we require the following:

Our office will be conducting a site visit on 08-14-2024.

Demonstrate that no OSSF can fit on the same property as the single-family dwelling.

3. Revise accordingly and resubmit.

If you have any questions, you can email me or call the office.

Thank You,

Brandon Olvera | Designated Representative OS0034792 |

Comal County | www.cceo.org | f: 830-608-2078 | e: olverb@co.comal.tx.us |

Olvera, Brandon

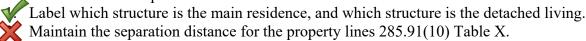
From: Olvera, Brandon

Sent: Tuesday, September 24, 2024 8:29 AM

To: Lauren Dowlearn
Cc: Joshua Cruz
Subject: RE: 117702

Good Morning.

The file has been updated.



- a. The Tank has a 5 ft separation distance from the property line.
- b. Sewer line with watertight joints have a 5ft. separation distance from property lines.
- 3. Revise accordingly and resubmit.

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 |



Signature of Designer

ON-SITE SEWAGE FACILITY APPLICATION

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

Planning Materials & Site Eva	aluation as Required	Completed By				
System Description						
Size of Septic System Requir	red Based on Plannin	g Materials & Soil	Evaluation			
Tank Size(s) (Gallons)		Abso	orption/Appli	cation Are	a (Sq Ft)	
Gallons Per Day (As Per TCI	EQ Table III)					
(Sites generating more than 500	0 gallons per day are re	quired to obtain a p	ermit through	TCEQ.)		
Is the property located over the	he Edwards Recharge	e Zone? Yes	No			
(If yes, the planning materials mu	ust be completed by a R	Registered Sanitaria	n (R.S.) or Pr		Engineer (P.E.))	
ls there an existing TCEQ ap	proved WPAP for the	property? Ye	s No			
(If yes, the R.S. or P.E. sha	y that the C esig	n	ovisions o	xisting		
Is there at least one acre	ngle fa welli	per 285.40(
If there is no existing WPA	es † opose	lopment activ	quire	EQ a	ed WPAP?	Yes No
(If yes, t = R.S. or P.E. shall to be issue for the proposed OS	th OSSF do proposed	vill comply with	d by t	the pr propria	d WPAP. A ional office	to Construct will no
s the poperty located over	wards Contribut	ing Ye	s No			
s there in existing TCEQ ap	proval CZP for the pro	operty? Yes	No			
(If yes, the R.E. or R.S. shall cer	tify that the OSSF desig	n complies with all p	provisions of t	the existing	CZP.)	
If there is no existing CZP, ac	pes the proposed devi	elopment activity i	equire a TC	∟ appro	vea CZP?	Yes No
(If yes, the R.S. or P.E. shall cer ssued for the proposed OSSF u					sed CZP. A Perm	it to Construct will not be
ls this property within an inco	rporated city?	es No				
If yes, indicate the city:						
By signing this application, I c	ertify that:					
- The information provided ab	ove is true and correct to	o the best of my kno	wledge.			
- I affirmatively consent to the	online posting/public re	lease of my e-mail a	address asso	ciated with	this permit applica	tion, as applicable.
Ongha Rome	€.s.					

Date

OSSF SOIL EVALUATION REPORT INFORMATION

Date: 7/12/2024 **Applicant Information: Name**: Salvador Cruz **Address:** 894 Rambling Dr

City, State & Zip Code: Canyon Lake, TX 78133

Phone: Email:

Property Location:

Subdivision: Tamarack Shores, Section II Lot: 83-84

Street/Road Address: 2028 Live Oak

City: Canyon Lake **Zip**: 78133 **Additional Info**: Comal County

Site Evaluator Information: Name: Douglas R. Dowlearn Company: D.A.D. Services, Inc. Address: 703 Oak Drive

City, State & Zip: Blanco, TX 78606

Phone: (210)240-2101 Fax: (866)260-7687

Email: txseptic@gmail.com

Installer Information:

Name: Company: Address:

City, State & Zip:

Phone:



TENTIONES OF SITE TIME.

Presence of 100-year flood zone: NO

Existing or proposed water well in nearby area: NO

Presence of adjacent ponds, streams, water impoundments: NO

Presence of upper water shed: NO Organized sewage service available to lot: NO

I certify that the findings of this report are based on my field observations and are accurate to the best of my ability. The site evaluation and OSSF design are subject to approval by the TCEQ or the local authorized agent. The planning materials and the OSSF design should not be considered final until a permit to construct has been issued.

Site Evaluator:

NAME: Douglas Dowlearn

apartemens.

Signature:

License No. OS9902 Exp. 6/30/2026 TDH: #2432 Exp. 2/28/2025

D.A.D SERVICES, INC.

DOUG DOWLEARN

PO BOX 212, BULVERDE, TX 78163

Designed for: Cruz Salvador

The installation site is on lots 83 and 84 of the Tamarack Shores Section II Subdivision in Comal County, TX. The proposed OSSF will treat the wastewater from an existing 3 Bedroom, 1200 sq. ft. house along with a new 3 Bedroom, 1200 sq. ft. house which shall be lived in by a single family. The total number of bedrooms and living square footage between both structures is 6 br, 2400 sq. ft. (420 gpd). The proposed method of wastewater treatment is aerobic treatment with drip irrigation. This method was chosen because of unsuitable soil conditions.

PROPOSED SYSTEM:

A 3" or 4" PVC pipe will discharge from the structures to an Aeris D840 aerobic treatment plant, containing a 500 gallon pre-treatment tank, a 840 gpd aerobic treatment plant, and a 900 gallon pump tank equipped with a 20 gpm submersible pump. The pump is activated by a time controller allowing the distribution 8 times per day with a 10 minute run ti will activate should the pump fail. Distribution from the pump is through a self flushing 100 micron, 140 mes disc filter, t'en through a 1" SCH-40 manifold to a 1100 L.F. drip tubing field, with drip lines set approximately two apart with 0.61 gph emitters set every two feet, as per the attached schematic. A threaded union will be installed n the pump ank on the supply manifold to the drip field, and a pressure regulator will be installed on the supply manif ld to mainta n a pressure of stem by cycling a ball ' valve. Solids caught i um breakers in talled at the lighest point on t siphonii he has been s placen ent of the drip t added so that here is 12" f soil under the

DESI IN SPECIFICA

Daily Waste Flow: 420

Application rate: 0.2

Apple ation area required: 420/.2 = 2100 sq. ft.

Application area utilized: 2200 sq. ft.

Pump tak reserve capacity: 140 gal minimum

SYSTEM COMPONENTS:

SCH 40 PVC sewer line

Aeris D840

500 gallon pre treatment tank

840 gpd aerobic treatment plant

900 gallon pump tank with timed controls

C1 Series, 20Xgpm - 0.5hp/115V, Model No. 20C1X-05P4-2W115 (or equivalent)

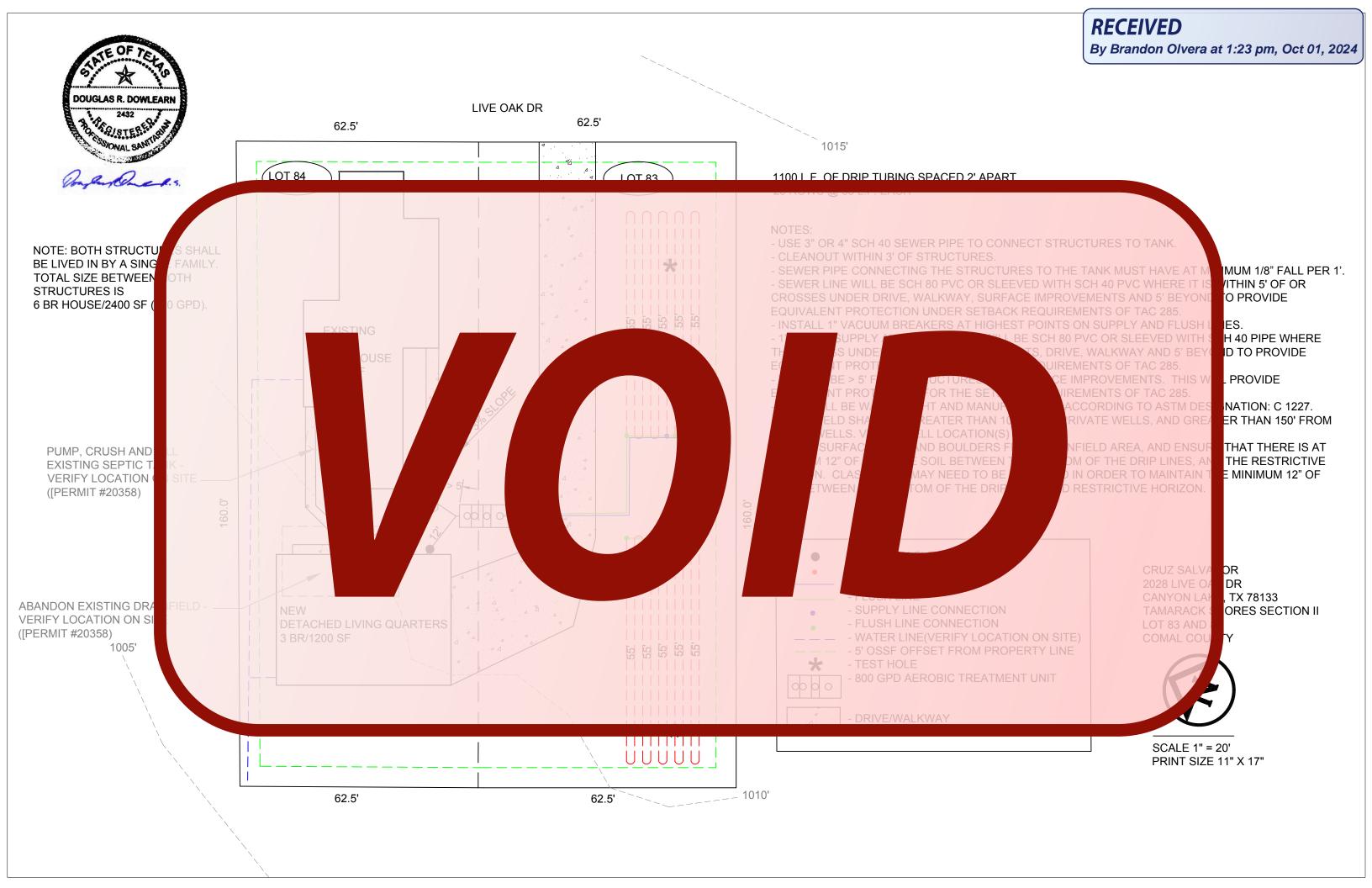
1" purple PVC supply line

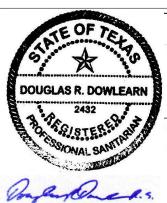
30 PSI pressure regulator - Model PMR30MF

Netafim Bioline Drip tubing

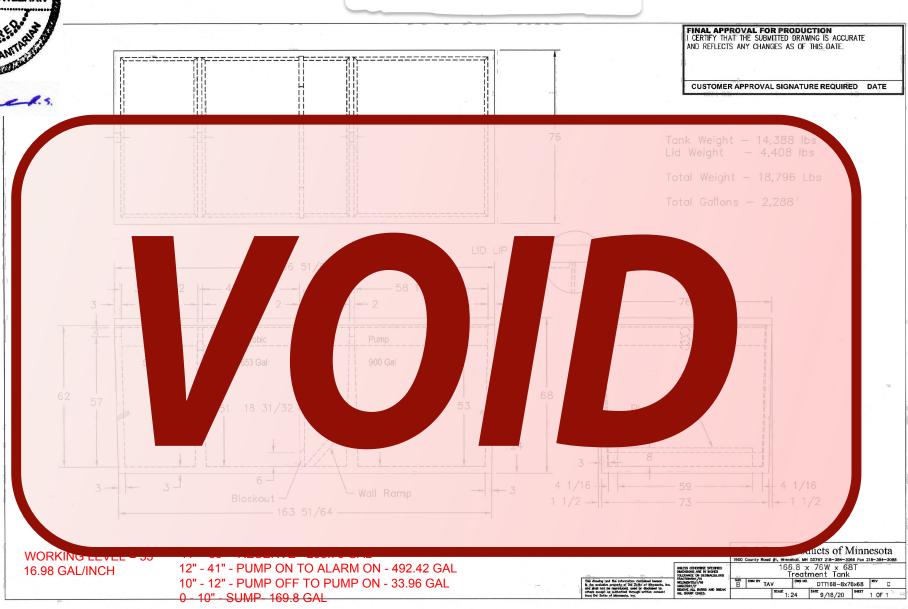
LANDSCAPING:

The native vegetation in the distribution area should consist of low level shrubs, plains grass, bluestem or bermuda. The entire area of the drip disposal must be covered with a ground cover such as grass seed or sod prior to the final inspection.





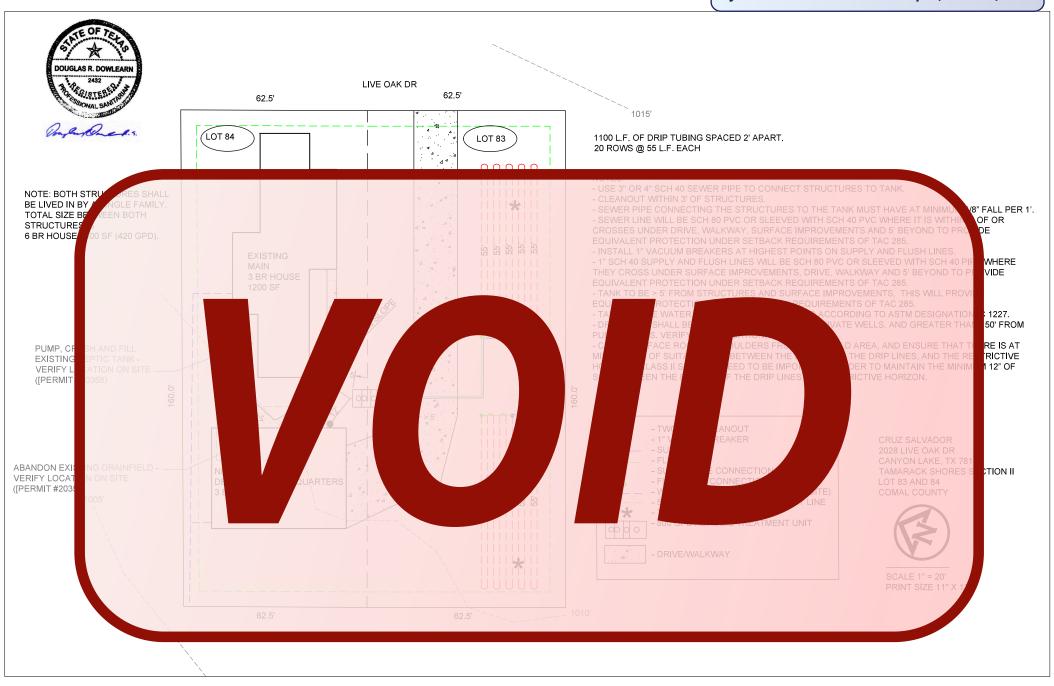
AERIS D840 TANK SCHEMATIC



NOTE: SET ON A TIMER TO DOSE 8 TIMES PER DAY AT 10 MINUTES PER DOSE.

RECEIVED

By Brandon Olvera at 12:23 pm, Nov 14, 2024



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.

GENERAL WARRANTY DEED

Date:

October 17, 2021

Grantor:

GUILLERMO ESCOBEDO, a single man

Grantor's Mailing Address: 1081 Pocky (Reck De Chyon 144 78/3

Grantee:

SALVADOR CRUZ, a married person owning, occupying and claiming other

property as homestead

Grantee's Mailing Address, and after Recording, Return to: 894 Rambling Drive, Canyon Lake, TX 78133

Cash and other good and valuable consideration, the receipt and sufficiency Consideration: of which are hereby acknowledged.

Property (including any improvements):

Lots 83 and 84, TAMARACK SHORES, SECTION II, a subdivision in Comal County, Texas, according to the map or plat thereof recorded in Volume 4, Pages 8-9 of the Map and Plat Records, Comal County, Texas.

Reservations from Conveyance: None

Exceptions to Conveyance and Warranty: Validly existing easements, rights-of-way, and prescriptive rights, whether of record or not; all presently recorded and validly existing instruments, other than conveyances of the surface fee estate, that affect the Property; and taxes for 2021, which Grantee assumes and agrees to pay, but not subsequent assessments for that and prior years due to change in land usage, ownership, or both, the payment of which Grantor 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, except as to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty.

The Contract between Grantor as the Seller and Grantee as the Buyer, if any, may contain limitations as to warranty or other agreed matters; to the extent that such Contract provides for limitations or other agreed matters that will survive the closing and this conveyance, then such limitations or other agreed matters are hereby deemed incorporated by reference. The warranty of title contained in this Deed is hereby expressly excluded from the limitations or other agreed matters referenced in this paragraph.

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

GUILLERMO ESCOBEDO

STATE OF TEXAS

COUNTY OF COUNTY OF

This instrument was acknowledged before me on October 15, 2021 by GUILLERMO ESCOBEDO.

DORA ZAMORA

Notary Public, State of Texas

Comm. Expires 11-14-2021

Notary ID 10607042

Notary Public, State of Texas

Filed and Recorded Official Public Records Bobbie Koepp, County Clerk Comal County, Texas 10/18/2021 10:06:34 AM TERRI 2 Pages(s) 202106054160

