

Comal County Environmental Health

OSSF Inspection Sheet

Installer Name: _____

OSSF Installer #: _____

1st Inspection Date: _____

2nd Inspection Date: _____

3rd Inspection Date: _____

Inspector Name: _____

Inspector Name: _____

Inspector Name: _____

Permit#:

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)(i) 285.32(b)(1)(C)(ii) 285.32(b)(1)(D) 285.32(b)(1)(E) 285.32(b)(1)(A) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(i) 285.32(b)(1)(E)(ii)(I)				
7	PRETREATMENT Grease Interceptors if required for commercial		285.34(d)				

Inspector Notes:

**Comal County Environmental Health
OSSF Inspection Sheet**

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
8	SEPTIC TANK Tank(s) Clearly Marked SEPTIC TANK If Single Tank, 2 Compartments Provided with Baffle SEPTIC TANK Inlet Flowline Greater than 3" and " T " Provided on Inlet and Outlet SEPTIC TANK Septic Tank(s) Meet Minimum Requirements		285.32(b)(1) (E) 285.91(2) 285.32(b)(1) (F) 285.32(b)(1)(E) (iii) 285.32(b)(1)(E)(ii) (II) 285.32(b)(1)(E)(ii) (I) 285.32(b)(1)(E) (i) 285.32(b)(1) (D) 285.32(b)(1)(C) (ii) 285.32(b)(1)(C) (i) 285.32(b)(1) (B) 285.32(b)(1) (A) 285.32(b)(1)(E)(iv)				
9	ALL TANKS Installed on 4" Sand Cushion/ Proper Backfill Used		285.32(b)(1)(F) 285.32(b)(1)(G) 285.34(b)				
10	SEPTIC TANK Inspection / Clean Out Port & Risers Provided on Tanks Buried Greater than 12" Sealed and Capped		285.38(d)				
11	SEPTIC TANK Secondary restraint system provided SEPTIC TANK Riser permanently fastened to lid or cast into tank SEPTIC TANK Riser cap protected against unauthorized intrusions		285.38(d) 285.38(e)				
12	SEPTIC TANK Tank Volume Installed						
13	PUMP TANK Volume Installed						
14	AEROBIC TREATMENT UNIT Size Installed						
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 Drip Irrigation		285.33(c)(3)(A)-(F)				

**Comal County Environmental Health
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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)				
33	AEROBIC TREATMENT UNIT Is Aerobic Unit Installed According to Approved Guidelines.		285.32(c)(1)				
34	AEROBIC TREATMENT UNIT Inspection/Clean Out Port & Risers Provided AEROBIC TREATMENT UNIT Secondary restraint system provided AEROBIC TREATMENT UNIT Riser permanently fastened to lid or cast into tank AEROBIC TREATMENT UNIT Riser cap protected against unauthorized intrusions						
35	AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place.						
36	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						
37	PUMP TANK Inspection/Clean Out Port & Risers Provided PUMP TANK Secondary restraint system provided PUMP TANK Riser permanently fastened to lid or cast into tank PUMP TANK Riser cap protected against unauthorized intrusions						
38	PUMP TANK Secondary restraint system provided						
39	PUMP TANK Electrical Connections in Approved Junction Boxes / Wiring Buried						

**Comal County Environmental Health
OSSF Inspection Sheet**

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



COMAL COUNTY

ENGINEER'S OFFICE

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

Permit Number: 114068
Issued This Date: 02/25/2022
This permit is hereby given to: James Thornton/Donna Warren

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

480 VILLAGE TOP
CANYON LAKE, TX 78133

Subdivision: Canyon Dam Hillside
Unit: 0
Lot: 4
Block: 1
Acreage: 0.5500

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.

RECEIVED

By KG at 2:43 pm, Feb 16, 2022



COMAL COUNTY
ENGINEER'S OFFICE

ON-SITE SEWAGE FACILITY APPLICATION

195 DAVID JONAS DR
NEW BRAUNFELS, TX 78132
(830) 608-2080
WWW.CCEO.ORG

Date 1/10/2022

Permit Number 114068

1. APPLICANT / AGENT INFORMATION

Owner Name James Thornton/Donna Warren

Agent Name _____

Mailing Address P.O. Box 3101

Agent Address _____

City, State, Zip Canyon Lake, TX. 78133

Phone # (830) 499-5800

Phone # _____

Email jimmythornton1959@gmail.com

Email _____

2. LOCATION

Subdivision Name Canyon Dam Hill site

Unit _____

Lot 4

Block 1

Survey Name / Abstract Number _____

Acreage 0.549

Address 480 Village Top

City Canyon Lake

State TX

Zip 78133

3. TYPE OF DEVELOPMENT

☒ Single Family Residential

Type of Construction (House, Mobile, RV, Etc.) _____

Number of Bedrooms 2

Indicate Sq Ft of Living Area 1,000

☐ Non-Single Family Residential

(Planning materials must show adequate land area for doubling the required land needed for treatment units and disposal area)

Type of Facility _____

Offices, Factories, Churches, Schools, Parks, Etc. - Indicate Number Of Occupants _____

Restaurants, Lounges, Theaters - Indicate Number of Seats _____

Hotel, Motel, Hospital, Nursing Home - Indicate Number of Beds _____

Travel Trailer/RV Parks - Indicate Number of Spaces _____

Miscellaneous _____

Estimated Cost of Construction: \$ _____ (Structure Only)

Is any portion of the proposed OSSF located in the United States Army Corps of Engineers (USACE) flowage easement?

☐ Yes ☒ No (If yes, owner must provide approval from USACE for proposed OSSF improvements within the USACE flowage easement)

Source of Water ☒ Public ☐ Private Well

4. SIGNATURE OF OWNER

By signing this application, I certify that:

- The completed application and all additional information submitted does not contain any false information and does not conceal any material facts. I certify that I am the property owner or I possess the appropriate land rights necessary to make the permitted improvements on said property.
- Authorization is hereby given to the permitting authority and designated agents to enter upon the above described property for the purpose of site/soil evaluation and inspection of private sewage facilities..
- I understand that a permit of authorization to construct will not be issued until the Floodplain Administrator has performed the reviews required by the Comal County Flood Damage Prevention Order.
- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.

Donna J. Warren
Signature of Owner

1/10/2022
Date



ON-SITE SEWAGE FACILITY APPLICATION

Planning Materials & Site Evaluation as Required Completed By Schank / Flugel

System Description Proprietary Drift

Size of Septic System Required Based on Planning Materials & Soil Evaluation

Tank Size(s) (Gallons) ~~250~~ 500 GPD Absorption/Application Area (Sq Ft) 1200

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.)

If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP? ☐ Yes ☒ No

If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)

Is the property located over the Edwards Contributing Zone? ☒ Yes ☐ No

Is there an existing TCEQ approval CZP for the property? ☐ Yes ☒ No

If yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP.)

If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? ☐ Yes ☒ No

If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to Construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)

Is this property within an incorporated city? ☐ Yes ☒ No

If yes, indicate the city: _____

By signing this application, I certify that:

- The information provided above is true and correct to the best of my knowledge.

- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.

Klaus R. Schank
Signature of Designer

Date

AFFIDAVIT TO THE PUBLIC



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County of **Comal**, State of Texas

According to the Texas Commission on Environmental Quality Rules for On-Site Sewage Facilities, This Document is filed in the Deed of Records of **Comal** County, Texas.

The Texas Health and Safety Code, Chapter 366 Authorizes the Texas Commission on Environmental Quality (T.C.E.Q.) to regulate on-site sewage facilities (OSSF's). Additionally, the Texas Water Code (TWC), § 5.012, gives the TCEQ primary responsibility for implementing the laws of the State of Texas relating to water and adopting rules necessary to carry out its power and duties under the TWC. The TCEQ, under the authority of the TWC and the Texas Health and safety code, requires owner's to provide notice to the public that certain types of OSSF's are located on specific pieces of property. To achieve this notice, the TCEQ requires a deed recording. Additionally, the owner must provide proof of the recording to the OSSF permitting authority. This deed certification is not a representation of warranty by the TCEQ of the suitability of this OSSF, nor does it constitute any guaranty by the TCEQ that the appropriate OSSF was installed.

An OSSF requiring a Monitoring Contract, according to 30 Texas Administrative Code §285.91(12) will be installed on the property described as (legal description as shown on the recorded warranty deed.)

LOT 4, Block 1, Canyon Lake Hilltop Subdivision
The property is owned by (owner's name as shown recorded warranty deed: if more than one owner both names must be included) Donna J. Warren and James R. Thornton.

This OSSF must be covered by a continuous Monitoring Agreement. All Monitoring on this, OSSF must be performed by an approved Monitoring Company, and a signed monitoring Contract must be submitted to the County Engineers Office within 30 days after the property has been transferred.

The owner will upon sale or transfer of the above described property, request a transfer of the permit for the OSSF to the buyer or new owner. A copy of the planning materials for the OSSF can be obtained from the County Engineer's Office.

WITNESS BY HANDS(S) ON THE 10TH DAY OF January 2022
2021 103

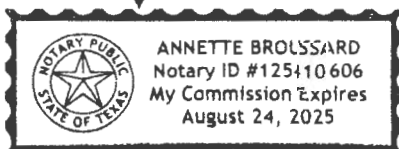
[Signature] Owner(s) [Signature: Donna J. Warren] Signature(s)

S
WORN TO AND SUBSCRIBED BEFORE ME ON THIS 10TH DAY OF January 2022
2021 103

[Signature: Annette Broussard]
Notary Public State of Texas

Notary's Printed name Annette Broussard

My Commission Expires 8/24/2025
Place Notary Seal Here



Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
02/11/2022 01:52:12 PM
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202206006852



Bobbie Koepp

TWO YEAR WASTEWATER TREATMENT FACILITY MONITORING AGREEMENT

1. General: This work for hire agreement (known as "Agreement") is entered into by and between *James R. Thornton, DONNA J. WARREN* (known as "Customer") and (David Flugrath). By this agreement, Flugrath Construction and its employees (known as "Contractor") agree to render services at the site address stated below, and customer agrees to fulfill his or her or their responsibilities, as best he or she or they can. The designed flow rate for this system is a maximum of 350 gallons per day.

2. Effective dates: This agreement commences _____ and ends on _____ for a total of (2) TWO years. The (T. C. E. Q.) Texas Commission on Environmental Quality requires that a contract be in effect at all times. This start date is this contract shall be the date of the License to Operate is issued.

3. Termination of agreement: This agreement may be terminated by both parties with thirty (30) days written notice. Either party may terminate, without fault or liability of the terminating party. If this agreement is terminated: wither party terminating this agreement for any reason, including non-renewal shall notify in writing the appropriate regulatory agency a minimum of thirty (30) days prior to the date of such termination.

4. Services: Contractor Will:

A. Inspect and perform upkeep on OSSF Facility as recommended by system manufacturer and State and local Regulatory Authority for a total of 3 visits per year.

B. Provide written records of each visit by means of tag attached to control panel.

C. Repair or replace any component of the OSSF found inoperable any time of the duration of the monitoring visits. If such services are not under warranty the customer holds full responsibility for the costs of said repairs and authorizes the contractor to make repairs and bill customer accordingly as to the State and Regulatory code.

D. Provide sample collection for testing of TSS and BOC on a yearly basis.

E. Forward copies of this agreement and all reports to the Regulatory Agency and Customer within 14 days.

F. Respond to Customer request for unscheduled request within 48 hours of the date of notification. Unless costs are covered under the warranty an unscheduled response will be billed to Customer.

5. Chlorinization is the sole responsibility of the customer.

6. Performance of Agreement: Performance by Contractor under this agreement is contingent on the following conditions:

A. Contractors receipt of original copy of monitoring agreement.

B. Contractors receipt of payment of Wastewater monitoring fee.

C. If the above conditions are not met, Contractor is not obligated to perform any portion of this agreement.

7. Customer responsibilities: The customer is responsible for each and all of the following:

A. Provide all necessary yard or lawn maintenance and removal of all obstacles, like dogs and other animals, needed to allow access and the proper function of the OSSG to allow Contractor safe and easy access to the OSSF including gate codes and combinations to locks.

B. Protect OSSF equipment form physical damage including by and not limited to the damage caused by ants and insects.

C. Maintain and abide by the conditions and limitations of the license to operate for and OSSF from the state and local regulatory agency and manufacturers recommendations.

D. It is the customers responsibility to notify the contractor of any or all alarms or problems immediately.

E. Allow for samples of OSSF be obtained by contractor of evaluating the OSSF's performance.

F. Prevent backwash or flushing of water treatment or conditioning equipment from enter OSSF.

G. Prevent hydraulically overloading OSSF by introducing more than 300 gallons a day into the system.

Drain lines may discharge into the surface application pump tank if approved by system designer.

H. Schedule for pumping and cleaning of all tanks when recommended by contractor is at customers expense.

I. Maintain site drainage to prevent adverse effects on the OSSF.

J. Pay promptly and fully, all contractors fees, bills or invoices as described herein.

8. Access by Contractor: Contractor is granted easement to the OSSF for purpose of servicing described: Contractor may enter property during normal business hours without prior notice to customer to service or repair of OSSF. Contractor is not responsible for the uneven settling of the soil.

9. Limited Liability: Contractor shall not be held liable for any incidental, consequential or special damages or for economic loss due to expense or loss of profits or income or loss of use to customer, whether in contract tort or any other theory. In no event shall contractor be held liable in an amount exceeding the total fee for services amount paid by customer under this agreement.

10. Fee for Services: The fee for the basic services described in this agreement is \$350.00 per year unless this is an initial monitoring agreement of a new installation. This fee does not include any equipment materials, or labor cost for non-warranty or unscheduled repairs. This fee doesn't include the cost of pumping the system upon contractor's advice to do so.

11. Payment: Fees for services of a 1-year contract are as follows:

A. \$350.00 per 1 years in full amount due on signing the monitoring agreement.

B. 2 payments, \$175.00

C. Payments for invoices are due upon receipt and any checks returned will be charged \$35.00 fee.

12. Application or transfer of payment: The fees paid for this agreement may be transferred to the subsequent property owner(s). The customer will advise the subsequent owner(s) of the requirement that they sign a replacement agreement authorizing contractor to perform services, and accepting customer responsibilities. This replacement agreement must be signed and received in the contractor's office within ten (10) days of date of transfer of property. Contract will continue from existing date of startup or license to operate is null and void and ends in one year of that date.

13. Entire agreement: This agreement contains the entire agreement of the parties, and no other promises or conditions in any other agreement, oral or written.

DAVID FLUGRATH/ FLUGTRATH CONSTRUCTION, TEXAS INSTALLER II AND SITE EVALUATOR
LICENSE # OS1648 & OS9620. ADDRESS 1235 LONE OAK RD., NEW BRAUNFELS, TX 78132 CERTIFIED
SERVIC PROVIDER FOR ARIES, SOLAR,HOOT, PRO FLO, AQUA SAFE, AQUA AIRE, NORWECO,
CAJUN AIRE. MEMBER: TEXAS ON SITE WASTEWATER ASSOCIATION AND NATIONAL ON SITE
WASTEWATER RECYCLING ASSOCIATION.

CUSTOMER NAME: JAMES R. Thornton DONNA J. WARREN
SITE ADDRESS: CITY: 480 Village Top, Canyon Lake
STATE & ZIP: Texas 78133
PERMIT #:

REGULATORY AUTHORITY/ COUNTY: COMAL

ATU BRAND: MODEL: SERIAL #:

Acceptance of this agreement: The above prices, specification, and conditions are satisfactory and are hereby accepted. You are authorized to perform the services as specified. Payment will be made as outlined above. It is understood and agreed that this work is not provided for in any other agreement and no contractual rights arise until this agreement is accepted in writing. NOTE: (All persons indicated on the warranty deed must be included on all forms and must sign.)

DAVID FLUGRATH: _____

CUSTOMER SIGNATURE _____

CUSTOMER SIGNATURE _____

OSSF SOIL EVALUATION FORM

Owners Name T. J. O'Brien
 Physical Address: David Flugrath
 Name of Site Evaluator _____
 Date Performed: _____ Proposed Excavation Depth _____

Requirements:

At least two soil excavations must be performed on the site, at opposite ends of the proposed disposal area. Locations of soil evaluation must be shown on the application site drawing or designer's site drawing.
 For subsurface disposal, soil evaluations must be performed to a depth of at least two feet below the proposed excavation depth. For surface disposal, the surface horizon must be evaluated.
 Please describe each soil horizon and identify any restrictive features in the space provided below. Draw lines at the appropriate depths.

SOIL BORING NUMBER _____						
Depth (Feet)	Texture Class	Soil Texture	Structure (For Class III-blocky, platy or massive)	Drainage (Mottles/Water Table)	Restrictive Horizon	Observations
0 1 2 3 4 5	III	Silt/Clay Loam	Blocky	No Redox	24"	No Grass

SOIL BORING NUMBER _____						
Depth (Feet)	Texture Class	Soil Texture	Structure (For Class III-blocky, platy or massive)	Drainage (Mottles/Water Table)	Restrictive Horizon	Observations
0 1 2 3 4 5		SAND				

FEATURES OF SITE AREA

Presence of 100 year flood zone YES ☐ NO ☒
 Presence of adjacent ponds, streams, water impoundments YES ☐ NO ☒
 Existing or proposed water well in nearby area YES ☒ NO ☐
 Organized sewage available to lot or tract YES ☐ NO ☒
 Recharge features within 150 feet YES ☐ NO ☒

I certify that the above statements are true and are based on my own field observations.

#9620

Signature of Site Evaluator _____

Date _____

SEPTIC DESIGN
FOR

OWNER/LOCATION: Donna J. Warren and James R. Thornton

SITE ADDRESS: Lot 4, Block 1, Canyon Lake Hilltop Subdivision,

COUNTY: Comal

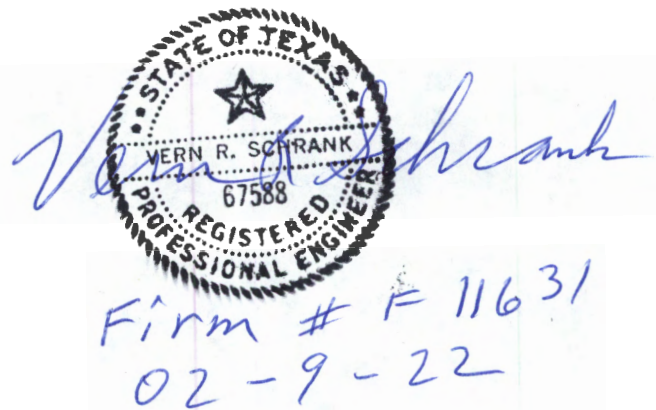
WASTEWATER DESIGN FLOW: This design is for a single family residence, 2 Bdrm less than 1,500 sq ft. each utilizing water saving devices. The projected wastewater flow will be 240 GPD.

SITE EVALUATION: The owner requested Aerobic Treatment with drip irrigation. A soil evaluation was conducted. The area of drip irrigation has a slope of less than 15%. The native vegetation consists of various grasses. There are no recharge features located within 150' of the proposed system and there are no water runs in the treatment area. There is adequate space for alternative drip area. The site is located not in the Edwards recharge Zone. The system is not in the 100 year flood plane.

TREATMENT DESCRIPTION: The homes will use a 500 GPD Aerobic Treatment System off the TCEQ list. The homes shall be connected to a 500 gpd aerobic system 3" or 4" sch 40 PVC. The effluent will then pass into a 760 gallon pump tank. The system is required to be on a timer. It is then pumped to 600 linear feet of drip tubing. The system is to be installed to manufacture's instructions.

SPECIFICATIONS:

Gallons per day- 240
Soil Class III
Soil loading rate- (FPD/sq. ft.) .02
Minutes per dose- 8
Sq Ft. of application area -1200
Linear feet of tubing -600
Linear feet of tubing Zone- 600
of emitters - 300
of Zones -1
Emitters/zones -300
Drip Rate (GPD) - 0.61
Gallons per min./zone - 3.1
Minutes per day/zones -79
Doses per zone - 10
Total Doses /day - 10
Time between doses in hours - 2.0
Total Run time in minutes - 79
Maximum Connection to manifold - 8
Vacuum relief valves - 2
Supply line and manifold 1" sch. 40 PVC



Return line and manifold 1 " sch. 40 PVC

TANK VOLUME AND SETTINGS:

INSIDE DIMENTIONS: 4.187' av. Length x 14.5' width x 4.333' depth = 263cu. Ft.
(102cf x 7.48 gal/c.f.) = 760 gal/52 – 14.62 gallons per inch.

VOLUME: 760 gal.

PUMP OFF POSITION: 1.25 ft above tank floor (15")
1.25 x 23.54 s.f. = 29.43 c.f.
29.43 c.f. x 7.48 gal/c.f. = 220 gal.

PUMP ON POSITION: 3.29 feet (39.5") above floor
3.29' – 1.25' = 2.04'
2.04' x 23.54 sq ft = 48.02 cu ft
48.02 c.f. x 7.48 gal./cu. Ft. = 360

ALARM ON POSITION: If water is above the high water alarm the high water alarm the pump is activated and will pump for 15 minute intervals until it has pumped down below the pump off position at 15" above the bottom of the floor. If the water doesn't pump down the high water alarm will sound. (120 gal.)

RESERVE CAPACITY: 120 gal. reserve (more than 1/3 full day requirement above the alarm)

PUMP REQUIREMENTS: .5 h/p. submersible pump/ 20 gpm (normally included with the aerobic unit)

INSTALLATION OUTLINE: Dig tank hole, place 4" of sand, sand loam, or pea gravel, free of rock on floor of tank hole and level. Install tanks and back fill with same type material. Place audio and visual alarm in an easily seen area. Place compressor in an accessible area as close as possible to the tank. Install pump and hook to system with auto field flush (back to trash tank). Scarify existing Class III soil. Place 6" of class III soil on existing soil. Install drip lines as to plan. Then cover drip lines with 6" of class III soil. Connect from drip lines to 1" PVC supply lines and the other in the 1" PVC return manifold and connect to trash tank. Lines should be a minimum of 6" below the surface of the ground. Content of drop lines will be intermittently flushed back to pre treatment tank. All wires shall be run in PVC conduit and electrical wiring shall be connected in a weatherproof box. And must conform to local code. A separate 20 amp breaker is required for the system. All effluent lines should be kept 10 feet from all water lines.

INSPECTION SCHEDULE: Two inspections by permitting authority.


LANDSCAPING: The the drip field is to be sodded. Areas which are bare or disturbed will need to be seeded with a ryegrass, Bermuda, or mixture of these grasses. All surface rock in drip field shall be removed.



MAINTENANCE AGREEMENT: A maintenance agreement between the owner and a TCEQ approved maintenance company is required. The initial agreement is for a two year period and must be included in the price of the system. A copy of said agreement must be provided to the permitting authority prior to final permit approval. If a maintenance company discontinues business. The owner has (30) thirty days in which to procure a new agreement with a different company.

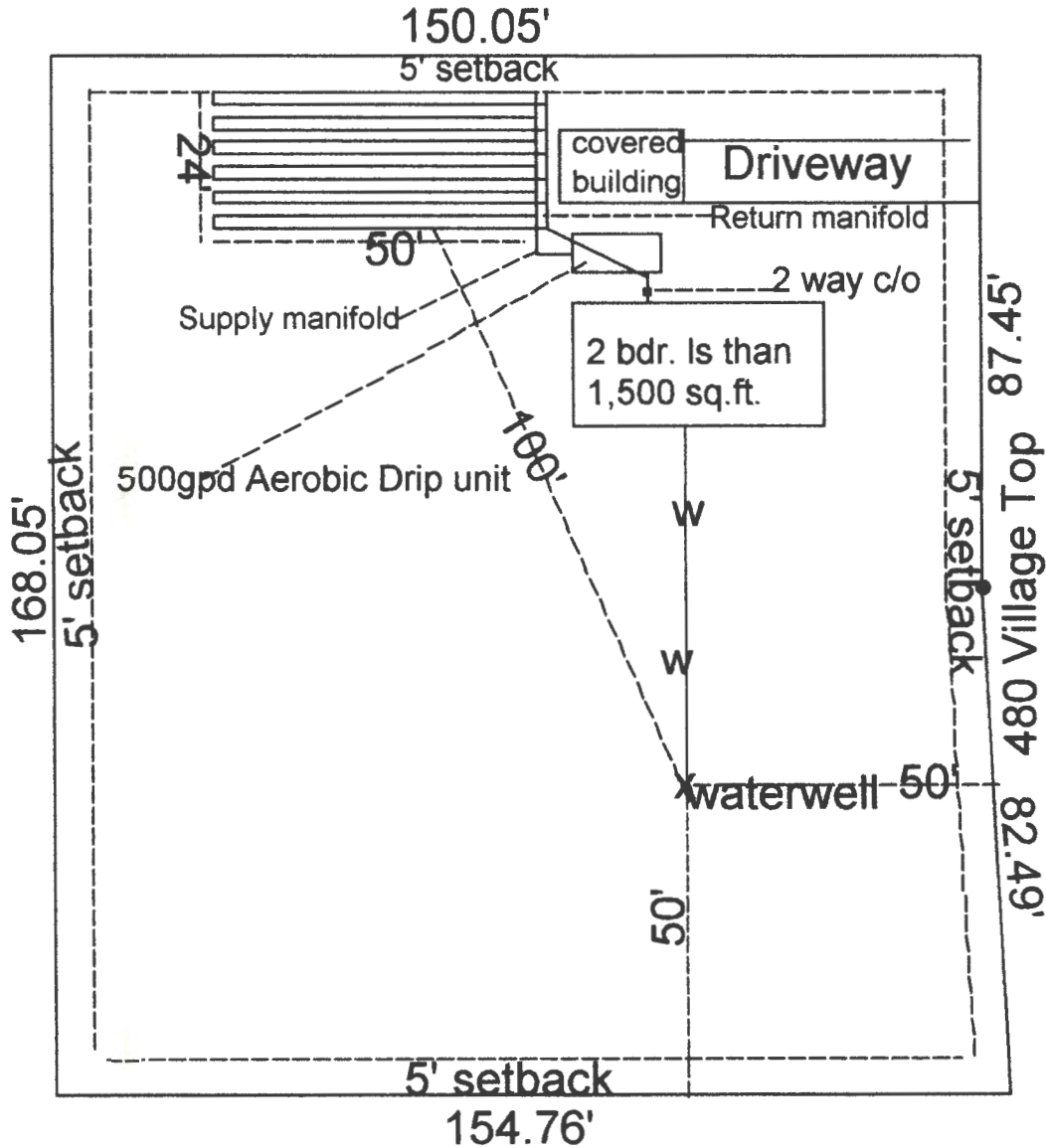
AFFIDAVIT: Prior to issuance of a permit, a certified copy, which has been duly recorded at the county clerks office and filed in reference to the real property deed on which the surface application system is to be installed, must be submitted. The owner and all new owners shall be advised that the property contains a drip irrigation system for waste water disposal. The transfer of an OSSF permit will accompany the transfer of waste water disposal. The transfer of an OSSF permit will accompany the transfer of the property on which an OSSF is located. All new owners are required to obtain a maintenance contract with a TCEQ approved maintenance company, and to submit it to the permitting authority.

TESTING AND REPORTING: The maintenance company shall inspect and report the results to the permitting authority. All tests must adhere to the testing procedure of the TCEQ as shown in 285.91(4) and as to the permitting authority's guidelines.


Firm # F-11631
02-09-22

septic design
for Donna J. Warren
& James R. Thornton
Lot 4, Block 1, Canyon
Lake Hillside Subdivision

Scale: 1" = 30'
pc:thornton



Vern R. Schrank
STATE OF TEXAS
VERN R. SCHRANK
67588
REGISTERED PROFESSIONAL ENGINEER
Firm - F-11631
02-09-22

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

GENERAL WARRANTY DEED

Date: November th 12 2021

Grantor: HARALD FLENTGE a/k/a HAROLD FLENTGE, a single person

Grantor's Mailing Address: 415 Village Top, Canyon Lake, TX 78133

Grantee: DONNA ^J K. WARREN, a single person and JAMES R. THORNTON, a single person

Grantee's Mailing Address, and after Recording, Return to: PO Box 3101, Canyon Lake, TX 78133

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

Property (including any improvements):

Lot Four (4) in Block One (1), of CANYON DAM HILLSITE SUBDIVISION, according to map or plat thereof, recorded in Volume 111, Page 262-265, Map Records of Comal County, Texas.

Reservations from Conveyance: None

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

Grantor, for the Consideration and subject to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty, grants, sells, and conveys to Grantee the Property, together with all and singular the rights and appurtenances thereto in any way belonging, to have and to hold it to Grantee and Grantee's heirs, successors, and assigns forever. Grantor binds Grantor and Grantor's heirs and successors to warrant and forever defend all and singular the Property to Grantee and Grantee's heirs, successors, and assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof, except as to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty.

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

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

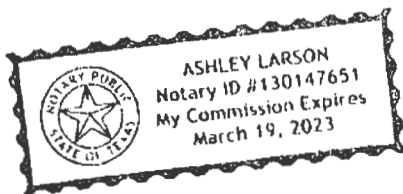
Harold Flentge

HARALD FLENTGE,
a/k/a HAROLD FLENTGE

STATE OF TEXAS)

COUNTY OF Comal)

This instrument was acknowledged before me on November 15th, 2021 by HARALD FLENTGE a/k/a HAROLD FLENTGE.



Ashley Larson

Notary Public, State of Texas

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
11/16/2021 11:16:19 AM
TERRI 2 Pages(s)
202106059289



Bobbie Koepp