



COMAL COUNTY

ENGINEER'S OFFICE

License to Operate On-Site Sewage Treatment and Disposal Facility

Issued This Date: **01/16/2024** Permit Number: **116949**

Location Description: 1365 POWDER RIDGE RD
NEW BRAUNFELS, TX 78132

Subdivision: Vintage Oaks at the Vineyard
Unit: 28
Lot: 2214
Block: N/A
Acreage: 1.0000

Type of System: Aerobic
Drip Irrigation

Issued to: Jill and Brian Ferrante

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

OS0036769

ENVIRONMENTAL HEALTH INSPECTOR

Assistant
OS0034792

ENVIRONMENTAL HEALTH COORDINATOR

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
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.						
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: 116949
Issued This Date: 12/08/2023
This permit is hereby given to: Jill and Brian Ferrante

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

1365 POWDER RIDGE RD
NEW BRAUNFELS, TX 78132

Subdivision: Vintage Oaks at the Vineyard
Unit: 28
Lot: 2214
Block: N/A
Acreage: 1.0000

APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic
Drip Irrigation

This permit gives permission for the construction of the above referenced on-site facility to commence. Installation must be completed by an installer holding a valid registration card from the Texas Commission on Environmental Quality (TCEQ). Installation and inspection must comply with current TCEQ and Comal County requirements.

Call (830) 608-2090 to schedule inspections.

Preliminary Field Check For Drip Systems



COMAL COUNTY
ENGINEER'S OFFICE

ON-SITE SEWAGE FACILITY APPLICATION

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

Date Nov. 8, 2023

Permit Number 116949

1. APPLICANT / AGENT INFORMATION

Owner Name <u>Jill and Brian Paul Ferrante</u>	Agent Name <u>Countryside Construction - Walker Chapman</u>
Mailing Address <u>17037 Holiday Dr</u>	Agent Address <u>300 Chapman Parkway</u>
City, State, Zip <u>Morgan Hill, CA, 95037</u>	City, State, Zip <u>Canyon Lake, TX, 78133</u>
Phone # <u>408-472-4915</u>	Phone # <u>830-899-2615</u>
Email <u>jill.brian@yahoo.com</u>	Email <u>rwkeltner@hotmail.com</u>

2. LOCATION

Subdivision Name Vintage Oaks at the Vineyard Unit 28 Lot 2214 Block N/A
Survey Name / Abstract Number _____ Acreage _____
Address 1365 Powder Ridge City New Braunfels State TX Zip 78132

3. TYPE OF DEVELOPMENT

☒ Single Family Residential

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

Number of Bedrooms 5

Indicate Sq Ft of Living Area 4080

☐ 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 ☐ Rainwater

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.

Signature of Owner

Date

November 8, 2023



ON-SITE SEWAGE FACILITY APPLICATION

Planning Materials & Site Evaluation as Required Completed By Corrie Smith

System Description drip irrigation

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

Tank Size(s) (Gallons) 840 GPD ATU Absorption/Application Area (Sq Ft) 2100

Gallons Per Day (As Per TCEQ Table III) 420

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

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

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

Is there an existing TCEQ approved WPAP for the property? ☒ Yes ☐ No

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

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.

Corrie Smith
Signature of Designer

9-20-23
Date

THE COUNTY OF COMAL
STATE OF TEXAS

AFFIDAVIT

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 (commission) 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):
lot 2214, Vintage Oaks at the Vineyard, Unit 28,
Comal County, Texas

The property is owned by (insert owner's full name): Jill & Brian Ferrante

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 8 DAY OF November, 2023

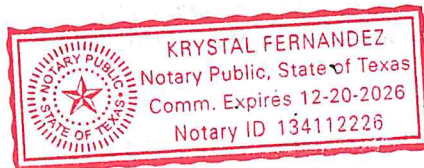
[Signature]
Owner(s) signature(s)

SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 8 DAY OF November, 2023

[Signature]
Notary Public, State of Texas

Notary's Printed Name: Krystal Fernandez

My Commission Expires: 12-20-2026



Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
11/20/2023 02:24:23 PM
TAMMY 2 Page(s)
202306036665



Bobbie Koepp

2/m

202306036665 11/20/2023 02:24:23 PM 1/2

Countryside Construction, Inc.**300 Chapman Parkway, Canyon Lake, TX. 78133****Phone: 830-899-2615 or 1-888-379-3721 Fax: 830-899-6662****Septic System Service Agreement**

In consideration of payment for this service contract, we will abide by and agree to its terms and conditions:

Name: Will Brian Ferrante Address: 1365 Powder Ridge
 Sub-Div./County: Vintage Oaks/Comal City, State/Zip: New Braunfels, Tx, 78132
 Permit #: _____ Model #: _____ Serial #: _____
 Phone #: 408-472-4915

(☒) Initial Two Year Service Agreement
 & Two Year Limited Warranty

() One Year Service Agreement

The effective date of this initial maintenance contract shall be the date the License to Operate is issued.

For \$ 0, a year this contract will be in effect FROM LTD TO _____ and will provide the following:Legal Description: lot 2214, unit 28, Vintage Oaks, Comal County, Tx

- A: An inspection/service call every (4) four months which will include: inspection, adjustments and servicing of the mechanical & electrical components as necessary to insure proper function of the system.
 B: An effluent quality inspection consisting of a visual check for color, turbidity, scum, overflow and odor.
 C: The property owner is responsible for "purchasing and keeping chlorine" in the chlorinator, (if applicable). If the chlorine test reveals "No Chlorine" in the system, the property owner may incur an additional cost.
 D: If any improper operation is observed (which cannot be corrected at that time) the property owner will be notified immediately of the conditions and the estimated cost.
 E: The response time to a complaint by the property owner regarding operation of the system, shall be within "48 hours" from the time of notification.
 F: **ANY PARTS, WARRANTY OR NON-WARRANTY, OR FREIGHT CHARGES, LABOR OR SERVICE CALLS DUE NOT PAID FOR REMAIN THE PROPERTY OF COUNTRYSIDE CONSTRUCTION AND COULD RESULT IN REPOSSION OF PARTS BY COUNTRYSIDE CONSTRUCTION.**
 G: **THE SIGNING OF THIS SERVICE AGREEMENT AUTHORIZES COUNTRYSIDE CONSTRUCTION TO ENTER THE PROPERTY TO EXECUTE ALL TERMS OF THIS CONTRACT.**

Countryside Construction, Inc., will warranty installation of the septic system to be according to state and county regulations and the designs approved by the county. **HOMEOWNER WILL BE RESPONSIBLE FOR SERVICE CALLS, LABOR AND SHIPPING COSTS ON ANY "WARRANTED PARTS" EXCHANGED DURING WARRANTY.** All other components will be according to manufacture's warranties.

Important: As Countryside Construction, Inc. cannot control what or how much effluent goes into this septic system, we cannot warranty how the system will function. Refer to manufacturers or installer's instructions, for suggestions on septic operation. This service agreement does not cover the cost of "Service Calls, Labor or Materials that are required or parts out of warranty, the failure to maintain electrical power to the system, sprinklers that are broken, leaking, stopped-up or otherwise mal-functioning; or sewage flows exceeding the hydraulic/organic design capabilities and the input of non-biodegradable materials (solvents, grease, oil, paints, etc.), or any usage contrary to the requirements as advised by authorized service representative. Laboratory test work is available at an additional cost. Chlorine, filters, or parts that are out of warranty are available at a reasonable cost.

This contract does not include the pumping of a tank or of any compartment of a tank, or settlement of soil on or around any part of the system regardless of reason.

Violations of the warranty also include: Disconnecting the alarm, restricting ventilation to the aerator, over loading the system above its rated capacity; or flooding by external means. Rodent, insect or Fire Ant damage or any other form of unusual abuse is a violation.

A renewal service contract should be "**Activated**" (30) thirty days before expiration of existing contract. We will contact property owner prior to expiration of existing contract.

Serviced by: Countryside Construction Inc.
 Walker Chapman - Installer's Licensee #OS0002929

Will Brian Ferrante
 Property Owner Signature

Print Name WILL BRIAN FERRANTEDate: 11/8/23

Walker Chapman
 OS0002929

Date: _____

Authorized Service Representative (revised 10/9/09)

Countryside Construction, Inc.
300 Chapman Parkway, Canyon Lake, TX. 78133
Phone: 830-899-2615 or 1-888-379-3721 Fax: 830-899-6662

Septic System Service Agreement

In consideration of payment for this service contract, we will abide by and agree to its terms and conditions:

Name: Jill & Brian Ferrante Address: 13605 Powder Ridge
Sub-Div./County: Vintage Oaks/Comal City, State/Zip: New Braunfels, Tx, 78132
Permit #: _____ Model #: _____ Serial #: _____
Phone #: 408-472-4915

☒ Initial Two Year Service Agreement
& Two Year Limited Warranty

☐ One Year Service Agreement

The effective date of this initial maintenance contract shall be the date the License to Operate is issued.
For \$ 0 a year this contract will be in effect FROM LTO TO _____ and will provide the following:

Legal Description: lot 2214, Unit 28, Vintage Oaks, Comal County, Tx

- A: An inspection/service call every (4) four months which will include: inspection, adjustments and servicing of the mechanical & electrical components as necessary to insure proper function of the system.
B: An effluent quality inspection consisting of a visual check for color, turbidity, scum, overflow and odor.
C: The property owner is responsible for "purchasing and keeping chlorine" in the chlorinator, (if applicable). If the chlorine test reveals "No Chlorine" in the system, the property owner may incur an additional cost.
D: If any improper operation is observed (which cannot be corrected at that time) the property owner will be notified immediately of the conditions and the estimated cost.

E: The response time to a complaint by the property owner regarding operation of the system, shall be within "48 hours," from the time of notification.

F: ANY PARTS, WARRANTY OR NON-WARRANTY, OR FREIGHT CHARGES, LABOR OR SERVICE CALLS DUE NOT PAID FOR REMAIN THE PROPERTY OF COUNTRYSIDE CONSTRUCTION AND COULD RESULT IN REPOSESSION OF PARTS BY COUNTRYSIDE CONSTRUCTION.

G: THE SIGNING OF THIS SERVICE AGREEMENT AUTHORIZES COUNTRYSIDE CONSTRUCTION TO ENTER THE PROPERTY TO EXECUTE ALL TERMS OF THIS CONTRACT.

Countryside Construction, Inc., will warranty installation of the septic system to be according to state and county regulations and the designs approved by the county. **HOMEOWNER WILL BE RESPONSIBLE FOR SERVICE CALLS, LABOR AND SHIPPING COSTS ON ANY "WARRANTED PARTS" EXCHANGED DURING WARRANTY.** All other components will be according to manufacture's warranties.

Important: As Countryside Construction, Inc. cannot control what or how much effluent goes into this septic system, we cannot warranty how the system will function. Refer to manufacturers or installer's instructions, for suggestions on septic operation. This service agreement does not cover the cost of "Service Calls, Labor or Materials that are required or parts out of warranty, the failure to maintain electrical power to the system, sprinklers that are broken, leaking, stopped-up or otherwise mal-functioning; or sewage flows exceeding the hydraulic/organic design capabilities and the input of non-biodegradable materials (solvents, grease, oil, paints, etc.), or any usage contrary to the requirements as advised by authorized service representative. Laboratory test work is available at an additional cost. Chlorine, filters, or parts that are out of warranty are available at a reasonable cost.

This contract does not include the pumping of a tank or of any compartment of a tank, or settlement of soil on or around any part of the system regardless of reason:

Violations of the warranty also include: Disconnecting the alarm, restricting ventilation to the aerator, over loading the system above its rated capacity; or flooding by external means. Rodent, insect or Fire Ant damage or any other form of unusual abuse is a violation.

A renewal service contract should be "**Activated**" (30) thirty days before expiration of existing contract. We will contact property owner prior to expiration of existing contract.

Served by: Countryside Construction Inc.
Walker Chapman - Installer's Licensee #OS0002929

[Signature]
Property Owner Signature

Print Name Brian Ferrante

Date: 11/8/23

Walker Chapman
OS0002929

Date: _____

Authorized Service Representative (revised 10/9/09)

**ON-SITE SEWAGE FACILITY (OSSF)
SITE EVALUATION FORM**

1. OWNER INFORMATION:	
Property Owner's Full Legal Name: <u>Ferrante</u>	

2. PROPERTY INFORMATION (the property or tract for which an Application has been submitted under the Hays County Development Regulations):				
911 street address for the Subject Property (if established) ¹ : <u>1365 Powder Ridge</u>				
City: <u>New Braunfels</u>			Zip Code:	
Legal description:				
Lot: <u>2214</u>	Block:	Subdivision: <u>Vineyard Oaks</u>	Sec: <u>28</u>	Phase:
If not located in a subdivision: Survey:				
Abstract:			Recorded (Vol/Page):	

¹If a 911 street address has not yet been assigned to the Subject Property, the Applicant must contact the 911 Coordinator at (512) 393-2160 to obtain an address.

3. SITE EVALUATION INFORMATION:	
Name of Site Evaluator: <u>Corrie Smith</u>	OS#: <u>0029488</u>
Date Performed: <u>4-25-23</u>	Proposed Excavation Depth: <u>NA</u>

4. REQUIREMENTS:

- At least two soil evaluations must be performed on the site at opposite ends of the proposed disposal area. Locations of soil evaluations 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 2 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 Profile Hole Number: <u>1</u>					
Depth (ft)	Textural Class	Gravel Analysis	Drainage (Mottles/Water Table)	Restrictive Horizon	Observations
0					suitable for drip irrigation
1	III	L30%	—	rock	
1 1/2					
2					
3					
4					
5					



CS 4-20-23

Soil Profile Hole Number: <u>2</u>					
Depth (ft)	Textural Class	Gravel Analysis	Drainage (Mottles/Water Table)	Restrictive Horizon	Observations
0 1 2 3 4 5	<u>III</u>	<u>L30%</u>	<u>-</u>	<u>rock</u>	<u>suitable for drip irrigation</u>

5. FEATURES OF SITE AREA:

Presence of 100 year flood zone

Presence of adjacent ponds, streams, water impoundments

Existing or proposed water well in nearby area

Organized sewage available to lot or tract

Recharge features within 150 feet

This site is suitable for a standard On-Site Sewage Facility

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

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

Signature of Site Evaluator: X Corrie Smith
 Print Name: Corrie Smith
 Date: 7-25-23



CS 9-20-23

**ON-SITE SEWAGE FACILITY (OSSF)
SITE EVALUATION FORM**

1. OWNER INFORMATION:	
Property Owner's Full Legal Name: <u>Ferrante</u>	

2. PROPERTY INFORMATION (the property or tract for which an Application has been submitted under the Hays County Development Regulations):				
911 street address for the Subject Property (if established) ¹ : <u>1365 Powder Ridge</u>				
City: <u>New Braunfels</u>			Zip Code:	
Legal description:				
Lot: <u>2214</u>	Block:	Subdivision: <u>Vineyard Oaks</u>	Sec: <u>28</u>	Phase:
If not located in a subdivision: Survey:				
Abstract:			Recorded (Vol/Page):	

¹If a 911 street address has not yet been assigned to the Subject Property, the Applicant must contact the 911 Coordinator at (512) 393-2160 to obtain an address.

3. SITE EVALUATION INFORMATION:	
Name of Site Evaluator: <u>Corrie Smith</u>	OS#: <u>0029488</u>
Date Performed: <u>4-25-23</u>	Proposed Excavation Depth: <u>NA</u>

4. REQUIREMENTS:

- At least two soil evaluations must be performed on the site at opposite ends of the proposed disposal area. Locations of soil evaluations 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 2 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 Profile Hole Number: <u>1</u>					
Depth (ft)	Textural Class	Gravel Analysis	Drainage (Mottles/Water Table)	Restrictive Horizon	Observations
0					suitable for drip irrigation
1	<u>III</u>	<u><30%</u>	<u>—</u>	<u>rock</u>	
2					
3					
4					
5					



CS 4-20-23

Soil Profile Hole Number: <u>2</u>					
Depth (ft)	Textural Class	Gravel Analysis	Drainage (Mottles/Water Table)	Restrictive Horizon	Observations
0 1 2 3 4 5	<u>III</u>	<u>L30%</u>	<u>-</u>	<u>rock</u>	<u>suitable for drip irrigation</u>

5. FEATURES OF SITE AREA:

Presence of 100 year flood zone

Presence of adjacent ponds, streams, water impoundments

Existing or proposed water well in nearby area

Organized sewage available to lot or tract

Recharge features within 150 feet

This site is suitable for a standard On-Site Sewage Facility

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

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

Signature of Site Evaluator: X Corrie Smith
 Print Name: Corrie Smith
 Date: 7-25-23



CS 9-20-23

Smith Septic Design and Consultation



REVISED

11:23 am, Dec 08, 2023

Designed for:
Ferrante Residence
1365 Powder Ridge
New Braunfels, TX



CS 12-6-23

Smith Septic Design and Consultation contact information:

Bucky Smith · 202 Reimer Ave · San Marcos, TX 78666 · 512-644-6980

smithsepticdesign@gmail.com

Client: Ferrante
Location: 1365 Powder Ridge

Date: 1/11/2024

Netafim Bioline: 17mm .5gph 24in spacing @ 2ips Flush

- Maximum Recommended Bioline Lateral Length: 300
1. Soil Texture or Perc Time:
 2. Soil Structure Shape:
 3. Soil Structure Grade:
 4. Infiltration Loading Rate (ILR): 0.2 gal/day/ft²
 5. Slope: %
 6. Infiltration Depth: in.
 7. Hydraulic Linear Loading Rate: 4 gal/day/ft
 8. Maximum Contour Length (MCL): 150 ft

9. Daily Flow
5.00 X 84.00 = 420.00
No. of Bedrooms Flow / Bedroom GPD

10. Dosing Area
420.00 / 0.20 = 2100.00
Daily Flow ILR sqft

11. Dosing A. Length
420.00 / 4.00 = 105.00
Daily Flow HLLR ft

12. Dosing A. Width
2100.00 / 120.00 = 17.50
Dosing Area Dosing A. Length ft

13a. Dosing Design Width & Length Adjustment
Design Width 17.50 ft Adjusted Dosing Length 120.00 ft

14. Required Dripper Line
2100.00 / 24 = 1050.00
Dosing Area Drip line Spacing ft

15. Required Zones
120.00 / 150.00 = 0.80 = 1
Dosing A. Length MCL+ Theoretical Design Zones

16. Zone Breakout Table

a.		b.		c.		d.		e.		f.		g.		h.		i.			j.			k.			l.			m.			n.			o.			p.		
Zone No.	Zone Dosing Area (sqft)	Linear Ft. of Tubing (ft)	Longest Lateral (ft)	Dosing Flow Rate (gpm)	Number of Distal Ends	Field Flush Rate (gpm)	Required Total Flow (RTF) (gpm)	Field Flushing Head (ft)	Force Main Supply Line			Return Flush Line			Static Lift (ft)	Total Field Head Loss (TFHL)																							
									Pipe Nom. Dia. (in)	Len. of Run (ft.)	Head Loss (ft)	Pipe Nom. Dia. (in)	Len. of Run (ft.)	Head Loss (ft)																									
Zone 1	2100.0	1050.0	210.0	5.3	5.0	8.0	13.3	29.5	1.00	45	4.2	1.00	105	3.8	6	43.54																							
Zone 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1			0.0			0.0		0.12																							
Zone 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1			0.0			0.0		0.12																							
Zone 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1			0.0			0.0		0.12																							
Zone 5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1			0.0			0.0		0.12																							
Zone 6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1			0.0			0.0		0.12																							

Note: (14c) Longest lateral may be looped one or more times and is a function of: (7) contour length, Bioline lateral length, #of distal ends, #of zones and (10) dosing area length.

15. Max Required Total Flow: 13.3
(Largest RTF Based on 14g.)
16. Max Total Field Head Loss: 43.5
(Largest TFHL Based on 14p.)

17. Headworks Head Loss: 18 ft
18. Miscellaneous Head Loss: 10 ft
19. Design Total Dynamic Head: 71.5 ft

20. Pump Data: MINIMUM Pump Specifications

Sta. Pipe Diameter: 0.5 HP Phase: Volts: 13.3 GPM @ 71.5 FT.
Note: Selected pump must produce 115 ft @ 12gpm or 35 gpm for filter flush depending on filter model. (auto-flush units only)

21. Dosing Schedule

Dosing Schedule			Peak Flow Adjustment			0.00		Minutes
Peak			Average					
Total Run Time:		80.0	Minutes	Total Run Time		80.0	Minutes	
Total Rest Time:		1360.0	Minutes	Total Rest Time		1360.0	Minutes	
Peak								
Zone 1	5.25	GPM	10.0	Min/Dose	52.5	Gal/Dose	8.0	Cycles/Day
Zone 2		GPM		Min/Dose	0.0	Gal/Dose	0.0	Cycles/Day
Zone 3	0.00	GPM		Min/Dose	0.0	Gal/Dose	0.0	Cycles/Day
Zone 4	0.00	GPM		Min/Dose	0.0	Gal/Dose	0.0	Cycles/Day
Zone 5	0.00	GPM		Min/Dose	0.0	Gal/Dose	0.0	Cycles/Day
Zone 6	0.00	GPM		Min/Dose	0.0	Gal/Dose	0.0	Cycles/Day
Avg								
Zone 1	5.25	GPM	10.0	Min/Dose	52.5	Gal/Dose	8.0	Cycles/Day
Zone 2	6.00	GPM	0.0	Min/Dose	0.0	Gal/Dose	0.0	Cycles/Day
Zone 3	0.00	GPM	0.0	Min/Dose	0.0	Gal/Dose	0.0	Cycles/Day
Zone 4	0.00	GPM	0.0	Min/Dose	0.0	Gal/Dose	0.0	Cycles/Day
Zone 5	0.00	GPM	0.0	Min/Dose	0.0	Gal/Dose	0.0	Cycles/Day
Zone 6	0.00	GPM	0.0	Min/Dose	0.0	Gal/Dose	0.0	Cycles/Day

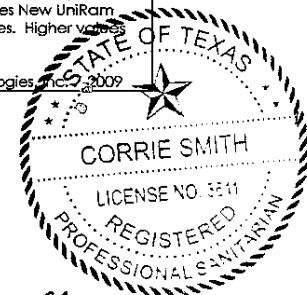
Portion of Peak Daily Flow

100%

Notes:

Bioline Must Be Selected at Top of Page. Required inputs go in YELLOW spaces and adjustments in BLUE spaces. Information for the record goes into GREY spaces. Incorporates New UniRam Type Emitter. Peak Flow Cycle Adjustment should be between 2 and 4 minutes. Higher values could result in damage to the drain field.

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1-11-24

REVISED

2:45 pm, Jan 11, 2024

Design Report
On-Site Sewage Facility
Aerobic Wastewater Treatment System
Drip Irrigation Application

Owner/Site Location:

Ferrante Residence
1365 Powder Ridge
New Braunfels, TX



Site Description & Evaluation:

A site evaluation indicated that the site is suitable for an aerobic drip irrigation system. The disposal area has a slope of less than 15% and there was no evidence of shallow groundwater. This residence will utilize a public water supply as a water source. All portions of the proposed OSSF must maintain at least a 10' setback from all water lines. This site does not lie in the regulated 100 year floodplain. There were no recharge features found within 150' of the proposed OSSF. Minimum separation distances as stated in Chapter 285 (TCEQ) On-Site Sewage Facilities, must be maintained.

Wastewater Design Flow:

This design is for a 5 bedroom residence with <4500 square feet. Low flow fixtures will be utilized. System is designed for 420 gallons per day.

Aerobic Treatment System Description:

This residence will utilize a Aeris Model D840 ATU. Wastewater from the residence will flow to a 500 gallon trash tank followed by 840 gallon per day aeration treatment tank. Effluent from the aeration tank will flow to a 900 gallon pump tank. Distribution to the Netafim Bioline tubing is through a SCH 40 PVC supply line. A 100 micron filter, pressure regulator, and check valves will be placed on the supply line. The SCH 40 PVC flush line will have a ball valve installed to set the required flushing velocity back into the pump chamber. Vacuum relief valves will be placed on the highest end of the drain field, one on the supply line and one on the flush line. The system will not be required to use chlorine as a disinfecting agent. Existing soil will be scarified and 12" of class III soil will be placed on the scarified soil. The drip tubing will be placed on the imported soil. A minimum of 6" of class III soil is required to cover the tubing. The drain field will be seeded or hydro mulched. **I certify that this OSSF meets the requirements of the existing CZP.**

Smith Septic Design and Consultation
Bucky Smith

Registered Sanitarian #3611

field will be seeded or hydro mulched. I certify that this OSSF meets the requirements of the existing CZP.

REVISED

11:23 am, Dec 08, 2023

REVISED

8:48 am, Jan 12, 2024

DESIGN SPECIFICATIONS

Daily Flow: 5 bedroom $\times 4500 \text{ sq ft} = 420 \text{ gpd}$

Required Disposal Area: $420 / .2 = 2100 \text{ sq. ft.}$

Length of Tubing: $2100 / 2 = 1050$ feet of tubing

Brand of Tubing: Netafim Bioline

Dosing Rate: Bioline tubing will flow 0.62GPH(0.01GPM) @ 35 PSI 1050 feet of tubing with emitters spaced every 2 feet = 525 emitters

$525 \text{ emitters} \times 0.01 = 5.25 \text{ GPM dosing rate}$

Distribution Pipe: 1" SCH 40 purple manufactured pipe

Pump Calculations and Pump Tank Float Settings

ATU Pump: Sta-Rite Dominator 1/2 hp

Pump Off: @ 7.0"

Pump On: @ 10.0"

Alarm On: @ 35.0"

Reserve Above Alarm: 305.64 gallons



CS 1-11-24

* owners requested system to be designed for more than the minimum required

REVISED

2:46 pm, Jan 11, 2024

Ferrante Residence
1365 Powder Ridge
New Braunfels, TX 78132

LEGEND

A: 5 Bedroom, Single Family Residence, < 4,500 Sq. Ft.

D: Aeris Aerobic Treatment Unit, Model D840

E: 1" SCH 4 PVC Supply Line

F: 1" SCH 40 PVC Return Line

G: 1,050 Linear Feet of Purple Netafim Drip Tubing
15 Lines @ 70' each, 5 runs @ 210'

H: Air/Vacuum Pressure Relief Valve

I: 100 Micron Disc Filter

J: 1.5" PVC Ball Valve: to remain open during dosing to allow continuous flushing

K: Waterline

L: Driveway

M: Pool

X: Profile Hole

PROPERTY NOTES

50' Building Setback on Front and Back Property Lines

10' Building setback on Side Property Lines

5' OSSF Setback from All Property Lines

5' Septic Tank Setback from Structure

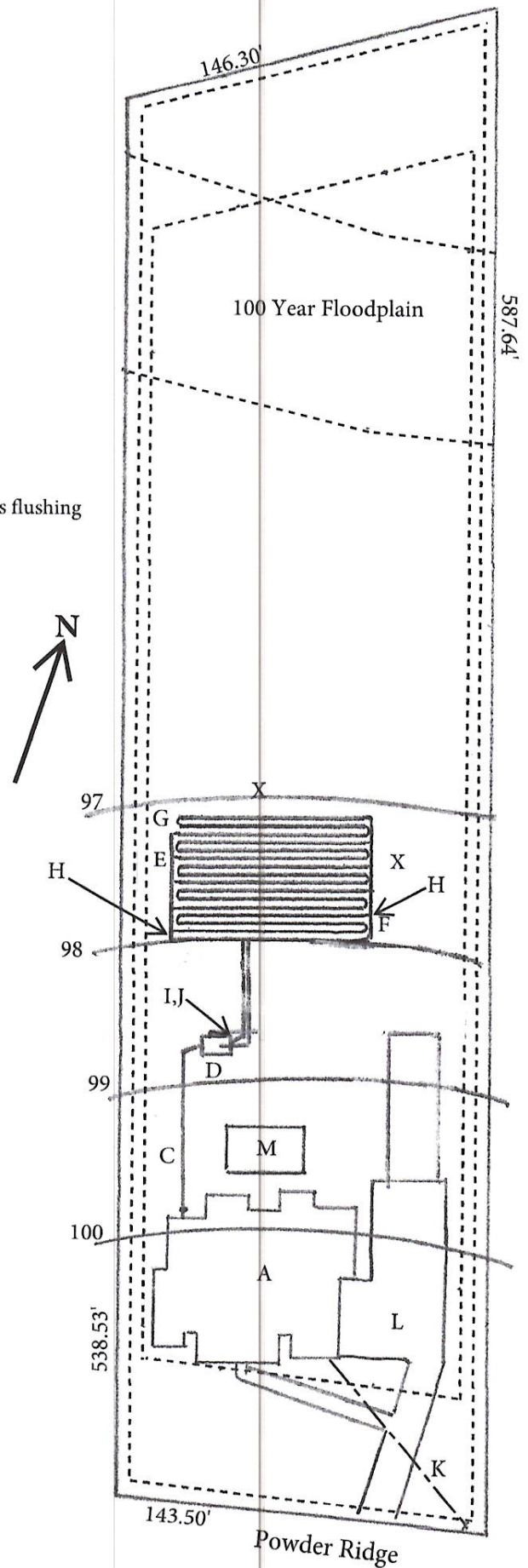
*There is Floodplain on the Property

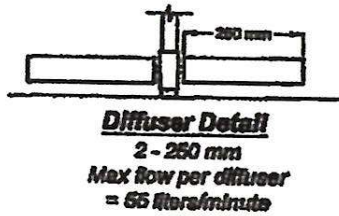
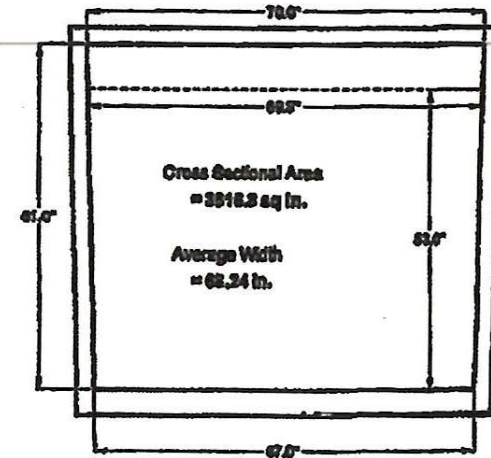
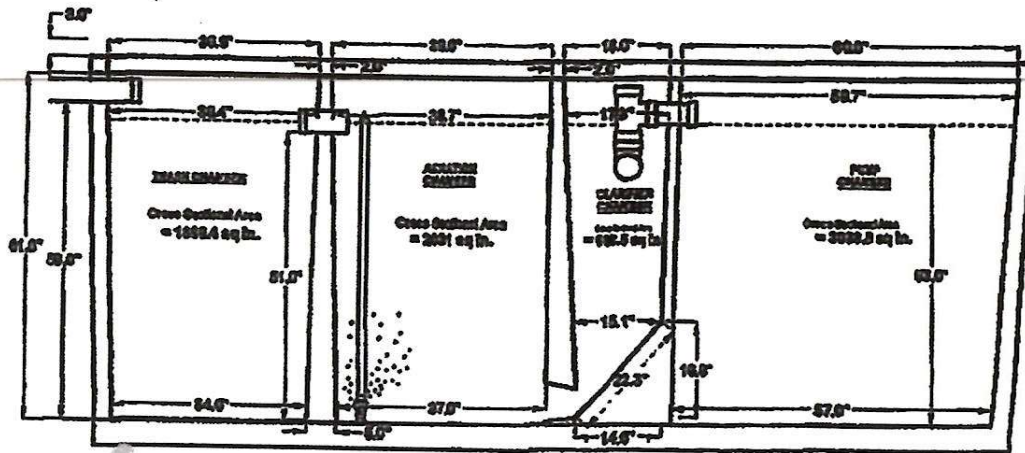
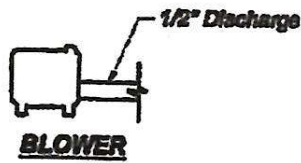
SCALE

1 INCH = 60 FEET



CS 1-11-24





Pump off @ 7"
 Pump on @ 10"
 Alarm on @ 35"
 Operating Capacity = 425 gallons
 Reserve Capacity = 306 gallons



CS 9-20-23

Title: Model D840 840 gallon per day Aerobic Treatment Unit	Company Name: Aeris Aerobics	Date: 3-1-2014
--	--	--------------------------

Tank Notes:

- The bottom of the excavation for the tanks shall be level and free of large rocks and debris.
- All tanks are to be set level on a layer, with a minimum thickness of 4 inches, of sand, sandy loam, clay loam, or pea gravel.
- Risers are required over all tank openings and must extend to the ground surface.
- Risers shall be permanently fastened to the tank lid.
- The riser lid shall screw down and have a lock or weight 65lbs.
- A secondary plug, cap, or other suitable restraint system shall be provided below the riser cap.
- All openings in the tank must be properly sealed to prevent the escape of wastewater, or to prevent the infiltration of water.
- Tanks must be filled with water for 24-hours to test for leaks and structural integrity.
- The tanks must be set low enough to have fall of at least 1/8" per foot from house to tank.
- PVC pipe from house to tank must be at least Sch.40 or SDR 26.

Additional Notes:

- Install audio-visual alarm for aerator and pump on separate breakers.
- The high water and air compressor alarms shall be audio/visual and mounted in a place that can be easily seen and heard when the alarms are activated.
- A hose bib must be installed in pump tank at tank inspection port.
- The chlorinator must be constructed to allow a chlorine residual of 0.1mg/1 in the pump tank for the period of time between scheduled inspections. The disinfected effluent must obey the standards as stated in §285, TCEQ, On-Site Sewage Facilities. Approved disinfections methods using chlorinated tablets, must use calcium hypochlorite that is properly labeled for wastewater disinfections.

Maintenance Requirements:

- The applicant must furnish to the regulatory authority a valid maintenance contracts with a certified maintenance company before a permit will be issued.
- The maintenance company will verify that the system is operating properly and that they will provide on-going maintenance of the installation.
- The initial contract will be a minimum of 2 years.
- A maintenance contract will authorize the Maintenance Company to maintain and repair the system as needed.
- The owner must continuously maintain a signed written contract with a valid maintenance company and shall submit a copy of the contract to the permitting authority at least 30 days prior to the date service will cease.

Affidavit:

- The applicant must file a certified copy of an affidavit at the County Clerk's office and filed in reference to the real property deed on which the surface application system is to be installed.
- The affidavit will state that the property shall not be transferred to a new owner without
(1) The new owner being advised that the property contains a surface application system for wastewater disposal;



CS 9-20-23

- (2) The permit issued to the previous owner of the property being transferred to the new owner in accordance with §285.20(5) of the TCEQ OSS Rules, i.e.; the permit will be issued in the name of the owner of the OSSF. Permits shall be transferred to the new owner automatically upon legal sale of the OSSF. The transfer of an OSSF permit under this section shall occur upon actual transfer of the property on which the OSSF is located unless the ownership of the OSSF had been severed from the property.
- (3) The new owners submitting a valid maintenance contract to the permitting authority.

Operation and Management Notes:

- The OSSF should not be treated as a normal city Sewer.
- Water conservation practices should be used at all times. Consult your local authorities for more information.
- Run the dishwasher with a full load whenever possible.
- Avoid running water continuously when brushing teeth, washing hands, or cleaning food and utensils.
- Repair any water leaks immediately, such as running toilets or leaky faucets.
- The owner is responsible for cleaning and pumping the septic tank, typically every 2 to 3 years depending on system usage.
- Do not use the toilet to dispose of tissue, feminine hygiene products, trash, cigarettes, etc.
- It is recommended that you do not use the garbage disposal and/or garbage grinders in the facility serviced by this system.
- Household chemicals should be used in moderation.
- According to §285, no water softener will be allowed to enter the OSSF.
- Chemical additives or the so-called enzymes should not be used during the operation of this system. Some of these additives may even be harmful to the facilities operation.
- Do not build driveways, storage buildings, decks, or other structures over the tank or disposal area.
- The OSSF must be protected from coming in contacts with vehicular traffic.
- A strong vegetative cover is essential for the proper operation of this system. The property owner is solely responsible for maintaining this vegetation. The irrigation area should be groomed by mowing on a regular basis.
- If you notice a problem with the spray patterns, or any of the alarms are activated, contact your maintenance provider immediately.
- Never place a greater wastewater load on your system than that prescribed by the design of the system (**420 gallons per day**).

*The proposed system has been designed generally following the minimum requirements under TCEQ §285 On-Site Sewage Facilities. The site evaluation and subsequent design are based on technical information currently available. The performance of the OSSF is not, and cannot be guaranteed even though all provisions of the Standards have been complied with. If failure should occur, additions to the OSSF may have to be made. In extreme cases a substitute system may be required. By accepting this design, the homeowner/contractor understands the aforementioned conditions, and agrees that the designer will not be liable for any more than the agreed upon design.



CS 9-20-23

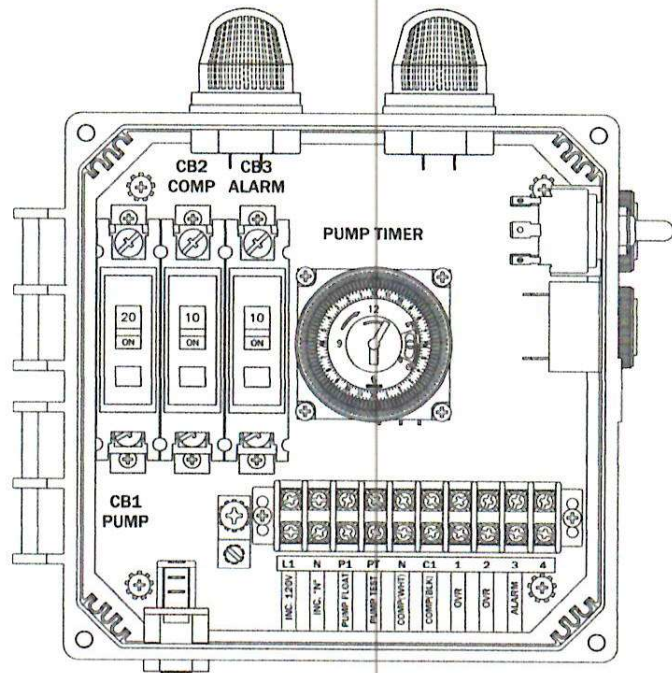


CONTROL PANEL

“A-AV” Model Aerobic Control Panel

Features & Benefits

- Circuit Breakers for Pump, Compressor & Alarm Circuits
- 24 Hr Timer w/15 minute intervals
- Large & Easy to Access Terminal Block
- Externally Mounted Run/Mute/Test Switch w/UV resistant sealing boot
- Externally Mounted Audible Alarm
- Rugged UV resistant Externally Mounted Alarm Light
- Durable Weather Resistant Hinged Poly Enclosure
- Labeled Back Panel
- Ground Lug
- Easily Replaceable Components
- Nema 4x Rating
- Color Coded Internal Wiring
- Built and Labeled to UL 508A Standard
- Works with most Aerobic Treatment Systems
- Provided with Wiring Schematic and Detailed Connection Diagram for Installer
- Mounting Feet for Enclosure
- Two year limited control panel warranty



(50B138-BIO-A-AV SHOWN)

NOTE: Comp. alarm switch located on enclosure door



Available Options

- Externally Mounted Pump Test Switch
- Externally Mounted Air Pressure Switch
- Auto-Dialer
- Locking Stainless Steel Latch
- Repeat Cycle Timer Option
- Mercury or Mechanical Float Switches for the Pump and High Water Alarm Circuits

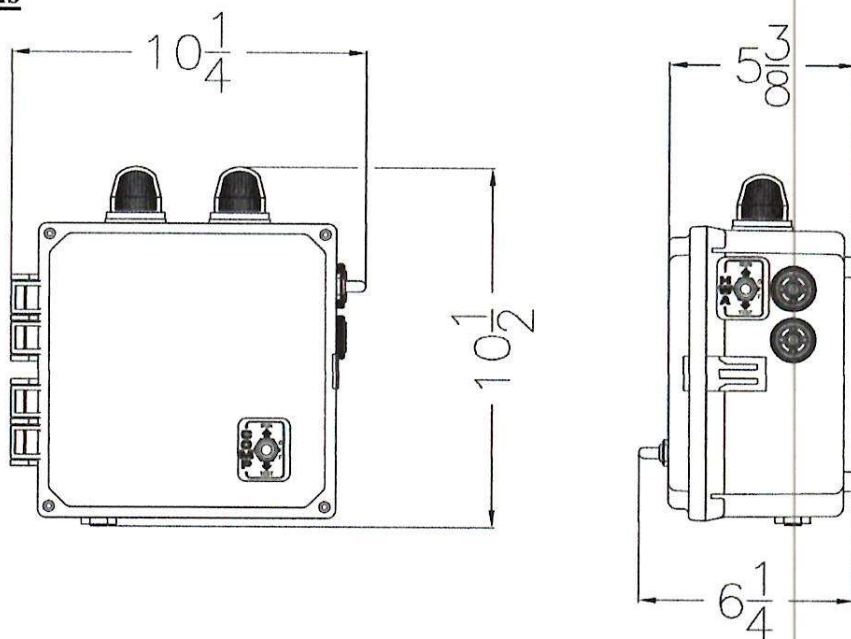


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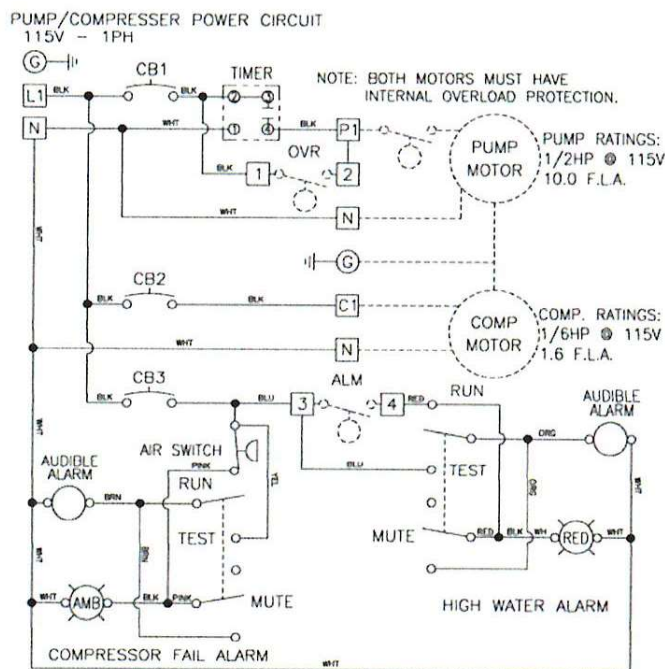
Note: Consult the factory for other available options. Also some options may require an increase in the enclosure size.

"A-AV" Model Aerobic Control Panel

Panel Dimensions



Wiring Schematic



CS 9-20-23

STA-RITE® ST.E.P Plus Series

4" high-head multi-stage submersible effluent pumps



The STEP Plus 4" submersible filtered effluent pumps in 10, 20, 30 and 50 GPM models offer dependable performance and value for high pressure filtered effluent applications.

These STEP Plus pumps will handle "dry run" conditions.

The 10, 20, 30 and 50 GPM are industry standard 3-3/4" in diameter.

APPLICATIONS

Filtered Effluent... for residential, commercial, and agricultural use.

SPECIFICATIONS

Shell – Stainless steel

Discharge –
10, 20 and 30 GPM models:
fiberglass-reinforced thermoplastic;
50 GPM models: stainless steel

Discharge Bearing – Nylatron®

Impellers – Engineered composite

Diffusers – Engineered composite

Suction Caps – Engineered composite
with stainless steel
wear ring

Thrust Pads – Proprietary spec.

Shaft and coupling – Stainless steel
300 grade

Intake – Engineered composite

Intake Screen – Polypropylene

Jacketed Cord – 600 Volt "SOOW"
or 300 Volt "SJOW" jacketed 10' leads
(2-wire with ground); optional 20', 30', 50'
and 100' lengths available

FEATURES

Proven "Floating Impeller" Staging System – Incorporates 1st-in-class performance, sand handling and thrust management staging system with the industry exclusive "dry-run" design element. Reinforced engineered composites and stainless steel, offering high resistance to corrosion and abrasion.

Discharge – Tested-tough, fiberglass-reinforced thermoplastic, with proven internal check valve. Large wrench flats and rope hole.

Shell – Stainless steel pump shell offers high corrosion resistance.

Shaft – Hexagonal 3/8", 300-grade stainless steel pump shaft; offers generous impeller drive surfaces.

Shaft Bearing – Exclusive self-lubricating Nylatron bearing resists wear surface from sand.

Motor Bracket – Tested-tough, fiberglass-reinforced thermoplastic; incorporates an integral suction screen.



9-20-23

In order to provide the best products possible, specifications are subject to change.

CS 9-20-23



STA-RITE® ST.E.P Plus Series

4" high-head multi-stage submersible effluent pumps

ORDERING INFORMATION

CATALOG NUMBER	HP	STAGES	MAX. LOAD AMPS	VOLTS	PHASE/ CYCLES	CORD LENGTH	PUMP END LENGTH	PUMP + MOTOR LENGTH
STEP10	1/2	7	12.0	115	1/60	10'	13"	21-1/2"
STEP10X100FT-05121	1/2	7	12.0	115	1/60	100'	13"	21-1/2"
STEP10X30FT	1/2	7	12.0	115	1/60	30'	13"	21-1/2"
STEP10X50FT	1/2	7	12.0	115	1/60	50'	13"	21-1/2"
STEP20	1/2	5	12.0	115	1/60	10'	13-1/4"	22-1/4"
STEP20X30FT	1/2	5	12.0	115	1/60	30'	13-1/4"	22-1/4"
STEP20X50FT	1/2	5	12.0	115	1/60	50'	13-1/4"	22-1/4"
STEP30-05121	1/2	3	9.5	115	1/60	10'	11-1/2"	22-1/2"
STEP30X30-05121	1/2	3	12.0	115	1/60	30'	11-1/2"	22-1/2"
STEP30X50-05121	1/2	3	12.0	115	1/60	50'	11-1/2"	22-1/2"
STEP30-05221	1/2	3	4.7	230	1/60	10'	11-1/2"	22-1/2"
STEP30X100-05221	1/2	3	4.7	230	1/60	100'	11-1/2"	22-1/2"
STEP30X30-05221	1/2	3	4.7	230	1/60	30'	11-1/2"	22-1/2"
STEP30X50-05221	1/2	3	4.7	230	1/60	50'	11-1/2"	22-1/2"
STEP30-10221	1	5	9.1	230	1/60	10'	14"	27-1/2"
STEP30X100-10221	1	5	9.1	230	1/60	100'	14"	27-1/2"
STEP30X30-10221	1	5	9.1	230	1/60	30'	14"	27-1/2"
STEP30X50-10221	1	5	9.1	230	1/60	50'	14"	27-1/2"
STEP30-15221	1-1/2	6	11.0	230	1/60	10'	15-1/4"	30-1/4"
STEP30X100-15221	1-1/2	6	11.0	230	1/60	100'	15-1/4"	30-1/4"
STEP30X30-15221	1-1/2	6	11.0	230	1/60	30'	15-1/4"	30-1/4"
STEP30X50-15221	1-1/2	6	11.0	230	1/60	50'	15-1/4"	30-1/4"
STEP50-05121	1/2	2	9.1	115	1/60	10'	11-1/4"	21-1/2"
STEP50-05221	1/2	2	9.1	230	1/60	10'	11-1/4"	21-1/2"
STEP50-10221	1	3	9.1	230	1/60	10'	13-1/4"	26-3/4"
STEP50X100FT-10221	1	3	9.1	230	1/60	100'	13-1/4"	26-3/4"
STEP50X30FT-10221	1	3	9.1	230	1/60	30'	13-1/4"	26-3/4"
STEP50X50FT-10221	1	3	9.1	230	1/60	50'	13-1/4"	26-3/4"
STEP50-15221	1-1/2	4	11.0	230	1/60	10'	15-1/4"	30-1/4"
STEP50X100FT-15221	1-1/2	4	11.0	230	1/60	100'	15-1/4"	30-1/4"
STEP50X30FT-15221	1-1/2	4	11.0	230	1/60	30'	15-1/4"	30-1/4"
STEP50X50FT-15221	1-1/2	4	11.0	230	1/60	50'	15-1/4"	30-1/4"

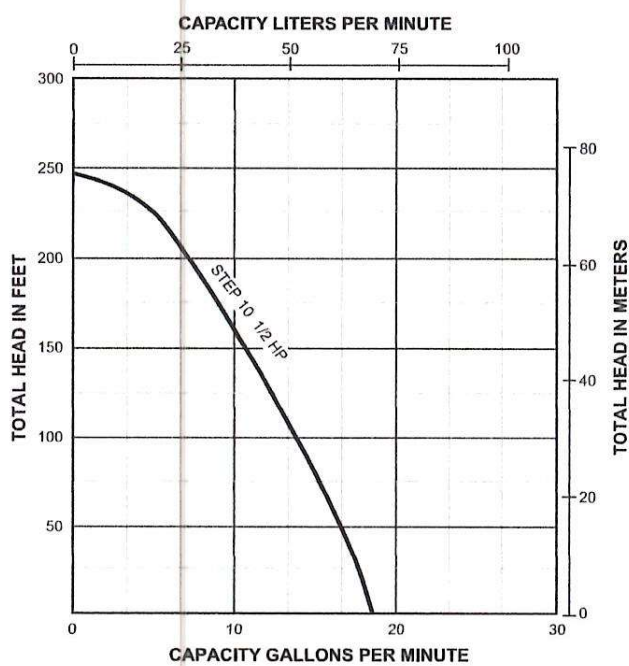
CB 9-20-23



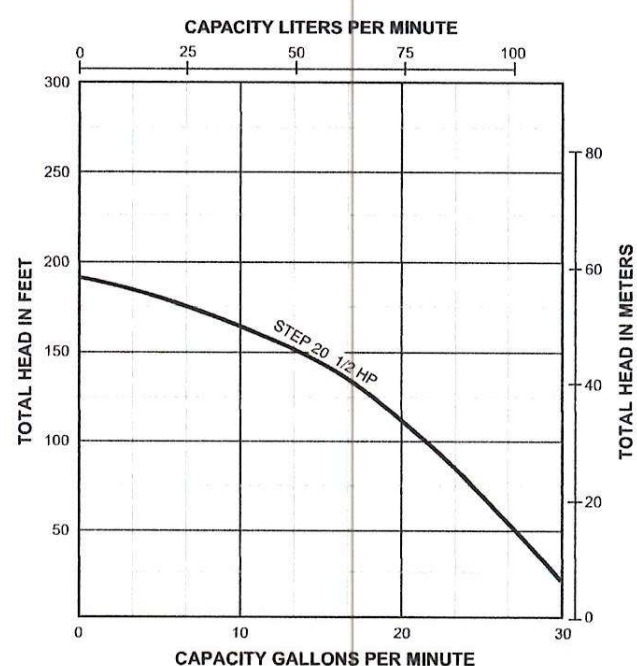
STA-RITE® ST.E.P Plus Series

4" high-head multi-stage submersible effluent pumps

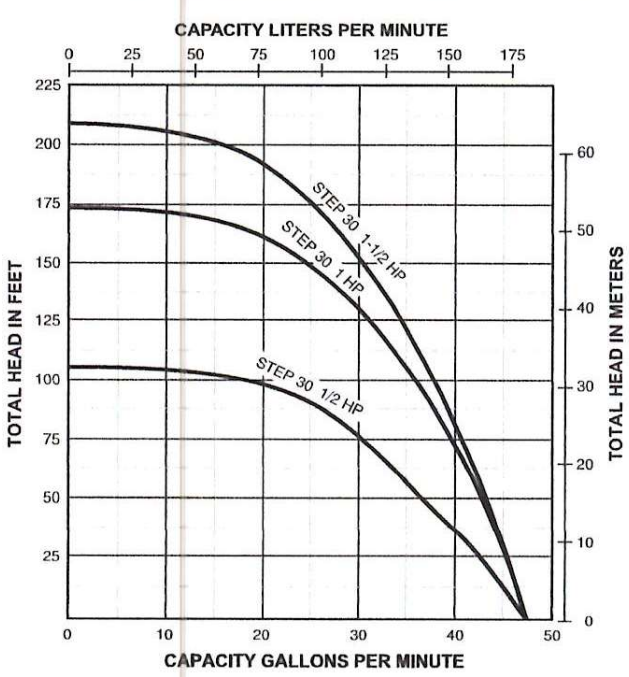
PUMP PERFORMANCE - 10 GPM



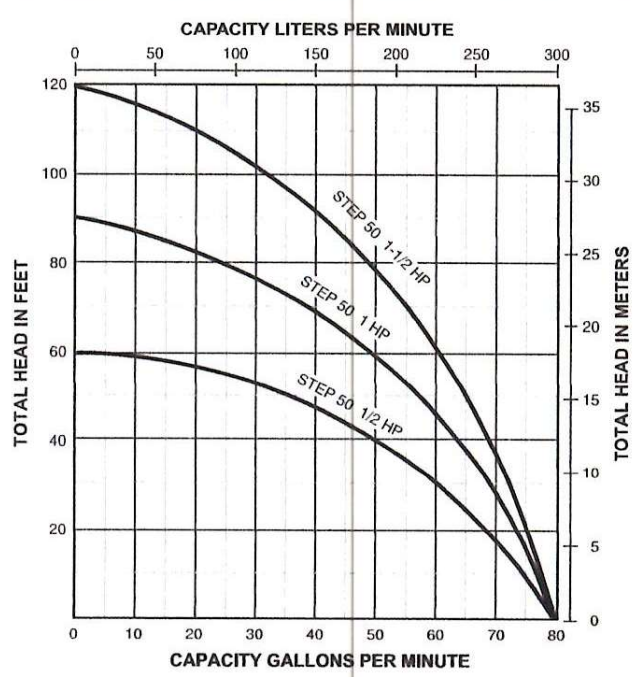
PUMP PERFORMANCE - 20 GPM



PUMP PERFORMANCE - 30 GPM



PUMP PERFORMANCE - 50 GPM



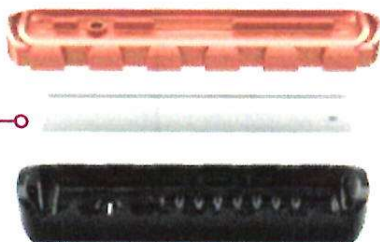
WASTEWATER DIVISION



BIOLINE® DRIPLINE

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

Copper oxide is impregnated into the emitter serving as a natural antimicrobial agent to help prevent microbial activity.



PRODUCT ADVANTAGES

- Pressure compensation - all drippers deliver equal flow, even on sloped or rolling terrain.
- Unique flow path - Turbonet technology provides more control of water and a high resistance to clogging.
- Continuous self-flushing dripper design - flushes debris, as it is detected - throughout operation, not just at the beginning or end of a cycle. Ensures uninterrupted dripper operation.
- Single hole dripper outlet from tubing:
 - Better protection against root intrusion
 - Allows the dripline to be used in subsurface applications without need for chemical protection
- Drippers capture water flow from the center of the tubing - ensures that only the cleanest flow enters the dripper.
- Built-in physical root barrier - drippers are protected from root intrusion without the need for chemical protection.
- Three dripper flow rates - provides the broadest range of flow rates available. Allows the designer to match the dripline to any soil or slope condition.
- Bioline tubing is completely wrapped in purple - easily identifying it for non-potable use, regardless of how the tubing is installed.
- Cupron copper oxide is impregnated at specific concentrations, our patent-pending process, ensuring it remains effective throughout the life of the product.
- Bioline can be installed on-surface, under cover or subsurface.
- No special storage requirements - does not degrade if stored outdoors.

APPLICATIONS

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

SPECIFICATIONS

- Dripper flow rates: 0.4, 0.6 or 0.9 GPH
- Dripper spacings: 12", 18" or 24" dripper spacings and blank tubing
- Pressure compensation range: 7 to 58 psi
- Maximum recommended system pressure: 58 psi
- Tubing diameter: 0.66" OD, 0.56" ID
- Tubing color: Purple color indicates non-potable
- Coil lengths: 500' or 1,000' (Blank tubing in 250')
- Recommended filtration: 120 mesh
- Bending radius: 7"
- UV resistant
- Tubing material: Linear low-density polyethylene

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

BIOLINE DRIPLINE

MAXIMUM LENGTH OF A SINGLE LATERAL WITH 3.0 fps FLUSH VELOCITY ADDITIONAL FLOW OF 2.0 GPM REQUIRED PER LATERAL TO ACHIEVE 3 fps

DRIPPER SPACING	12"			18"			24"		
	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH
INLET PRESSURE									
15	102	94	84	136	127	113	161	151	137
25	151	136	118	203	184	161	245	223	197
35	193	171	146	260	232	200	315	283	245
40	211	186	158	286	254	218	347	311	267
45	228	200	169	310	274	233	377	335	287
Flow per 100' (GPM / GPH)	0.67/40	1.02/61	1.53/92	0.44/26.7	0.66/41	1.02/61	0.34/20	0.51/31	0.77/46

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

MAXIMUM LENGTH OF A SINGLE LATERAL WITH 2.5 fps FLUSH VELOCITY ADDITIONAL FLOW OF 2.5 GPM REQUIRED PER LATERAL TO ACHIEVE 2.5 fps

DRIPPER SPACING	12"			18"			24"		
	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH
INLET PRESSURE									
15	128	115	100	172	155	136	205	187	165
25	183	161	137	248	220	188	301	268	231
35	228	198	166	310	272	229	379	333	283
40	248	214	178	338	295	247	413	362	305
45	266	229	190	364	316	263	447	389	327
Flow per 100' (GPM / GPH)	0.67/40	1.02/61	1.53/92	0.44/26.7	0.66/41	1.02/61	0.34/20	0.51/31	0.77/46

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

MAXIMUM LENGTH OF A SINGLE LATERAL WITH 2.0 fps FLUSH VELOCITY ADDITIONAL FLOW OF 1.6 GPM REQUIRED PER LATERAL TO ACHIEVE 2.0 fps

DRIPPER SPACING	12"			18"			24"		
	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH
INLET PRESSURE									
15	161	141	119	217	191	164	263	233	201
25	221	190	157	302	261	218	369	321	270
35	269	229	187	370	316	260	455	391	324
40	290	246	200	399	340	278	493	421	347
45	310	261	212	427	362	296	527	449	369
Flow per 100' (GPM / GPH)	0.67/40	1.02/61	1.53/92	0.44/26.7	0.66/41	1.02/61	0.34/20	0.51/31	0.77/46

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

MAXIMUM LENGTH OF A SINGLE LATERAL WITH 1.5 fps FLUSH VELOCITY ADDITIONAL FLOW OF 1.2 GPM REQUIRED PER LATERAL TO ACHIEVE 1.5 fps

DRIPPER SPACING	12"			18"			24"		
	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH
INLET PRESSURE									
15	201	171	140	275	235	194	337	289	241
25	266	222	179	366	308	251	453	383	313
35	316	262	210	437	365	295	543	455	369
40	337	280	223	469	391	313	583	487	393
45	358	296	235	497	413	331	619	517	415
Flow per 100' (GPM / GPH)	0.67/40	1.02/61	1.53/92	0.44/26.7	0.66/41	1.02/61	0.34/20	0.51/31	0.77/46

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

MAXIMUM LENGTH OF A SINGLE LATERAL WITH 1.0 fps FLUSH VELOCITY ADDITIONAL FLOW OF 0.8 GPM REQUIRED PER LATERAL TO ACHIEVE 1.0 fps

DRIPPER SPACING	12"			18"			24"		
	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH
INLET PRESSURE									
15	249	205	163	344	285	228	427	355	285
25	315	258	203	440	361	286	549	453	359
35	367	299	234	513	419	331	643	527	417
40	389	316	248	545	445	350	683	559	441
45	409	332	260	574	468	367	721	589	463
Flow per 100' (GPM / GPH)	0.67/40	1.02/61	1.53/92	0.44/26.7	0.66/41	1.02/61	0.34/20	0.51/31	0.77/46

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

MAXIMUM LENGTH OF A SINGLE LATERAL WITH 0.5 fps FLUSH VELOCITY ADDITIONAL FLOW OF 0.4 GPM REQUIRED PER LATERAL TO ACHIEVE 0.5 fps

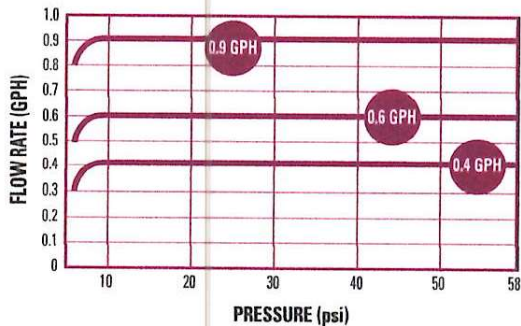
DRIPPER SPACING	12"			18"			24"		
	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH
INLET PRESSURE									
15	301	242	188	422	341	265	531	429	335
25	369	296	228	520	418	323	655	527	409
35	421	337	260	595	476	368	749	603	467
40	443	354	273	626	501	387	790	635	491
45	464	371	285	656	524	404	829	665	513
Flow per 100' (GPM / GPH)	0.67/40	1.02/61	1.53/92	0.44/26.7	0.66/41	1.02/61	0.34/20	0.51/31	0.77/46

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

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

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

DRIPPER FLOW RATE VS. PRESSURE



Between 0 and 7 psi, the dripper functions as a turbulent flow emitter, ensuring that the nominal design flow is not exceeded at system start-up.

FLOW PER 100 FEET

DRIPPER SPACING	0.4 GPH DRIPPER		0.6 GPH DRIPPER		0.9 GPH DRIPPER	
	GPH	GPM	GPH	GPM	GPH	GPM
12"	40.0	0.67	61.0	1.02	92.0	1.53
18"	26.7	0.44	41.0	0.68	61.0	1.02
24"	20.0	0.34	30.0	0.51	46.0	0.77

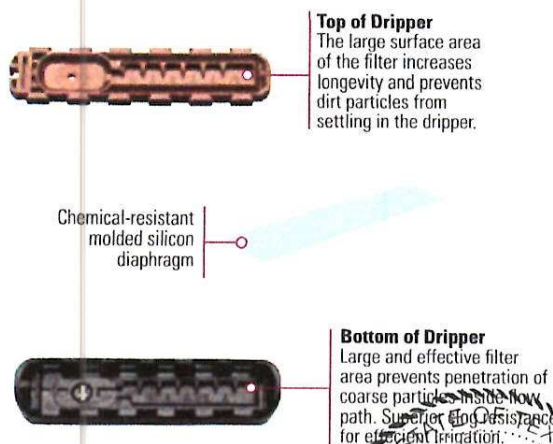


CS 9-20-23

Netafim sets the bar for innovation in drip irrigation with copper. Cupron® copper oxide-based technology allows for maximum performance. The integration of copper oxide in the internal emitter, and the unique patented emitter design with physical root barrier provides two levels of protection, giving your system the protection it needs to fight against root intrusion.

- Cupron copper oxide provides one of two layers of defense against root intrusion, a physical root barrier inside the dripper provides the other.
- Cupron copper oxide technology will not wash out, wear off or leach out; remaining effective throughout the life of the product.
- Cupron copper oxide is approved for use by the EPA ensuring peace of mind.

EXPLODED VIEW OF BIOLINE DRIPPER



BIOLINE DRIPPER OPERATION

Bioline drippers are pressure compensating - delivering the water uniformly into the soil for further treatment or for reuse by the landscape. These unique drippers allow the tubing to be installed on flat topography or steep slopes.

Bioline drippers are protected against microbial activity. Copper oxide impregnated XR drippers – Copper, a natural antimicrobial material, is used to help prevent microbial activity.

Netafim drippers are 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.

SPECIFYING INFORMATION

A Bioline Dripline = **08WRAM**

SAMPLE MODEL NUMBER

08WRAM.6-24 V

1 **DRIPPER FLOW RATE**
0.4 GPH = .4
0.6 GPH = .6
0.9 GPH = 1

2 **DRIPPER SPACING**
12" = 12
18" = 18
24" = 24

3 **COIL LENGTH**
500' = V500
1,000' = V

BLANK Tubing Model Number: 250' = 08WRAM-250

ORDERING INFORMATION

FLOW RATE	DRIPPER SPACING	COIL LENGTH	MODEL NUMBER
0.4 GPH	12"	1,000' 500'	08WRAM.4-12V 08WRAM.4-12V500
0.4 GPH	18"	1,000' 500'	08WRAM.4-18V 08WRAM.4-18V500
0.4 GPH	24"	1,000' 500'	08WRAM.4-24V 08WRAM.4-24V500
0.6 GPH	12"	1,000' 500'	08WRAM.6-12V 08WRAM.6-12V500
0.6 GPH	18"	1,000' 500'	08WRAM.6-18V 08WRAM.6-18V500
0.6 GPH	24"	1,000' 500'	08WRAM.6-24V 08WRAM.6-24V500
0.9 GPH	12"	1,000' 500'	08WRAM1-12V 08WRAM1-12V500
0.9 GPH	18"	1,000' 500'	08WRAM1-18V 08WRAM1-18V500
0.9 GPH	24"	1,000' 500'	08WRAM1-24V 08WRAM1-24V500
Blank Tubing 17mm		250'	08WRAM-250



CS 9-20-23

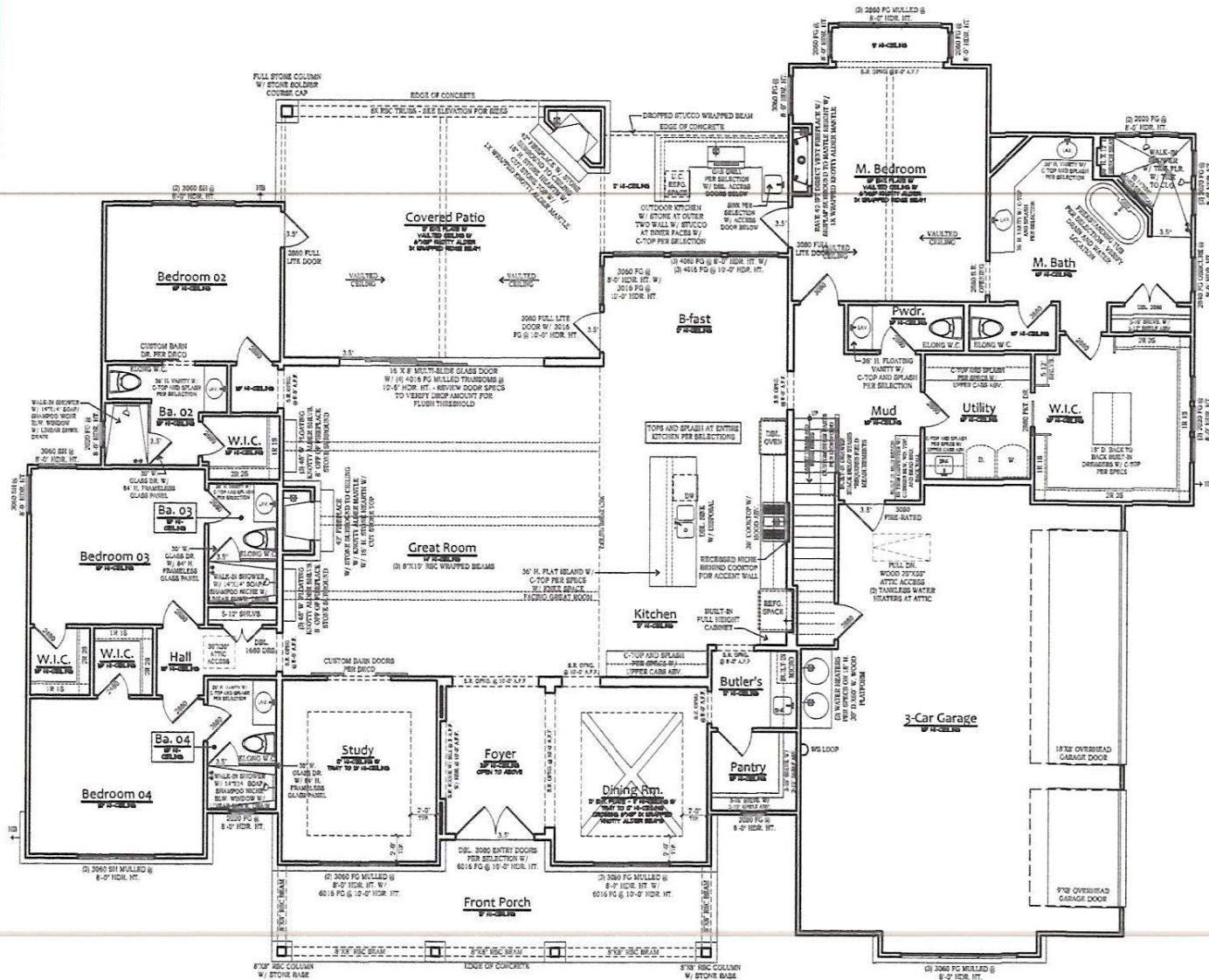
Standard GEH Insulation Package
R-11 Batts at Midfloor

Natural Gas Locations

- (1) Cooktop
- (2) Water Heaters
- (2) Furnaces
- (1) Interior Fireplace - Great Room
- (1) Interior Fireplace - Master Bedroom
- (1) Exterior Fireplace
- (1) BBQ

SQUARE FOOTAGE CHART		
AREAS	FRAME	w/ MASONRY
1st FLR. LIVING	3,538	3,566
2nd FLR. LIVING	542	542
2nd FLR. STOR.	173	173
TOTAL LIVING	4,253	4,281
3-CAR GARAGE	868	876
COURT PATIO	638	638
ENTRY PORCH	262	262
2nd FLR. BALCONY	104	104
TOTAL FRAME	6,125	6,163
TOTAL SLAB		5,342

GEH SUPER
Cameron Cohen
512.855.3224



1ST FLOOR PLAN
SCALE: 1/8"=1'-0"

DESIGNER CONTACT:

DAVID PAGE DESIGN
OFFICE: 512-788-7443
RELEASER: 512-788-7443
COST: 512-788-7443

GRAND ENDEAVOR

BUILDER CONTACT:

GRAND ENDEAVOR HOMES
OFFICE: 512-788-7443 (400)
CONSTRUCTION: 512-788-7443
WARRANTY: 512-788-7443
URL: WWW.GRANDENDEAVOR.COM

DETAILS:

FERRANTE RESIDENCE

1201 POWER ROAD
LITTLE ROCK, AR 72205
COUNTY: CLAY

ISSUE DATE:

CONSTRUCTION DOCUMENTS
ISSUED: 07-01-2008
CONSTRUCTION DOCUMENTS
ISSUED: 07-01-2008
CONSTRUCTION DOCUMENTS
ISSUED: 07-01-2008

CONTENTS:

1ST FLOOR PLAN

FILE INFO:

GRAND ENDEAVOR HOMES
P.O. BOX 10000
DATE: 07-01-2008

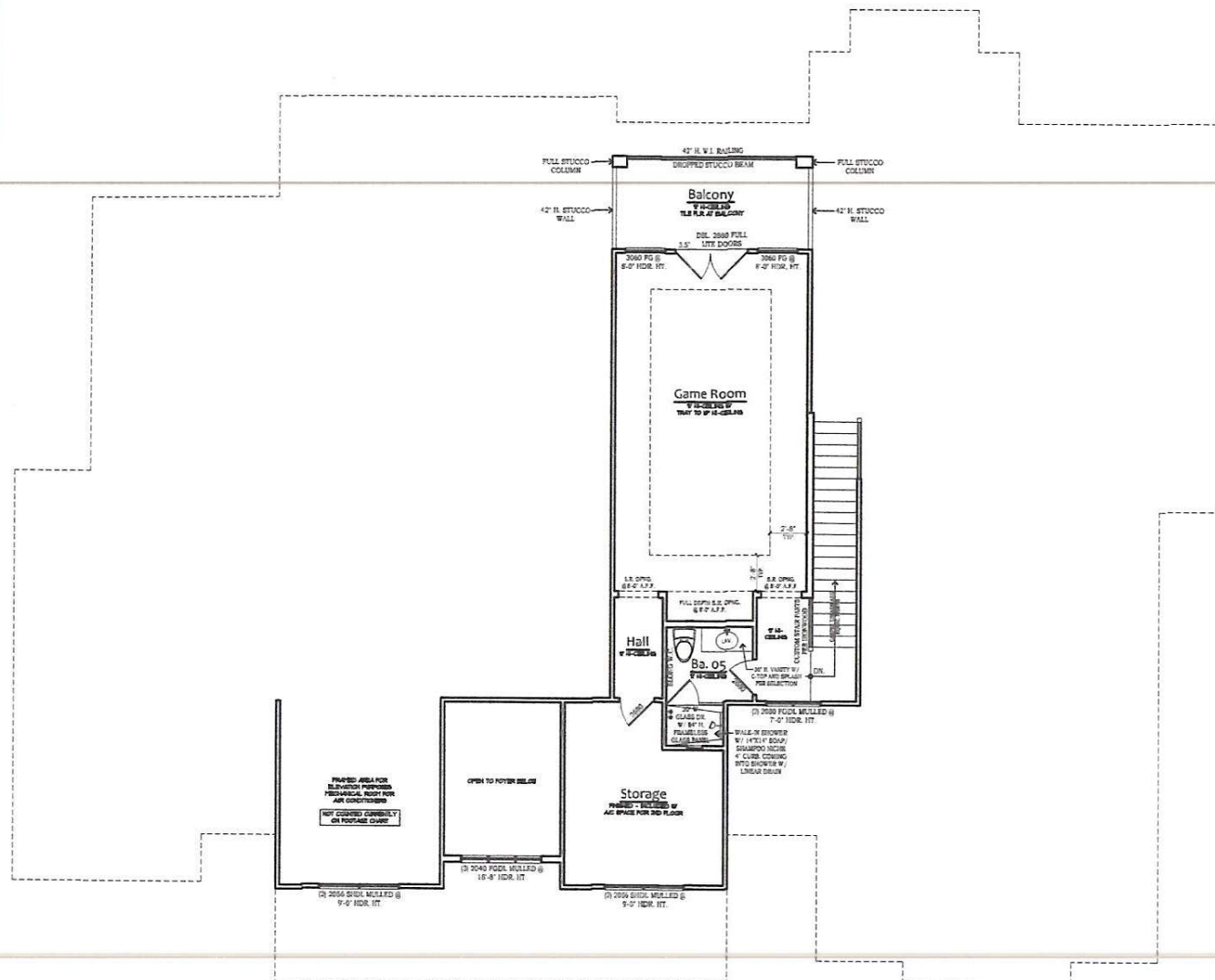
SHEET:

A2.3

R-11 Betts at Midfloor

(1) Cooktop

- (2) Water Heaters
- (2) Furnaces
- (1) Interior Fireplace - Great Room
- (1) Interior Fireplace - Master Bedroom
- (1) Exterior Fireplace
- (1) BBQ



GEH SUPER
Cameron Cohen
512.855.3224



DATE PAGE INDEX
OFFER 513-700-3423
NEW BRANFORD 2 10042
CLARK COUNTY

GRAND
ENDEAVOR
BOOKS

OVERSEAS EMPLOYMENT
OFFICE 913-796-1122 (1000)
COUNTY 1122
WILLIAMSON COUNTY
WWW.OVERSEASEMPLOYMENT.COM

**FERRANTE
RESIDENCE**
**1141 FORD RD
APT. 204, WILSON, CALIF. 95709
OSHA COUNTY, ILL.**

INFORMATION DOCUMENT:	ISSUED SEP. 17 OCT. 2002
INFORMATION DOCUMENT:	ISSUED SEP. 07 NOV. 2002
INFORMATION DOCUMENT:	ISSUED SEP. 07 FEB. 2003
INFORMATION DOCUMENT:	ISSUED SEP. 20 FEB. 2003

CONTENTS:

**2ND FLOOR PLAN
NOTES**

FILE INFO:
GRAND JUROR NAME
FILE NUMBER / FILING
DATE 02-20-2005

SHEET:

A2.4

2ND FLOOR PLAN
SCALE: 1/8" = 1'-0"

[illegible]

SQUARE FOOTAGE CHART		
AREAS	FRAME	W/ MASONRY
CASITA LIVING	560	560
2-CAR GARAGE	668	560
COYD PATIO	113	113
TOTAL FRAME	1634	
TOTAL SLAB		1637
OPTIONAL DECK		76

From: [Ritzen, Brenda](#)
To: [Diandra Linares](#)
Subject: RE: 115853 - 1488 Stahlman Way
Date: Thursday, January 4, 2024 4:16:00 PM
Attachments: [image001.png](#)
[image002.png](#)

Diandra,

The permit file has been updated.

Thank you,



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

From: Diandra Linares <diandra@stwastewater.com>
Sent: Thursday, January 4, 2024 4:08 PM
To: Ritzen, Brenda <rabbjr@co.comal.tx.us>
Subject: RE: 115853 - 1488 Stahlman Way

This email originated from outside of the organization.

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

- Comal IT

My fault, sent you the wrong one. Here you go.

Diandra Linares



Authorized Jet Distributor - Home and Commercial
Engineering Services - Designs - Site Evaluations

From: [Ritzen, Brenda](#)
To: [Bucky Smith](#)
Subject: RE: 1365 Powder Ridge revision (Ferrante)
Date: Friday, January 12, 2024 8:53:00 AM
Attachments: [Page from 116949.pdf](#)
[image001.png](#)

Bucky,



Would you be able to resend the attached page? The numbers are hard to read.

Thank you,



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

From: Bucky Smith <smithsepticdesign@gmail.com>
Sent: Thursday, January 11, 2024 3:57 PM
To: Ritzen, Brenda <rabbjr@co.comal.tx.us>
Subject: Re: 1365 Powder Ridge revision (Ferrante)

This email originated from outside of the organization.

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

- Comal IT

On Thu, Jan 11, 2024 at 2:52 PM Ritzen, Brenda <rabbjr@co.comal.tx.us> wrote:

Bucky,

The attached pages must also be revised.

Thank you,

VOID

REVISED

8:48 am, Jan 12, 2024

Client: Ferrante
Location: 1365 Powder Ridge

Date: 9/14/2023

Netafim Bioline: 17mm .6gph 24in spacing @ 2ips Flush

- Maximum Recommended Bioline Lateral Length: 300 ft
1. Soil Texture or Perc Time: III
2. Soil Structure Shape: _____
- Soil Structure Grade: _____
3. Infiltration Loading Rate (ILR): 0.2 gal/dia/ft²
4. Slope: _____ %
5. Infiltration Depth: _____ in.
6. Hydraulic Linear Loading Rate: 4 gal/dia/ft
7. Maximum Contour Length (MCL): 150

8. Daily Flow

$$\frac{5.00}{\text{No. of Bedrooms}} \times \frac{84.00}{\text{Flow / Bedroom}} = \frac{42.00}{\text{GPD}}$$

9. Dosing Area

$$\frac{42.00}{\text{Daily Flow}} / \frac{0.2}{\text{ILR}} = \frac{210.00}{\text{sqft}}$$

10. Dosing A. Length

$$\frac{42.00}{\text{Daily Flow}} / \frac{4.0}{\text{HLLR}} = \frac{10.50}{\text{ft}}$$

11. Dosing A. Width

$$\frac{210.00}{\text{Dosing Area}} / \frac{120.00}{\text{Dosing A. Length}} = \frac{1.75}{\text{ft}}$$

11a. Dosing Design Width & Length Adjustment

$$\text{Design Width: } 17.60 \text{ ft} \quad \text{Adjusted Dosing Length: } 120.00 \text{ ft}$$

12. Required Dripper Line

$$\frac{210.00}{\text{Dosing Area}} / \frac{24}{\text{Drip line Spacing}} = \frac{1.75}{\text{ft}}$$

13. Required Zones

$$\frac{120.00}{\text{Dosing A. Length}} / \frac{150.00}{\text{MCL+}} = \frac{0.80}{\text{Theoretical}} = \frac{1}{\text{Design Zones}}$$

14. Zone Breakout Table

Zone No.	Zone Dosing Area (sqft)	Linear Ft. of Tubing (ft)	Longest Lateral (ft)	Dosing Flow Rate (gpm)	Number of Distal Ends	Field Flush Rate (gpm)	Required Total Flow (RTF) (gpm)	Field Flushing Head (ft)	Force Main Supply Line			Return Flush Line			Static Lift (ft)	Total Field Head Loss (TFHL)
									Pipe Nom. Dia. (in)	Len. of Run (ft)	Head Loss (ft)	Pipe Nom. Dia. (in)	Len. of Run (ft)	Head Loss (ft)		
Zone 1	2100.0	105.0	210.0	5.0	5.0	8.0	25.0	25.0	1.00	90	8.4	1.00	120	4.4	6	48.7
Zone 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0			0.0		0.0
Zone 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0			0.0		0.0
Zone 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0			0.0		0.0
Zone 5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0			0.0		0.0
Zone 6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0			0.0		0.0

Note: (14c) Longest lateral may be divided one or more times and is a function of: (7) contour length, bioline lateral length, # of distal ends, # of zones and (10) dosing area length.

15. Max Required Total Flow: 13.3 (Largest RTF Based on 14g.)
16. Max Total Field Head Loss: 48.7 (Largest TFHL Based on 14p.)

17. Headworks Head Loss: 18 ft

18. Miscellaneous Head Loss: 10 ft

19. Design Total Dynamic Head: 76.3 ft

20. Pump Data: MINIMUM Pump Specifications

Sta-Rite Dominator Pump Model Selected
0.5 HP Phase Volts 115 GPM @ 76.3 FT.

Note: Selected pump must produce 115 ft @ 12gpm or 35 gpm for filter flush depending on filter model. (auto-flush units only)

21. Dosing Schedule

Peak Flow Adjustment: 0.00 Minutes

Peak
Total Run Time: 8:10 Minutes
Total Rest Time: 14:10 Minutes

Average
Total Run Time: 8:00 Minutes
Total Rest Time: 13:10 Minutes

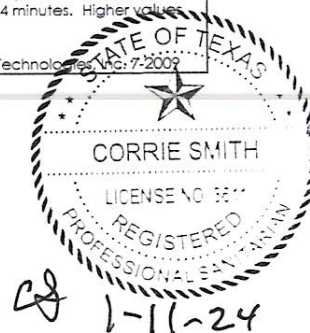
Zone	GPM	Min/Dose	Gal/Dose	Cycles/Day
Zone 1	5.0	10.0	50.0	4.0
Zone 2	0.0	0.0	0.0	0.0
Zone 3	0.0	0.0	0.0	0.0
Zone 4	0.0	0.0	0.0	0.0
Zone 5	0.0	0.0	0.0	0.0
Zone 6	0.0	0.0	0.0	0.0

Portion of Peak Daily Flow

Notes:

Bioline Must Be Selected at Top of Page. Required inputs go in **YELLOW** spaces and adjustments in **BLUE** spaces. Information for the record goes into **GREY** spaces. Incorporates New UniRam Type Emitter. Peak Flow Cycle Adjustment should be between 2 and 4 minutes. Higher values could result in damage to the drain field.

Copyright JNM Technologies LLC 7-2009



CS 1-11-24

From: [Ritzen, Brenda](#)
To: ["Bucky Smith"; robert keltner](#)
Subject: RE: 1365 Powder Ridge revision (Ferrante)
Date: Thursday, January 11, 2024 2:52:00 PM
Attachments: [Pages from 116949.pdf](#)
[image001.png](#)

Bucky,

The attached pages must also be revised.

Thank you,



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

From: Bucky Smith <smithsepticdesign@gmail.com>
Sent: Thursday, January 11, 2024 2:34 PM
To: Ritzen, Brenda <rabbjr@co.comal.tx.us>; robert keltner <rwkeltner@hotmail.com>
Subject: 1365 Powder Ridge revision (Ferrante)

This email originated from outside of the organization.

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

- Comal IT

--

Bucky Smith
Smith Septic Design & Consultation
smithsepticdesign@gmail.com
(512) 644-6980



COMAL COUNTY
ENGINEER'S OFFICE

ON-SITE SEWAGE TREATMENT FACILITY APPLICATION

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

VOID

Date Nov. 8, 2023

Permit Number 116949

1. APPLICANT / AGENT INFORMATION

Owner Name <u>Jill and Brian Paul Ferrante</u>	Agent Name <u>Countryside Construction - Walker Chapman</u>
Mailing Address <u>17037 Holiday Dr</u>	Agent Address <u>300 Chapman Parkway</u>
City, State, Zip <u>Morgan Hill, CA, 95037</u>	City, State, Zip <u>Canyon Lake, TX, 78133</u>
Phone # <u>408-472-4915</u>	Phone # <u>830-899-2615</u>
Email <u>jill.brian@yahoo.com</u>	Email <u>rwkeltner@hotmail.com</u>

2. LOCATION

Subdivision Name Vintage Oaks at the Vineyard Unit 28 Lot 2214 Block N/A
Survey Name / Abstract Number _____ Acreage _____
Address 1365 Powder Ridge City New Braunfels State TX Zip 78132

3. TYPE OF DEVELOPMENT

☒ Single Family Residential

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

Number of Bedrooms 6

Indicate Sq Ft of Living Area 5,500

☐ Non-Single Family Residential

(Planning materials must show adequate land area for construction of the proposed facility and 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 _____

VOID

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 ☐ Rainwater

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.

Signature of Owner

Date

November 8, 2023

VOID

Client: Ferrante
Location: 1365 Powder Ridge

Date: 9/20/2023

Netafim Bioline: 17mm .6gph 24in spacing @ 2fps Flush

Maximum Recommended Bioline Lateral Length: 300

1. Soil Texture or Perc Time: III

2. Soil Structure Shape:
 Soil Structure Grade:
 Infiltration Loading Rate(ILR): 0.2 gal/day/ft*2

3. Slope: %

4. Infiltration Depth: in.

5. Hydraulic Linear Loading Rate: 4 gal/day/ft

6. Maximum Contour Length (MCL): 150 ft

8. Daily Flow
 6.00 X 70.00 = 420.00
 No. of Bedrooms Flow / Bedroom GPD

9. Dosing Area
 420.00 / 0.20 = 2100.00
 Daily Flow ILR sqft

10. Dosing A. Length
 420.00 / 4.00 = 105.00
 Daily Flow HLLR ft

11. Dosing A. Width
 2100.00 / 120.00 = 17.50
 Dosing Area Dosing A. Length ft

11a. Dosing Design Width & Length Adjustment
 Design Width 17.50 ft Adjusted Dosing Length 120.00 ft

12. Required Drinker Line
 2100.00 / 24 = 1050.00
 Dosing Area Drip line Spacing ft

13. Required Zones
 120.00 / 150.00 = 0.80 = 1
 Dosing A. Length MCL+ Theoretical Design Zones

14. Zone Breakout Table

	a.	b.	c.	d.	e.	f.	g.	h.	i.	j.	k.	l.	m.	n.	o.	p.
Zone No.	Zone Dosing Area (sqft)	Linear Ft. of Tubing (ft)	Longest Lateral (ft)	Dosing Flow Rate (gpm)	Number of Distal Ends	Field Flush Rate (gpm)	Required Total Flow (RTF) (gpm)	Field Flushing Head (ft)	Force Main Supply Line			Return Flush Line			Static Lift (ft)	Total Field Head Loss (TFHL)
									Pipe Nom. Dia. (in)	Len. of Run (ft)	Head Loss (ft)	Pipe Nom. Dia. (in)	Len. of Run (ft)	Head Loss (ft)		
Zone 1	2100.0	1050.0	210.0	5.3	5.0	8.0	13.3	29.5	1.00	45	4.2	1.00	105	3.8	6	43.54
Zone 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1			0.0			0.0		0.12
Zone 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1			0.0			0.0		0.12
Zone 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1			0.0			0.0		0.12
Zone 5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1			0.0			0.0		0.12
Zone 6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1			0.0			0.0		0.12

Note: (14c) Longest lateral may be looped one or more times and is a function of: (7) contour length, Bioline lateral length, #of distal ends, #of zones and (10) dosing area length.

15. Max Required Total Flow: 13.3
 (Largest RTF Based on 14g)

Max Total Field Head Loss: 43.5
 (Largest TFHL Based on 14p.)

17. Headworks Head Loss: 18 ft

18. Miscellaneous Head Loss: 10 ft

19. Design Total Dynamic Head: 71.5 ft

20. Pump Data: MINIMUM Pump Specifications

Sta-Rite Dominator Pump Model Selected
 0.5 HP Phase Volts 13.3 GPM @ 71.5 FT.
 Note: Selected pump must produce 115 ft @ 12gpm or 35 gpm for filter flush depending on filter model. (auto-flush units only)

21. Dosing Schedule

		Peak Flow Adjustment		0.00 Minutes	
Peak		Average			
Total Run Time:	80.0 Minutes	Total Run Time	80.0 Minutes		
Total Rest Time:	1360.0 Minutes	Total Rest Time	1360.0 Minutes		
Peak		Average			
Zone 1	5.25 GPM	10.0 Min/Dose	52.5 Gal/Dose	8.0 Cycles/Day	
Zone 2	0.00 GPM	0.0 Min/Dose	0.0 Gal/Dose	0.0 Cycles/Day	
Zone 3	0.00 GPM	0.0 Min/Dose	0.0 Gal/Dose	0.0 Cycles/Day	
Zone 4	0.00 GPM	0.0 Min/Dose	0.0 Gal/Dose	0.0 Cycles/Day	
Zone 5	0.00 GPM	0.0 Min/Dose	0.0 Gal/Dose	0.0 Cycles/Day	
Zone 6	0.00 GPM	0.0 Min/Dose	0.0 Gal/Dose	0.0 Cycles/Day	
Avg					
Zone 1	5.25 GPM	10.0 Min/Dose	52.5 Gal/Dose	8.0 Cycles/Day	
Zone 2	0.00 GPM	0.0 Min/Dose	0.0 Gal/Dose	0.0 Cycles/Day	
Zone 3	0.00 GPM	0.0 Min/Dose	0.0 Gal/Dose	0.0 Cycles/Day	
Zone 4	0.00 GPM	0.0 Min/Dose	0.0 Gal/Dose	0.0 Cycles/Day	
Zone 5	0.00 GPM	0.0 Min/Dose	0.0 Gal/Dose	0.0 Cycles/Day	
Zone 6	0.00 GPM	0.0 Min/Dose	0.0 Gal/Dose	0.0 Cycles/Day	

Portion of Peak Daily Flow 100%

Notes:

Bioline Must Be Selected at Top of Page. Required inputs go in YELLOW spaces and adjustments in BLUE spaces. Information for the record goes into GREY spaces. Incorporates New UniRam Type Emitter. Peak Flow Cycle Adjustment should be between 2 and 4 minutes. Higher values could result in damage to the drain field.

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VOID



CS 9-20-23

VOID

DESIGN SPECIFICATIONS

Daily Flow: 6 bedroom residence <5500 sq. ft. = 420gpd

Required Disposal Area: $420/.2 = 2100$ sq. ft.

Length of Tubing: $2100/2 = 1050$ feet of tubing

Brand of Tubing: Netafim Bioline

Dosing Rate: Bioline tubing will flow 0.62GPH(0.01GPM) @ 35 PSI 1050 feet of tubing with emitters spaced every 2 feet = 525 emitters

$525 \text{ emitters} \times 0.01 = 5.25$ GPM dosing rate

Distribution Pipe: 1" SCH 40 purple manufactured pipe

Pump Calculations and Pump Tank Float Settings

ATU Pump: Sta-Rite Dominator 1/2 hp

Pump Off: @ 7.0"

Pump On: @ 10.0"

Alarm On: @ 35.0"

Reserve Above Alarm: 305.64 gallons

VOID



CS 9-10-23

VOID

On-Site Sewage Facility
Aerobic Wastewater Treatment System
Drip Irrigation Application

REVISED

11:23 am, Dec 08, 2023

Owner/Site Location:

Ferrante Residence
1365 Powder Ridge
New Braunfels, TX



Site Description & Evaluation:

A site evaluation indicated that the site is suitable for an aerobic drip irrigation system. The disposal area has a slope of less than 15% and there was no evidence of shallow groundwater. This residence will utilize a public water supply as a water source. All portions of the OSSF must maintain at least a 10' setback from all water lines. This site does not lie in the regulated 100 year floodplain. There were no recharge features found within 150' of the proposed OSSF. Minimum separation distances as stated in Chapter 285 (TCEQ) On-Site Sewage Facilities, must be maintained.

Wastewater Design Flow:

This design is for a 6 bedroom residence with <5500 square feet. Low flow fixtures will be utilized. System is designed for 420 gpd. One of the bedrooms is detached with a bathroom but no kitchen facilities.

VOID

Aerobic Treatment System Description:


This residence will utilize an Aeris Model D840 ATU. Wastewater from the residence will flow to a 500 gallon trash tank followed by 840 gallon per day aeration treatment tank. Effluent from the aeration tank will flow to a 900 gallon pump tank. Distribution to the Netafim Bioline tubing is through a SCH 40 PVC supply line. A 100 micron filter, pressure regulator, and check valves will be placed on the supply line. The SCH 40 PVC flush line will have a ball valve installed to set the required flushing velocity back into the pump chamber. Vacuum relief valves will be placed on the highest end of the drain field, one on the supply line and one on the flush line. The system will not be required to use chlorine as a disinfecting agent. Existing soil will be scarified and 12" of class III soil will be placed on the scarified soil. The drip tubing will be placed on the imported class III soil. A minimum of 6" of class III soil is required to cover the tubing. The drain

From: [Ritzen, Brenda](#)
To: jill.brian@yahoo.com; [robert keltner](#)
Subject: Permit 116949
Date: Wednesday, December 6, 2023 4:28:00 PM
Attachments: [image001.png](#)
[Page from 116949.pdf](#)

Re: Jill and Brian Paul Ferrante
Vintage Oaks at the Vineyard Unit 28 Lot 2214
Application for Permit for Authorization to Construct an On-Site
Sewage Facility (OSSF)

Owner / Agent :

The following information is needed before I can continue processing the referenced permit submittal:

1.  See attached comments from a preliminary inspection completed today of the proposed drip field area.
2. Revise as needed and resubmit.

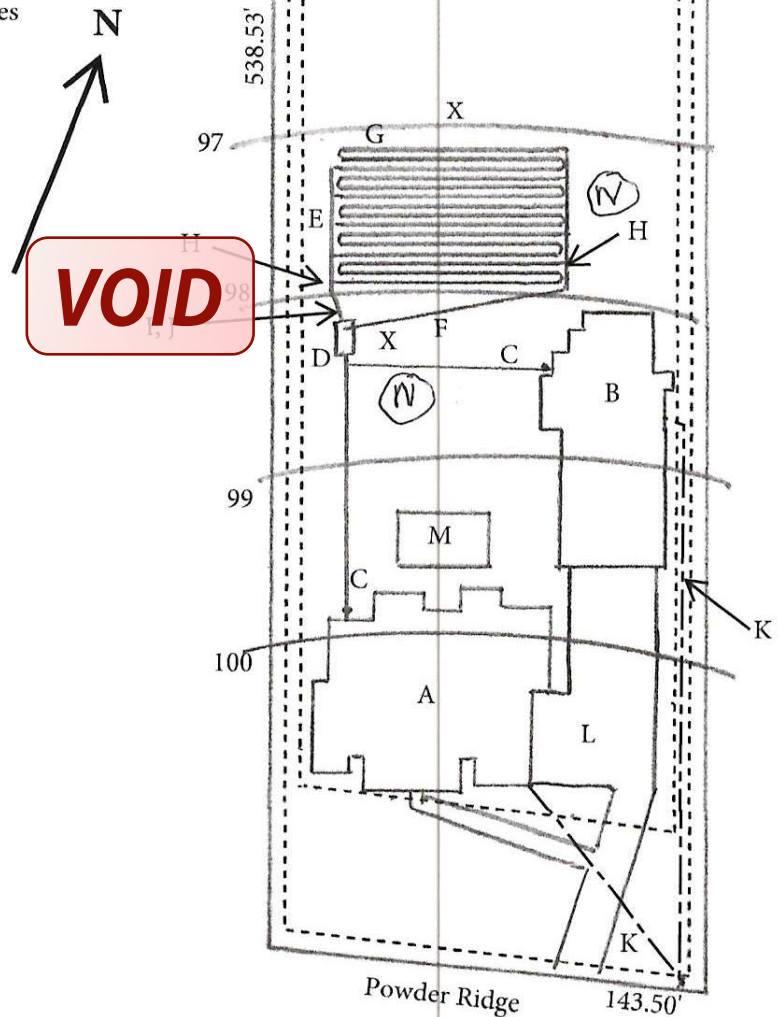
Thank you,



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

VOID

CS 9-20-23



Smith Septic Design and Consultation

VOID



Designed for:
Ferrante Residence
1365 **VOID** Ridge
New Braunfels, TX



CS 9-20-23

Smith Septic Design and Consultation contact information:

Bucky Smith · 202 Reimer Ave · San Marcos, TX 78666 · 512-644-6980

smithsepticdesign@gmail.com

VOID

Design Report
On-Site Sewage Facility
Aerobic Wastewater Treatment System
Drip Irrigation Application

Owner/Site Location:

Ferrante Residence
1365 Powder Ridge
New Braunfels, TX



CS 9-20-23

Site Description & Evaluation:

A site evaluation indicated that the site is suitable for an aerobic drip irrigation system. The disposal area has a slope of less than 30% and there was no evidence of shallow groundwater. This residence will utilize a public water supply as a water source. All portions of the proposed OSSF must maintain at least a 10' setback from all water lines. A portion of this site lies in the regulated 100 year floodplain. No portion of the home or OSSF lie in the regulated floodplain. There were no recharge features found within 150' of the proposed OSSF. Minimum separation distances as stated in Chapter 285 (TCEC) of the Texas Administrative Code must be maintained.

VOID

Wastewater Design Flow:

This design is for a 6 bedroom residence with <5500 square feet. Low flow fixtures will be utilized. System is designed for 420 gallons per day. One of the bedrooms is detached with a bathroom but no kitchen facilities.

Aerobic Treatment System Description:

This residence will utilize an Aeris Model D840 ATU. Wastewater from the residence will flow to a 500 gallon trash tank followed by 840 gallon per day aeration treatment tank. Effluent from the aeration tank will flow to a 900 gallon pump tank. Distribution to the Netafim Bioline tubing is through a SCH 40 PVC supply line. A 100 micron filter, pressure regulator, and check valves will be placed on the supply line. The SCH 40 PVC flush line will have a ball valve installed to set the required flushing velocity back into the pump chamber. Vacuum relief valves will be placed on the highest end of the drain field, one on the supply line and one on the flush line. The system will not be required to use chlorine as a disinfecting agent. Existing soil will be scarified. The drip tubing will be placed on the scarified soil. A minimum of 6" of class III soil is required to cover the tubing. The drain field will be seeded or hydro mulched. **I certify that this OSSF meets the requirements of the existing CZP.**

ORT/GPH/13571/Closer RS /S
NB

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

GENERAL WARRANTY DEED

THE STATE OF TEXAS §
COUNTY OF COMAL § KNOW ALL MEN BY THESE PRESENTS:

THAT TODD TUSTIN and wife, JILLIAN TUSTIN, hereinafter called Grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS (\$10.00) cash and other good and valuable consideration in hand paid by BRIAN PAUL FERRANTE and wife, JILL FERRANTE, hereinafter called Grantee, the receipt and sufficiency of which is hereby acknowledged;

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

Lot 2214 of VINTAGE OAKS AT THE VINEYARD, UNIT 28, a subdivision in Comal County, Texas, according to plat recorded in Document No. 202006037730, Map and Plat Records of Comal County, Texas.

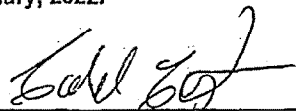
This conveyance is made subject to, all and singular the restrictions, conditions, easements and covenants, if any, applicable to and enforceable against the above described property as reflected by the records of the County Clerk of Comal County, Texas.


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

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

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

DATED this the 24 day of February, 2022.



TODD TUSTIN


JILLIAN TUSTIN

STATE OF TEXAS ^{PL} §
COUNTY OF COMAL ^{Texas} §

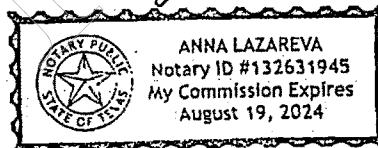
This instrument was acknowledged before me on this the 24th day of February, 2022, by TODD TUSTIN and wife, JILLIAN TUSTIN.



Notary Public in and for the State of Texas

GRANTEE'S MAILING ADDRESS:
17037 Holiday Drive
Morgan Hill, CA 95037

1799.deeds
Old Republic Title Co. (RS)
GF #13571NB



Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
03/02/2022 04:02:49 PM
CHRISTY 2 Pages(s)
202206010098





RECEIVED

By Kathy Griffin at 8:46 am, Nov 30, 2023



COMAL COUNTY
ENGINEER'S OFFICE

**OSSF DEVELOPMENT APPLICATION
CHECKLIST**

Staff will complete shaded items

		116949
Date Received	Initials	Permit Number

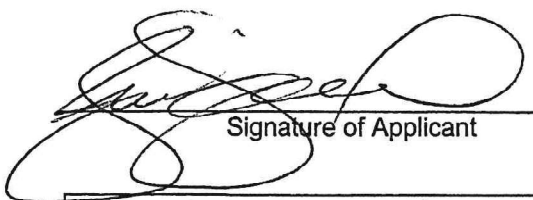
Instructions:

Place a check mark next to all items that apply. For items that do not apply, place "N/A". This OSSF Development Application Checklist must accompany the completed application.

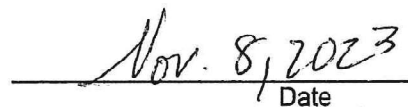
OSSF Permit

- ☒ Completed Application for Permit for Authorization to Construct an On-Site Sewage Facility and License to Operate
- ☒ Site/Soil Evaluation Completed by a Certified Site Evaluator or a Professional Engineer
- ☒ Planning Materials of the OSSF as Required by the TCEQ Rules for OSSF Chapter 285. Planning Materials shall consist of a scaled design and all system specifications.
- ☒ Required Permit Fee - See Attached Fee Schedule
- ☒ Copy of Recorded Deed
- ☒ Surface Application/Aerobic Treatment System
- ☒ Recorded Certification of OSSF Requiring Maintenance/Affidavit to the Public
- ☒ Signed Maintenance Contract with Effective Date as Issuance of License to Operate

I affirm that I have provided all information required for my OSSF Development Application and that this application constitutes a completed OSSF Development Application.



Signature of Applicant



Date

___ COMPLETE APPLICATION	
Check No. _____	Receipt No. _____

INCOMPLETE APPLICATION	
___ (Missing Items Circled, Application Refeused)	

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: MAY 16, 2024 Installed: 1/16/2024 Service Expires: 1/16/2026

BILLING ADDRESS:

BRIAN & JILL FERRANTE
1365 POWDER RIDGE
NEW BRAUNFELS, TX 78132

PHYSICAL ADDRESS:

1365 POWDER RIDGE
NEW BRAUNFELS, TX 78132

TELEPHONE: 408-781-3612 (BRIAN)
ALT. PHONE: 408-472-4915 (JILL)
GATE CODE:
SUBDIVISION: VINTAGE OAKS MFG: AERIS 840

LOT: LT 2214, PERMIT#: 116949
COUNTY: COMAL
SN:
MAPSCO: N/A

NOTES:

TYPE OF SYSTEM: DRIP

Inspected Item:	Operational	Inoperative
Aerators		
SCFM/Compressors PSI		
Record Pressure Reading	1.5	
Filters	/	
Irrigation Pumps	/	
Recirculation Pumps	N/A	
Disinfection Device	/	
Chlorine Supply	/	
Electrical Circuits	/	
Distribution System	/	
Sprayfield Vegetation	/	
Back Flush Drip Field, if applicable	N/A	
Other as Noted		

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

checked compressor

cleaned Air filter

checked chlorine

floats and sprinklers

set timer

SYSTEM OPERATING AS DESIGNED? Y/N

Access Posts are Secured

Yes

No

3. Tests required and results:

	Required		Results	Test
	Yes	No	mg/l mpn/100ml or Trace	Method
BOD (Grab)				
TSS (Grab)				
Cl (Grab)	/		clear	grab
Fecal Coliform			1.0	40

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

Maintenance Technician:

Winkle

3

Date of completion: 5-16-24 Start Job Time:

Stop Job Time:

Maintenance Provider:

Waelha 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: September 16, 2024 Installed: 1/16/2024 Service Expires: 1/16/2026

BILLING ADDRESS:

BRIAN & JILL FERRANTE
1365 POWDER RIDGE
NEW BRAUNFELS, TX 78132

PHYSICAL ADDRESS:

1365 POWDER RIDGE
NEW BRAUNFELS, TX 78132

TELEPHONE: 408-781-3612 (BRIAN)
ALT. PHONE: 408-472-4915 (JILL)
GATE CODE:
SUBDIVISION: VINTAGE OAKS MFG: AERIS 840

LOT: LT 2214, PERMIT#: 116949
COUNTY: COMAL
SN:
MAPSCO: N/A

NOTES:

TYPE OF SYSTEM: DRIP

Inspected Item:	Operational	Inoperative
Aerators		
SCFM/Compressors PSI		
Record Pressure Reading	1.5	
Filters	/	
Irrigation Pumps	N/A	
Recirculation Pumps	/	
Disinfection Device	/	
Chlorine Supply	N/A	/
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 compressor
cleaned air filter and micron
checked chlorine
floats and BACK FLUSHED
set timer

SYSTEM OPERATING AS DESIGNED? ☒ Y/N

Access Posts are Secured

☒ Yes

No

3. Tests required and results:

	Required		Results	Test
	Yes	No	mg/l mpn/100mi or Trace	Method
BOD (Grab)				
TSS (Grab)		/	clear	grab
Cl (Grab)	/		1.0	OTO
Fecal Coliform				

* PLEASE
maintain around
system, grass,
spray for ants.
Thank you.

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

Maintenance Technician: Mike

3

Date of completion: 09-30-24 Start Job Time: Stop Job Time:

Maintenance Provider: Walker Chymen

Countryside Construction, Inc.
300 Chapman Parkway, Canyon Lake, TX. 78133
Phone: 830-899-2615

Septic System Service Agreement

In consideration of payment for this service contract, we will abide by and agree to its terms and conditions:

Name: **BRIAN & JILL FERRANTE** Address: **1365 POWDER RIDGE**
Sub-Div./County: **VINTAGE OAKS, COMAL** **NEW BRUANFELS, TX 78132**
Permit #: **116949 DRIP** Model #: **AERIS 840** Serial #:
Phone: **408-781-3612 (BRIAN)** **408-472-4915 (JILL)**

(X) Initial Two Year Service Agreement & Two Year Limited Warranty

Legal Description: LT 2214, VINTAGE OAKS, COMAL

The effective date of the initial maintenance contract shall be the date the License to Operate is issued.
This contract will be in effect **FROM: 1/16/2024 TO: 1/16/2026** and will provide the following:

- An inspection every (4) four months which will include: Servicing of the mechanical & electrical components as necessary to ensure system is functioning as engineer designed, pulling and cleaning the aerator shaft, cleaning compressor air filters, check chlorine, conduct solids test to determine if system should be pumped, back flushing tubing for drip irrigation fields and checking sprinklers on above ground systems.
- 1) **The property owner is responsible for "purchasing and keeping chlorine" in the chlorinator, (if applicable).**
If the chlorine test reveals "No Chlorine" in the system, the property owner may incur an additional cost.
- 2) If any improper operation is observed (which cannot be corrected at that time) the property owner will be notified immediately of the conditions and the estimated cost.
- 3) **ANY PARTS, WARRANTY OR NON-WARRANTY, FREIGHT CHARGES, LABOR OR SERVICE CALLS NOT PAID IN FULL AT THE END OF (30) DAYS SHALL REMAIN THE PROPERTY OF COUNTRYSIDE CONSTRUCTION AND AUTHORIZES CONTRACTOR TO REMOVE AND REPOSSESS ANY PARTS INSTALLED. CLIENT FURTHER AGREES TO PAY ANY LABOR COST OF THE INSTALLATION AND REASONABLE COST OF REMOVAL OF SAID PARTS.**
- 4) **THE SIGNING OF THIS SERVICE AGREEMENT AUTHORIZES COUNTRYSIDE CONSTRUCTION TO ENTER THE PROPERTY TO EXECUTE ALL TERMS OF THIS CONTRACT.**

Countryside Construction, Inc., will warranty installation of the septic system to be according to state and county regulations and the designs approved by the county. **HOMEOWNER WILL BE RESPONSIBLE FOR SERVICE CALLS, LABOR AND SHIPPING COSTS ON ANY "WARRANTIED PARTS" EXCHANGED DURING WARRANTY.** All other components will be according to manufacturer's warranties.

Important: As Countryside Construction, Inc. cannot control what or how much effluent goes into this septic system, we cannot warranty how the system will function. Refer to manufacturers or installer's instructions, for suggestions on septic operation. If necessary, between inspections, it is the property owner's responsibility to clean the micron filters on drip irrigation systems. This service agreement **does not** cover the cost of "**service calls, labor or materials** that are required or **parts out of warranty**, the failure to maintain electrical power to the system, **sprinklers that are broken**, leaking, stopped-up or otherwise mal-functioning; or sewage flows exceeding the hydraulic/organic design capabilities and the input of non-biodegradable materials (solvents, grease, oil, paints, etc.), or any usage contrary to the requirements as advised by authorized service representative. Laboratory test work is available at an additional cost. Chlorine, filters, or parts that are out of warranty are available at a reasonable cost.

This contract **does not include the pumping of a tank or of any compartment of a tank, or settlement of soil on or around any part of the system regardless of reason:**

Violations of the warranty also include: disconnecting the alarm, restricting ventilation to the aerator, overloading the system above its rated capacity; or flooding by external means. Rodent, insect or fire ant damage or any other form of unusual abuse is a violation. A renewal service contract **should be activated (30) thirty days before expiration** of existing contract. We will contact property owner prior to expiration of existing contract.

Served by: COUNTRYSIDE CONSTRUCTION, INC.

Walker Chapman – Installer Licensee #OS0002929-OSSF

Maintenance Provider Licensee #MP0000035

(X) *Walker Chapman*
Property Owner Signature

(X) *Brian Ferrante*
Print Name

4-13-24
Date

Walker Chapman
Walker Chapman

4-16-24
Date

Authorized Service Representative

(revised 08/13/2020)

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: January 16, 2025 Installed: 1/16/2024 Service Expires: 1/16/2026

BILLING ADDRESS:

BRIAN & JILL FERRANTE
1365 POWDER RIDGE
NEW BRAUNFELS, TX 78132

PHYSICAL ADDRESS:

1365 POWDER RIDGE
NEW BRAUNFELS, TX 78132

TELEPHONE: 408-781-3612 (BRIAN)
ALT. PHONE: 408-472-4915 (JILL)
GATE CODE:
SUBDIVISION: VINTAGE OAKS MFG: AERIS 840

LOT: LT 2214, PERMIT#: 116949
COUNTY: COMAL
SN:
MAPSCO: N/A

NOTES:

TYPE OF SYSTEM: DRIP

Inspected Item: Operational Inoperative

Aerators		
SCFM/Compressors PSI		
Record Pressure Reading	1.5	
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 Compressor

Cleaned Air Filter, and micron

Checked Chlorine

Floats and Back Flushed

set timer

SYSTEM OPERATING AS DESIGNED? ☒ Y ☐ N

Access Ports 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	grab
Cl (Grab)	/		1.0	pro
Fecal Coliform				

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

Maintenance Technician: Mikler

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Date of completion: 1-27-25 Start Job Time: _____ Stop Job Time: _____

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: **February 21, 2025** Installed: **2/21/2024** Service Expires: **2/21/2026**

BILLING ADDRESS:

EDWARD & KRISTIN LUCERO
2476 GEORGE PASS
CANYON LAKE, TX 78133

PHYSICAL ADDRESS:

2476 GEORGE PASS
CANYON LAKE, TX 78133

TELEPHONE: **707-580-0210**

LOT: **LT 66,**

PERMIT#: **116496**

ALT. PHONE:

COUNTY: **COMAL**

GATE CODE: **#1286**

SN: **22070464**

SUBDIVISION: **THE ENCLAVE MFG: CLEARSTREAM-600**

MAPSCO: **N/A**

NOTES:

TYPE OF SYSTEM: **SPRAY**

Inspected Item: Operational Inoperative

Aerators		
SCFM/Compressors PSI		
Record Pressure Reading	2.0	
Filters	/	
Irrigation Pumps		
Recirculation Pumps	N/A	
Disinfection Device	/	
Chlorine Supply	/	
Electrical Circuits	/	
Distribution System	/	
Sprayfield Vegetation	/	
Back Flush Drip Field, if applicable	N/A	
Other as Noted		

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

CHECKED pump,
Alarms, sprinklers,
FLOATS, chlorine,
Compressor/FILTER

SYSTEM OPERATING AS DESIGNED? Y/N

Access Posts are Secured

Yes

No

3. Tests required and results:

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

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

Maintenance Technician: Thomas

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Date of completion: 2/24/25 Start Job Time: _____ Stop Job Time: _____

Maintenance Provider: Walter Chapman