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

Permit#: Address:

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)(B) 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)					

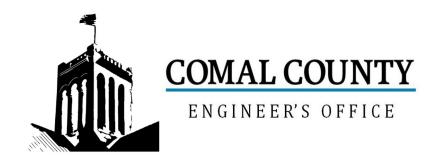
Inspector Notes:

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)				

	O33i inspection sheet						
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)(ii) 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: 118496

Issued This Date: 04/28/2025

This permit is hereby given to: 760 Lookout Dr., LLC

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

760 LOOKOUT DR

CANYON LAKE, TX 78133

Subdivision: Canyon Lake Hills

Unit: 1

Lot: 263

Block: 0

Acreage: 0.0000

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.





BILL TO:
David Winters Septics, LLC David Winters
Spring Branch, Tx
- Pring Branon, TX

SHIP TO:

760 Lookout Dr. Canyon Lake, TX 78133

Billing Type	Invoice
Billing Number	00032765
PO Number	pumping
Billing Date	5/5/2025
Billing Due Date	5/5/2025
Amount Due	\$325.00

PAY ONLINE

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	SUB-TOTAL	TAX AMOUNT	TOTAL
Pumping	pumping - Complete conventional pump out. Gallons Pumped: 750	1.00	\$325.00	\$325.00	\$0.00	\$325.00
	Red	Receipt from Luna Environmental		al	ub-Total ales Tax	\$325.00 \$0.00

Possint #1156 0193

Receipt #1156-0183

 Sales Tax
 \$0.00

 Total
 \$325.00

 Amount Paid
 (\$0.00)

 Credit Amount
 (\$0.00)

 Amount Due
 \$325.00

Amount paid \$325.00

Date paid

May 5, 2025, 2:06:56 PM

Please make checks payable to:

Luna Environmental, LLC 9595 Ranch Rd 12 Suite #1 Wimberley, TX 78676 Payment method Mastercard - 2007



RECEIVED By Brandon Olvera at 4:01 pm, Apr 22, 2025

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

Date		Permit Nu	ımber	
1. APPLICANT / AGENT INFORMATION				
Owner Name 730 Lookout Dr. LLC.	Agent Name	David Winte	ers Septics LLC.	
Mailing Address	Agent Address	P.O Box 19	5	
City, State, Zip	City, State, Zip	Spring Bran	nch, TX 78070	
Phone #	Phone #	830-935-24	77	
Email	Email	Winterssep	tics@gvtc.com	
2. LOCATION				
Subdivision Name Canyon Lake Hills		Unit 1	Lot 263	Block
Survey Name / Abstract Number			Acreage	
Address 760 Lookout Dr.	City Canyon Lake	9	State TX	Zip 78133
3. TYPE OF DEVELOPMENT				
Single Family Residential				
Type of Construction (House, Mobile, RV, Etc.) House	e + Office with s	sink		
Number of Bedrooms 3				
Indicate Sq Ft of Living Area 1430 Sq Ft. Main Ho	use + 270 Sa. F	t. Office =	:1700 Sa. Ft	
Non-Single Family Residential				
(Planning materials must show adequate land area for doubling	g the required land nee	eded for treatm	nent units and dis	posal area)
Type of Facility				
Offices, Factories, Churches, Schools, Parks, Etc Indi		upants		
Restaurants, Lounges, Theaters - Indicate Number of S				
Hotel, Motel, Hospital, Nursing Home - Indicate Number				
Travel Trailer/RV Parks - Indicate Number of Spaces				
Miscellaneous				
Estimated Cost of Construction: \$ 150,000.00	(Structure Only)			
Is any portion of the proposed OSSF located in the United S	States Army Corps of	Engineers (USACE) flowag	e easement?
Yes No (If yes, owner must provide approval from USACE	for proposed OSSF imp	rovements withi	n the USACE flowa	ge easement)
Source of Water Public Private Well Rainv	vater			
4. SIGNATURE OF OWNER				
By signing this application, I certify that: - The completed application and all additional information submitted facts. I certify that I am the property owner or I possess the approproperty.	riate land rights necess	sary to make t	ne permitted impr	ovements on said
 Authorization is hereby given to the permitting authority and design site/soil evaluation and inspection of private sewage facilities 	ated agents to enter up	on the above	described proper	ty for the purpose of
 I understand that a permit of authorization to construct will not be is by the Comal County Flood Damage Prevention Order. I affirmatively consent to the online posting/public release of my e-r 				
Lester Collinsworth	03/21/2		, , , , , , , , , , , , , , , , , , , ,	•
Signature of Owner	Date			Page 1 of 2



Signature of Designer

RECEIVED By Brandon Olvera at 4:14 pm, May 20, 2025

195 DAVID JONAS DR NEW BRAUNFELS, TX 78132 (830) 608-2090 <u>www.cceo.org</u>

Planning Materials & Site Evaluation as Required Completed By Garrett R. Winters R.S #5213
System Description Aerobic System W/ Drip Irrigation
Size of Septic System Required Based on Planning Materials & Soil Evaluation
Tank Size(s) (Gallons) 600GPD Absorption/Application Area (Sq Ft) 1356
Gallons Per Day (As Per TCEQ Table III) 240
(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: GARRETT R. WINTERS 5213 Control Cont
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.

3/20/2025

Date

COUNTY OF COMAL STATE OF TEXAS

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):

Lot 263, CANYON LAKE HILLS, UNIT NO.1, Situated in Comal County,

Texas

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

760 Lookout Drive, 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 OSSF may be obtained from Comal County Engineer's Office.

WITNESS BY HAND(S) ON THIS 21 DAY OF MCYCh 2025.

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WHITNESS BY HAND(S) ON

Filed and Recorded Official Public Records Bobbie Koepp, County Clerk Comal County, Texas 03/21/2025 03:51:34 PM TRACY 2 Pages(s) 202506008236



DAVID WINTERS SEPTICS, LLC PO BOX 195 SPRING BRANCH, TX 78070 830-935-2477 OFFICE 830-935-2477 FAX

wintersseptics@gvtc.com

Routine Maintenance and Inspection Agreement

,	This Work-for-Hire Agreement (hereafter referred to as this "Agreement") is entered into, by, and between					
	760 Lookout Canyon LLC. (referred to as "Client") and David Win					
(Date beginning on Issue Date of				
-	and contract ending 2 years from Issue Date of License to Operate	License to Operate				
]	By this agreement the Contractor agrees to render professional service, as described herein, an	d the Client agrees to fulfill the				
1	terms of this Agreement as described herein.					

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

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

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

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

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

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

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

Service calls made outside of the regular maintenance schedule are subject to a \$75.00 SERVICE CALL FEE due at the time of service.

ACCESS BY CONTRACTOR

The contractor or anyone authorized by the contractor may enter the property at reasonable times without prior notice for the purpose of service described above. First 2 years

PAYMENT AGREEMENT

included with new

The client will pay compensation to the contractor for the services in the amount of install . This compensation shall be payable in one lump sum payment upon acceptance of this agreement. Payments not received within 30 days of the above described due date will be subject to a \$25.00 late penalty.

TERMINATION OF THIS AGREEMENT

Either party may terminate this agreement within 10 days of written notice in the event of substantial failure to perform in accordance with its terms by other party without fault of the terminating party. If this agreement is terminated, the contractor will immediately notify the appropriate health authority.

LIMIT OF LIABILTY

Permit # ___

Signature of Client

The Contractor will not be liable for indirect, consequential, incidental or punitive damages, whether in contract 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.

	The effective date of this initial maintenance ag	reement shall be the date the license to operate is issued.
	Client	Contractor
	760 Lookout Canyon LLC.	David Winters Septics LLC.
	Name	
	760 Lookout Dr.	1550 Oak Meadows
	Address	- San Nan Sergi (201
	Canyon Lake, TX 78133	Canyon Lake, Texas 78133
City/	State/Zip Code	
	830-227-5009	Office- 830-935-2477 Email-Wintersseptics@gvtc.com
	Phone	
	les@sunnycirclehomes.com	
	Email address	By: Derry Winters
	April 0	Signature of Contractor
	Miny	
	Signature of Client	Maintenance Provider #-MP0001686

By Brandon Olvera at 4:01 pm, Apr 22, 2025

AFFIDAVIT OF A SINGLE FAMILY RESIDENCE

THE COUNTY OF Comal	
STATE OF TEXAS	
Before me, the undersigned authority, on this day personally appeared	730 Lookout Dr. LLC.
	who after being duly sworn, upon
oath states that he/ she is the owner of record of those certain tracts or situated in Comal County, Texas, and being more particularly described	parcels of land lying and being as follows:
Lot 263, CANYON LAKE HILLS, UNIT NO.1, Situated in Comal County, Texas	
The undersigned further states the following described structures	
1430 Sq Ft. 3 bedroom Main House and the 270 Sq. Ft. Office with sink	
on the said residential property are for one family and are routinely use	ed only by members of the household
of that one family.	[46]
WITNESS BY HAND(S) ON THE 21 DAY OF April	, 20 <u>25</u>
- frilling	
Owner(s) signature(s)	
SWORN TO AND SUBSCRIBED BEFORE ME ON THIS	
DAY OF April , 2025	
and taly	SAMUEL PEDRAZA
Notary Signature	Notary Public, State of Texas Notary ID# 13167716-7
Notary's Printed Name: Samuel Pedraza.	My Commission Expires AUGUST 10, 2026
My Commission Expires: August 10, 2026.	

OSSF Soil & Site Evaluation

Page 1 (Soil	& Site Eval	uation)	Γ	Date Performed: /				
Property Owi	ner:			_				
borings or dug p least two feet be	IENTS: t two soil excava pits must be show elow the proposed	ations must be performed on the on the site drawing. For sund disposal field excavation dedentify any restrictive features	he site, at opposite ends absurface disposal, soil e pth. For surface disposa	of the proposed disp valuations must be p ll, the surface horizo	performed to a depth of at n must be evaluated.			
Soil Boring Number:								
Depth (Feet)	Texture Class	Gravel Analysis (If Applicable)	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations			
1 FT.			11002 20020)					
2 FT.								
3 FT.								
4 FT.								
5 FT.								
Soil Boring Number:								
Depth (Feet)	Texture Class	Gravel Analysis (If Applicable)	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations			
1 FT.								
2 FT.								
3 FT.								
4 FT.								
5 FT.								
Presence of u Presence of a	roposed water	zone			☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ %			
I certify that tability.	the findings of	f this report are based on	my field observation	ns and are accura	te to the best of my			
(Signature o	of person perfo	orming evaluation)	(Date)	Registration N	Number and Type			

By Brandon Olvera at 4:12 pm, May 20, 2025

GW Septic Designs



On-Site Sewage Facility Application and Design

Prepared By:
Garrett R. Winters
Registered Professional Sanitarian
R.S# <u>5213</u>



Contact Information

Phone: (210) 854-2673

Email: Gwintersseptics@gmail.com

By Brandon Olvera at 4:12 pm, May 20, 2025

Owner/Site Location

Owner/Builder:

Address: 760 Lookout Dr. Canyon Lake, TX 78133

Subdivision: CANYON LAKE HILLS 1

Lot: 263

LOT DESCRIPTION

The proposed method of wastewater treatment is aerobic treatment with Drip irrigation. The sizing of the OSSF was determined as specified in the Texas Commission on Environmental Quality (TCEQ) CHAPTER 285.33 (C)(2). Water saving devices are assumed for the septic system design. This site is not within the 100-Year flood plain (see site plan). Water to the property will be serviced by a public water supply. All parts of the system will maintain at least a 10-foot setback from all water lines and 5-foot from property lines.

This design was performed in conformance with Chapter 285 of the Texas Commission on Environmental Quality. I have performed a thorough site visit of the proposed lot as a Professional Registered Sanitarian and Site Evaluator in accordance with Chapter 285, Subchapter D, regarding Recharge Features, of the Texas Commission on Environmental Quality

System Summary

This design was performed in conformance with Chapter 285 of Texas Commission on Environmental Quality.

- 600gpd Aerobic DRIP treatment unit
- Control Dosing Timer
- 20gpm submersible effluent pump
- Aerator
- SCH40 PVC Sewer line
- 1" purple PVC SCH40 supply/return manifold
- NETAFIM Arkal 100-micron disk filter
- Pressure Gauge
- 40PSI pressure regulator Model PMR40MF
- Vacuum Breakers installed at the highest points of the drip field.
- Spin lock connections
- Drip Tubing (Netafim Bioline)
- Visual and audio alarms monitoring high water and aerator failure placed in a noticeable location.

Wastewater Design Flow

Structure: SINGLE FAMILY RESIDENCE (1430SF) + OFFICE NO BR (270SF) COMBINED 1700SF

of Bedrooms: 3

Wastewater Usage Rate: 240gpd

Application Rate: 0.2

Application Area Required: 1200SF Actual Application Area: 1356SF

System Components

Pretreatment Tank: 500gal Pump Tank: 800gal Aeration Tank: 600gpd

Pump: C1 20gpm submersible pump (Model no. 20C1-05P4-2W115 or equivalent)

Pump tank reserve minimum: 80gal





By Brandon Olvera at 4:12 pm, May 20, 2025

Potable Water Lines

Potable water lines must be at a minimum distance of 10 feet from OSSF components. If a water line is within 10 feet, it must be sleeved with 2" SCH40 PVC Pipe in order to provide equivalent protection of a 10' separation in compliance with TAC chapter 290, Subchapter D, Rules for Public Drinking Water Systems.

Electrical Components

All electrical wiring shall conform to the requirements of the National Electric Code (1999) or under any other standards approved by the executive director. Additionally, all external wiring shall be installed in approved, rigid, non-metallic gray code electrical conduit. The conduit shall be buried according to the requirements in the National Electric Code and terminated at a main circuit breaker panel or sub-panel. Connections shall be in approved junction boxes. All electrical components shall have an electrical disconnect within direct vision from the place where the electrical device is being serviced. Electrical disconnects must be weatherproof (approved for outdoor use) and have maintenance lockout provisions.

Installation

A 3" or 4" solid-wall SCH40 or SDR 26 PVC pipe with a minimum downward slope of 1/8 inch per foot will be installed between the tank and house. A 2-way cleanout must be included in the line between the house and tank. All piping from house-to-tank and tank-to-drain field must be bedded with class Ib, II, or III soils containing less than 30% gravel. The bottom of the excavation for the tank shall be level and free of large rocks/debris, the tanks shall then be bedded with a 4"-6" layer of sand, sandy loam, 3/4 dust or pea gravel. All openings in the tank are to be sealed to prevent the escape of wastewater. For all OSSF's permitted on or after September 1, 2023, inspection and cleanout ports shall have risers over the port openings which extend to a minimum of **two inches above grade**. A secondary plug, cap, or other suitable restraint system shall be provided below the riser cap to prevent tank entry if the cap is unknowingly damaged or removed. A secondary plug, cap, or other suitable restraint system shall be provided below the riser cap to prevent tank entry if the cap is unknowingly damaged or removed. Risers must be fitted with removable watertight caps and protected against unauthorized intrusions. Acceptable protective measures include: a padlock and a cover that can be removed with tools.

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. The native soil in the proposed drip field is to be scarified. The location of an individual sewage system shall not be in a poorly drained or filled area, or in any area where seasonal flooding/seeping occurs, without prior written approval. Stormwater runoff should not be allowed to flow over the drip field or tanks. Berms, swales and/or rain gutters should be installed by the owner/contractor to minimize erosion and field saturation. If the slope in the drain field area is greater than 30% or is complex, the area is unsuitable for the disposal method, suitable fill shall be brought into the field area to meet this requirement. The drip field shall then either be seeded and covered with Curlex or sodded.

As the septic designer for this project, responsibility is limited to the design and layout of the septic system based on the conditions at the time of design. There can be no liability for any drainage issues or system performance problems arising from construction activities or modifications made by contractors or other parties after the design has been finalized. It is essential for all parties to consult with qualified professionals before making changes that could impact on the system.



By Brandon Olvera at 4:12 pm, May 20, 2025

Maintenance Contract

For any OSSF with a pump, the installer shall provide the Designated Representative with proof of an executed two-year full-service maintenance contract as required by the TCEQ. The maintenance company will verify that the system is operating properly and that they will provide on-going maintenance of the installation. The initial contract will be for a minimum of 2 years. A maintenance contract will authorize the Maintenance Company to maintain and repair the system as needed. The owner must continuously maintain a signed written contract with a valid maintenance company and shall submit a copy of the contract to the permitting authority at least 30 days prior to the date service will cease.

Maintenance & Operations

Water Conservation: Proper water management is essential to prevent septic system failure. To promote water efficiency, the use of low-flow toilets (1.6 gallons per flush or less) and water-saving showerheads and faucets is mandatory. Additionally, any leaking fixtures should be promptly repaired or replaced to ensure optimal system performance.

Garbage Disposal: The use of a garbage disposal is discouraged, as it increases the presence of fats, grease, and floating solids within the septic tank, which can clog the system's lines and disrupt normal operation.

Septic Tank Maintenance: Septic tanks require regular pumping to function effectively. It is recommended that tanks be pumped annually by a licensed pumping service. In the event of an alarm condition, discontinue use of the system until the pumping chamber is serviced, and a qualified maintenance provider or licensed installer addresses the necessary repairs.

Appropriate Waste Disposal: The system is designed exclusively for treating and disposing of domestic wastewater. The disposal of products such as commercial enzymes, yeast, or water softener backflush through the system is prohibited, as they may interfere with the treatment and disposal processes.

Vegetation and Drain Field Maintenance: The presence of vegetation on the drain field is crucial for system functionality. Erosion control measures should be applied immediately to disturbed or imported soils upon system completion to minimize erosion. Ground cover must be maintained, as it supports plant transpiration and stabilizes the soil. If vegetation dies, it should be promptly replaced to maintain

system efficiency. Any settling of the soil that causes ponding or surface water channeling should be addressed by replacing the material with quality sandy loam, which should be compacted and revegetated. Proper drainage and maintenance of vegetation prevent the formation of furrows and ensure the long-term viability of the drain field. Berms, swales, and retaining walls originally designed for the system must be preserved. The final landscaping must not interfere with the protection of the disposal fields or septic tanks. It is important to note that clay-backed sod is not recommended for this type of drain field. Furthermore, no structures (such as sidewalks, patios, or decks) should be placed over the disposal fields, and no traffic should be allowed over any components of the septic system.

Surface Water Management: To prevent infiltration of surface water into the treatment tanks, proper drainage must be maintained. If tanks are located downhill, berms or tank lid risers should be used to direct surface water away. Standing water over the tanks should be avoided, as it can cause tanks to fill excessively, leading to potential flooding of the drain field and additional strain on the system's pump, which may accelerate system failure. Gutters may be required to divert water from the disposal area.

Surface Water Management: To prevent infiltration of surface water into the treatment tanks, proper drainage must be maintained. If tanks are located downhill, berms or tank lid risers should be used to direct surface water away. Standing water over the tanks should be avoided, as it can cause tanks to fill excessively, leading to potential flooding of the drain field and additional strain on the system's pump, which may accelerate system failure. Gutters may be required to divert water from the disposal area.

By Brandon Olvera at 4:12 pm, May 20, 2025

System Flushing and Maintenance: Regular flushing under full system pressure is vital for the proper operation and longevity of the system. Over time, biomat can accumulate in dripper lines and emitters, leading to clogs. Frequent flushing helps to dislodge the biomat and reduce debris buildup. Dripper lines and filters should be cleaned on a routine basis. If the lines become sluggish or filters frequently clog, it may be necessary to install a larger filter or an automatic backwashing system. It is important to monitor the pressure within the dripper lines and ensure the pressure regulator valve is properly adjusted. If a flow meter is installed, check the flow rates regularly. Any adjustments or maintenance should be performed in consultation with your maintenance provider. Routine inspections are required and will be conducted by your installer or maintenance provider for the first two years. After the two-year maintenance period, it will be the homeowner's responsibility to engage a maintenance provider for continued scheduled upkeep of the system.

Affidavit

Prior to issuance of a permit, a certified copy of an affidavit must be submitted to the County Clerk's office. The affidavit is a recorded file in reference to the real property deed on which the surface application is installed on the property. The permit issued to the previous owner of the property being transferred to the new owner in accordance with §285.20(5) of the TCEQ OSSF Rules. The permit will be issued in the name of the owner of the OSSF. Permits shall be transferred to the new owner automatically upon legal sale of the OSSF. The transfer of an OSSF permit under this section shall occur upon actual transfer of the property on which the OSSF is located unless the ownership of the OSSF has been severed from the property.

Proposed System

A 3- or 4-inch SCH-40 pipe discharges from the residence into an Aquaklear AKA600CA aerobic treatment plant (600 gpd), which includes a 500-gallon pretreatment tank and an 800-gallon pump chamber. A threaded union will be installed in the pump tank on the supply manifold, and a pressure regulator will be set to maintain a pressure of 40psi. The pump chamber houses a 0.5 HP Franklin C1-Series-20XC1-05P4-2W115 submersible well pump (or equivalent). Distribution is facilitated through a self-flushing 100-micron Arkal Disk filter and then through a 1-inch SCH-40 manifold to a minimum of 1,356 square feet of drip tubing field. This field will use Netifim Bioline drip lines, spaced approximately two feet apart, with 0.61 gph emitters set every two feet, as per the attached schematic. A 1-inch SCH-40 return line is installed to periodically flush the system. Solids collected in the disk filter will be flushed back to the pretreatment tank during each cycle. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower areas of the field. The field area will be scarified and built up with 4 inches of imported Type II or Type III soil (not sand) and capped with 6 inches. The drip field will then be seeded and covered with Curlex or sodded.



The following design is intended to follow and meet the TCEQ 30 TAC 285 OSSF Regulations. The performance of this system cannot be guaranteed even though all provisions of 30 TAC 285 have been met or exceeded.



GW Designs | By Brandon Olvera at 4:12 pm, May 20, 2025

Garrett R. Winters

(210) 854-2673

May 19, 2025
<u>Comal County Engineers Office</u>
195 Jonas Dr.
New Braunfels, TX 78132

RE- Septic Design 760 Lookout Dr. Canyon Lake, TX 78133

Brenda/Brandon

I am requesting a variance for a water line that is within 10ft of the OSSF drip field, and supply/return lines. The variance is being requested due to lack of space on this particular lot, equivalent protection will be maintained by sleeving the water line with 2" SCH 40 PVC pipe where it is within 10' of the OSSF components. I hereby request a variance to chapter 285 Table X & 290.44 (e)(8). In my professional opinion this variance will not pose a threat to the environment or public health.

Please feel free to contact me with any questions or concerns.

Sincerely,

Garrett R. Winters R.S #5213

GARRETT R. WINTERS

5213

OCTOS/ONAL SAMURA

(2.5)

FLOOD PLAIN: AFTER CAREFUL EXAMINATION AND STUDY OF AVAILABLE DATA (INCLUDING FEMA PANEL ZONE X (AREA OF MINIMAL FLOOD HAZARD) I HAVE DETERMINED, TO THE BEST OF MY ABILITY, THAT NEITHER THE HOUSE NOR THE SEPTIC IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN.

DRIP FIELD

LENGTH

18

18

17

17

16

16

15

15

22

22

20

20

17

14

14

13

13

12

12

10

402LF

26 LINES AT

VARIOUS LENGTHS

SHOWN (402LF)

LINE

10

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

TOTAL

NOTE

EXISTING SEPTIC TANK TO BE PUMPED, CRUSHED AND BACKFILLED. EXISTING DRAINFIELD TO BE ABANDONED

RECEIVED

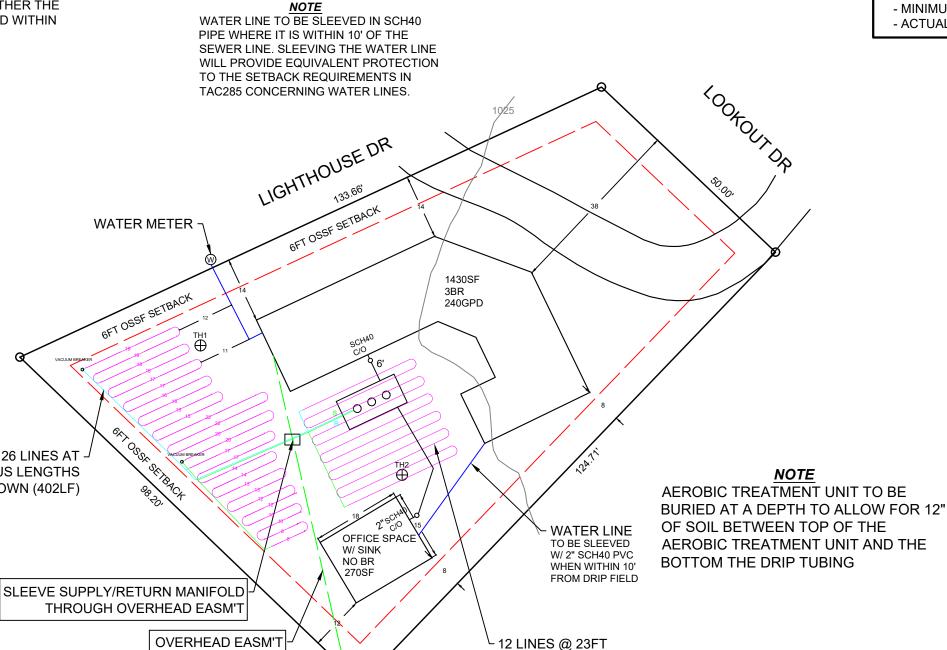
By Brandon Olvera at 4:25 pm, May 20, 2025

OSSF INFORMATION

- STRUCTURE: HOME (1430SF) + OFFICE (270F)
- BEDROOMS: 3
- DAILY WASTEFLOW: 240GPD
- TANK MANUFACTURER: AQUAKLEAR AKA600CA
- MINIMUM DRIP FIELD COVERAGE: 1200SF
- ACTUAL COVERAGE AREA: 1356SF

NOTES

- ALL POTABLE WATER LINES SHALL BE A MINIMUM OF 10 FEET FROM ANY PART OF
- TANK SEWER PIPE MUST HAVE AT MINIMUM .25" FALL PER 1'
- USE 3" OR 4" SCH40 PIPE TO CONNECT STRUCTURE TO TANK
- VACUUM BREAKERS ARE TO BE PLACED AT THE HIGHEST POINT ON THE SUPPLY AND RETURN LINES
- NO VEHICLE TRAFFIC IS TO BE ON ANY PART OF THE DISPOSAL AREA
- SYSTEM SHALL INCLUDE AUDIO AND VISUAL ALARMS TO INDICATE HIGH WATER AND AIR
- ALL PIPES SHALL BE SCHEDULE 40 PVC OR APPROVED EQUAL, UNLESS NOTED OTHERWISE, ALL JOINTS SHALL BE CLEANED WITH THE APPROPRIATE SOLVENT AND GLUED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION
- ONLY GOOD QUALITY SANDY LOAM SHALL BE APPLIED OVER THE DISPOSAL FIELDS. CLASS IV CLAY IS UNACCEPTABLE AND WILL CAUSE SYSTEM FAILURE. SANDY LOAM SHALL BE DEFINED AS SHOWN IN TABLE VI (USDA SOIL TEXTURAL CLASSIFICATIONS) OF THE RULES AND REGULATIONS OF THE TCEQ. THE INSTALLER IS RESPONSIBLE FOR VERIFYING THE QUALITY OF EACH LOAD OF LOAM PLACED ON THE SYSTEM.
- STORM WATER (RAINFALL RUNOFF) SHOULD NOT BE ALLOWED TO FLOW OVER THE DISPOSAL FIELDS OR THE TANKS. DIVERSION BERMS, SWALES AND/OR RAIN **GUTTERS SHOULD BE INSTALLED AS** NECESSARY TO PREVENT SUCH RUNOFF
- THIS DISPOSAL SYSTEM HAS BEEN DESIGNED TO OPERATE PROPERLY AT SPECIFICATIONS NOTED IN THESE PLANS. ALTERATIONS TO THE SYSTEM BY THE OWNER, INCLUDING BUT NOT LIMITED TO LANDSCAPING, DRAINAGE, BUILDING AND/OR WATER USAGE, MAY CAUSE PREMATURE FAILURE AND SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER
- THIS SITE PLAN IS EXPRESSLY INTENDED FOR ON-SITE SEWAGE FACILITY (OSSF) USE ONLY AND SHOULD NOT BE UTILIZED OR CONSTRUCTED FOR SURVEYING PURPOSES. ITS PURPOSE IS TO ACCURATELY REPRESENT THE LAYOUT AND DESIGN OF THE SEWAGE SYSTEM WITHIN THE SPECIFIED PROPERTY **BOUNDARIES FOR REGULATORY AND** OPERATIONAL COMPLIANCE.



276LF

Revised 05/20/2025 7:49:54 AM

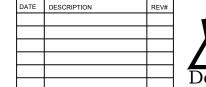
PREPARED BY: GARRETT R. WINTERS R.S #5213

OWNER:

ADDRESS: 760 Lookout Dr. Canyon Lake, TX 78133

SUBDIVISION: CANYON LAKE HILLS 1

LOT: 263



SCALE:1"- 20'

DATE: 5/20/2025



By Brenda Ritzen at 3:15 pm, Apr 28, 2025



March 27, 2025

760 Lookout Dr. LLC 156 Canyon Bend Canyon Lake, TX 78133

Dear Member:

In reviewing the Site Utility Plan for the location at 760 Lookout Dr., Canyon Lake, TX. 78133. There are no easements associated with the overhead power line that is running from the Pedernales Electrical Cooperative, Inc electrical power pole to meter on the house. We acknowledge that we don't have an objection with the septic 1 inch PVC sched. 40 pipes crossing the overhead electrical line. As long as you are aware, that the Cooperative's must have the ability to maintain, patrol or construct any electric facilities. In addition, the Cooperative will assume no liability for any damages to the aerobic treatment plant system which may possibly occur during the course of our work.

If you have any questions, please visit us online or give us a call at 877-372-0391 option #5. We are available Monday through Friday from 8 a.m. to 5 p.m.

Sincerely,

Eric Villanueva

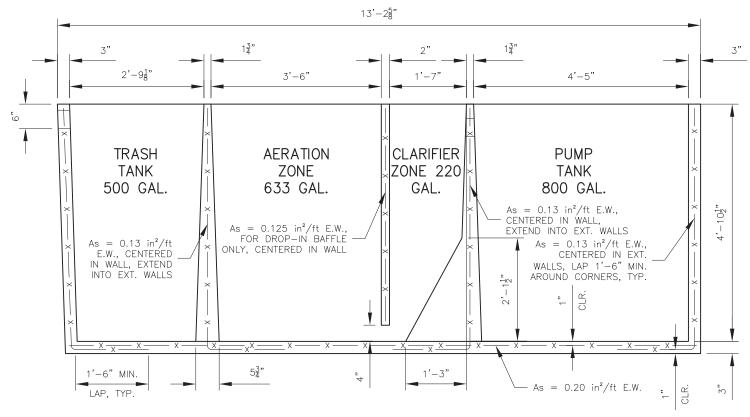
Electrical Distribution Design & Planning Manager

Canyon Lake District

EV:bb

Q99/Account 3001704172

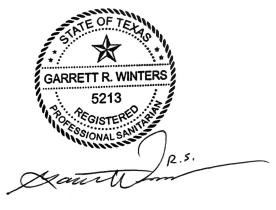
Payment line: 844-886-9798 Power interruptions: 888-883-3379



REINFORCING SECTION

PUMP FLOAT SETTINGS FOR: 240GPD

Volume	800.0	gallons		
Water Depth	52.5	inches		
Volume / Vertical Inch	15.24	gal/in		
Dain Donner Walnus	4/2	- (0	100	1/-1
Min. Reserve Volume	1/3	of Q	100	gal/day
Pump OFF	12	inches =	182.9	gallons
Pump ON	15	inches =	45.7	gallons
High Water ALARM	36	inches =	320.0	gallons
RESERVE	52.5	inches =	251.4	gallons



			PREPARED FOR:
			DAVID WINTERS SEPTIC P.O. BOX 195 SPRINF BRANCH, TX 78070
REV.NO.	DATE	REVISION	
PREPARED BY: SPECIALTY PRECAST CONCRETE ENGINEERS 860 HOOPER ROAD, ENDWELL, NY 13760-1564 PHONE(607)231-6650 FAX(607)231-6650			



BIOLINE® DRIPLINE

THE WORLD'S MOST ADVANCED CONTINUOUS
SELF-CLEANING, PRESSURE COMPENSATING DRIPLINE
SPECIFICALLY DESIGNED FOR WASTEWATER

CROSS SECTION OF BIOLINE DRIPLINE

Bioline dripper inlets are positioned in the center of flow where water is the cleanest





PRODUCT ADVANTAGES

- Pressure compensation all drippers deliver equal flow, even on sloped or rolling terrain.
- Unique flow path Turbonet technology provides more control of water and a high resistance to clogging.
- Continuous self-flushing dripper design flushes debris, as it is detected - throughout operation, not just at the beginning or end of a cycle. Ensures uninterrupted dripper operation.
- Single hole dripper outlet from tubing:
 - Better protection against root intrusion
 - Allows the dripline to be used in subsurface applications without need for chemical protection
- Drippers capture water flow from the center of the tubing ensures that only the cleanest flow enters the dripper.
- Built-in physical root barrier drippers are protected from root intrusion without the need for chemical protection. Water exits dripper in one location while exiting the tubing in another.
- Three dripper flow rates provides the broadest range of flow rates available. Allows the designer to match the dripline to any soil or slope condition.
- Bioline tubing is completely wrapped in purple easily identifying it for non-potable use, regardless of how the tubing is installed.
- Anti-bacterial-impregnated drippers prevents buildup of microbial slime.
- Can be used subsurface Bioline can be installed on-surface, under cover or subsurface.
- No special storage requirements does not degrade if stored outdoors.
- Techfilter compatible an optional level of protection, provides a limited lifetime warranty against root intrusion.

APPLICATIONS

- Typically installed following a treatment process
- Can be used with domestic septic tank effluent with proper design, filtration and operation
- Reuse applications including municipally treated effluent designated for irrigation and other disinfected and non-disinfected water sources.

SPECIFICATIONS

- Dripper flow rates: 0.4, 0.6 or 0.9 GPH
- Dripper spacings: 12", 18" or 24" dripper spacings and blank tubing
- Pressure compensation range: 7 to 58 psi (stainless steel clamps recommended above 50 psi)
- Maximum recommended system pressure: 50 psi
- Tubing diameter: 0.66" OD, 0.57" ID
- Tubing color: Purple color indicates nonnotable
- Coil lengths: 500' or 1,000' (Blank tubing in
- · Recommended filtration: 120 mesh
- Bending radius: 7"
- UV resistant
- Tubing material: Linear low-density polyethylene

Additional spacing and pipe sizes available by special order. Please contact Netafim USA Customer Service for details.

BIOLINE DRIPLINE

MAXIMUM LENGTH OF A SINGLE LATERAL WITH 3.0 fps Flush velocity ADDITIONAL FLOW OF 2.3 GPM REQUIRED PER LATERAL TO ACHIEVE 3 fps DRIPPER SPACING DRIPPER FLOW RATE (GPH) | 0.4 GPH | 0.6 GPH | 0.9 GPH | 0.4 GPH | 0.6 GPH | 0.9 GPH | 0.4 GPH | 0.6 GPH | Flow per 100' (GPM / GPH) 0.77/46 0.67/40 1.02/61 1.53/92 0.44/26.67 0.68/41 1.02/61 0.51/31

Lateral lengths are based on flows allowing for a 3 fps flushing/scouring velocity

MAX	MAXIMUM LENGTH OF A SINGLE LATERAL WITH 2.5 fps FLUSH VELOCITY									
ADD	ADDITIONAL FLOW OF 2.0 GPM REQUIRED PER LATERAL TO ACHIEVE 2.5 fps									
	DRIPPER SPACING 12						24"			
DRIP	PER FLOW RATE (GPH)	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH
щ	15	128	115	100	172	155	136	205	187	165
SE	25	183	161	137	248	220	188	301	268	231
PRESSURE	35	228	198	166	310	272	229	379	333	283
INLET	40	248	214	178	338	295	247	413	362	305
2	45	266	229	190	364	316	263	447	389	327
Flov	per 100' (GPM / GPH)	0.67/40	1.02/61	1.53/92	0.44/26.67	0.68/41	1.02/61	0.34/20	0.51/31	0.77/46

Lateral lengths are based on flows allowing for a 2.5 fps flushing/scouring velocity

MAX	MAXIMUM LENGTH OF A SINGLE LATERAL WITH 2.0 fps FLUSH VELOCITY										
ADD	ADDITIONAL FLOW OF 1.6 GPM REQUIRED PER LATERAL TO ACHIEVE 2.0 fps										
1	DRIPPER SPACING	12"				18"			24"		
DRIP	PER FLOW RATE (GPH)	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	
ш	15	161	141	119	217	191	164	263	233	201	
SIL	25	221	190	157	302	261	218	369	321	270	
PRESSURE	35	269	229	187	370	316	260	455	391	324	
INLET	40	290	246	200	399	340	278	493	421	347	
2	45	310	261	212	427	362	296	527	449	369	
Flow per 100' (GPM / GPH) 0.67/40 1.02/61			1.53/92	0.44/26.67	0.68/41	1.02/61	0.34/20	0.51/31	0.77/46		

Lateral lengths are based on flows allowing for a 2 fps flushing/scouring velocity

	MAXIMUM LENGTH OF A SINGLE LATERAL WITH 1.5 fps FLUSH VELOCITY										
ADD	ADDITIONAL FLOW OF 1.2 GPM REQUIRED PER LATERAL TO ACHIEVE 1.5 fps										
	DRIPPER SPACING		12"			18"			24"		
DRIP	PER FLOW RATE (GPH)	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	
щ	15	201	171	140	275	235	194	337	289	241	
PRESSURE	25	266	222	179	366	308	251	453	383	313	
E S	35	316	262	210	437	365	295	543	455	369	
INLET	40	337	280	223	469	391	313	583	487	393	
	45	358	296	235	497	413	331	619	517	415	
Flow	per 100' (GPM / GPH)	0.67/40	1.02/61	1.53/92	0.44/26.67	0.68/41	1.02/61	0.34/20	0.51/31	0.77/46	

Lateral lengths are based on flows allowing for a 1.5 fps flushing/scouring velocity

MAX	MAXIMUM LENGTH OF A SINGLE LATERAL WITH 1.0 fps Flush velocity									
	ADDITIONAL FLOW OF 0.8 GPM REQUIRED PER LATERAL TO ACHIEVE 1.0 fps									
DRIPPER SPACING 12"					18"	Ė		24"		
DRIP	PER FLOW RATE (GPH)	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH
ш	15	248	205	163	344	285	228	427	355	285
PRESSURE	25	315	258	203	440	361	286	549	453	359
PRES	35	367	299	234	513	419	331	643	527	417
INLET	40	389	316	248	545	445	350	683	559	441
2	45	409	332	260	574	468	367	721	589	463
Flow	per 100' (GPM / GPH)	0.67/40	1.02/61	1.53/92	0.44/26.67	0.68/41	1.02/61	0.34/20	0.51/31	0.77/46

Lateral lengths are based on flows allowing for a 1 fps flushing/scouring velocity

	MAXIMUM LENGTH OF A SINGLE LATERAL WITH 0.5 fps FLUSH VELOCITY ADDITIONAL FLOW OF 0.4 GPM REQUIRED PER LATERAL TO ACHIEVE 0.5 fps										
	DRIPPER SPACING		12"			18"			24"		
DRIP	PER FLOW RATE (GPH)	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	
ш	15	301	242	188	422	341	265	531	429	335	
PRESSURE	25	369	296	228	520	418	323	655	527	409	
PES	35	421	337	260	595	476	368	749	603	467	
INET	40	443	354	273	626	501	387	790	635	491	
2	45	464	371	285	656	524	404	829	665	513	
Flow	per 100' (GPM / GPH)	0.67/40	1.02/61	1.53/92	0.44/26.67	0.68/41	1.02/61	0.34/20	0.51/31	0.77/46	

Lateral lengths are based on flows allowing for a 0.5 fps flushing/scouring velocity

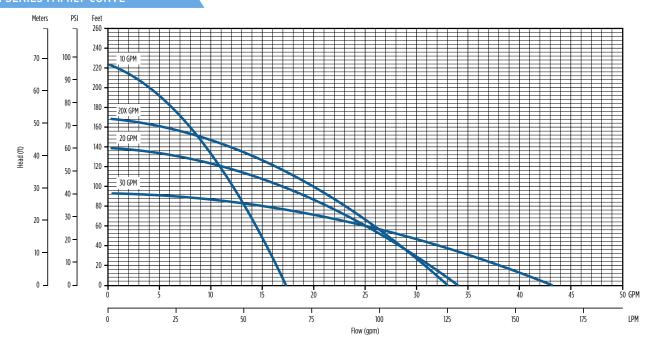
Netafim recommends flushing velocities capable of breaking free any accumulated bioslimes and debris in the piping network.

- Notes: 1. Refer to local regulations for information on flushing velocities that may be written into codes.
 - 2. Netafim does not endorse a specific flushing velocity.
 - 3. Flushing velocities should be determined based on regulations, quality of effluent, and type of flushing control.
 - Using a flushing velocity less than 1 fps does not provide turbulent flow as defined by Reynolds Number.
 - Higher flushing velocities provide more aggressive flushing.





C1 SERIES FAMILY CURVE



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
- Standard backflow prevention through a built-in, but removable, check valve.
- Single shell housing design provides a compact unit while ensuring cool and quiet 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, 1/2 hp motor
- Fluid flows of 10, 20, and 30 gpm, with a max shut-off pressure of over 100 psi
- Heavy-duty 300 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

GPM	HP	Volts	Stage	Model No.	Order No.	Length (in)	Weight (lbs)
10		115	6	10C1-05P4-2W115	90301005	26	17
10		230	6	10C1-05P4-2W230	90301010	26	17
20		115	4	20C1-05P4-2W115	90302005	25	16
20	1/2	230	4	20C1-05P4-2W230	90302010	25	16
20X	1/2	115	5	20XC1-05P4-2W115	90302015	26	17
201		230	5	20XC1-05P4-2W230	90302020	26	17
30		115	3	30C1-05P4-2W115	90303005	25	16
30		230	3	30C1-05P4-2W230	90303010	25	16

NOTE: All units have 10 foot long SJ00W leads



franklinwater.com M1698 08-21



PMR-MF

PRESSURE-MASTER REGULATOR - MEDIUM FLOW

Specifications

The pressure regulator shall be capable of operating at a constant, factory preset, non-adjustable outlet pressure of 6, 10, 12, 15, 20, 25, 30, 35, 40, 50, or 60 PSI (0.41, 0.69, 0.83, 1.03, 1.38, 1.72, 2.07, 2.41, 2.76, 3.45, or 4.14 bar) with a flow range between:

- 4 16 GPM (909 3634 L/hr) for 6 10 PSI models or
- 2 20 GPM (454 4542 L/hr) for 12 60 PSI models.

The pressure regulator shall maintain the nominal pressure at a minimum of 5 PSI (0.34 bar) above model inlet pressure and a maximum of 80 PSI (5.52 bar) above nominal model pressure*. Refer to the Model Numbers Chart on page 2 for outlet flow based on the model. Always install downstream from all shut-off valves. Recommended for outdoor use only. Not NSF certified.

All pressure regulator models shall be equipped with one of these inlet-x-outlet configurations:

Inlet	Outlet
3/4-inch Female National Pipe Thread (FNPT)	3/4-inch Female National Pipe Thread (FNPT)
1-inch Female National Pipe Thread (FNPT)	1-inch Female National Pipe Thread (FNPT)
1-inch Female British Standard Pipe Thread (FBSPT)	1-inch Female British Standard Pipe Thread (FBSPT)

The upper housing, lower housing, and internal molded parts shall be of engineering-grade thermoplastics with internal elastomeric seals and a reinforced elastomeric diaphragm. Regulation shall be accomplished by a fixed stainless steel compression spring, which shall be enclosed in a chamber isolated from the normal water passage.

Outlet pressure and flow shall be clearly marked on each regulator.

The pressure regulator shall carry a two-year manufacturer's warranty on materials, workmanship, and performance.

The pressure regulator shall be manufactured by Senninger Irrigation in Clermont, Florida. Senninger is a Hunter Industries Company.

* Please consult the factory for applications outside of recommended guidelines.

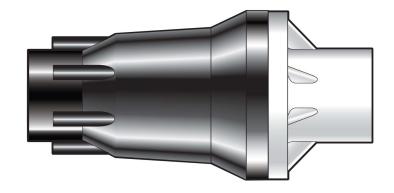
Physical

3/4" FNPT x 3/4" FNPT model (shown on right)

Overall Length 5.2 inches (13.1 cm) Overall Width 2.5 inches (6.4 cm)

1" FNPT x 1" FNPT model 1" FBSPT x 1" FBSPT model

Overall Length 5.8 inches (14.6 cm) Overall Width 2.5 inches (6.4 cm)





PMR-MF

PRESSURE-MASTER REGULATOR - MEDIUM FLOW

Model Numbers

Model #	Flow Range	Preset Operating Pressure	Maximum Inlet Pressure
PMR06MF3F3FV (3/4" F x 3/4" F NPT) or PMR06MF4F4FV (1" F x 1" F NPT) or PMR06MF4F3FV (1" F x 3/4" F NPT)	4 - 16 GPM (909 - 3634 L/hr)	6 PSI (0.41 bar)	80 psi (5.51 bar)
PMR10MF3F3FV (3/4" F x 3/4" F NPT) or PMR10MF4F4FV (1" F x 1" F NPT) or PMR10MF4F3FV (1" F x 3/4" F NPT)	4 - 16 GPM (909 - 3634 L/hr)	10 PSI (0.69 bar)	90 psi (6.20 bar)
PMR12MF3F3FV (3/4" F x 3/4" F NPT) or PMR12MF4F4FV (1" F x 1" F NPT) or PMR12MF4F3FV (1" F x 3/4" F NPT)	2 - 20 GPM (454 - 4542 L/hr)	12 PSI (0.83 bar)	90 psi (6.20 bar)
PMR15MF3F3FV (3/4" F x 3/4" F NPT) or PMR15MF4F4FV (1" F x 1" F NPT) or PMR15MF4F3FV (1" F x 3/4" F NPT)	2 - 20 GPM (454 - 4542 L/hr)	15 PSI (1.03 bar)	95 psi (6.55 bar)
PMR20MF3F3FV (3/4" F x 3/4" F NPT) or PMR20MF4F4FV (1" F x 1" F NPT) or PMR20MF4F3FV (1" F x 3/4" F NPT)	2 - 20 GPM (454 - 4542 L/hr)	20 PSI (1.38 bar)	100 psi (6.89 bar)
PMR25MF3F3FV (3/4" F x 3/4" F NPT) or PMR25MF4F4FV (1" F x 1" F NPT) or PMR25MF4F3FV (1" F x 3/4" F NPT)	2 - 20 GPM (454 - 4542 L/hr)	25 PSI (1.72 bar)	105 psi (7.24 bar)
PMR30MF3F3FV (3/4" F x 3/4" F NPT) or PMR30MF4F4FV (1" F x 1" F NPT) or PMR30MF4F3FV (1" F x 3/4" F NPT)	2 - 20 GPM (454 - 4542 L/hr)	30 PSI (2.07 bar)	110 psi (7.58 bar)
PMR35MF3F3FV (3/4" F x 3/4" F NPT) or PMR35MF4F4FV (1" F x 1" F NPT) or PMR35MF4F3FV (1" F x 3/4" F NPT)	2 - 20 GPM (454 - 4542 L/hr)	35 PSI (2.41 bar)	115 psi (7.93 bar)
PMR40MF3F3FV (3/4" F x 3/4" F NPT) or PMR40MF4F4FV (1" F x 1" F NPT) or PMR40MF4F3FV (1" F x 3/4" F NPT)	2 - 20 GPM (454 - 4542 L/hr)	40 PSI (2.76 bar)	120 psi (8.27 bar)
PMR50MF3F3FV (3/4" F x 3/4" F NPT) or PMR50MF4F4FV (1" F x 1" F NPT) or PMR50MF4F3FV (1" F x 3/4" F NPT)	2 - 20 GPM (454 - 4542 L/hr)	50 PSI (3.45 bar)	130 psi (8.96 bar)
PMR60MF3F3FV (3/4" F x 3/4" F NPT) or PMR60MF4F4FV (1" F x 1" F NPT) or PMR60MF4F3FV (1" F x 3/4" F NPT)	2 - 20 GPM (454 - 4542 L/hr)	60 PSI (4.14 bar)	140 psi (9.65 bar)



Arkal 1½" Super Filter

Catalog No. 1152 0___

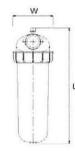
Features

- A "T" shaped filter with two 1½" male threads.
- A "T" volume filter for in-line installation on 1½" pipelines.
- The filter prevents clogging due to its enlarged filtering area that collects sediments and particles.
- Manufactured entirely from fiber reinforced plastic.
- A cylindrical column of grooved discs constitutes the filter element.
- · A sealing spring keeps the discs compressed.
- Screw-on filter cover.
- Filter discs are available in various filtration grades.

Technical Data

	1½" BSPT (male)	1½" NPT (male)
Inlet/outlet diameter	40 mm – nominal diameter	
	48.2 mm – pipe diameter (O. D.)	
Maximum pressure	10 atm	145 psi
Maximum flow rate	12 m³/h (2.22 l/sec)	52.8 gpm
General filtration area	500 cm ²	77.5 in ²
Filtration volume	600 cm ³	37 in ³
Filter length L	350 mm	13 25/32"
Filter width W	130 mm	5 3/32"
Distance between end connections A	200 mm	7 7/8"
Weight	1.51 kg	3.32 lbs.
Maximum temperature	70° C	158° F
PH	5-11	5-11

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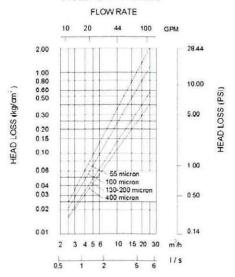
Filtration Grades

Blue	(400 micron / 40 mesh)		
Yellow	(200 micron / 80 mesh)		

Red (130 micron / 120 mesh) Black (100 micron / 140 mesh)

Green (55 micron)

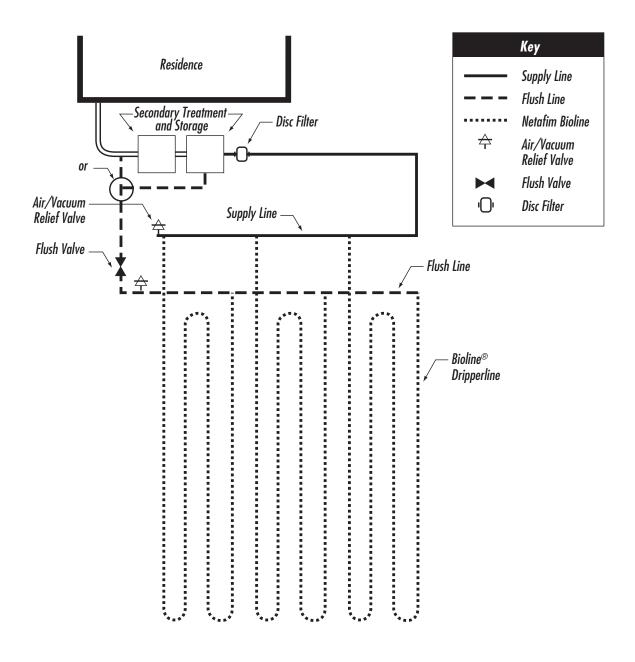
Head Loss Chart



SINGLE TRENCH LAYOUT

Rectangular field with supply and flush manifolds on the same side and in the same trench:

- Locate the supply and flush manifolds in the same trench
- Dripperlines are looped at the halfway point of their run and returned to flush manifold
- Bioline® laterals should never exceed recommended lengths





RE: 760 Lookout Dr. Canyon Lake Hills 1 Lot 263

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:

- Based on the provided soil evaluation the purposed imported 2 inches of soil would not meet the minimum requirement of 12 inches below the tubing.
- Provide the release of easement for the crossing of the sewer pipe with water tight joints and utility easements.
- 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 |

By Brandon Olvera at 4:04 pm, Apr 22, 2025

System Flushing and Maintenance: Regular flushing under full system pressure is vital for the proper operation and longevity of the system. Over time, biomat can accumulate in dripper lines and emitters, leading to clogs. Frequent flushing helps to dislodge the biomat and reduce debris buildup. Dripper lines and filters should be cleaned on a routine basis. If the lines become sluggish or filters frequently clog, it may be necessary to install a larger filter or an automatic backwashing system. It is important to monitor the pressure within the dripper lines and ensure the pressure regulator valve is properly adjusted. If a flow meter is installed, check the flow rates regularly. Any adjustments or maintenance should be performed in consultation with your maintenance provider. Routine inspections are required and will be conducted by your installer or maintenance provider for the first two years. After the two-year maintenance period, it will be the homeowner's responsibility to engage a maintenance provider for continued scheduled upkeep of the system.

Affidavit

Prior to issuance of a permit, a certified copy of an affidavit must be submitted to the County Clerk's office. The affidavit is a recorded file in reference to the real property deed on which the surface application is installed on the property. The permit issued to the previous owner of the property being transferred to the new owner in accordance with §285.20(5) of the TCEQ OSSF Rules. The permit will be issued in the name of the owner of the OSSF. Permits shall be transferred to the new owner automatically upon legal sale of the OSSF. The transfer of an OSSF permit under this section shall occur upon actual transfer of the property on which the OSSF is located unless the ownership of the OSSF has been severed from the property.

Proposed System

A 3- or 4-inch SCH-40 pipe discharges from the residence + Office into an Aquaklear AKA600CA aerobic treatment plant (600 gpd), which includes a 500-gallon pretreatment tank and an 800-gallon pump chamber. A threaded union will be installed in the pump tank on the supply manifold, and a pressure regulator will be set to maintain a pressure of 40psi. The pump chamber houses a 0.5 HP Franklin C1-Series-20XC1-05P4-2W115 submersible well pump (or equivalent). Distribution is facilitated through a self-flushing 100-micron Arkal Disk filter and then through a 1-inch SCH-40 manifold to a minimum of 1,384 square feet of drip tubing field. This field will use Netifim Bioline drip lines, spaced approximately two feet apart, with 0.61 gph emitters set every two feet, as per the attached schematic. A 1-inch SCH-40 return line is installed to periodically flush the system. Solids collected in the disk filter will be flushed back to the pretreatment tank during each cycle. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower areas of the field. The field area will be scarified and built up with 2 inches of imported Type II or Type III soil (not sand) and capped with 6 inches. The drip field

GARRETT R. WINTERS

5213

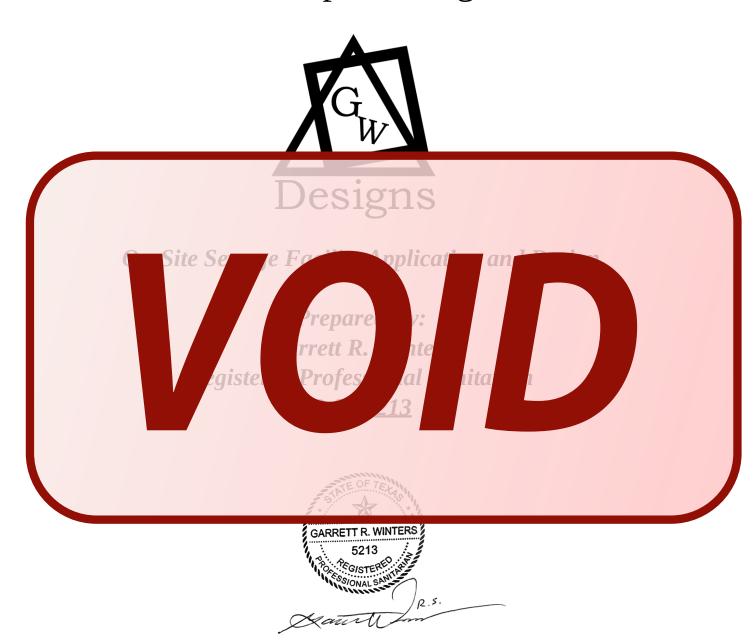
6370NAL SANTARIO

CONTROL

CONT

The following design is intended to follow and meet the TCEQ 30 TAC 285 OSSF Regulations. The performance of this system cannot be guaranteed even though all provisions of 30 TAC 285 have been met or exceeded.

GW Septic Designs



Contact Information

Phone: (210) 854-2673

Email: Gwintersseptics@gmail.com

Owner/Site Location

Owner/Builder:

Address: 760 Lookout Dr. Canyon Lake, TX 78133

Subdivision: CANYON LAKE HILLS 1

Lot: 263

LOT DESCRIPTION

The proposed method of wastewater treatment is aerobic treatment with Drip irrigation. The sizing of the OSSF was determined as specified in the Texas Commission on Environmental Quality (TCEQ) CHAPTER 285.33 (C)(2). Water saving devices are assumed for the septic system design. This site is not within the 100-Year flood plain (see site plan). Water to the property will be serviced by a public water supply. All parts of the system will maintain at least

This design was performed in conformance with Chapter 285 of the Texas Commission on Environmental Quality. I have performed a thorough site visit of the proposed lot as a Professional Registered Sanitarian and Site Evaluator in accordance with Chapter 285, Subchapter D, regarding Recharge Features, of the Texas Commission on Environmental Quality

System Sum

This design was remed in nanc anapter a exas Co sion o ronmen. ity

- 600gpc pic DR cmen
- Control g Tir
- 20gpm . ersil uent pi
- Aerator
- SCH40 P
- 1" purple 40 supply/reta
- NETAFIM 0-micron disk filts
- Pressure Gauge
- 40PSI pressure regulator Model PMR40MF
- Vacuum Breakers installed at the highest points of the drip field.
- Spin lock connections

Drip Tubing (Netafim Bioline)

Wastewater Design Flow

Structure: SINGLE FAMILY RESIDENCE <2500SF

of Bedrooms: 3

Wastewater Usage Rate: 240gpd

Application Rate: 0.2

Application Area Required: 1200SF Actual Application Area: 1384SF

System Components

Pretreatment Tank: 500gal Pump Tank: 800gal Aeration Tank: 600gpd

Pump: C1 20gpm submersible pump (Model no. 20C1-05P4-2W115 or equivalent)

Pump tank reserve minimum: 80gal

GARRETT R. WINTERS

5213

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62.55

62.55

Potable Water Lines

Potable water lines must be at a minimum distance of 10 feet from OSSF components. If a water line is within 10 feet, it must be sleeved with 2" SCH40 PVC Pipe in order to provide equivalent protection of a 10' separation in compliance with TAC chapter 290, Subchapter D, Rules for Public Drinking Water Systems.

Electrical Components

All electrical wiring shall conform to the requirements of the National Electric Code (1999) or under any other standards approved by the executive director. Additionally, all external wiring shall be installed in approved, rigid, non-metallic gray code electrical conduit. The conduit shall be buried according to the requirements in the National Electric Code and terminated at a main circuit breaker panel or sub-panel. Connections shall be in approved junction boxes. All electrical components shall have an electrical disconnect within direct vision from the place where

se) and have maintenance lockout provisions.

Installation

A 3" or 4" solid-wall SCH40 or SDR 26 PVC pipe with a minimum downward slope of 1/8 inch per foot will be installed between the tank and house. A 2-way cleanout must be included in the line between the house and tank. All piping from to-to-tank an co-drain edded with lib, II, in gless than 30% gravel. The mof the school of company and the school of compa

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 the final inspection. The native soil in the proposed drip field is to be scarified. The location of an individual sewas, occurs, without prior written approval. Stormwater runoff should not be allowed to flow over the drip field or tanks. Berms, swales and/or rain gutters should be installed by the owner/contractor to minimize erosion and field saturation. If the slope in the drain field area is greater than 30% or is complex, the area is unsuitable for the disposal method, suitable fill shall be brought into the field area to meet this requirement. The drip field shall then either be seeded and covered with Curlex or sodded.

As the septic designer for this project, responsibility is limited to the design and layout of the septic system based on the conditions at the time of design. There can be no liability for any drainage issues or system performance problems arising from construction activities or modifications made by contractors or other parties after the design has been finalized. It is essential for all parties to consult with qualified professionals before making changes that could impact on the system.



Maintenance Contract

For any OSSF with a pump, the installer shall provide the Designated Representative with proof of an executed two-year full-service maintenance contract as required by the TCEQ. The maintenance company will verify that the system is operating properly and that they will provide on-going maintenance of the installation. The initial contract will be for a minimum of 2 years. A maintenance contract will authorize the Maintenance Company to maintain and repair the system as needed. The owner must continuously maintain a signed written contract with a valid maintenance company and shall submit a copy of the contract to the permitting authority at least 30 days prior to the date service will cease.

Maintenance & Operations

Water Conservation: Proper water management is essential to prevent septic system failure. To promote water efficient and activities of the septic system failure. To promote water efficient and activities and activities and activities and activities and activities and activities are septimally, any leaking fixtures should be promptly repaired or replaced to ensure optimal system.

Garbage Disposal: The use of a garbage disposal is discouraged, as it increases the presence of fats, grease, and floating solids within the septic tank, which can clog the system's lines and disrupt normal operation.

Septic Tank Ma ance: Septive requires to function ctively that tanks be pumply ually by a grad pure rivice. The vent of the control of the system until the sping characters are required and a qualific system until the sping characters are required to function ctively that the control of the

Appropriate Way spot to esystem signed exclusion if the find distribution of the disposal of position of the disposal of position is the state of the disposal of production of the disposal of

functionality. Erosion control measures should be appried immediately to disturbed or imported soils upon system completion to minimize erosion. Ground cover must be maintained, as it supports plant transpiration and stabilizes the soil. If vegetation dies, it should be promptly replaced to maintain

system efficiency. Any settling of the soil that causes ponding or surface water channeling should be addressed by eplacing the material with quality sandy loam, which should be compacted and revegetated. Proper drainage and the senance of vegetation prevent the formation of furrows and ensure the long-term viability of the drain field

Berms, swales, and retaining walls originally designed for the system must be preserved. The final landscaping must not interfere with the protection of the disposal fields or septic tanks. It is important to note that clay-backed sod is not recommended for this type of drain field. Furthermore, no structures (such as sidewalks, patios, or decks) should be placed over the disposal fields, and no traffic should be allowed over any components of the septic system.

Surface Water Management: To prevent infiltration of surface water into the treatment tanks, proper drainage must be maintained. If tanks are located downhill, berms or tank lid risers should be used to direct surface water away. Standing water over the tanks should be avoided, as it can cause tanks to fill excessively, leading to potential flooding of the drain field and additional strain on the system's pump, which may accelerate system failure. Gutters may be required to divert water from the disposal area.

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GARRETT R. WINTERS

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Affidavit

affidavit is a recorded file in reference to the real property deed on which the surface application is installed on the property. The permit issued to the previous owner of the property being transferred to the new owner in accordance with §285.20(5) of the TCEQ OSSF Rules. The permit will be issued in the name of the owner of the OSSF. Permits shall be transferred to the new owner automatically upon legal sale of the OSSF. The transfer of an OSSF permit under this section shall occur upon actual transfer of the property on which the OSSF is located unless the ownership.

Proposed Sys



The following design is intended to follow and meet the TCEQ 30 TAC 285 OSSF Regulations. The performance of this system cannot be guaranteed even though all provisions of 30 TAC 285 have been met or exceeded.

FLOOD PLAIN: AFTER CAREFUL EXAMINATION AND STUDY OF AVAILABLE DATA (INCLUDING FEMA PANEL ZONE X (AREA OF MINIMAL FLOOD HAZARD) I HAVE DETERMINED, TO THE BEST OF MY ABILITY, THAT NEITHER THE HOUSE NOR THE SEPTIC IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN.

NOTE

EXISTING SEPTIC TANK TO BE PUMPED, CRUSHED AND BACKFILLED. EXISTING DRAINFIELD TO BE ABANDONED

OSSF INFORMATION

- STRUCTURE: SINGLE FAMILY RESIDENCE <2500SF
- BEDROOMS: 3
- DAILY WASTEFLOW: 240GPD
- TANK MANUFACTURER: AQUAKLEAR AKA600CA
- MINIMUM DRIP FIELD COVERAGE: 1200SF
- ACTUAL COVERAGE AREA: 1384SF

NOTES

- ALL POTABLE WATER LINES SHALL BE A MINIMUM OF 10 FEET FROM ANY PART OF THE OSSF
- TANK SEWER PIPE MUST HAVE AT MINIMUM .25" FALL PER 1'
 - USE 3" OR 4" SCH40 PIPE TO CONNECT STRUCTURE TO TANK
 - ACUUM BREAKERS ARE TO BE PLACED AT HIGHEST POINT ON THE SUPPLY AND N LINES
 - NO V. CLE TRAFFIC IS TO BE ON ANY PART OF THE DISPOSAL AREA
 - SYSTEM HALL INCLUDE AUDIO AND VISUAL AND AIR
 - ALL PIPE SHALL BE SCHEDULE 40 PVC OR APPROV EQUAL, UNLESS NOTED OTHERW E. ALL JOINTS SHALL BE
 - CLEANET VITH THE APPROPRIATE
 SOLVEN ND GLUED IN ACCORDANCE
 WITH THE JANUFACTURER'S
 - RECOMNIDATION
 - ONLY GOOD QUALITY SANDY LOAM SHALL OVER THE DISPOSAL FIELDS.
 - CLASS IN LAY IS UNACCEPTABLE AND WILL CALL SYSTEM FAILURE. SANDY
 - LOAM SHOULD BE DEFINED AS SHOWN IN TABLE VICENIA
 - CLASSIF TIONS) OF THE RULES AND REGULATIONS OF THE TCEQ. THE
 - INSTALLE IS RESPONSIBLE FOR VERIFYING THE QUALITY OF EACH LOAD OF
 - LOAM PL ED ON THE SYSTEM.
 - STORM V FER (RAINFALL RUNOFF)
 SHOULD T BE ALLOWED TO FLOW OVER
 - THE DISPOSAL FIELDS OR THE TANKS.

 DIVERSIGN BERMS, SWALES AND/OR RAIN
 - DIVERSION BERMS, SWALES AND/OR RAGUTTERS HOULD BE INSTALLED AS
 - NECESS / TO PREVENT SUCH RUNOFF.
 - THIS DIS SAL SYSTEM HAS BEEN DESIGNE TO OPERATE PROPERLY AT
 - SPECIFIC TIONS NOTED IN THESE PLANS.
 ALTERAT NS TO THE SYSTEM BY THE
 - OWNER, CLUDING BUT NOT LIMITED TO LANDSCA NG, DRAINAGE, BUILDING
 - AND/OR TER USAGE, MAY CAUSE
 PREMATE E FAILURE AND SHALL BE THE
 - SOLE PONSIBILITY OF THE OWNER
 THIS SOLE PLAN IS EXPRESSLY INTENDED
 - FOR SITE SEWAGE FACILITY (OSSF) USE ON SHOULD NOT BE UTILIZED OR STRUCTED FOR SURVEYING
 - ACCURATELY REPRESENT THE LAYOUT AND DESIGN OF THE SEWAGE SYSTEM WITHIN THE SPECIFIED PROPERTY
 - BOUNDARIES FOR REGULATORY AND OPERATIONAL COMPLIANCE.

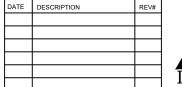
PREPARED BY: GARRETT R. WINTERS R.S #5213

OWNER:

ADDRESS: 760 Lookout Dr. Canyon Lake, TX 78133

SUBDIVISION: CANYON LAKE HILLS 1

LOT: 263

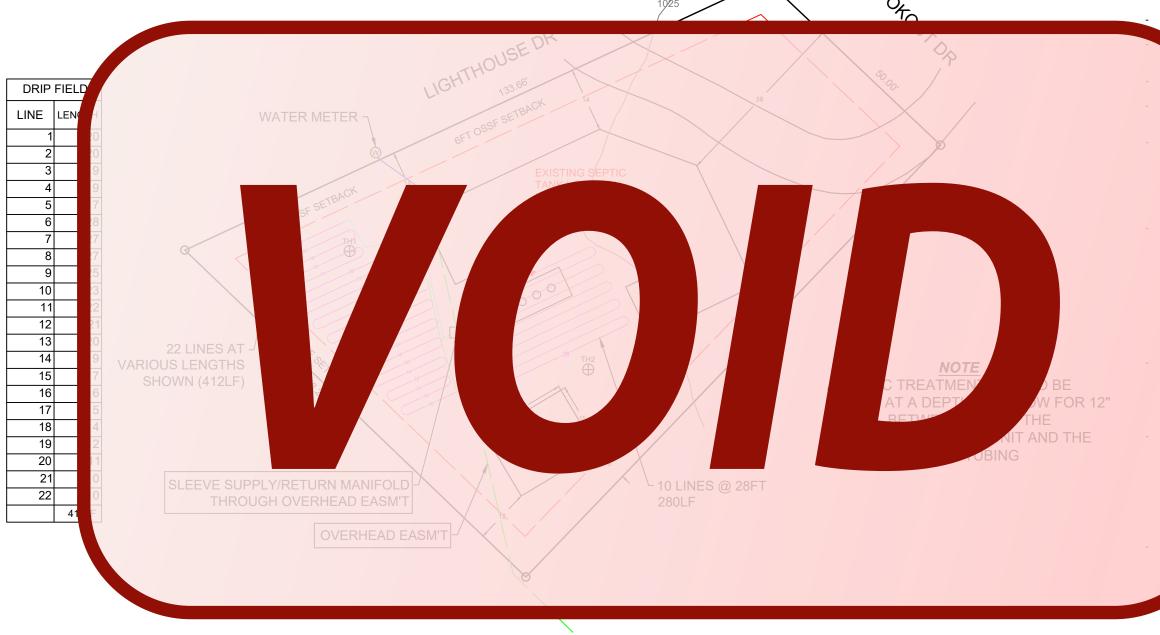




SCALE:1"- 20'

DATE: 3/20/2025









ON-SITE SEWAGE FACILITY APPLICATION

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

Date		Permit Number 118496
1. APPLICANT / AGENT INFORMATION		
Owner Name 730 Lookout Dr. LLC.	Agent Name	David Winters Septics LLC.
Mailing Address	Agent Address	***************************************
City, State, Zip		Spring Branch, TX 78070
Phone #	Phone #	830-935-2477
Email	Email	Wintersseptics@gvtc.com
2. LOCATION	_	
Subdivisi Name Canyon Lake Hills		Unit 1 Lot 263 Block
Surve Name / Abstract Number		Acreage
Add ess 760 Lookout Dr.		State TX Zip 78133
3. T PE OF DEVELOPMENT		
Single Family Residential		
Type of Construe (House, National RV.		
Number of Bedr		
Indicate Sq Ft of Are 00		
Non-Single Famil		
(Planning materials s lequate la a for doubling	ng Juire nee	ede eatment uni isposal area)
Type of Facility		
Offices, Factories, es, Schools, Pa	ate Numb	
Restaurants, Lounges, Theaters - Indicate Number of S	Seats	
Hotel, Motel, Hospital, Nursing Home - Indicate Number		
Travel Trailer/RV Parks - Indicate Number of Spaces		
Mis Venegus		
Estimated Cost of Construction: \$ 150,000.00	(Structure Only)	
Is any portion of the proposed OSSF located in the United	States Army Corps of	f Engineers (USACE) flowage easement?
Yes No (If yes, owner must provide approval from USAC	E for proposed OSSF imp	rovements within the USACE flowage easement)
Source of Water Public Private Well Rain	water	
4. SIGNATURE OF OWNER		
By signing this application, I certify that: - The completed application and all additional information submitted facts. I certify that I am the property owner or I possess the appro	l does not contain any fa priate land rights necess	alse information and does not conceal any material sary to make the permitted improvements on said
 Property. Authorization is hereby given to the permitting authority and designosite/soil evaluation and inspection of private sewage facilities. 		
 I understand that a permit of authorization to construct will not be by the Comal County Flood Damage Prevention Order. I affirmatively consent to the online posting/public release of my example. 		
Lester Collinsworth	03/21/2	
Signature of Owner	Date	Page 1 of 2 Revised January 2021



Signature of Designer

ON-SITE SEWAGE FACILITY APPLICATION

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

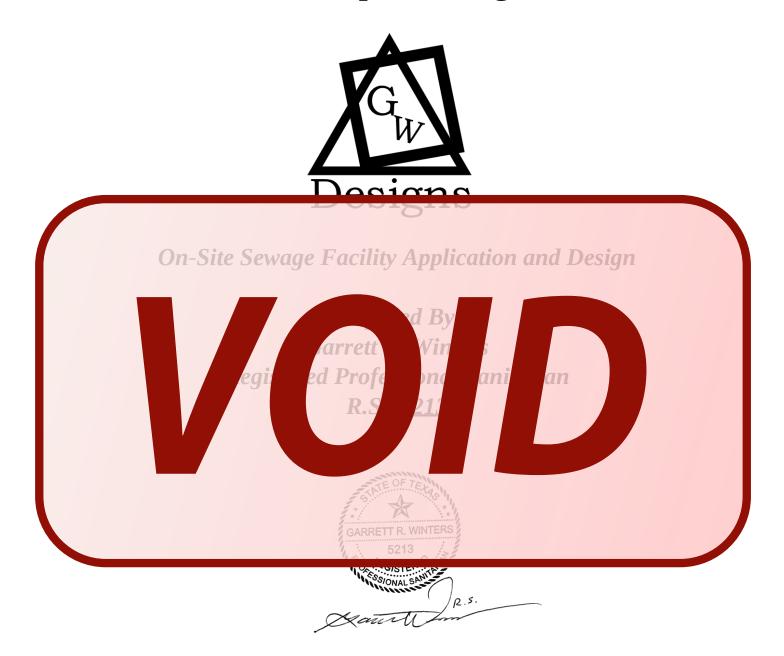
Planning Materials & Site	Evaluation as Required Cor	mpleted By		
System Description				
Size of Septic System Rec	quired Based on Planning M	aterials & Soil Evaluatio	n	
Tank Size(s) (Gallons)		Absorption/Ap	plication Area (Sq Ft)_	
Gallons Per Day (As Per	TCFO Table III)			
(Sites general ing more than	5000 gallons per day are requir	red to obtain a permit throu	gh TCEQ.)	
	gle y dwel s AF y proposed ce the OSSF desi		Professional Engineer (P.) e exist PAP.) CCEC oved WP of the approp	Yes No Permit to Construct will ot
Is there an exacting TCEO (If yes, the P.E. or R.S. shall If there is no existing CZP (If yes, the R.S. or P.E. shall	approval CZP for the proper certify that the OSSF design contributing that the OSSF design contributing that the OSSF design with the CZP has been appropriate the CZP has been approximated the CZP has	omplies with all provisions of the complex with all provisions of the comply with all provisions.	of the existing CZP.) TCEQ approved CZP? s of the proposed CZP. A	Yes No Permit to Construct will not be
Is this property within an in	ncorporated city?	□ No	GA ON	RRETT R. WINTERS 5213 CGISTER CONNAL SANTO
a v	above is true and correct to the		sociated with this permit a	pplication, as applicable.

Date

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By Brandon Olvera at 4:04 pm, Apr 22, 2025

GW Septic Designs



Contact Information

Phone: (210) 854-2673

Email: Gwintersseptics@gmail.com



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By Brandon Olvera at 4:04 pm, Apr 22, 2025

Owner/Site Location

Owner/Builder:

Address: 760 Lookout Dr. Canyon Lake, TX 78133

Subdivision: CANYON LAKE HILLS 1

Lot: 263

LOT DESCRIPTION

The proposed method of wastewater treatment is aerobic treatment with Drip irrigation. The sizing of the OSSF was determined as specified in the Texas Commission on Environmental Quality (TCEQ) CHAPTER 285.33 (C)(2). Water saving devices are assumed for the septic system design. This site is not within the 100-Year flood plain (see site plan). Water to the property will be serviced by a public water supply. All parts of the system will maintain at least a 10-foot setback from all water lines and 5-foot from property lines.

This design was performed in conformance with Chapter 285 of the Texas Commission on Environmental Quality.

I have performed a thorough site visit of the proposed lot as a Professional Registered Sanitarian and Site

valuator in accordance with Chapter 285, Subchapter D, regarding Recharge Features, of the Texas Commission Environmental Quality

System Summary

This design was performed in conformance with Chapter 285 of Texas Commission on Environmental Quality.

- 600 erobic DR/ tmen/
- Composing Tin
- 20gr omersil uent
- Aera
- SCH4 Sey le
- 1" pu V/ 40 supp irn manifold
- NETAI r 0-micron Iter
- Pressu
- 40PSI regulator Mo
- Vacuum Breakers installed at the highest points of the drip field
- Spin lock connections
- Drip Tubing (Netafim Bioline)
- Visual and audio alarms monitoring high water and aerator failure placed in a noticeable location.

Wastewater Design Flow

Structure: SINGLE FAMILY RESIDENCE (1430SF) + OFFICE W/ NO BR (270F) COMBINED SF: 1700SF

of Bedrooms: 3

Wastewater Usage Rate: 240gpd

Application Rate: 0.2

Application Area Required: 1200SF Actual Application Area: 1384SF

System Components

Pretreatment Tank: 500gal Pump Tank: 800gal Aeration Tank: 600gpd

Pump: C1 20gpm submersible pump (Model no. 20C1-05P4-2W115 or equivalent)

Pump tank reserve minimum: 80gal



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Potable Water Lines

Potable water lines must be at a minimum distance of 10 feet from OSSF components. If a water line is within 10 feet, it must be sleeved with 2" SCH40 PVC Pipe in order to provide equivalent protection of a 10' separation in compliance with TAC chapter 290, Subchapter D, Rules for Public Drinking Water Systems.

Electrical Components

All electrical wiring shall conform to the requirements of the National Electric Code (1999) or under any other standards approved by the executive director. Additionally, all external wiring shall be installed in approved, rigid, non-metallic gray code electrical conduit. The conduit shall be buried according to the requirements in the National Electric Code and terminated at a main circuit breaker panel or sub-panel. Connections shall be in approved junction boxes. All electrical components shall have an electrical disconnect within direct vision from the place where the electrical device is being serviced. Electrical disconnects must be weatherproof (approved for outdoor use and have maintenance lockout provisions.

nstallation

A 3" or 4" solid-wall SCH40 or SDR 26 PVC pipe with a minimum downward slope of 1/8 inch per foot will be installed between the tank and house. A 2-way cleanout must be included in the line between the house and tank. All piping from how to-tank and to-drain bedded was ssib, staining less than 30% gravel. The sense of the gradient of the gradient of large states shall then be bedded to 4"-6" if sany y loam, 3/ or per el. All longs in the sure to be sealed to prevent scape stew or all OSSF's ted confer shall have inche vegrade. A secondary plug, or suitable aint system stoppenings while end linimize two inche vegrade. A secondary plug, or suitable aint system stoppenings while end linimize two inches vegrade. A secondary plug, or suitable aint system stoppenings while end linimize two inches vegrade. A secondary plug, or suitable aint system stoppenings while end linimize two inches vegrade. A secondary plug, or suitable aint system stoppenings while end linimize two inches vegrade. A secondary plug, or suitable aint system stoppenings while end linimize two inches vegrade. A secondary plug, or suitable aint system stoppenings while end linimize two inches vegrade. A secondary plug, or suitable aint system stoppenings while end linimize two inches vegrade. A secondary plug, or suitable aint system stoppenings while end linimize two inches vegrade. A secondary plug, or suitable aint system stoppenings while end linimize two inches vegrade. A secondary plug, or suitable aint system stoppenings while end linimize two inches vegrade. A secondary plug, or suitable aint system stoppenings while end linimize two inches vegrade. A secondary plug, or suitable aint system stoppenings while end linimize two inches vegrade. A secondary plug the stoppenings while end linimize two inches vegrade. A secondary plug the suitable aint system stoppenings while end linimize two inches vegrade. A secondary plug the suitable aint system stoppenings while end linimize two inches the secondary plug the suitable aint system stoppenings

LANDSCAPING

Because. The entire area of the drip disposal must be covered with a ground cover such as grass seed or sod prior to the line inspection. The native some the proposed any nero is to be searned. The location of an including sewage system shall not be in a poorly drained or filled area, or in any area where seasonal flooding/seeping occurs, without prior written approval. Stormwater runoff should not be allowed to flow over the drip field or tanks. Berms, swales and/or rain gutters should be installed by the owner/contractor to minimize erosion and field saturation. If the slope in the drain field area is greater than 30% or is complex, the area is unsuitable for the disposal method, suitable fill shall be brought into the field area to meet this requirement. The drip field shall then either be seeded and covered with Curlex or sodded.

As the septic designer for this project, responsibility is limited to the design and layout of the septic system based on the conditions at the time of design. There can be no liability for any drainage issues or system performance problems arising from construction activities or modifications made by contractors or other parties after the design has been finalized. It is essential for all parties to consult with qualified professionals before making changes that could impact on the system.



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By Brandon Olvera at 4:04 pm, Apr 22, 2025

Maintenance Contract

For any OSSF with a pump, the installer shall provide the Designated Representative with proof of an executed two-year full-service maintenance contract as required by the TCEQ. The maintenance company will verify that the system is operating properly and that they will provide on-going maintenance of the installation. The initial contract will be for a minimum of 2 years. A maintenance contract will authorize the Maintenance Company to maintain and repair the system as needed. The owner must continuously maintain a signed written contract with a valid maintenance company and shall submit a copy of the contract to the permitting authority at least 30 days prior to the date service will cease.

Maintenance & Operations

Water Conservation: Proper water management is essential to prevent septic system failure. To promote water efficiency, the use of low-flow toilets (1.6 gallons per flush or less) and water-saving showerheads and faucets is mandatory. Additionally, any leaking fixtures should be promptly repaired or replaced to ensure optimal system performance.

Garbage Disposal: The use of a garbage disposal is discouraged, as it increases the presence of fats, grease, and floating solids within the septic tank, which can clog the system's lines and disrupt normal operation.

Septic Tank Maintenance: Septic tanks require regular pumping to function effectively. It is recommended that tanks be pumped annually by a licensed pumping service. In the event of an alarm condition, discontinue use of the system until the numping chamber is serviced, and a valified maintenance provider or licensed installer addresses the necessal license.

Appropriate P Dispos Syst Pesigned ext V for t g and ling of don Vastewater. The disposal ducts Scom Renzymes, year water ener t sh through stem is prohibited, as may re with reatment and sal places.

Vegetation and in Mainter The presence getat the decided is crucial stem functionality. It is completed to describe a completion to the crossion. Group the complete of the soil. If vegetaria, it is should be proceeding of the soil that causes ponding or surface water channeling should be addressed by replacing the material with quality sandy loam, which should be compacted and revegetated. Proper drainage and maintenance of vegetation prevent the formation of furrows and ensure the long-term viability of the drain field. Berms, swales, and retaining walls originally designed for the system must be preserved. The final landscaping must not interfere with the protection of the disposal fields or septic tanks. It is important to note that clay-backed sod is

should be placed over the disposal fields, and no traffic should be allowed over any components of the septic system.

Surface Water Management: To prevent infiltration of surface water into the treatment tanks, proper drainage must be maintained. If tanks are located downhill, berms or tank lid risers should be used to direct surface water away. Standing water over the tanks should be avoided, as it can cause tanks to fill excessively, leading to potential flooding of the drain field and additional strain on the system's pump, which may accelerate system failure. Gutters may be required to divert water from the disposal area.

Surface Water Management: To prevent infiltration of surface water into the treatment tanks, proper drainage must be maintained. If tanks are located downhill, berms or tank lid risers should be used to direct surface water away. Standing water over the tanks should be avoided, as it can cause tanks to fill excessively, leading to potential flooding of the drain field and additional strain on the system's pump, which may accelerate system failure. Gutters may be required to divert water from the disposal area.



System Flushing and Maintenance: Regular flushing under full system pressure is vital for the proper operation and longevity of the system. Over time, biomat can accumulate in dripper lines and emitters, leading to clogs. Frequent flushing helps to dislodge the biomat and reduce debris buildup. Dripper lines and filters should be cleaned on a routine basis. If the lines become sluggish or filters frequently clog, it may be necessary to install a larger filter or an automatic backwashing system. It is important to monitor the pressure within the dripper lines and ensure the pressure regulator valve is properly adjusted. If a flow meter is installed, check the flow rates regularly. Any adjustments or maintenance should be performed in consultation with your maintenance provider. Routine inspections are required and will be conducted by your installer or maintenance provider for the first two years. After the two-year maintenance period, it will be the homeowner's responsibility to engage a maintenance provider for continued scheduled upkeep of the system.

Affidavit

Affidavit is a recorded file in reference to the real property deed on which the surface application is installed on the property. The permit issued to the previous owner of the property being transferred to the new owner in accordance with §285.20(5) of the TCEQ OSSF Rules. The permit will be issued in the name of the owner of the OSSF. Permits shall be transferred to the new owner automatically upon legal sale of the OSSF. The transfer of an OSSF permit to the section of the owner of the ownership are of the ownership as every very.

Proposed Symm

A 3- or 4-inch S

) pip flarger the residence an A ear A CA aerobic ment plant (600 gpd), which udo 20-gallo treatment tall an allon chamber. A ded union will be installed in the many of the control of the control



The following design is intended to follow and meet the TCEQ 30 TAC 285 OSSF Regulations. The performance of this system cannot be guaranteed even though all provisions of 30 TAC 285 have been met or exceeded.

FLOOD PLAIN: AFTER CAREFUL EXAMINATION AND STUDY OF AVAILABLE DATA (INCLUDING FEMA PANEL ZONE X (AREA OF MINIMAL FLOOD HAZARD) I HAVE DETERMINED, TO THE BEST OF MY ABILITY, THAT NEITHER THE HOUSE NOR THE SEPTIC IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN.

NOTE

EXISTING SEPTIC TANK TO BE PUMPED, CRUSHED AND BACKFILLED. EXISTING DRAINFIELD TO BE ABANDONED

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By Brandon Olvera at 4:04 pm, Apr 22, 2025

OSSF INFORMATION

- STRUCTURE: HOME (1430SF) + OFFICE (270F)
- BEDROOMS: 3
- DAILY WASTEFLOW: 240GPD
- TANK MANUFACTURER: AQUAKLEAR AKA600CA
- MINIMUM DRIP FIELD COVERAGE: 1200SF
- ACTUAL COVERAGE AREA: 1384SF

NOTES

- ALL POTABLE WATER LINES SHALL BE A MINIMUM OF 10 FEET FROM ANY PART OF THE OSSF
- TANK SEWER PIPE MUST HAVE AT MINIMUM .25" FALL PER 1'
- USE 3" OR 4" SCH40 PIPE TO CONNECT STRUCTURE TO TANK
- VACUUM BREAKERS ARE TO BE PLACED AT THE HIGHEST POINT ON THE SUPPLY AND RETURN LINES
- NO VEHICLE TRAFFIC IS TO BE ON ANY PART OF THE DISPOSAL AREA
- SYSTEM SHALL INCLUDE AUDIO AND VISUAL ALARMS TO INDICATE HIGH WATER AND AIR
- ALL PIPES SHALL BE SCHEDULE 40 PVC OR
 APPROVED EQUAL, UNLESS NOTED
 OTHERWISE. ALL JOINTS SHALL BE
 CLEANED WITH THE APPROPRIATE
 SOLVENT AND GLUED IN ACCORDANCE
 WITH THE MANUFACTURER'S
 RECOMMENDATION
- ONLY GOOD QUALITY SANDY LOAM SHALL BE APPLIED OVER THE DISPOSAL FIELDS. CLASS IV CLAY IS UNACCEPTABLE AND WILL CAUSE SYSTEM FAILURE. SANDY LOAM SHALL BE DEFINED AS SHOWN IN TABLE VI (USDA SOIL TEXTURAL CLASSIFICATIONS) OF THE RULES AND REGULATIONS OF THE TCEQ. THE INSTALLER IS RESPONSIBLE FOR VERIFYING THE QUALITY OF EACH LOAD OF LOAM PLACED ON THE SYSTEM.
- STORM WATER (RAINFALL RUNOFF)
 SHOULD NOT BE ALLOWED TO FLOW OVER
 THE DISPOSAL FIELDS OR THE TANKS.
 DIVERSION BERMS, SWALES AND/OR RAIN
 GUTTERS SHOULD BE INSTALLED AS
 NECESSARY TO PREVENT SUCH RUNOFF.
- THIS DISPOSAL SYSTEM HAS BEEN DESIGNED TO OPERATE PROPERLY AT SPECIFICATIONS NOTED IN THESE PLANS. ALTERATIONS TO THE SYSTEM BY THE OWNER, INCLUDING BUT NOT LIMITED TO LANDSCAPING, DRAINAGE, BUILDING AND/OR WATER USAGE, MAY CAUSE PREMATURE FAILURE AND SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER THIS SITE PLAN IS EXPRESSLY INTENDED FOR ON-SITE SEWAGE FACILITY (OSSF) USE ONLY AND SHOULD NOT BE UTILIZED OR CONSTRUCTED FOR SURVEYING PURPOSES. ITS PURPOSE IS TO ACCURATELY REPRESENT THE LAYOUT AND DESIGN OF THE SEWAGE SYSTEM WITHIN THE SPECIFIED PROPERTY **BOUNDARIES FOR REGULATORY AND** OPERATIONAL COMPLIANCE.

DRIP FIELD	LIGHTHOUSE DR
LINE LENGTH 1 20 2 20 3 19 4 19 5 17 6 28 7 27 8 27 9 25 10 23 11 22 12 21 13 20 14 19 15 17 16 16	WATER METER OF 1055F SETBACK 1430SF 22 LINES AT VARIOUS LENGTHS SHOWN (412LF) AFROP ENT UNIT TO BE PTH TO ALLOW FOR 12"
17 15 18 14 19 12 20 11 21 10 22 10 412LF	SLEEVE SUPPLY/RETURN MANIFOLD THROUGH OVERHEAD EASM'T OVERHEAD EASM'T

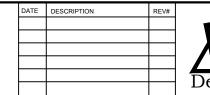
PREPARED BY: GARRETT R. WINTERS R.S #5213

OWNER:

ADDRESS: 760 Lookout Dr. Canyon Lake, TX 78133

SUBDIVISION: CANYON LAKE HILLS 1

LOT: 263



SCALE:1"- 20'

Revised
04/17/2025 4:18:32 PM

DATE: 4/17/2025



FLOOD PLAIM: AFTER CAREFUL EXAMINATION AND STUDY OF AVAILABLE DATA (INCLUDING FEMA PANEL ZONE X (AREA OF MINIMAL FLOOD HAZARD) I HAVE DETERMINED, TO THE BEST OF MY ABILITY, THAT NEITHER THE HOUSE NOR THE SEPTIC IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN.

NOTE

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NOTE

WATER LINE TO BE SLEEVED IN SCH40
PIPE WHERE IT IS WITHIN 10' OF THE
SEWER LINE, SLEEVING THE WATER LINE

OSSF INFORMATION

- STRUCTURE: HOME (1430SF) + OFFICE (270SF)
- BEDROOMS: 3
- DAILY WASTEFLOW: 240GPD
- TANK MANUFACTURER: AQUAKLEAR AKA600CA
- MINIMUM DRIP FIELD COVERAGE: 1200SF
- ACTUAL COVERAGE AREA: 1356SF

NOTES

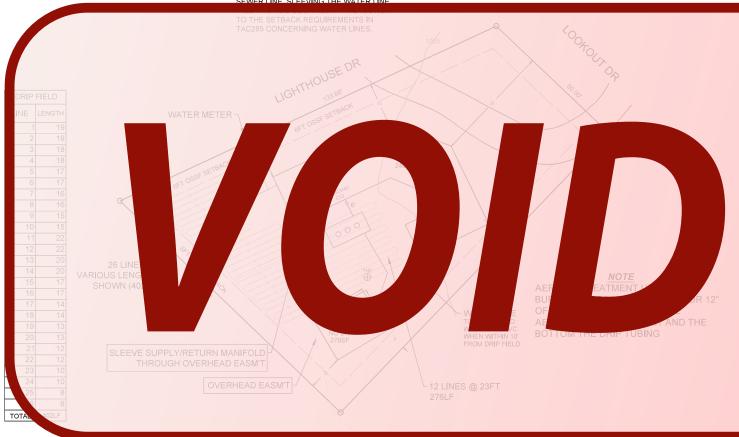
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- VACUUM BREAKERS ARE BE PLACED AT THE HIGHEST POINT ON T SUPPLY AND
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METHEL SEWAGE SYSTEM
WITHIN THE SPECIFIED PROPERTY
BOUNDARIES FOR REGULATORY AND
OPERATIONAL COMPLIANCE.





RECEIVED

By Brandon Olvera at 4:12 pm, May 20, 2025

Revised 05/19/2025 4:49:51 PM

PREPARED BY: GARRETT R. WINTERS ADDRESS: 760 Lookout Dr. R.S #5213 Canyon Lake, TX 78133

SUBDIVISION: CANYON LAKE HILLS 1

LOT: 263

	DESCRIPTION	REV#	. .
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SCALE:1"- 20'

DATE: 5/19/2025

OWNER:

Designs DA





OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

1.1.1.1111	DESAIL SERVICES		110490
	Date Received	Initials	Permit Number
Instructions: Place a check mark next to all items that apply. For	r items that do not apply, plac	ce "N/A". This	OSSE Development Application
Checklist <u>must</u> accompany the completed applicat	ion.	56 14/7¢ . 11113	Occi Development Application
OSSF Permit			
Completed Application for Permit for Authorization	ation to Construct an On-Site	Sewage Faci	lity and License to Operate
Site/Soil Evaluation Completed by a Certified	Site Evaluator or a Profession	nal Engineer	
Planning Materials of the OSSF as Required I of a scaled design and all system specification	by the TCEQ Rules for OSSF ns.	Chapter 285	Planning Materials shall consis
Required Permit Fee - See Attached Fee Sch	edule		
Copy of Recorded Deed			
Surface Application/Aerobic Treatment System	m		
Recorded Certification of OSSF Requir	ing Maintenance/Affidavit to	the Public	
Signed Maintenance Contract with Effe	ctive Date as Issuance of Lic	ense to Opera	ate
I affirm that I have provided all information requestitutes a completed OSSF Development Ap		oment Applica	ntion and that this application
Lester Collinsworth		03	/21/2025
Signature of Applicant			Date
COMPLETE APPLICATION Check No Receipt No	(M		ETE APPLICATION rcled, Application Refeused)
			Revised: September 2019

Comal County Web Map



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

THE STATE OF TEXAS

§

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF COMAL

8

THAT KATHERINE DENISE KELLY, Independent Executor of Estate of RICHARD SPENCER, JR., Deceased, hereinafter called Grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS (\$10.00) cash and other good and valuable consideration in hand paid by 760 LOOKOUT DRIVE, LLC, a Texas Limited Liability Company, whose address is 156 Canyon Bend, Canyon Lake, Texas 78133, hereinafter called Grantee, the receipt and sufficiency of which is hereby acknowledged;

HAS GRANTED, SOLD and CONVEYED, and by these presents does GRANT, SELL and CONVEY unto the said Grantee the following described property situated in Comal County, Texas, to-wit:

Lot 263, CANYON LAKE HILLS, UNIT NO. 1, situated in Comal County, Texas, according to map or plat recorded in Volume 2, Page 17, Map and Plat Records of Comal County, Texas.

This conveyance is made subject to, all and singular, the restrictions, conditions, easements, and covenants, if any, applicable to and enforceable against the above described property as reflected by the records of the County Clerk of Comal County, Texas.

Taxes for the current year have been prorated and are thereafter assumed by Grantee.

TO HAVE AND TO HOLD the above described premises, together with, all and singular, the rights and appurtenances thereto in anywise belonging unto the said Grantee, Grantee's heirs, executors, administrators, successors, or assigns forever.

Grantor does hereby bind Grantor, Grantor's heirs, executors, administrators, and successors to warrant and forever defend, all and singular, the said premises unto the said Grantee, Grantee's heirs, executors, administrators, successors, and assigns against any person whomsoever claiming or to claim the same or any part thereof.

DATED this the $\frac{3}{100}$ day of **December**, 2024, $\frac{3}{100}$ and $\frac{3}{100}$

KATHERINE DENISE KELLY, Independent Executor of Estate of RICHARD SPENCER,

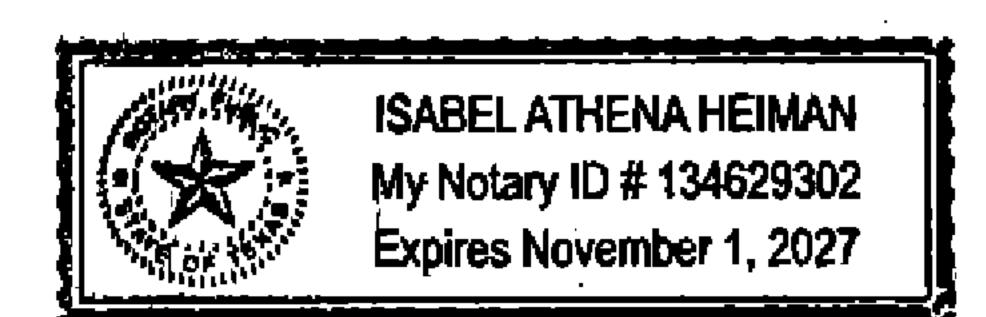
JR., Deceased

STATE OF TEXAS COUNTY OF Brazoria

This instrument was acknowledged before me on this the $\frac{-5}{2}$ day of December, 2024, by KATHERINE DENISE KELLY, Independent Executor of Estate of RICHARD SPENCER, JR., Deceased.

Notary Public, State of Texas

1742.deeds New Braunfels Title Co (LB) GF #NB-4401-24



Filed and Recorded Official Public Records Bobbie Koepp, County Clerk Comal County, Texas 12/04/2024 11:57:47 AM LAURA 2 Pages(s)

202406036876

