

Comal County

OFFICE OF COMAL COUNTY ENGINEER

License to Operate On-Site Sewage Treatment and Disposal Facility

Issued This Date: 03/07/2019 Permit Number: 108122

Location Description: 2419 TRIPLE PEAK DR
CANYON LAKE, TX 78133
Subdivision: First Mountain
Unit: 1
Lot: 40
Block:
Acreage:

Type of System: Aerobic
Drip Irrigation

Issued to: Bryan T. & Terre K. Manning

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

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

Alterations to this permit including, but not limited to:

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

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

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

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

Licensing Authority
Comal County Environmental Health

Signature of Environmental Health Inspector

ENVIRONMENTAL HEALTH INSPECTOR

050034322

Signature of Environmental Health Coordinator

ENVIRONMENTAL HEALTH COORDINATOR

OS0007722

11:45 AM

# Comal County Environmental Health OSSF Inspection Sheet

Installer Name: Countryside Const OSSF Installer #: 050002929

1st Inspection Date: 2.25.19 2nd Inspection Date: \_\_\_\_\_ 3rd Inspection Date: \_\_\_\_\_

Inspector Name: S. Helmke Inspector Name: \_\_\_\_\_ Inspector Name: \_\_\_\_\_

Permit#: 108122 Address: 2419 Triple Peak - Just Mt

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)		2.25.19		
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)				

SA. 2.25.19  
tank set  
level  
operational

3. Ce. 19  
Covered  
per design  
question on berm : terracing. contacted  
Paul from countryside. He confirmed it was installed  
per the design.

**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)(I) 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	✓		600			
15	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number	✓		Clearstream			
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)				

**Comal County Environmental Health  
OSSF Inspection Sheet**

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
19	DISPOSAL SYSTEM Drip Irrigation		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
20	DISPOSAL SYSTEM Soil Substitution		285.33(d)(4)				
21	DISPOSAL SYSTEM Pumped Effluent		285.33(a)(4) 285.33(a)(3) 285.33(a)(1)				
22	DISPOSAL SYSTEM Gravelless Pipe		285.33(a)(3) 285.33(a)(2) 285.33(a)(4) 285.33(a)(1)				
23	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)				
25	DRAINFIELD Absorptive Drainline 3" PVC or 4" PVC	✓		<i>operational</i>	2.25.19		
26	DRAINFIELD Area Installed	✓		2500	2.25.19		
27	DRAINFIELD Level to within 1 inch per 25 feet and within 3 inches over entire excavation		285.33(b)(1)(A)(v)				
28	DRAINFIELD Excavation Width DRAINFIELD Excavation Depth DRAINFIELD Excavation Separation DRAINFIELD Depth of Porous Media DRAINFIELD Type of Porous Media						
29	DRAINFIELD Pipe and Gravel - Geotextile Fabric in Place		285.33(b)(1)(E)				
30	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)				

**Comal County Environmental Health  
OSSF 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)				
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.	✓			2-25-19		
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						

Comal County Environmental Health  
OSSF Inspection Sheet

39	PUMP TANK Electrical Connections in Approved Junction Boxes / Wiring Buried						
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**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)(I)285.33(d)(2)(G)(iii)(II)285.33(d)(2)(G)(v) 285.33(d)(2)(G)(iii) 285.33(d)(2)(G)(iv) 285.33(d)(2)(G)(i) 285.33(d)(2)(G)(ii) 285.33(d)(2)(G)(iii)(I)		2-25-19		
41	APPLICATION AREA Low Angle Nozzles Used / Pressure Is as required APPLICATION AREA Acceptable Area, nothing within 10 ft of sprinkler heads? APPLICATION AREA The Landscape Plan is as Designed		285.33(d)(2)(G)(I) 285.33(d)(2)(A) 285.33(d)(2)(F)				
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						

11:45 am

# Comal County Environmental Health OSSF Inspection Sheet

Installer Name: Countryside Const OSSF Installer #: 050002929

1st Inspection Date: 2.25.19 2nd Inspection Date: \_\_\_\_\_ 3rd Inspection Date: \_\_\_\_\_

Inspector Name: S. Helmske Inspector Name: \_\_\_\_\_ Inspector Name: \_\_\_\_\_

Permit#: 108122 Address: 2419 Triple Peak - First Mt

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
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5	SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends)	✓	285.32(a)(5)				
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SA. 2.25.19  
tank set  
level  
operational  
Ready for soil



**Comal County Environmental Health  
OSSF Inspection Sheet**

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**Comal County Environmental Health  
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35	<p>AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place.</p>	✓			2.25.19		
36	<p>PUMP TANK Is the Pump Tank an approved concrete tank or other acceptable materials &amp; construction</p> <p>PUMP TANK Sampling Port Provided in the Treated Effluent Line</p> <p>PUMP TANK Check Valve and/or Anti- Siphon Device Present When Required</p> <p>PUMP TANK Audible and Visual High Water Alarm Installed on Separate Circuit From Pump</p>						
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38	<p>PUMP TANK Secondary restraint system provided</p>						

**Comal County Environmental Health  
OSSF Inspection Sheet**

39	PUMP TANK Electrical Connections in Approved Junction Boxes / Wiring Buried						
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**Comal County Environmental Health  
OSSF Inspection Sheet**

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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

OFFICE OF COMAL COUNTY ENGINEER

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

Permit Number: 108122  
Issued This Date: 09/21/2018  
This permit is hereby given to: Bryan T. & Terre K. Manning

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

2419 TRIPLE PEAK DR  
CANYON LAKE, TX 78133

Subdivision: First Mountain  
Unit: 1  
Lot: 40  
Block:  
Acreage:

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.

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

Date September 17, 2018

Permit # 108122

Owner Name BRYAN T & TERRE K MANNING
Mailing Address c/o 23011 FM 306
City, State, Zip CANYON LAKE TEXAS 78133
Phone# 830-935-4936
Email ashley@paulswoyerseptics.com

Agent Name GREG W. JOHNSON, P.E.
Agent Address 170 HOLLOW OAK
City, State, Zip NEW BRAUNFELS, TX 78132
Phone # (830) 905-2778
Email gregjohnsonpe@yahoo.com

All correspondence should be sent to: [ ] Owner [X] Agent [ ] Both Method: [ ] Mail [X] Email

Subdivision Name FIRST MOUNTAIN Unit/Phase/Section 1 Lot 40 Block
Acreage/Legal
Street Name/Address 2419 TRIPLE PEAK DRIVE City CANYON LAKE Zip 78133

Type of Development:

[X] Single Family Residential

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

Number of Bedrooms 4

Indicate Sq Ft of Living Area 3472

RECEIVED

SEP 17 2018

COUNTY ENGINEER

[ ] Commercial or Institutional Facility

(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: \$ 450,000 (Structure Only)

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

[ ] Yes [X] No (if yes, owner must provide approval from USACE for proposed OSSF improvements within the USACE flowage easement)

Source of Water [X] Public [ ] Private Well

Are Water Saving Devices Being Utilized Within the Residence? [X] Yes [ ] No

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.
-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 also 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.

Signature of Owner

Date 8-30-18

#108122

**REVISED**

11:49 am, Feb 19, 2019

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

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

Planning Materials & Site Evaluation as Required Completed By GREG W. JOHNSON, P.E.

System Description PROPRIETARY; AEROBIC TREATMENT AND DRIP TUBING

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

Tank Size(s) (Gallons) CLEARWATER 600NC3T Absorption/Application Area (Sq Ft) 2500

Gallons Per Day (As Per TCEQ Table III) 300

(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 P.E. or R.S. 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: \_\_\_\_\_



**FIRM #2585**

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

[Signature]  
Signature of Designer

August 30, 2018  
Date



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

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

RECEIVED

SEP 17 2018

VOID

Planning Materials & Site Evaluation as Required Completed By GREG W. JOHNSON, P.E. COUNTY ENGINEER

System Description PROPRIETARY; AEROBIC TREATMENT AND DRIP TUBING

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

Tank Size(s) (Gallons) MAXX AIR M600 Absorption/Application Area (Sq Ft) 2500

Gallons Per Day (As Per TCEQ Table III) 300

(Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ)

Is the property located over the Edwards Recharge Zone? [ ] Yes [X] No

(If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.))

Is there an existing TCEQ approved WPAP for the property? [ ] Yes [X] No

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

VOID

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? [X] Yes [ ] No

Is there an existing TCEQ approval CZP for the property? [X] 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 P.E. or R.S. 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 [X] No

If yes, indicate the city: \_\_\_\_\_



FIRM #2585

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

VOID

Signature of Designer

August 30, 2018

Date

Greg W. Johnson, P.E.  
170 Hollow Oak  
New Braunfels, Texas 78132  
830/905-2778

August 30, 2018

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

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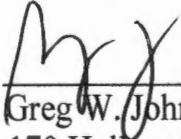
RE- SEPTIC DESIGN  
2419 TRIPLE PEAK DRIVE  
FIRST MOUNTAIN, UNIT 1, LOT 40  
CANYON LAKE, TX 78133  
MANNING RESIDENCE

Ms. Brenda Ritzen/Sandra Hernandez,

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

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

Designed in accordance with Chapter 285, Subchapter D, §285.40, 285.41, & 285.42, Texas Commission on Environmental Quality (Effective December 27, 2012).

 08/30/18  
\_\_\_\_\_  
Greg W. Johnson, P.E. No. 67587 / F#2585  
170 Hollow Oak  
New Braunfels, Texas 78132 - 830/905-2778



AFFIDAVIT



201806036614 09/17/2018 11:34:40 AM 1/1

THE COUNTY OF COMAL  
STATE OF TEXAS

CERTIFICATION OF OSSF REQUIRING MAINTENANCE

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

I

The Texas Health and Safety Code, Chapter 366 authorizes the Texas Commission on Environmental Quality (TCEQ) to regulate on-site sewage facilities (OSSFs). Additionally, the Texas Water Code (TWC), § 5.012 and § 5.013, gives the commission primary responsibility for implementing the laws of the State of Texas relating to water and adopting rules necessary to carry out its powers and duties under the TWC. The commission, under the authority of the TWC and the Texas Health and Safety code, requires owner's to provide notice to the public that certain types of OSSFs are located on specific pieces of property. To achieve this notice, the commission requires a recorded affidavit. Additionally, the owner must provide proof of the recording to the OSSF permitting authority. This recorded affidavit is not a representation or warranty by the commission of the suitability of this OSSF, nor does it constitute any guarantee by the commission that the appropriate OSSF was installed.

II

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

1 6 UNIT/PHASE/SECTION \_\_\_\_\_ BLOCK 40 LOT \_\_\_\_\_ FIRST MOUNTAIN \_\_\_\_\_ SUBDIVISION

IF NOT IN SUBDIVISION: \_\_\_\_\_ ACREAGE \_\_\_\_\_ SURVEY

The property is owned by (insert owner's full name): BRYAN T. MANNING & TERE K. MANNING

This OSSF must be covered by a continuous maintenance contract for the first two years. After the initial two-year service policy, the owner of an aerobic treatment system for a single family residence shall either obtain a maintenance contract within 30 days or maintain the system personally.

Upon sale or transfer of the above-described property, the permit for the OSSF shall be transferred to the buyer or new owner. A copy of the planning materials for the OSSF can be obtained from the Comal County Engineer's Office.

WITNESS BY HAND(S) ON THIS 14 DAY OF SEPTEMBER, 20 18

x [Signature]  
x [Signature]  
Owner(s) signature(s)

SEPTEMBER  
[Signature]  
Owner (s) Printed name (s)

BRYAN & TERE MANNING SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 14 DAY OF SEPTEMBER, 20 18

[Signature]  
Notary Public Signature



(Notary Seal Here)

THIS AREA FOR COMAL COUNTY CLERK RECORDING PURPOSES ONLY

Filed and Recorded  
Official Public Records  
Bobbie Koepf, County Clerk  
Comal County, Texas  
09/17/2018 11:34:40 AM  
TERRI 1 Page(s)  
201806036614



Bobbie Koepf

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Yes

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SEP 17 2018



PAUL SWOYER SEPTIC SUPPLY & SERVICE

23011 FM 306

CANYON LAKE, TX 78133

COUNTY ENGINEER

MP#0001708

CHRISTOPHER RYAN SEIDENSTICKER

Customer: BRYAN T. & TERRE K. MANNING

**PROPERTY LEGAL DESCRIPTION:**

FIRST MOUNTAIN, UNIT 1, LOT 40

Site Address: 2419 TRIPLE PEAK DRIVE

City/State: CANYON LAKE, TX

Zip: 78133

County: COMAL

Permit#: \_\_\_\_\_

Phone Number: 713-301-9144

E-mail: Manningproperties1@gmail.com

**I. General:** This On-Site Sewage Facility Service Agreement (hereinafter referred to as "Agreement") is entered into by and between BRYAN T. & TERRE K. MANNING (hereinafter referred to as "Client") and PS Supply & Service LLC (hereinafter referred to as "Contractor"). By this agreement, Contractor agrees to render services, as described herein (the "Services"), and the client agrees to fulfill his/her/their responsibilities under this agreement herein.

**II. Effective Dates:** This agreement commences on the date of License to Operate is issued for Three (3) years.

Date of License to Operate: LTO 3 yr Last Date of Service: \_\_\_\_\_

**III. Services by Contractor:** Contractor will provide the following Services:

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

**IV. Payment(s):** Client shall pay to Contractor included with install for the Services describe herein (the "Inspection and Routine Maintenance Fee"), excepting those described in Section III (4), or Section IX, herein. The Fee does not include equipment, parts or labor supplied for anything beyond routine inspection and routine maintenance. Payments for such additional services are due at the time services are provided or rendered. Payments not received within thirty (30) days from the due date will be subject the greater of a \$20.00 late penalty or 1.5% carrying charge on the original balance for each month or portion thereof a balance in past due. If for any reason such charges are found to be usurious by a court of competent jurisdiction, such charges shall be reduced to the maximum allowable by law. By signing this contract, Client authorizes Contractor to remove any parts installed, but not paid in full at the end of the thirty (30) days. Client agrees to pay for any labor cost associated with the installation and the reasonable cost of removal of said parts.

Client:

Contractor:

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COUNTY ENGINEER

**V. Client's Responsibilities:** Client is responsible for each and all of the following:

1. To maintain chlorinator and provide proper chlorine supply, if OSSF is so equipped.
2. To provide all necessary yard or lawn maintenance and removal of obstacles as needed to allow the OSSF to function properly, and to allow Contractor ready access to all parts of the OSSF.
3. To maintain a current license to operate, and abide by the conditions and limitations of that license and all requirements for on-site sewage facilities from the State and local regulatory agency.
4. To maintain the OSSF in accordance with manufacturer's recommendations.
5. To immediately notify Contractor and Agency of any and all problems with, the OSSF, including failure thereof.
6. Upon receipt of any written notification of required services from Contractor, to contact Contractor and authorize the required service. If Client elects a different contractor to perform the required service, Client is responsible for ensuring the substitute contractor holds the proper license (Installer II) and is certified by the manufacturer. Additionally, Client shall be responsible for ensuring proper notification is given to the appropriate regulatory authority, as required by the State and/or local regulatory authority rules.
7. To provide Contractor with water usage records, upon request, for evaluation by Contractor of the OSSF performance.
8. To pay required sampling charges for samples collected for testing (e.g. Biological Oxygen Demand/Total Suspended Solids ("BOD/TSS") that may be required on the OSSF.
9. To prevent backwash from water treatment or water conditioning equipment to enter the OSSF.
10. To provide, at Client's expense, for pumping of tanks as needed.
11. To maintain site drainage sufficient to prevent adverse effects on the OSSF.
12. To promptly and fully pay Contractor's bills, fees, or invoices as described herein.

**VI. Access by Contractor:** Client agrees to allow Contractor, or personnel authorized by the Contractor, to enter the property at reasonable times without prior notice for the purpose of performing the Services described herein. Such entry shall include access to the OSSF electrical and physical components, including tanks, by means of manways or risers for the purpose of evaluations required by the manufacturer, and/or regulatory authority rules. If such manways or risers are not in place, Client shall allow and be responsible for payment of required excavation, including labor and materials, necessary to allow access to the OSSF or any required components. Such excavation shall be billed at the rate of \$75.00 per hour for labor, plus materials billed at list price. Contractor shall make only those efforts reasonable under the circumstances to replace excavated soil.

**VII. Application or Transfer of Payment:** The fees paid for this agreement may transfer to any subsequent owner(s) of the property on which the OSSF is located. The subsequent owner(s) must sign a similar agreement authorizing Contractor to perform the above-described Services, and accepting Client's responsibilities. The replacement Agreement must be signed and received within 30 days of transfer of ownership. Contractor will apply all funds received from Client first to any past due obligations arising from this Agreement including late charges, return check charges, and charges for repairs or services not paid within 30 days of invoicing. The consumption of the payment in this manner may lead to termination of the agreement by Contractor

**VIII. Termination of Agreement:** This agreement may be terminated by either party with 30 days written notice. If this agreement is so terminated by Client, Contractor shall be paid at the rate of \$75.00 per hour for any worked performed or required, but not yet paid. If terminated by Contractor, all amounts outstanding shall be due within thirty days of termination. The party terminating will immediately notify the other party, the equipment manufacturer, and the regulatory agency of the termination.

**IX. Limitation of Liability:** In no event shall Contractor be liable for indirect, consequential, incidental or punitive damages, whether in contract, tort, or any other theory of liability. In no event shall the Contractor's liability for direct damages exceed payments by the Client under this Agreement.

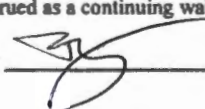
**X. Severability and Reformation:** If any provision in this Agreement shall be held to be invalid or unenforceable for any reason, it shall be reformed to the minimum extent necessary to effect the intent of the Parties. If any provision is such that it cannot reasonably be reformed, it shall be struck from this Agreement and the remaining provisions shall continue to be valid and enforceable.

**XI. Performance of Agreement:** Commencement of performance by Contractor under this agreement is contingent on the following conditions: (1) Contractor receiving a fully executed original copy of this agreement (2) Contractor receiving payment in full of the fee(s) described herein. If the above conditions are not met, then Contractor is from any obligation to perform any portion of this agreement.

**XII. Modification.** This Agreement may not be changed or modified except by an instrument in writing, signed by both Contractor and Client.

**XIII. Waiver.** Except as otherwise noted in this Agreement, the waiver by other party of a breach of any provision of this Agreement shall not operate or be construed as a continuing waiver or as a consent to or waiver of any subsequent breach hereof.

Client:



Contractor:



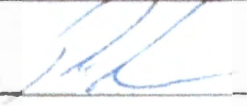
SEP 17 2018

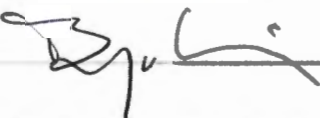
COUNTY ENGINEER

XIV. **Headings** The Article and Section headings in this Agreement are for the convenience of reference only and do not constitute a part of this Agreement and shall not be deemed to limit or affect any of the provisions hereof.

XV. **GOVERNING LAW AND CHOICE OF VENUE.** EACH OF THE PARTIES HERETO HEREBY CONSENTS TO THE EXCLUSIVE JURISDICTION OF THE COURTS OF THE STATE OF TEXAS, COUNTY OF COMAL, AND TO THE UNITED STATES DISTRICT COURT FOR THE WESTERN DISTRICT OF TEXAS – SAN ANTONIO DIVISION, AS WELL AS TO THE JURISDICTION OF ALL COURTS TO WHICH AN APPEAL MAY BE TAKEN FROM SUCH COURTS, FOR THE PURPOSE OF ANY SUIT, ACTION, OR OTHER PROCEEDING ARISING OUT OF, OR IN CONNECTION WITH, THIS AGREEMENT OR ANY OF THE TRANSACTIONS CONTEMPLATED HEREBY, INCLUDING, WITHOUT LIMITATION, ANY PROCEEDING RELATING TO ANCILLARY MEASURES IN AID OF ARBITRATION, PROVISIONAL REMEDIES AND INTERIM RELIEF, OR ANY PROCEEDING TO ENFORCE ANY ARBITRAL DECISION OR AWARD. EACH PARTY HERETO EXPRESSLY WAIVES ANY AND ALL RIGHTS TO BRING ANY SUIT, ACTION, OR OTHER PROCEEDING IN OR BEFORE ANY COURT OR TRIBUNAL OTHER THAN COURTS OF THE STATE OF TEXAS, COUNTY OF COMAL, AND COVENANTS THAT IT SHALL NOT SEEK IN ANY MANNER TO PROSECUTE OR DEFEND ANY DISPUTE OTHER THAN AS SET FORTH IN THIS ARTICLE XVI OR TO CHALLENGE OR SET ASIDE ANY DECISION, AWARD, OR JUDGMENT OBTAINED IN ACCORDANCE WITH THE PROVISIONS HEREOF. EACH OF THE PARTIES HERETO HEREBY EXPRESSLY WAIVES ANY AND ALL OBJECTIONS IT MAY HAVE TO VENUE, INCLUDING, WITHOUT LIMITATION, THE INCONVENIENCE OF SUCH FORUM, IN ANY OF SUCH COURTS.

XVI. **JURY TRIAL WAIVER.** THE PARTIES HEREBY UNCONDITIONALLY WAIVE THEIR RIGHT TO A JURY TRIAL OF ANY AND ALL CLAIMS OR CAUSES OF ACTION ARISING FROM OR RELATING TO THEIR RELATIONSHIP. THE PARTIES ACKNOWLEDGE THAT A RIGHT TO A JURY IS A CONSTITUTIONAL RIGHT. THAT THEY HAVE HAD AN OPPORTUNITY TO CONSULT WITH INDEPENDENT COUNSEL, AND THAT THIS JURY WAIVER HAS BEEN ENTERED INTO KNOWINGLY AND VOLUNTARILY BY ALL PARTIES TO THIS AGREEMENT. IN THE EVENT OF LITIGATION, THIS AGREEMENT MAY BE FILED AS A WRITTEN CONSENT TO A TRIAL BY THE COURT.

Approved by Contractor:  MP#0001708  
CHRISTOPHER RYAN SEIDENSTICKER

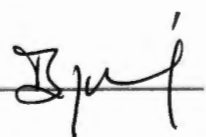
Approved by Client: 

XVII. **Reservation of Rights** Contractor reserves all rights not specifically granted herein.

XVIII. **Counterparts.** This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original but all of which together will constitute one and the same instrument.

XIX. **Counsel.** Contractor has previously recommended that Client engage counsel to assist him/her/it in reviewing this Agreement and all other matters relating to it. Contractor and Client shall each bear his/her/its own costs and expenses in connection with the negotiation and documentation of this Agreement.

XX. **Entire Agreement:** This agreement contains the entire agreement of the parties, and there are no promises or conditions in any other agreement, oral or written. The Parties expressly disclaim reliance on any prior statements, oral or written, by either party not expressly provided for herein.

Client: 

Contractor: 

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

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Date Soil Survey Performed: July 20, 2018

SEP 17 2018

Site Location: FIRST MOUNTAIN, UNIT 1, LOT 40

COUNTY ENGINEER

Proposed Excavation Depth: N/A

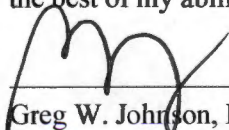
**Requirements:**

At least two soil excavations must be performed on the site, at opposite ends of the proposed disposal area. Locations of soil boring or dug pits must be shown on the site drawing. For subsurface disposal, soil evaluations must be performed to a depth of at least two feet below the proposed excavation depth. For surface disposal, the surface horizon must be evaluated. Describe each soil horizon and identify any restrictive features on the form. Indicate depths where features appear.

SOIL BORING NUMBER _____ SURFACE EVALUATION _____						
Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0	III	CLAY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 8"	BROWN
1						
2						
3						
4						
5						

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

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

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

07/20/18  
Date





**REVISED**

11:49 am, Feb 19, 2019

**AEROBIC TREATMENT  
DRIP TUBING SYSTEM**

DESIGNED FOR:

BRYAN T. & TERRE K. MANNING  
c/o 23011 FM 306  
CANYON LAKE, TEXAS 78133

**SITE DESCRIPTION:**

Located in First Mountain, Unit 1, Lot 40, at 2419 Triple Peak Drive, the proposed system will serve a four bedroom residence (3472sf.) situated in an area with shallow Type III soil as described in the Soil Evaluation Report. Native grasses, oak, and Mountain Cedar trees were found throughout this property. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this lot.

**PROPOSED SYSTEM:**

A 3-inch SCH-40 pipe discharges from the residence into a Clearstream NC3T 600 gpd aerobic plant containing a 400-gallon pretreatment tank, an aerobic treatment plant, and a 700-gallon pump chamber containing a submersible (0.5 HP Clearstream P-20 or equivalent) well pump. The well pump is activated by a time controller allowing the distribution ten times per day with an 8 minute run time with float setting at 360 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron disc filter (Arkal) then through a 1" SCH-40 manifold to a 2500 sf. drip tubing field, with *Netifim Bioline* drip lines set approximately two feet apart with **0.61 gph** emitters set every two feet, as per the attached schematic. A pressure regulator PMR-MF 30 psi installed in the pump tank on the manifold to the field will maintain pressure at 30 psi.

A 1" SCH-40 return line is installed to continuously flush the system by cycling a 1" ball valve. Solids caught in the Arkal disk filter are flushed each cycle back to the trash tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Prior to installing drip tubing the entire field area will be scarified, graded, bermed and terraced and then built up with 4" of a Type II or III soil. Drip tubing will be laid and will be capped with ~6" of Type II or Type III soil (**NOT SAND**). The field area will be sodded with grass, or covered with Curlex erosion matting and heavily seeded prior to system startup.

**Tank must have at grade risers on each opening with watertight caps that must be at least 65# or have a padlock or can only be removed with tools. A secondary plug, cap, or suitable restraint must be provided below riser cap to prevent tank entry should the cap be damaged or removed, in compliance with Chapter §285.38.**

**DESIGN SPECIFICATIONS:**

Q = 300 gallons per day - 4 bedroom residence (Table III)

Pretreatment tank size: 400 Gal

**REVISED**

11:49 am, Feb 19, 2019

Plant Size: Clearstream NC3T 600gpd (TCEQ Approved)

Pump tank size: 700 Gal

Reserve capacity after High Level: 100 gal. (>1/3 day usage)

Application Rate: Ra = 0.2 gal/sf

Total absorption area:  $Q/Ra = 300 \text{ GPD}/0.20 = 1500 \text{ sf}$  (Actual 2500 sf.).

Total linear feet drip tubing: 1250' *Netifim Bioline* drip tubing .61 GPH

Pump requirement: 750 emitters @ 0.61 gph @ 30 psi = 7.625 gpm

Pump Requirement (cont.): (0.5 HP Clearstream P-20 pump or equiv.)

Dosing volume: 50-70 gal.

Pump Tank Calculations: 768 Gal (14.5 gal/in.)

Volume below working level = 12" = 147 gal

Working level = 300 gal = 2.5"

Reserve Requirement = 1/3 day = 100 gal. = 8.5"

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

IN DRIP TUBING W/ NOM. DIA. 0.55" ID

$MSV = 2 \text{ FPS} ((Id \uparrow 2)/4) * 7.48 \text{ gal/cf} * 60 \text{ sec/min}$

$MSV = 2(3.14159((.55/12) \uparrow 2)/4) * 7.48 * 60$

MSV = 1.5 gpm x 5 = 7.5 gpm MIN FLOW RATE

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

$MSV = 2 \text{ FPS} ((Id \uparrow 2)/4) * 7.48 \text{ gal/cf} * 60 \text{ sec/min}$

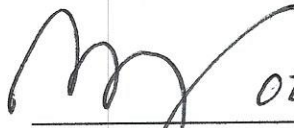
$MSV = 2(3.14159((1.049/12) \uparrow 2)/4) * 7.48 * 60$

MSV = 5.4 GPM

**PIPE AND FITTINGS:**

All pipes and fittings in this drip tubing system shall be 1" schedule 40 PVC. All joints shall be sealed with approved solvent-type PVC cement. Clipper type cutters are recommended to prevent PVC burrs during cutting of pipes causing possible plugging.

Designed in accordance with Chapter 285, Subchapter D, §285.30 and §285.40 Texas Commission On Environmental Quality. (Effective December 29, 2016)

 02/18/19

Greg W. Johnson, P.E. No. 67587, F#2585  
170 Hollow Oak  
New Braunfels, Texas 78132  
830/905-2778



INSTALL 2500sf OF FIELD USING 1250' OF DRIP TUBING. THERE SHALL BE NO PARKING, DRIVING OR STORAGE ON THE SEPTIC FIELD AT ANY TIME FOR ANY REASON.

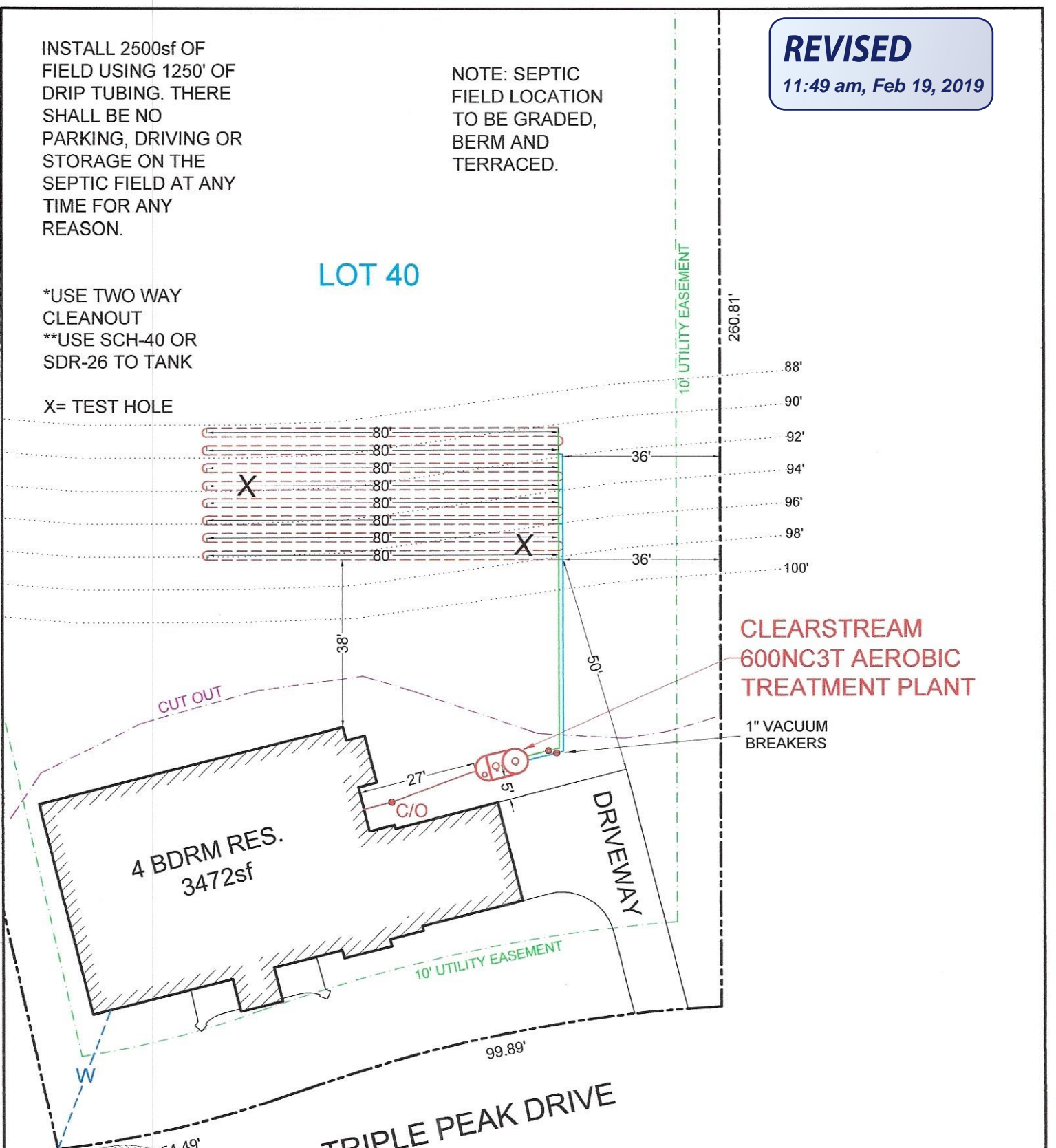
NOTE: SEPTIC FIELD LOCATION TO BE GRADED, BERM AND TERRACED.

**REVISED**  
11:49 am, Feb 19, 2019

**LOT 40**

\*USE TWO WAY CLEANOUT  
\*\*USE SCH-40 OR SDR-26 TO TANK

X= TEST HOLE



OWNER: BRYAN T. & TERRE K. MANNING		DRAWN BY: EJS III	
STREET ADDRESS: 2419 TRIPLE PEAK DRIVE			
LEGAL DESC: FIRST MOUNTAIN	UNIT/SECTION/PHASE: 1	BLOCK:	LOT: 40
PREPARED BY: GREG W. JOHNSON, P.E. F#002585	SCALE: 1"=30'	DATE: 7/23/2018	REVISED: 2/18/2019

**REVISED**

11:49 am, Feb 19, 2019

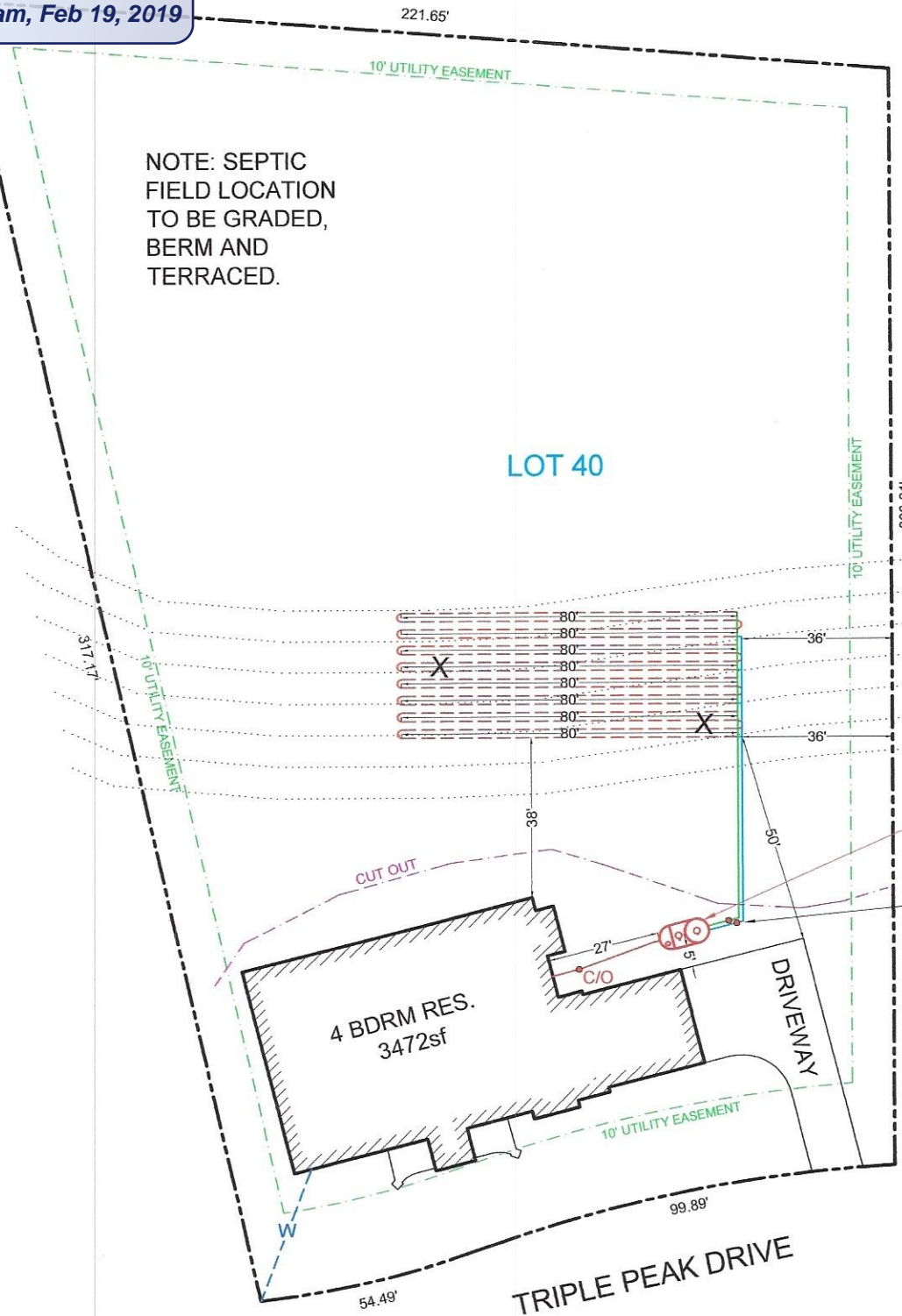
INSTALL 2500sf OF FIELD USING 1250' OF DRIP TUBING. THERE SHALL BE NO PARKING, DRIVING OR STORAGE ON THE SEPTIC FIELD AT ANY TIME FOR ANY REASON.

\*USE TWO WAY CLEANOUT  
\*\*USE SCH-40 OR SDR-26 TO TANK

X= TEST HOLE

NOTE: SEPTIC FIELD LOCATION TO BE GRADED, BERM AND TERRACED.

LOT 40



**CLEARSTREAM  
600NC3T AEROBIC  
TREATMENT PLANT**

1" VACUUM  
BREAKERS



OWNER: BRYAN T. & TERRE K. MANNING		DRAWN BY: EJS III	
STREET ADDRESS: 2419 TRIPLE PEAK DRIVE			
LEGAL DESC: FIRST MOUNTAIN	UNIT/SECTION/PHASE: 1	BLOCK:	LOT: 40
PREPARED BY: GREG W. JOHNSON, P.E. F#002585	SCALE: 1"=40'	DATE: 7/23/2018	REVISED: 2/18/2019

**REVISED**

11:49 am, Feb 19, 2019

**TANK NOTES:**

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

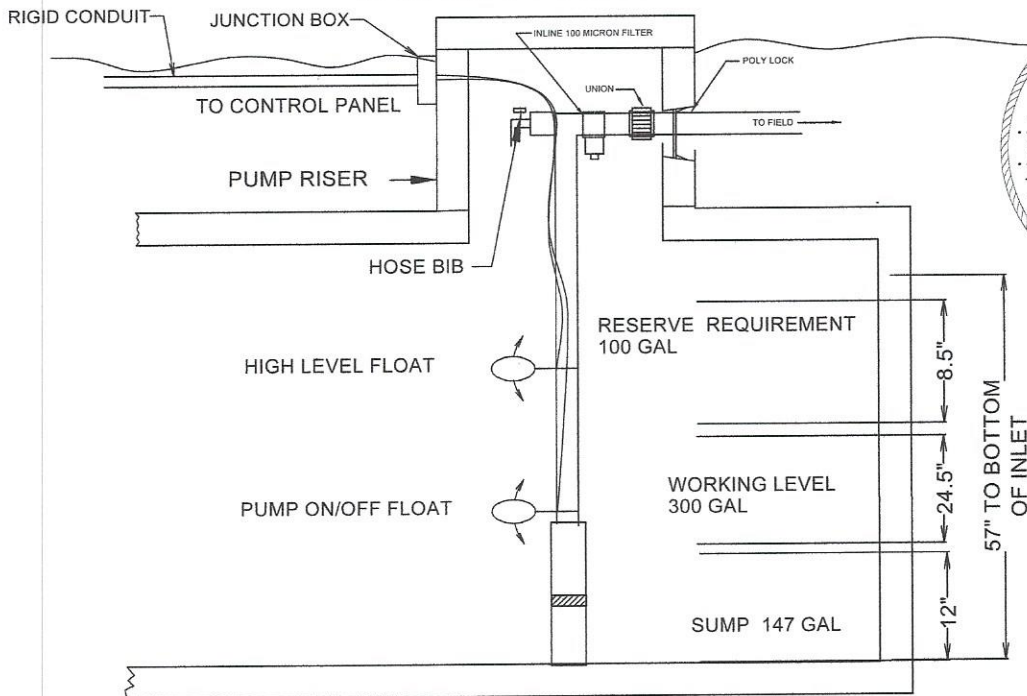
Tightlines to the tank shall be SCH-40 PVC.

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

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

Tanks must be left uncovered and full of water for inspection by the permitting authority.

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



F-2585

02/18/19

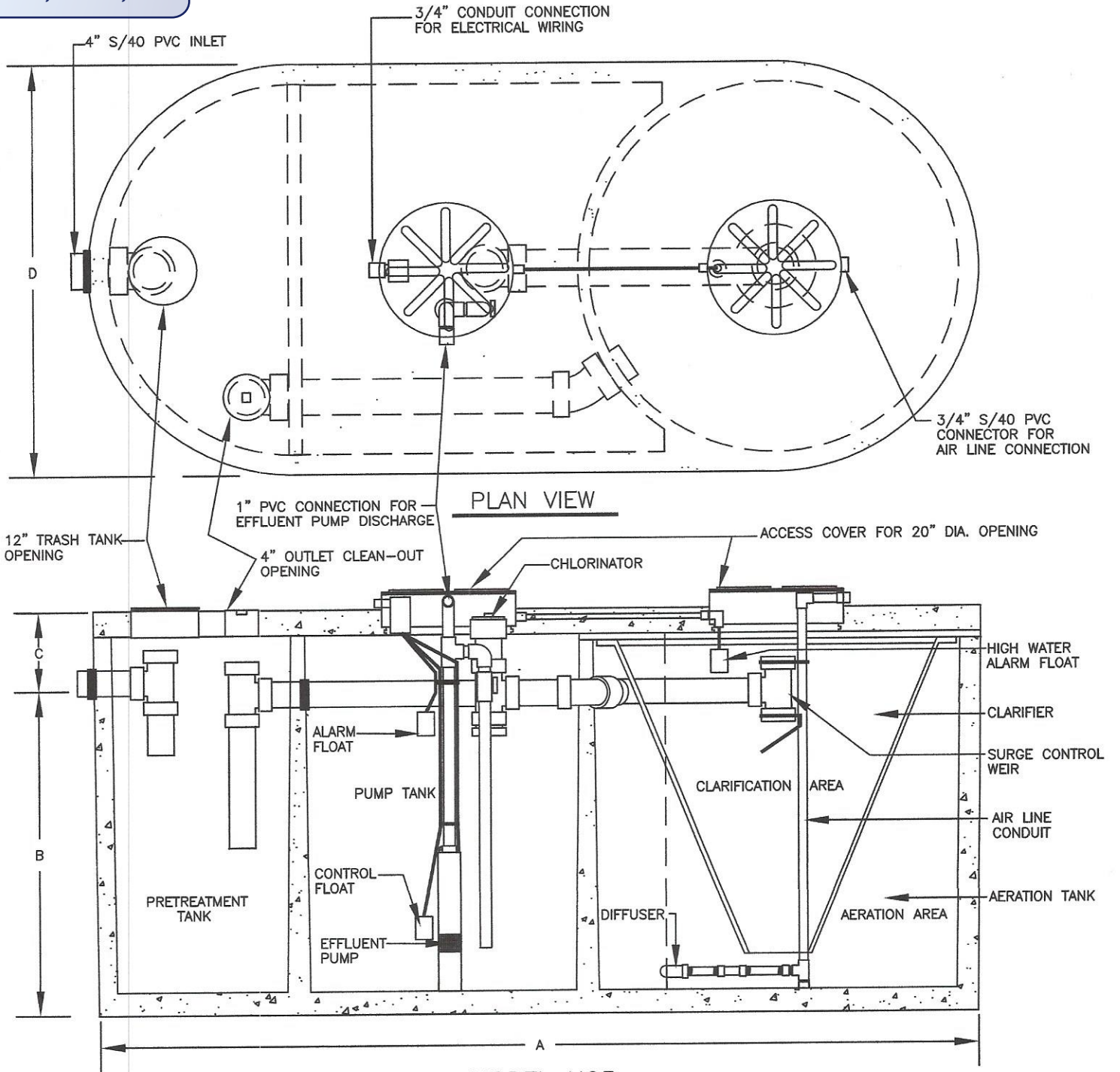
**TYPICAL PUMP TANK CONFIGURATION**

**CLEARSTREAM 600NC3T U W/ 700 GAL PUMP TANK**

**REVISED**

11:49 am, Feb 19, 2019

DESIGN DRAWINGS



MODEL NC3  
SECTION

DIMENSIONAL DATA

MODEL	A	B	C	D
500NC3-500	12'-2"	60"	10"	75"
500NC3-750	13'-5"	60"	10"	75"
600NC3	12'-7"	60"	10"	82"



F-2585

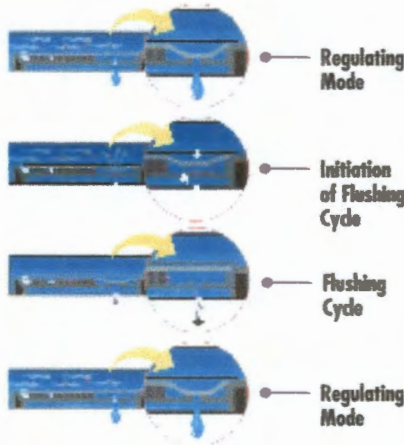
02/18/19

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## Bioline® Dripperline

### Pressure Compensating Dripperline for Wastewater



Bioline's Self-Cleaning, Pressure Compensating Dripper is a fully self-contained unit molded to the interior wall of the dripper tubing.

As shown at left, BioLine is continuously self-cleaning during operation, not just at the beginning and end of a cycle. The result is dependable, clog free operation, year after year.



#### Product Advantages

##### The Proven Performer

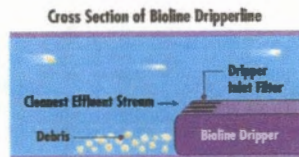
- Tens of millions of feet used in wastewater today.
- Bioline is permitted in every state allowing drip disposal.
- Backed by the largest, most quality-driven manufacturer of drip products in the U.S.
- Preferred choice of major wastewater designers and regulators.
- Proven track record of success for many years of hard use in wastewater applications.

##### Quality Manufacturing with Specifications Designed to Meet Your Needs

- Pressure compensating drippers assure the highest application uniformity - even on sloped or rolling terrain.
- Excellent uniformity with runs of 400 feet or more - reducing installation costs.
- Highest quality-control standards in the industry: Cv of 0.25 (coefficient of manufacturer's variation).
- A selection of flows and spacings to satisfy the designer's demand for almost any application rate.

##### Long-Term Reliability

- Protection against plugging:
  - Dripper inlet raised 0.27" above wall of tubing to prevent sediment from entering dripper.
  - Drippers impregnated with Vinyzene to prevent buildup of microbial slime.
  - Unique self-flushing mechanism passes small particles before they can build up.



##### Root Safe

- A physical barrier on each BioLine dripper helps prevent root intrusion.
- Protection never wears out - never depletes - releases nothing to the environment.
- Working reliably for up to 15 years in subsurface wastewater installations.
- Additional security of chemical root inhibition with Techfilter - supplies Trifluralin to the entire system, effectively inhibiting root growth to the dripper outlets.



#### Applications

- For domestic strength wastewater disposal.
- Installed following a treatment process.
- Can be successfully used on straight septic effluent with proper design, filtration and operation.
- Suitable for reuse applications using municipally treated effluent designated for irrigation water.

#### Specifications

Wall thickness (mil): 45\*

Nominal flow rates (GPH): .4, .6, .9\*

Common spacings: 12", 18", 24\*\*

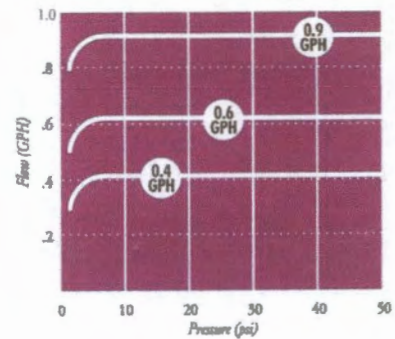
Recommended filtration: 120 mesh

Inside diameter: .570"

Color: Purple tubing indicates non-potable source

\*Additional flows, spacings, and pipe sizes available by request. Please contact Netafim USA Customer Service for details.

BIOLINE Flow Rate vs. Pressure



**NETAFIM USA**  
 5470 E. Home Ave. • Fresno, CA 93727  
 888.638.2346 • 559.453.6800  
 FAX 800.695.4753  
[www.netafimusa.com](http://www.netafimusa.com)

# NETAFIM WASTEWATER DISPERSAL SYSTEM DESIGN GUIDE

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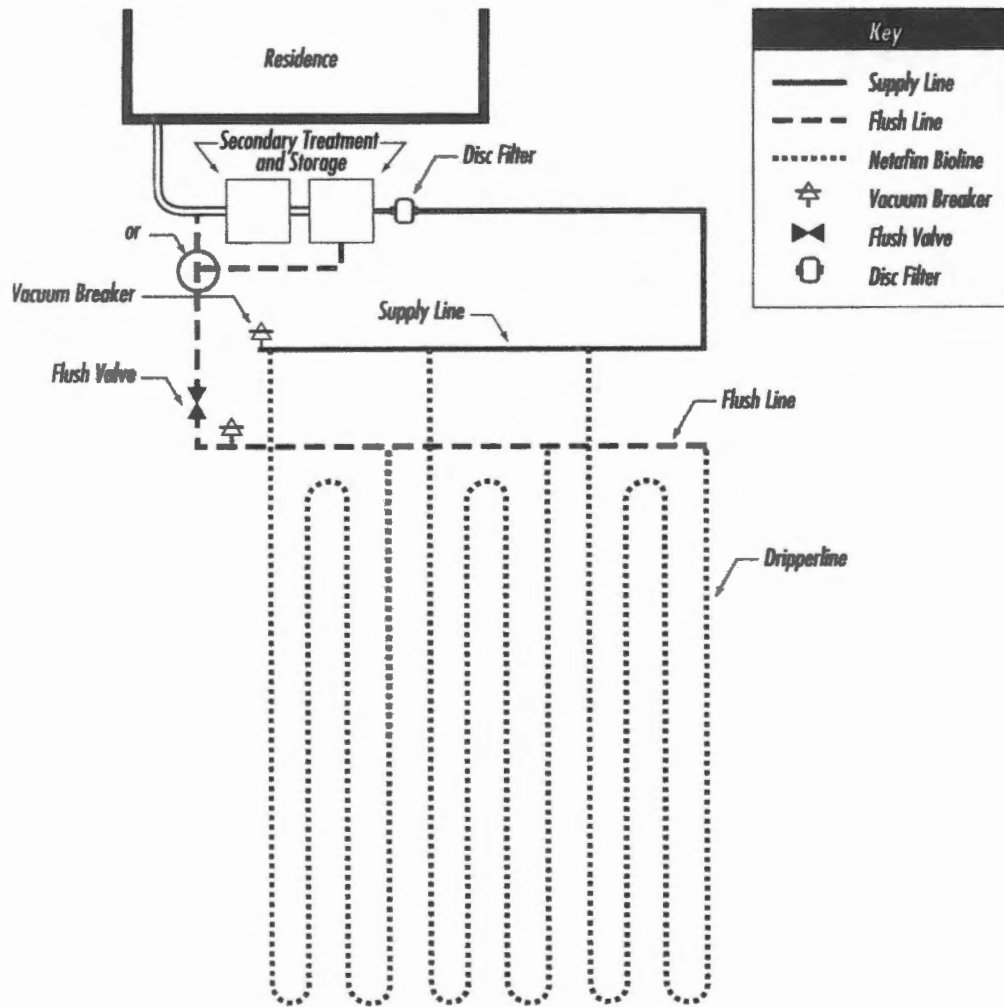
COUNTY ENGINEER

## SAMPLE DESIGNS

### SINGLE TRENCH LAYOUT

Rectangular field with supply and flush manifold on same side and in same trench;

- Locate supply and flush manifold in same trench
- Dripperlines are looped at the end opposite the supply and flush manifolds
- The longest Bioline length should not exceed 400 ft. Drip fields 200 ft. in length might loop the Bioline once; drip dispersal fields under 100 ft. might be looped twice, as illustrated





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# Arkal 1" Super Filter

Catalog No. 1102 0 \_ \_ \_

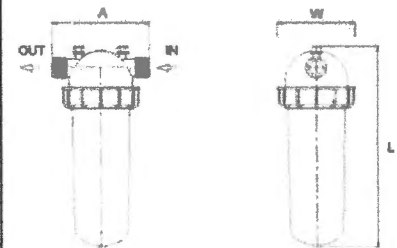
## Features

- A "T" shaped filter with two 1" male threads.
- A "T" volume filter for in-line installation on 1" 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.
- Spring keeps the discs compressed.
- Screw-on filter cover.
- Filter discs are available in various filtration grades.



## Technical Data

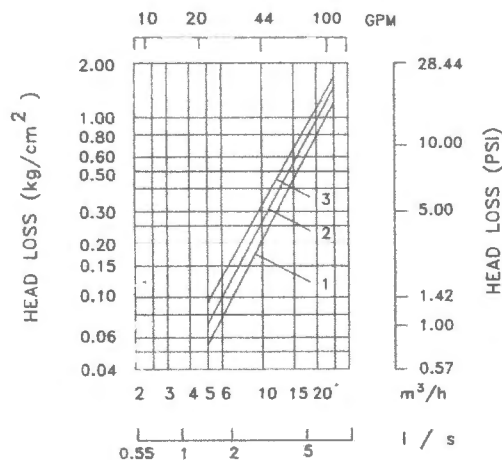
Inlet/outlet diameter	1" BSPT (male)	1" NPT (male)
	25.0 mm – nominal diameter 33.6 mm – pipe diameter (O. D.)	
Maximum pressure	10 atm	145 psi
Maximum flow rate	8 m <sup>3</sup> /h (1.7 l/sec)	35 gpm
General filtration area	500 cm <sup>2</sup>	77.5 in <sup>2</sup>
Filtration volume	600 cm <sup>3</sup>	37 in <sup>3</sup>
Filter length L	340 mm	13 13/32"
Filter width W	130 mm	5 3/32"
Distance between end connections A	158 mm	6 7/32"
Weight	1.420 kg	3.13 lbs.
Maximum temperature	70° C	158 °F
pH	5-11	5-11



## 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

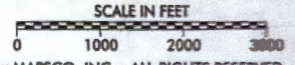




CONTINUED ON MAP 355



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**VOID**

**AEROBIC TREATMENT  
DRIP TUBING SYSTEM**

DESIGNED FOR:

BRYAN T. & TERRE K. MANNING

c/o 23011 FM 306

CANYON LAKE, TEXAS 78133

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**SITE DESCRIPTION:**

Located in First Mountain, Unit 1, Lot 40, at 2419 Triple Peak Drive, the proposed system will serve a four bedroom residence (3472sf.) situated in an area with shallow Type III soil as described in the Soil Evaluation Report. Native grasses, oak, and Mountain Cedar trees were found throughout this property. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this lot.

**PROPOSED SYSTEM:**

A 3 inch SCH-40 pipe discharges from a pretreatment chamber into a Maxx Air M-600 600gpd aerobic treatment plant containing a 353 gal. pretreatment chamber and a 768 gal. pump chamber. The effluent after processing gravity feeds into the pump chamber. The pump chamber contains a 0.5 HP FPS submersible well pump. The well pump is activated by mercury floats and a timer set to cycle eight times per day with a ten minute run time. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron Arkal Disc filter then through a 1" SCH-40 manifold to a 2500 sf. drip tubing field, with *Netifim Bioline* drip lines set approximately two feet apart with 0.61 gph emitters set every two feet, as per the attached schematic. A pressure regulator Model PMR30MF installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. A 1" SCH-40 return line is installed to continuously flush the system by cycling a 1" ball valve. Solids caught in the spin filter are flushed each cycle back to the trash tank. Agricultural Products, Inc. (Model #VBK-1) 1" PVC vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Prior to installing drip tubing the entire field area will be scarified, graded, bermed and terraced and then built up with 4" of a Type II or III soil. Drip tubing will be laid and will be capped with ~6" of Type II or Type III soil (**NOT SAND**). The field area will be sodded with grass, or covered with Curlex erosion matting and heavily seeded prior to system startup.

**Tank must have at grade risers on each opening with watertight caps that must be at least 65# or have a padlock or can only be removed with tools. A secondary plug, cap, or suitable restraint must be provided below riser cap to prevent tank entry should the cap be damaged or removed, in compliance with Chapter §285.38.**

**DESIGN SPECIFICATIONS:**

Q = 300 gallons per day - 4 bedroom residence (Table III)

Pretreatment tank size: 353 Gal

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Plant Size: Maxx Air M600 600 gpd (TCEQ Approved)  
 Pump tank size: 768 Gal  
 Reserve capacity after High Level: 100 gal. (>1/3 day usage)  
 Application Rate: Ra = 0.2 gal/sf  
 Total absorption area: Q/Ra = 300 GPD/0.20 = 1500 sf (Actual 2500 sf.).  
 Total linear feet drip tubing: 1250' *Netifim Bioline* drip tubing .61 GPH  
 Pump requirement: 750 emitters @ 0.61 gph @ 30 psi = 7.625 gpm  
 Pump: 0.5 HP FPS E-Series 20FE05P4-2W115 submersible pump or equivalent.  
 Dosing volume: 50-70 gal.  
 Pump Tank Calculations: 768 Gal (14.5 gal/in.)  
 Volume below working level = 15" = 218 gal  
 Working level = 300 gal = 21"  
 Reserve Requirement = 1/3 day = 100 gal. = 7"

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS  
 IN DRIP TUBING W/ NOM. DIA

**VOID**

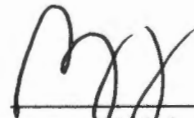
$MSV = 2 \text{ FPS } (\pi d^2 / 4) * 7.48 \text{ gal/cf} * 60 \text{ sec/min}$   
 $MSV = 2(3.14159((.55/12)^2) / 4) * 7.48 * 60$   
 $MSV = 1.5 \text{ gpm} \times 5 = 7.5 \text{ gpm MIN FLOW RATE}$

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID  
 $MSV = 2 \text{ FPS } (\pi d^2 / 4) * 7.48 \text{ gal/cf} * 60 \text{ sec/min}$   
 $MSV = 2(3.14159((1.049/12)^2) / 4) * 7.48 * 60$   
 $MSV = 5.4 \text{ GPM}$

**PIPE AND FITTINGS:**

All pipes and fittings in this drip tubing system shall be 1" schedule 40 PVC. All joints shall be sealed with approved solvent-type PVC cement. Clipper type cutters are recommended to prevent PVC burrs during cutting of pipes causing possible plugging.

Designed in accordance with Chapter 285, Subchapter D, §285.30 and §285.40 Texas Commission On Environmental Quality. (Effective December 29, 2016)

 08/31/18  
 \_\_\_\_\_  
 Greg W. Johnson, P.E. No. 67587, F#2585  
 170 Hollow Oak  
 New Braunfels, Texas 78132  
 830/905-2778



**VOID**

INSTALL 2500sf OF FIELD USING 1250' OF DRIP TUBING. THERE SHALL BE NO PARKING, DRIVING OR STORAGE ON THE SEPTIC FIELD AT ANY TIME FOR ANY REASON.

**VOID**

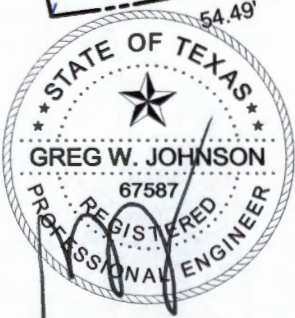
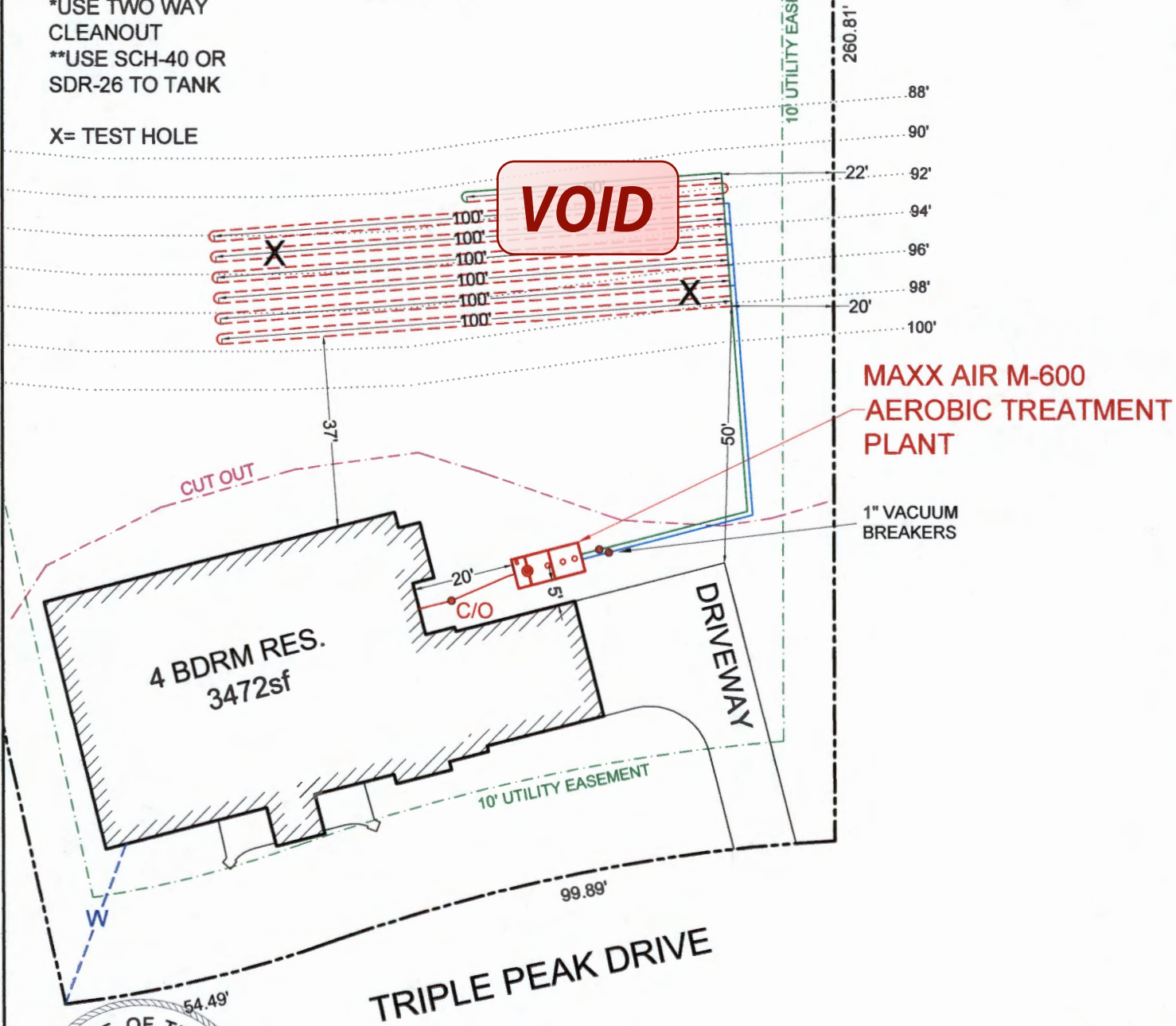
NOTE: SEPTIC FIELD LOCATION TO BE GRADED, BERM AND TERRACED.

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**LOT 40**

\*USE TWO WAY CLEANOUT  
 \*\*USE SCH-40 OR SDR-26 TO TANK

X= TEST HOLE



OWNER: BRYAN T. & TERRE K MANNING		DRAWN BY: EJS III	
STREET ADDRESS: 2419 TRIPLE PEAK DRIVE			
LEGAL DESC: FIRST MOUNTAIN		UNIT/SECTION/PHASE: 1	BLOCK: LOT: 40
PREPARED BY: GREG W. JOHNSON, P.E. F#002585	SCALE: 1"=30'	DATE: 7/23/2018	REVISED:

**VOID**

**VOID**

INSTALL 2500sf OF FIELD USING 1250' OF DRIP TUBING. THERE SHALL BE NO PARKING, DRIVING OR STORAGE ON THE SEPTIC FIELD AT ANY TIME FOR ANY REASON.

\*USE TWO WAY CLEANOUT  
\*\*USE SCH-40 OR SDR-26 TO TANK

X= TEST HOLE

NOTE: SEPTIC FIELD LOCATION TO BE GRADED, BERM AND TERRACED.

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LOT 40

**VOID**

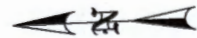
MAXX AIR M-600  
AEROBIC TREATMENT  
PLANT

1" VACUUM  
BREAKERS

4 BDRM RES.  
3472sf

DRIVEWAY

TRIPLE PEAK DRIVE



OWNER:	BRYAN T. & TERRELL K. MANNING			DRAWN BY:	EJS III
STREET ADDRESS:	2400 TRIPLE PEAK DRIVE				
LEGAL DESC:	FIRST MOUNTAIN	UNIT/SECTION/PHASE:	1	BLOCK:	LOT: 40
PREPARED BY:	GREG W. JOHNSON, P.E. F#002585	SCALE:	1"=40'	DATE:	7/23/2018
				REVISED:	

**VOID**

**VOID**

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**TANK NOTES:**

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

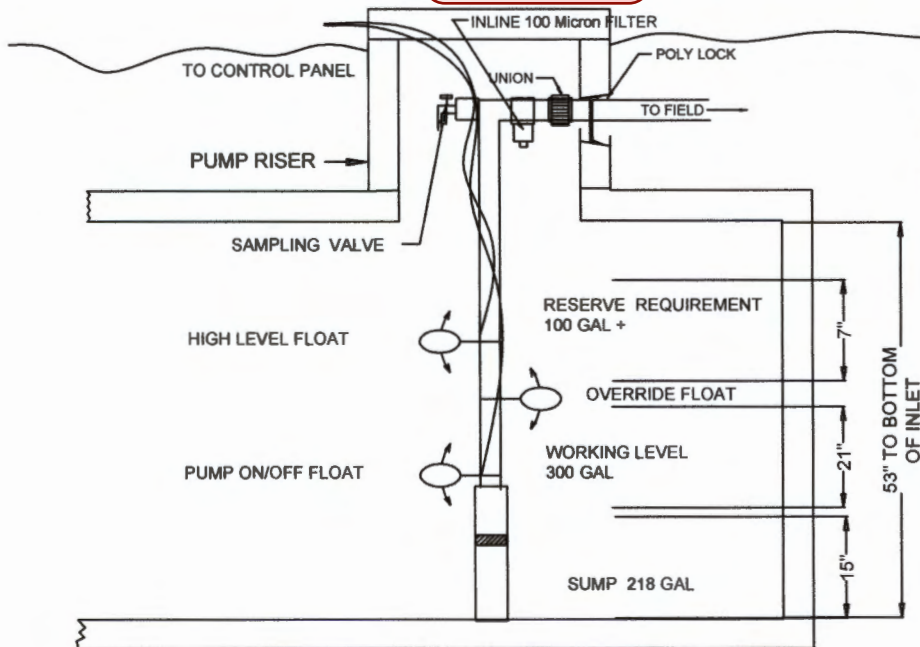
Tightlines to the tank shall be SCH-40 PVC.

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

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

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

**VOID**



*Handwritten signature and date:* 7/25/18  
07/pelle

**TYPICAL PUMP TANK CONFIGURATION  
MAXX AIR M600 768 GAL PUMP TANK**

**VOID**

Independence Title Company  
GF# 1426154186  
JTM

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**General Warranty Deed**

**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.**

**Date:** November 21, 2014

**Grantor:** GLEN V. OSTIER and IVONNE MARIE BERGES, Trustees of THE BERGES  
-OSTIER LIVING TRUST dated June 22, 2011

**Grantor's Mailing Address:**

8207 Marlie Drive  
Pikesville, Maryland 21208  
Baltimore County

**Grantee:** BRYAN T. MANNING and TERRE K. MANNING, husband and wife

**Grantee's Mailing Address:**

408 Trail View Way  
Friendswood, Texas 77546  
Galveston County

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

**Property (including any improvements):**

Lot 40, FIRST MOUNTAIN, UNIT 1, according to the map or plat thereof, recorded in County Clerk's File No. 200906008485, Map and Plat Records, Comal County, Texas.

**Reservations from Conveyance:** None.

**Exceptions to Conveyance and Warranty:** Liens described as part of the Consideration and any other liens described in this deed as being either assumed or subject to which title is taken; validly existing easements, rights-of-way, and prescriptive rights, whether of record or not; all presently recorded and validly existing restrictions, reservations, covenants, conditions, oil and gas leases, mineral interests, and water interests outstanding in persons other than Grantor, and other instruments, other than conveyances of the surface fee estate, that affect the Property; validly existing rights of adjoining owners in any walls and fences situated on a common boundary; any discrepancies, conflicts, or shortages in area or boundary lines; any encroachments or overlapping of improvements; and taxes for 2014, which Grantee assumes and agrees to pay, and subsequent assessments for that and prior years due to change in land usage, ownership, or both, the payment of





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which Grantee assumes.

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

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

Glen V. Ostier  
GLEN V. OSTIER, Trustee of THE BERGES  
-OSTIER LIVING TRUST dated June 22, 2011

Ivonne Marie Berges  
IVONNE MARIE BERGES, Trustee of THE  
BERGES-OSTIER LIVING TRUST dated June 22,  
2011

STATE OF MARYLAND §

COUNTY OF Baltimore §

This instrument was acknowledged before me on the 24 day of NOVEMBER, 2014, by  
GLEN V. OSTIER and IVONNE MARIE BERGES, Trustees of THE BERGES-OSTIER  
LIVING TRUST dated June 22, 2011, on behalf of said Trust.

G. R. Geppi  
NOTARY PUBLIC, State of Maryland



After recording, return to:  
INDEPENDENCE TITLE COMPANY  
1000 N. Walnut, Ste. 200  
New Braunfels, TX 78130

**FILED AND RECORDED**

Instrument Number: 201406042806

Recording Fee: 30.00

Number Of Pages: 3

Filing and Recording Date: 12/08/2014 11:02AM

Deputy: KELLI JOHNSTON

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COUNTY ENGINEER

I hereby certify that this instrument was FILED on the date and time stamped hereon and RECORDED in the OFFICIAL PUBLIC RECORDS of Comal County, Texas.



*Joy Streater*  
Joy Streater, County Clerk  
Comal County, Texas

NOTICE: It is a crime to intentionally or knowingly file a fraudulent court record or instrument with the clerk.

**DO NOT DESTROY** - *Warning, this document is part of the Official Public Record.*

**COUNTRYSIDE CONSTRUCTION, INC.**  
**300 CHAPMAN PARKWAY**  
**CANYON LAKE, TX 78133**

**Phone: 830-899-2615**  
**Fax: 830-899-6662**

**TESTING AND REPORTING RECORD**

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: **JULY 7, 2019** Installed: **3/7/2019** Service Expires: **3/7/2021**

BILLING ADDRESS:

PHYSICAL ADDRESS:

**BRYAN & TERRE MANNING**  
**2419 TRIPLE PEAK**  
**CANYON LAKE, TX 78133**

**2419 TRIPLE PEAK**  
**CANYON LAKE, TX 78133**

TELEPHONE: **713-301-9144**  
 ALT. PHONE:

LOT: **LT 40,**

PERMIT #: **108122**  
 COUNTY: **COMAL**  
 SN: **17120972**  
 MAPSCO: **NOT AVAILABLE**

SUBDIVISION: **FIRST MOUNTAIN - KEY KEY 3373**  
**600NCT3**

Manufacturer: **CLRSTRM**

NOTES:

TYPE OF SYSTEM: **DRIP**

Inspected Item:	Operational	Inoperative	2. Action taken or Repairs or Needed repairs to system (list all components replaced):
Aerators SCFM/Compressors PSI (Record Pressure Reading)	1.25		
Filters	/		
Irrigation Pumps	/		CHECKED pump,
Recirculation Pumps	N/A		alarms, FLOATS,
Disinfection Device	/		
Chlorine Supply	/		
Electrical Circuits	/		MICRON FILTER,
Distribution System	/		
Sprayfield Vegetation	N/A		COMPRESSOR
Back Flush Drip Field, if applicable	/		
Other as Noted			
Access Posts are Secured	(Yes)	No	

3. Tests required and results:

	Required		Results mg/l mpn/100mi or Trace	Test Method
	Yes	No		
BOD(Grab)				
TSS(Grab)		/	clear	
Cl(Grab)	/			
Fecal Coliform				

Copies of this report have been forwarded to the following: COMAL county / homeowner.

Maintenance Technician: Thomas

11

Date of completion: 7-15-19 Start Job Time: 4:00 Stop Job Time: 4:15

Maintenance Provider: Wolke Chapman

COUNTRYSIDE CONSTRUCTION, INC.  
 300 CHAPMAN PARKWAY  
 CANYON LAKE, TX 78133

Phone: 830-899-2615  
 Fax: 830-899-6662

### TESTING AND REPORTING RECORD

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1 Inspection Date: NOVEMBER 7 2019 Inspected: 3<sup>rd</sup> 2019 Service Expires: 3<sup>rd</sup> 2021

SELLING ADDRESS

PHYSICAL ADDRESS

RYAN & TERRE MANNING  
 2419 TRIPLE PEAK  
 CANYON LAKE, TX 78133

2419 TRIPLE PEAK  
 CANYON LAKE, TX 78133

TELEPHONE: 713-301-9144  
 ALT. PHONE:

LOT: LI 40

REPORT # 06127  
 COUNTY COMAL  
 IN 171097  
 MAPS: NOT AVAILABLE

SUBDIVISION: FIRST MOUNTAIN - KEY KEY 3073  
 CONNCTS

Manufacturer: CLIFSTERN

NOTES

TYPE OF SYSTEM: URIF

Inspected Item	Operational	Inoperative	Defect taken or Repairs or Needed repairs to system list all components repaired
Aerators SCFM Compressors PE			
Record Pressure Reading:	2.0		
Filters	/		
Irrigation Pumps	/		CHECKED PUMPS
Recirculation Pumps	N/A		
Disinfection Device	/		Alarm, Floats,
Chlorine Supply	/		
Electrical Circuits	/		MICRON FILTER,
Distribution System	/		
Sprayfield Vegetation	N/A		COMPRESSOR
Back Flush Trip Mech. if applicable	/		
Other as listed	/		
Access Posts as Secured	Yes	No	

2 Data required and results:

	Required		Secured	Test Method
	Yes	No		
BOD (Grab)				
TSS (Grab)	/		CLEAR	
TU (Grab)	/			
Fecal Coliform				

Copies of this report have been forwarded to the following: COMAL county Homeowner.

Maintenance Technician: THOMAS II

Date of completion: 11/16/19 Start Time: 10:20 Stop Time: 10:35

Maintenance Reviewer: *Wally Chapman*

COUNTRYSIDE CONSTRUCTION, INC.  
 300 CHAPMAN PARKWAY  
 CANYON LAKE, TX 78133

Phone: 830-899-2615  
 Fax: 830-899-6662

**TESTING AND REPORTING RECORD**

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: MARCH 7, 2020 Installed: 3/7/2019 Service Expires: 3/7/2021

BILLING ADDRESS:  
 BRYAN & TERRE MANNING  
 2419 TRIPLE PEAK  
 CANYON LAKE, TX 78133

PHYSICAL ADDRESS:  
 2419 TRIPLE PEAK  
 CANYON LAKE, TX 78133

TELEPHONE: 713-301-9144  
 ALT. PHONE:

LOT: LT 40, PERMIT# 108122  
 COUNTY: COMAL  
 SN: 17120972  
 MFG: CLRSTRM MAPSCO: N/A

SUBDIVISION: FIRST MOUNTAIN - KEY KEY 3373  
 600NCT3

NOTES:  
 TYPE OF SYSTEM: DRIP

Inspected Item: Operational Inoperative

Inspected Item:	Operational	Inoperative
Aerators		
SCFM/Compressors PSI Record Pressure Reading	1.25	
Filters	/	
Irrigation Pumps	/	
Recirculation Pumps	N/A	
Disinfection Device	/	
Chlorine Supply	/	
Electrical Circuits	/	
Distribution System	/	
Sprayfield Vegetation	N/A	
Back Flush Drip Field, if applicable	/	
Other as Noted	/	

2. Action taken or Repairs or  
 Needed repairs to system (list all  
 components replaced):

CHECKED PUMP,  
 Alarm, FLOATS,  
 MICRON, COMPRESSOR/FILTER

SYSTEM OPERATING AS DESIGNED?  Yes  No

Access Posts are Secured  Yes  No

3. Tests required and results:

	Required		Results mg/l mpn/100mi or Trace	Test Method
	Yes	No		
BOD (Grab)				
TSS (Grab)		/	CLEAR	
Cl (Grab)	/			
Fecal Coliform				

PLEASE  
 treat  
 FOR ANTS

Copies of this report have been forwarded to the following: COMAL county / homeowner.

Maintenance Technician: Thomas

11

Date of completion: 3/10/20 Start Job Time: 3:55 Stop Job Time: 4:15

Maintenance Provider: Walsh Chapman

COUNTRYSIDE CONSTRUCTION, INC.  
 300 CHAPMAN PARKWAY  
 CANYON LAKE, TX 78133

Phone: 830-899-2615  
 Fax: 830-899-6662

TESTING AND REPORTING RECORD

The Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: JULY 7, 2020 Installed: 3/7/2019 Service Expires: 3/7/2021

BILLING ADDRESS:  
 BRYAN & TERRE MANNING  
 2419 TRIPLE PEAK  
 CANYON LAKE, TX 78133

PHYSICAL ADDRESS:  
 2419 TRIPLE PEAK  
 CANYON LAKE, TX 78133

TELEPHONE: 214-301-9144  
 ALT. PHONE:

LIT: LT 40

PERMIT#: 108122

COUNTY: COMAL

SP: 17120970

SUBDIVISION: FIRST MOUNTAIN - KEY KEY 3973  
 600NCTS

FG: CLRSTRM

DRESDEN: N/A

NOTES:  
 TYPE OF SYSTEM: DRIP

Inspected Item	Operational	Inoperative
Reversals		
BCPM Compressor P&ID Records Pressure Reading	1.25	
Filters	1	
Irrigation Pumps	1	
Recirculation Pumps	N/A	
Disinfection Device	1	
Chlorine Supply	1	
Electrical Circuitry	1	
Distribution System	1	
Spandrels/Weircrest	N/A	
Back Flush Dry Field, if applicable	1	
Other as Noted	1	
Access Doors are Secured		

2. Action taken or Repairs or  
 Needed repairs on system. List all  
 components repaired.

CHECKED PUMP,  
 Alarm, micron,  
 FLOATS, FLUSHED FIELD,  
 Compressor

SYSTEM OPERATIVE AS DESIGNED:  YES  NO

3. Tests required and results.

	Required		Results by 1 up to 100mg or Less	Test Method
	Yes	No		
BOD/Grab		1	clear	
TSS/Grab				
Cl/Grab	1			
Fecal Coliform				

Copies of this report have been forwarded to the following: COMAL county / homeowner.

Maintenance Technician: Thomas 11

Date of completion: 7/29/20 Start Job Time 12:45 Stop Job Time 1:03

Maintenance Provider: Walker Chapman

COUNTRYSIDE CONSTRUCTION, INC.  
 300 CHAPMAN PARKWAY  
 CANYON LAKE, TX 78133

Phone: 830-899-2615  
 Fax: 830-899-6662

TESTING AND REPORTING RECORD

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: NOVEMBER 7, 2020 Installed: 3/7/2019 Service Expires: 3/7/2021

BILLING ADDRESS:  
 BRYAN & TERRE MANNING  
 2419 TRIPLE PEAK  
 CANYON LAKE, TX 78133

PHYSICAL ADDRESS:  
 2419 TRIPLE PEAK  
 CANYON LAKE, TX 78133

TELEPHONE: 713-301-9144  
 ALT. PHONE:

LOT: LT 40

PERMITS: 108122  
 COUNTY: COMAL  
 EN: 17120972

SUBDIVISION: FIRST MOUNTAIN - KEY KEY 3373  
 600NCT3

MFG: CLRSTRM

MAPS00: N/A

NOTES:

TYPE OF SYSTEM: DRIP

Inspected Item:	Operational	Inoperative	2. Action taken or Repairs or Needed repairs to system. List all components replaced.
Aerators			
SCFM/Compressor PFI Record Pressure Reading	1.25		
Filters	/		
Irrigation Pumps	/		CHECKED PUMP.
Recirculation Pumps	N/A		
Disinfection Device	/		Alarm, FLOATS,
Chlorine Supply	/		MACRON, COMPRESSOR
Electrical Circuits	/		
Distribution System	/		
Sprayfield Vegetation	N/A		
Back Flush Drip Field, if applicable	/		
Other as Noted	/		
Access Posts are Secured			SYSTEM OPERATING AS DESIGNED? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

3. Tests required and results.

	Required		Results mg/l nph/100ml or Trace	Test Method
	Yes	No		
BOD (Grab)				
TSS (Grab)		/	Clear	
Cl (Grab)	/			
Fecal Coliform				

Recommended  
 adding 6" risers  
 due to soil erosion  
 From Hill Above  
 system (covered  
 lids)

Copies of this report have been forwarded to the following: COMAL county / homeowner.

Maintenance Technician: Thomas

11

Date of completion: 12/17/20 Start Job Time 3:15 Stop Job Time 3:35

Maintenance Provider: Walker Chapman

COUNTY/SIDE CONSTRUCTION, INC.  
 300 CHAPMAN PARKWAY  
 CANYON LAKE, TX 78133

Phone: 830-899-2615  
 Fax: 830-899-6662

**TESTING AND REPORTING RECORD**

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: MARCH 7, 2021 Installed: 3/7/2019 Service Expires: 3/7/2021

BILLING ADDRESS:  
 BRYAN & TERRI MANNING  
 2419 TRIPLE PEAK  
 CANYON LAKE, TX 78133

PHYSICAL ADDRESS:  
 2419 TRIPLE PEAK  
 CANYON LAKE, TX 78133

TELEPHONE: 713-301-9149  
 ALT. PHONE:

LOT: LT 40.

PERMIT#: 108122

COUNTY: COMAL

SH: 17120972

SUBDIVISION: FIRST MOUNTAIN - KEY KEY 3373  
 600NCTS

WFO: CLRSTRM

AREAS: N/A

NOTES:

TYPE OF SYSTEM: DRIP

Inspected Item:	Operational	Inoperative	2. Action taken or Remarks or Needed repairs to system (list all components replaced)
Aerators			
SPM/Compressors #1 Pressure Gauge Reading:	1.0		
Filters	/		
Irrigation Pumps	/		CHECKED PUMP.
Recirculation Pumps	N/A		Alarm, FLOATS.
Disinfection Device	/		5micron FILTER.
Chlorine Supply	/		Compressor
Electrical Circuits	/		FLUSHED FIELD
Distribution System	/		
Sprayfield Vegetation	N/A		
Back Flush Drift Field, if applicable	/		
Other as Noted	/		
Access Posts are Secured			SYSTEM OPERATING AS DESIGNED? <input checked="" type="checkbox"/> Y/N
			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

3. Tests required and results:

	Required		Results mg/l ppm/100mi or Trace	Test Method
	Yes	No		
BOD (Grab)				
TSS (Grab)		/	Clear	
Cl (Grab)	/			
Fecal Coliform				

Copies of this report have been forwarded to the following: COMAL county / homeowner

Maintenance Technician: Thomas 11

Date of completion: 4/7/21 Hours Job Time: \_\_\_\_\_ Hour Job Time: \_\_\_\_\_

Maintenance Provider: Willie Chapman