

Preliminary Field Check For Drip Systems

ON-SITE SEWAGE FACILITY APPLICATION

Date February 24, 2025

Permit Number 118631

1. APPLICANT / AGENT INFORMATION

| | |
|------------------|--|
| Owner Name | THE R&R PARKER FAMILY TRUST, dated 10/4/2024 |
| Mailing Address | 3299 ESPADA |
| City, State, Zip | NEW BRAUNFELS, TEXAS 78132 |
| Phone # | 830-743-1172 |
| Email | parkerdesignconsult@gmail.com |

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

2. LOCATION

Subdivision Name VINTAGE OAKS AT THE VINEYARD Unit 25 Lot 2028 Block _____
Survey Name / Abstract Number _____ Acreage _____
Address 411 IRON HILL 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 4

Indicate Sq Ft of Living Area 3242

☐ 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: \$ | 600,000 | (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 Collection

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 Rita K. Barker

Date 5/1/2025



COMAL COUNTY
ENGINEER'S OFFICE

ON-SITE SEWAGE FACILITY APPLICATION

VINTAGE OAKS AT THE VINEYARD, UNIT 25, LOT 2028

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

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

System Description PROPRIETARY; AEROBIC TREATMENT AND DRIP TUBING

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

Tank Size(s) (Gallons) SOLAR AIR SA-600LP Absorption/Application Area (Sq Ft) 3000

Gallons Per Day (As Per TCEQ Table 111) 300

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

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

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

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

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

Is there at least one acre per single family dwelling as per 285.40(c)(1)? ☒ Yes ☐ No

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

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

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

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

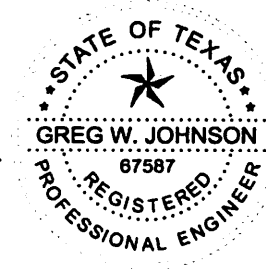
(if yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP.)

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

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

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

If yes, indicate the city: _____



FIRM #2585

By signing this application, I certify that:

- The information provided above is true and correct to the best of my knowledge.
- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.

[Signature]
Signature of Designer

February 25, 2025
Date

AFFIDAVIT**THE COUNTY OF COMAL
STATE OF TEXAS****CERTIFICATION OF OSSF REQUIRING MAINTENANCE**

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

I

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

II

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

25 UNIT/PHASE/SECTION BLOCK 2028 LOT VINTAGE OAKS AT THE VINEYARD SUBDIVISION

IF NOT IN SUBDIVISION: ACREAGE SURVEY

The property is owned by (insert owner's full name): THE R&R PARKER FAMILY TRUST, dated October 4, 2024
RORY SCOTT PARKER & RITA K. PARKER - TRUSTEES

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 1st DAY OF May, 2025

Rory Scott Parker
Rita K. Parker
Owner(s) signature(s)

RORY SCOTT PARKER - TRUSTEE

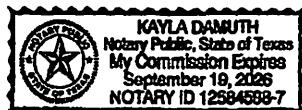
RITA K. PARKER - TRUSTEE

Owner (s) Printed name (s)

RORY SCOTT PARKER & RITA K. PARKER SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 1st DAY OF

May, 2025

Kayla Damuth
Notary Public Signature



Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
05/05/2025 08:37:40 AM
WESLEY 1 Pages(s)
202506012974



Bobbie Koepp

Maintenance Service Provider
15188 FM 306
Canyon Lake, TX 78133
Office (830)964-2365



VINTAGE OAKS AT THE VINEYARD, UNIT 25, LOT 2028

SERVICE ADDRESS

411 IRON HILL, NEW BRAUNFELS, TX 78132

INSTALLER

SCOTT SCHNEIDER

TERM

2 year

Routine Maintenance and Inspection Agreement

This Work for Hire Agreement (hereinafter referred to as this "Agreement") is entered into by and between The R&R Family Trust (referred to as "Client") and Aerobic Services of South Texas (Thomas W. Hampton MP349) (hereinafter referred to as "Contractor") located at 15188 FM 306 Canyon Lake, Texas 78133 (830) 964-2365. By this Agreement the Contractor agrees to render professional service, as described herein, and the Client agrees to fulfill the terms of this Agreement as described herein. This contract will provide for all required inspections, testing and service for your Aerobic Treatment System. The policy will include the following:

1. 3 inspections a year/services calls (at least one every 4 months), for a total of 6 over the two year period including inspection, adjustment and servicing of the mechanical, electrical and other applicable component parts to ensure proper function. This includes inspecting the control panel, air pumps, air filters, diffuser operation. Any alarm situation affecting the proper function of the Aerobic process will be addressed within a 48-hour time frame. Repair work on non-warranty parts will include price for parts & labor. The prices will be quoted before work is performed.
2. An effluent quality inspection consisting of a visual check for color, turbidity, scum overflow and examination for odors. A test for chlorine residual and pH will be taken and reported as necessary.
3. If any improper operation is observed, which cannot be corrected at the time of the service visit, you will be notified immediately in writing of the conditions and estimated date of correction.
4. The Property Owner is responsible for the chlorine; it must be filled before or during the service visit.
5. Any additional visits, inspections or sample collection required by specific Municipalities, Water/River Authorities, and County Agencies the TCEQ or any other authorized regulatory agency in your jurisdiction will be covered by this policy. BOD and TSS testing is covered by this contract.

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

ACCESS BY CONTRACTOR

The Contractor or anyone authorized by the Contractor may enter the property at reasonable times without prior notice for the purpose of the above described Services. The contractor may access the System components including the tanks by means of excavation for the purpose of evaluations if necessary. Soil is to be replaced with the excavated material as best as possible.

Termination of Agreement

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

Limit of Liability

In no event shall the Contractor be liable for indirect, consequential, incidental or punitive damages, whether in contract tort or any other theory. In no event shall the Contractor's liability for direct damages exceed the price for the services described in this Agreement.

Dispute Resolution

If a dispute between the Client and the Contractor arises that cannot be settled in good faith negotiations then the parties shall choose a mutually acceptable arbitrator and shall share the cost of the arbitration services equally.

Entire Agreement

This Agreement contains the entire agreement of the parties, and there are no other promises or conditions in any other agreement either oral or written.

Severability

If any provision of this Agreement shall be held to be invalid or unenforceable for any reason, the remaining provisions shall continue to be valid and enforceable. If a court finds that any provision of this agreement is invalid or unenforceable, but that by limiting such provision it would become valid and enforceable, then such provision shall be deemed to be written, construed, and enforced as so limited.

Property Owner

Name

The R&R Family Trust,, dated 10/4/2024

Email

parkerdesignconsult@gmail.com

Service Address

411 IRON HILL
NEW BRAUNFELS, TX 78132

Phone

830-743-1172


SIGNATURE

EFFECTIVE DATE _____

EXPIRED DATE _____

SERVICE PROVIDER

Aerobic Services of South Texas I.L.C.

15188 FM 306 Canvon Lake, TX 786133

(830) 964-2365



Signature of Service Provider and License #
[Thomas Hampton, OS0024597 / MP0000349]



**The effective date of this initial maintenance contract shall be the date license to operate is issued.*

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

February 24, 2025

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


RE- SEPTIC DESIGN
411 IRON HILL
VINTAGE OAKS AT THE VINEYARD, UNIT 25, LOT 2028
NEW BRAUNFELS, TX 78132
THE R&R PARKER FAMILY TRUST, dated 10/4/2024

Brandon /Brenda,

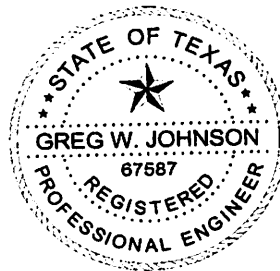
The referenced property is located within the Edwards Aquifer Recharge Zone. This OSSF design will comply with requirements in the WPAP.

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

Designed in accordance with Chapter 285, Subchapter D, §285.40, 285.41, & 285.42, Texas Commission on Environmental Quality (Effective December 29, 2016).

 02/25/25

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



ON-SITE SEWERAGE FACILITY SOIL EVALUATION REPORT INFORMATION

Date Soil Survey Performed: February 24, 2025

Site Location: VINTAGE OAKS at the VINEYARD, UNIT 25, LOT 2028

Proposed Excavation Depth: N/A

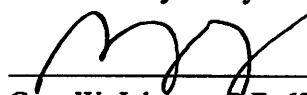
Requirements:

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

| SOIL BORING NUMBER <u> </u> SURFACE EVALUATION <u> </u> | | | | | | |
|---|------------------|-----------------|--------------------|---------------------------------------|------------------------|----------------|
| Depth (Feet) | Texture Class | Soil Texture | Gravel Analysis | Drainage (Mottles/ Water Table) | Restrictive Horizon | Observations |
| 0 | IV | CLAY | N/A | NONE OBSERVED | LIMESTONE @ 4" | BROWN STONY |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |

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

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


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

02/24/25
Date

FIRM #2585

**AEROBIC TREATMENT
DRIP TUBING SYSTEM**

DESIGNED FOR:

THE R&R PARKER FAMILY TRUST, dated 10/4/2024

3299 ESPADA

NEW BRAUNFELS, TX 78132

SITE DESCRIPTION:

Located in Vintage Oaks at the Vineyard, Unit 25, Lot 2028, at 411 Iron Hill, the proposed system will serve a four bedroom residence (3242 sf.) situated in an area with shallow Type IV soil as described in the Soil Evaluation Report. Native grasses and Live Oak trees were found throughout this property. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this lot.

PROPOSED SYSTEM:

A 3 or 4-inch SCH-40 pipe discharges from the residence into an Solar Air SA600LP 600gpd aerobic plant containing a 376-gallon pretreatment tank, an aerobic treatment plant, and a 778-gallon pump chamber containing a (0.5 HP FPS 20 gpm) well pump. The well pump is activated by a time controller allowing the distribution ten times per day with an 6 minute run time with float setting at 300 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron Arkal disc filter then through a 1" SCH-40 manifold to a 3000 sf. drip tubing field, with *Netifim Bioline* drip lines set approximately two feet apart with ***0.61 gph*** emitters set every two feet, as per the attached schematic. A pressure regulator Model PMR30MF installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. A 1" SCH-40 return line is installed to continuously flush the system by throttling a 1" ball valve to the pump tank. Solids caught in the disc filter are flushed each cycle back to the trash tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Prior to installing drip the site must be scarified and built up with 8" of Type II or III soil. Drip tubing will be laid and will be capped with 6" of Type II or Type III soil (***NOT SAND***). A minimum of 12" soil required between drip tubing and rock. The field area will be sodded with grass prior to system startup.

Risers are required on tank inspection ports as per 30 TAC 285.38 (9/1/2023). This includes access limitation (<65lbs lid or hardware secured lid), inspection and cleanout ports shall have risers over the port openings which extend to a minimum of two inches above grade. A secondary plug, cap, or other suitable restraint system shall be provided below the riser cap to prevent tank entry if the cap is unknowingly damaged or removed.

DESIGN SPECIFICATIONS:

Daily waste flow: 4 Bedroom Residence (3242sf. Living Area) @ 300 gpd (Table III)

Pretreatment tank size: 376 Gal

Plant Size: Solar Air SA600LP 600gpd (TCEQ Approved)

Pump tank size: 778 Gal

Reserve capacity after High Level: 100 Gal (1/3 day Req'd)

Application Rate: $R_a = 0.1 \text{ gal/sf}$

Total absorption area: $Q/R_a = 300 \text{ GPD}/0.10 = 3000 \text{ sf.}$

Total linear feet drip tubing: 1500' *Netifim Bioline* drip tubing .61 GPH

Pump requirement: 750 emitters @ .61 gph @ 20 psi = 7.625 gpm

Pump Requirement (cont.): (0.5 HP FPS 20 gpm)

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

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

$$\text{MSV} = 2 \text{ FPS } (\pi d^5/4) * 7.48 \text{ gal/cf} * 60 \text{ sec/min}$$

$$\text{MSV} = 2(3.14159((.55/12)^5/4) * 7.48 * 60$$

$$\text{MSV} = 1.5 \text{ gpm PER LINE} * 5 \text{ LINES} = 7.5 \text{ GPM MIN FLOW RATE}$$

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

$$\text{MSV} = 2 \text{ FPS } (\pi d^5/4) * 7.48 \text{ gal/cf} * 60 \text{ sec/min}$$

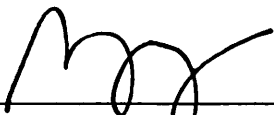
$$\text{MSV} = 2(3.14159((1.049/12)^5/4) * 7.48 * 60$$

$$\text{MSV} = 5.4 \text{ GPM}$$

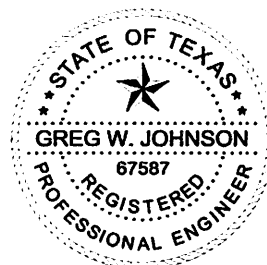
PIPE AND FITTINGS:

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

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

 02/25/25

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



INSTALL 3000sf OF
FIELD USING 1500'
OF DRIP TUBING.
THERE SHALL BE NO
PARKING, DRIVING
OR STORAGE ON
THE SEPTIC FIELD
AT ANY TIME FOR
ANY REASON.

*USE TWO WAY
CLEAN OUT
**USE SCH-40 OR
SDR-26 TO TANK

X= TEST HOLE

92'

245.50'

10' UTILITY EASEMENT

4 BDRM RES.
3242sf

LOT 2028

C/O

10'

DRIVEWAY

407.56'

SOLAR AIR
SA-600 - LP 778
AEROBIC
TREATMENT
PLANT

SLEEVE SEPTIC
LINE WITH
SCH-40 WITHIN
5' AND UNDER
DRIVEWAY.

SLEEVE WATER LINE
WITH 2"-SCH-40
PVC PIPE WHEN
ENTERING CLOSER
THAN 10' FROM
SEPTIC SYSTEM OR
SEPTIC FIELD
WHICH EXCEEDS
TAC 30 CHAPTER
290.44(e)(B)(i).

SLEEVE SEPTIC
LINE WITH
SCH-40 WITHIN
5' AND UNDER
DRIVEWAY.

26'
1" VACUUM
BREAKERS

10' UTILITY EASEMENT

10' UTILITY EASEMENT

92.13'

98'

20'

96'

94'

20'

24'

37'

55'

55'

55'

55'

55'

55'

55'

55'

55'

55'

55'

55'

55'

55'

55'

55'

55'

55'

55'

55'

55'

55'

55'

55'

55'

55'

55'

55'

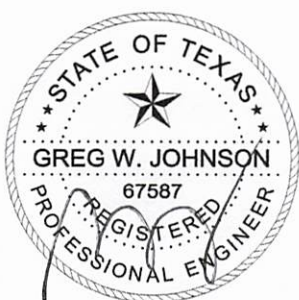
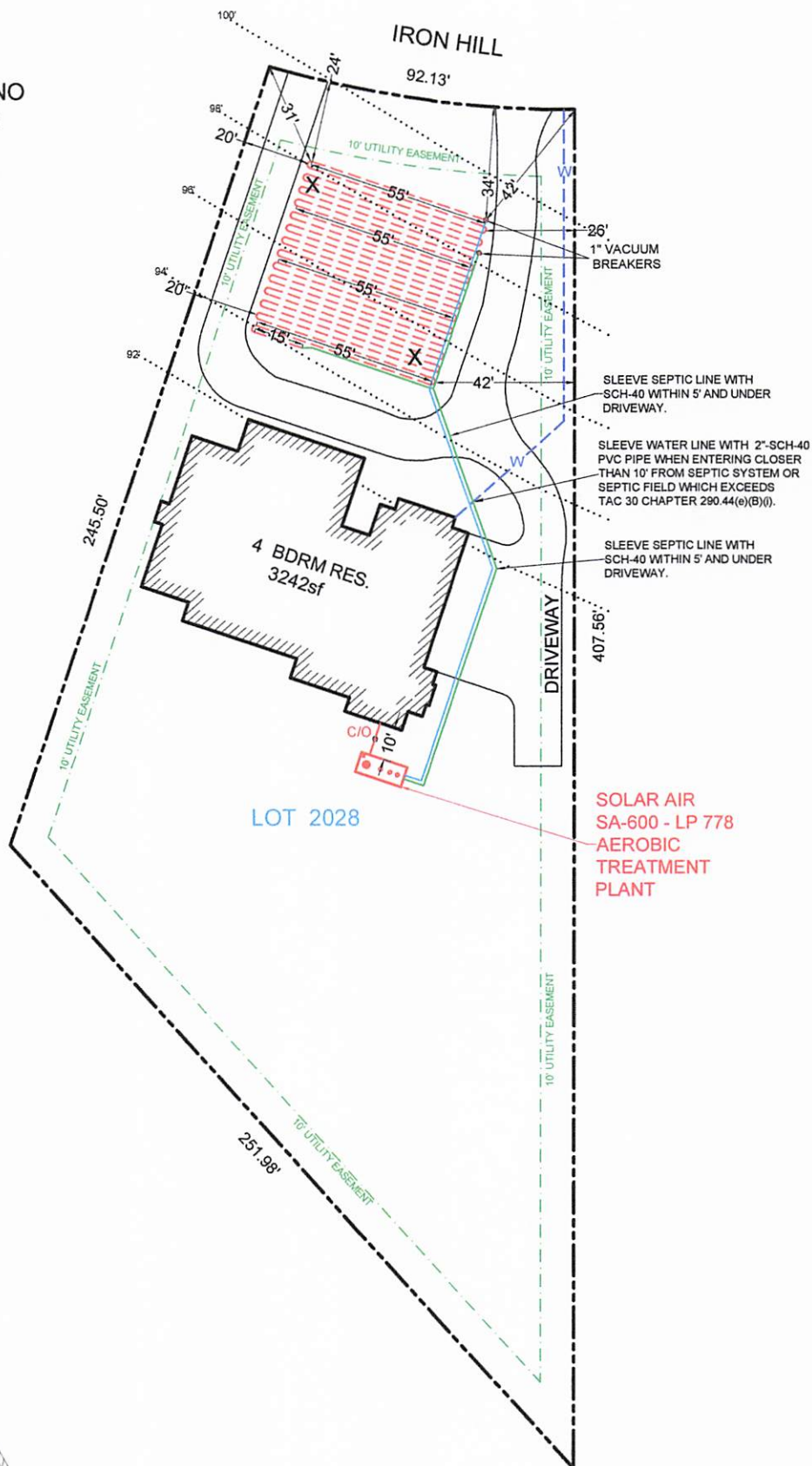


| | | | | | | | | | | | | | | |
|-----------------|--|---|--|--|---------------------|-----------|--------|---------|--------|------|-----------|------|----------|--|
| OWNER: | | The R & R PARKER FAMILY TRUST dated 10/4/2024 | | | | DRAWN BY: | | EJS III | | | | | | |
| STREET ADDRESS: | | 411 IRON HILL | | | | | | | | | | | | |
| LEGAL DESC: | | VINTAGE OAKS at the VINEYARD | | | UNIT/SECTION/PHASE: | | 25 | | BLOCK: | LOT: | | 2028 | | |
| PREPARED BY: | | GREG W. JOHNSON, P.E. F#002585 | | | SCALE: | | 1"=30' | | DATE: | | 2/25/2025 | | REVISED: | |

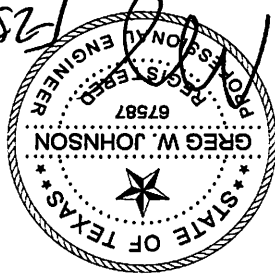
INSTALL 3000sf OF
FIELD USING 1500'
OF DRIP TUBING.
THERE SHALL BE NO
PARKING, DRIVING
OR STORAGE ON
THE SEPTIC FIELD
AT ANY TIME FOR
ANY REASON.

*USE TWO WAY
CLEAN OUT
**USE SCH-40 OR
SDR-26 TO TANK

X= TEST HOLE

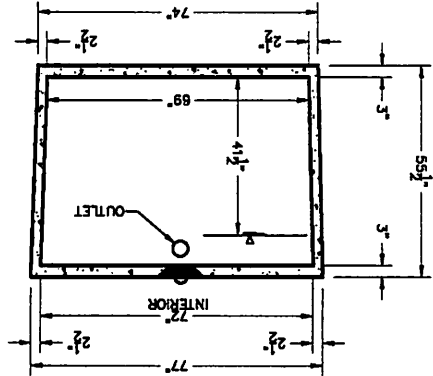


| | | | | | |
|--|--|---------------|------------------------|-------------------|-----------|
| OWNER: The R & R PARKER FAMILY TRUST dated 10/4/2024 | | | | DRAWN BY: EJS III | |
| STREET ADDRESS: 411 IRON HILL | | | | | |
| LEGAL DESC: VINTAGE OAKS at the VINEYARD | | | UNIT/SECTION/PHASE: 25 | | LOT: 2028 |
| PREPARED BY: GREG W. JOHNSON, P.E. F#002585 | | SCALE: 1"=50' | DATE: 2/25/2025 | | REVISED: |

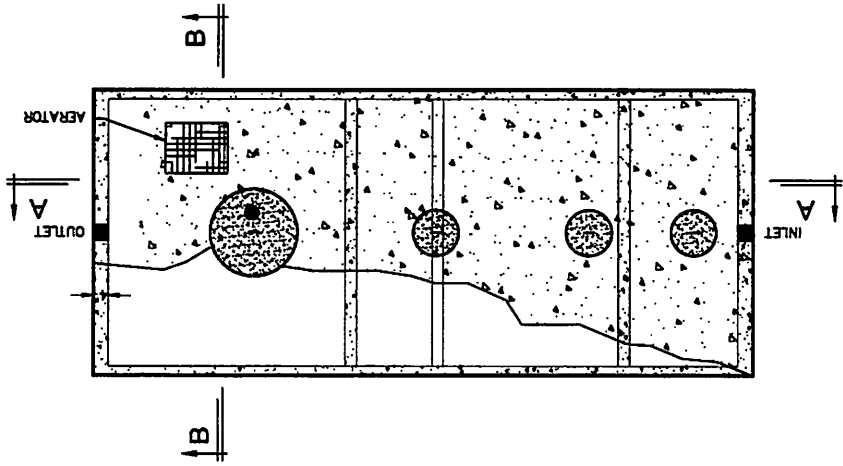


12585
02/25/25

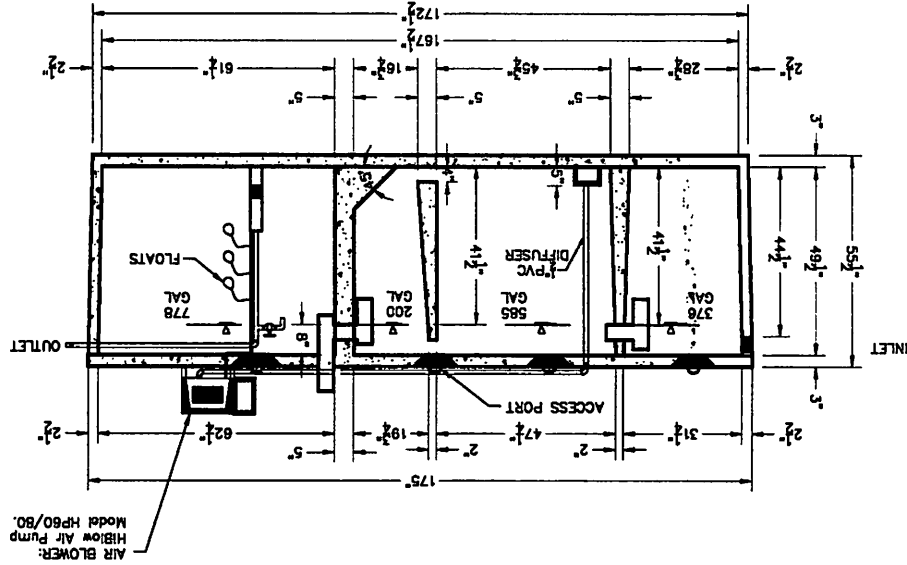
SECTION B-B



PLAN VIEW



SECTION A-A



| | | |
|------------------------|-------------|----------|
| DESIGNER: ESD | PROJECT NO. | DATE: |
| DRAWN: ESD | | DEC 2016 |
| CHECKED: ESD | | |
| MODEL: SA 600P | | |
| RESIDENTIAL WASTEWATER | | |
| TREATMENT SYSTEM | | |
| SOLAR AEROBIC | | |
| 6754 HWY 80 EAST | | |
| LAKE CHARLES, LA 70615 | | |
| PHONE: (337) 439-0880 | | |
| REV | DESCRIPTION | DATE |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |
| 14 | | |
| 15 | | |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |
| 21 | | |
| 22 | | |
| 23 | | |
| 24 | | |
| 25 | | |
| 26 | | |
| 27 | | |
| 28 | | |
| 29 | | |
| 30 | | |
| 31 | | |
| 32 | | |
| 33 | | |
| 34 | | |
| 35 | | |
| 36 | | |
| 37 | | |
| 38 | | |
| 39 | | |
| 40 | | |
| 41 | | |
| 42 | | |
| 43 | | |
| 44 | | |
| 45 | | |
| 46 | | |
| 47 | | |
| 48 | | |
| 49 | | |
| 50 | | |
| 51 | | |
| 52 | | |
| 53 | | |
| 54 | | |
| 55 | | |
| 56 | | |
| 57 | | |
| 58 | | |
| 59 | | |
| 60 | | |
| 61 | | |
| 62 | | |
| 63 | | |
| 64 | | |
| 65 | | |
| 66 | | |
| 67 | | |
| 68 | | |
| 69 | | |
| 70 | | |
| 71 | | |
| 72 | | |
| 73 | | |
| 74 | | |
| 75 | | |
| 76 | | |
| 77 | | |
| 78 | | |
| 79 | | |
| 80 | | |
| 81 | | |
| 82 | | |
| 83 | | |
| 84 | | |
| 85 | | |
| 86 | | |
| 87 | | |
| 88 | | |
| 89 | | |
| 90 | | |
| 91 | | |
| 92 | | |
| 93 | | |
| 94 | | |
| 95 | | |
| 96 | | |
| 97 | | |
| 98 | | |
| 99 | | |
| 100 | | |

| | |
|--------------|--------|
| SCALE: | SHEET: |
| 3/8" = 1'-0" | SA-3 |

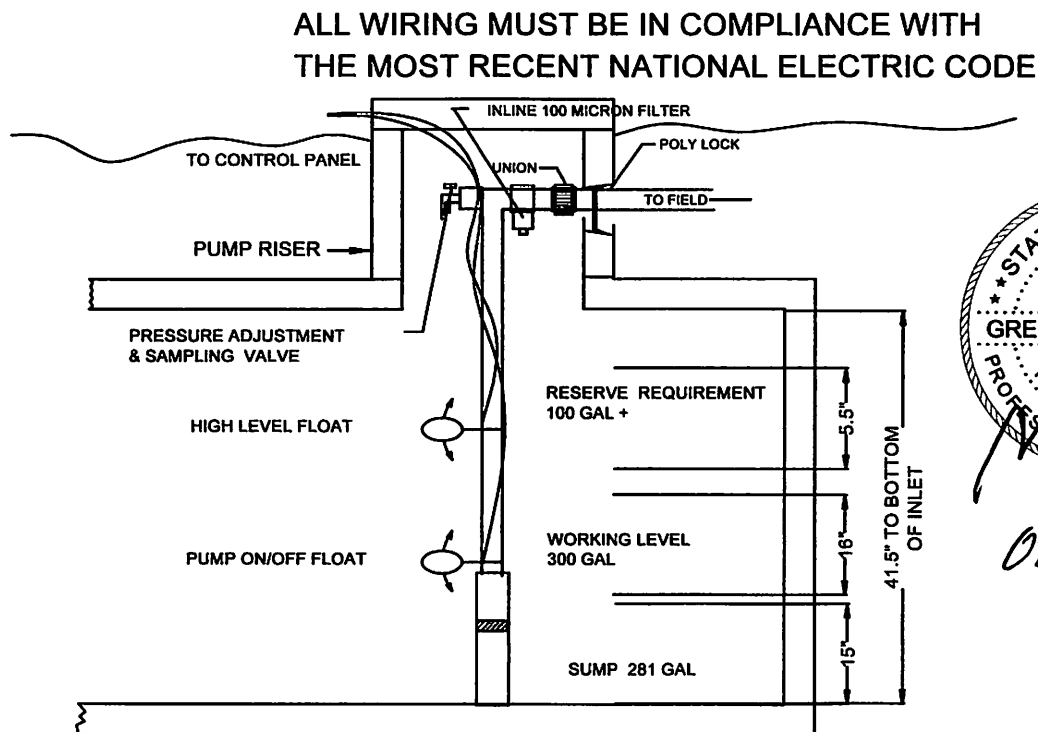
TANK NOTES:

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

Tightlines to the tank shall be SCH-40 PVC.

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

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



F#2585

02/25/25

**TYPICAL PUMP TANK CONFIGURATION
SOLAR-AIR SA-600 LP 778 GAL PUMP TANK**

Arkal 1" Super Filter

Catalog No. 1102 0 _ _ _

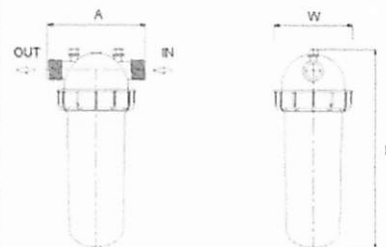
Features

- ♦ A "T" shaped filter with two 1" male threads.
- ♦ A "T" volume filter for in-line installation on 1" pipelines.
- ♦ The filter prevents clogging due to its enlarged filtering area that collects sediments and particles.
- ♦ Manufactured entirely from fiber reinforced plastic.
- ♦ A cylindrical column of grooved discs constitutes the filter element.
- ♦ Spring keeps the discs compressed.
- ♦ Screw-on filter cover.
- ♦ Filter discs are available in various filtration grades.



Technical Data

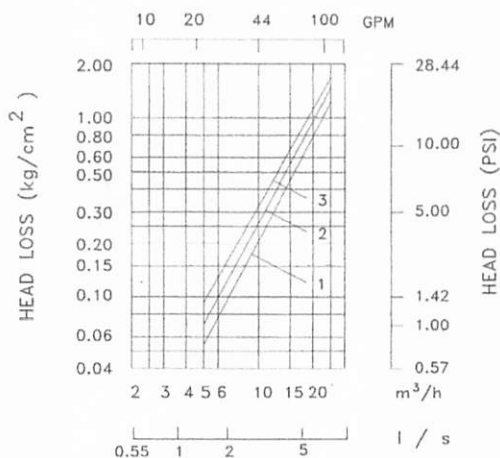
| Inlet/outlet diameter | 1" BSPT (male) | 1" NPT (male) |
|------------------------------------|---------------------------------|----------------------|
| | 25.0 mm – nominal diameter | |
| | 33.6 mm – pipe diameter (O. D.) | |
| Maximum pressure | 10 atm | 145 psi |
| Maximum flow rate | 8 m ³ /h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



Filtration Grades

- Blue (400 micron / 40 mesh)
- Yellow (200 micron / 80 mesh)
- Red (130 micron / 120 mesh)
- Black (100 micron / 140 mesh)
- Green (55 micron)

Head Loss Chart



PMR-MF

PRESSURE-MASTER REGULATOR - MEDIUM FLOW

Specifications

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

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

The pressure regulator shall maintain the nominal pressure at a minimum of 5 PSI (0.34 bar) above model inlet pressure and a maximum of 80 PSI (5.52 bar) above nominal model pressure*. Refer to the PRU performance curve to establish specific outlet pressures based on relative inlet pressure and flow rate. Always install downstream from all shut off valves. Recommended for outdoor use only. Not NSF certified.

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

Inlet

- ¾-inch Female National Pipe Thread (FNPT)
- 1-inch Female National Pipe Thread (FNPT)
- 1-inch Female British Standard Pipe Thread (FBSPT)

Outlet

- ¾-inch Female National Pipe Thread (FNPT)
- 1-inch Female National Pipe Thread (FNPT)
- 1-inch Female British Standard Pipe Thread (FBSPT)

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

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

The pressure regulator shall carry a two-year manufacturer's warranty on materials, workmanship, and performance. Each pressure regulator shall be water tested for accuracy before departing the manufacturing facility.

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

Physical

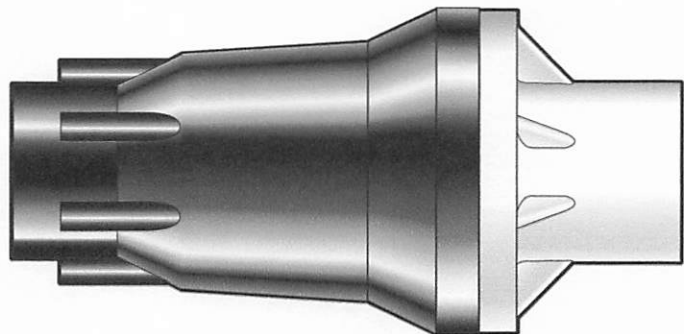
3/4" FNPT x 3/4" FNPT model (shown on right)

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

1" FNPT x 1" FNPT model

1" FBSPT x 1" FBSPT model

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



* Please consult factory for applications outside of recommended guidelines.



PMR-MF

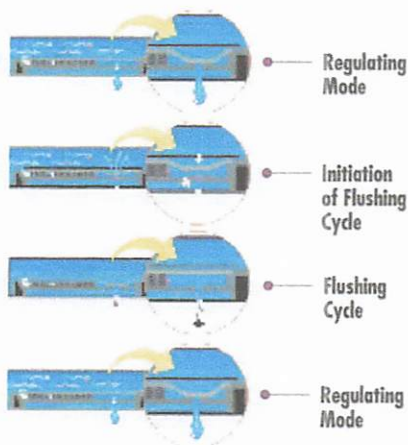
PRESSURE-MASTER REGULATOR - MEDIUM FLOW

Model Numbers

| Model # | Flow Range | Preset Operating Pressure | Maximum Inlet Pressure |
|-----------|---------------------------------|---------------------------|------------------------|
| PMR-6 MF | 4 - 16 GPM (909 - 3634 L/hr) | 6 PSI (0.41 bar) | 80 psi (5.51 bar) |
| PMR-10 MF | 4 - 16 GPM (909 - 3634 L/hr) | 10 PSI (0.69 bar) | 90 psi (6.20 bar) |
| PMR-12 MF | 2 - 20 GPM (454 - 4542 L/hr) | 12 PSI (0.83 bar) | 90 psi (6.20 bar) |
| PMR-15 MF | 2 - 20 GPM (454 - 4542 L/hr) | 15 PSI (1.03 bar) | 95 psi (6.55 bar) |
| PMR-20 MF | 2 - 20 GPM (454 - 4542 L/hr) | 20 PSI (1.38 bar) | 100 psi (6.89 bar) |
| PMR-25 MF | 2 - 20 GPM (454 - 4542 L/hr) | 25 PSI (1.72 bar) | 105 psi (7.24 bar) |
| PMR-30 MF | 2 - 20 GPM (454 - 4542 L/hr) | 30 PSI (2.07 bar) | 110 psi (7.58 bar) |
| PMR-35 MF | 2 - 20 GPM (454 - 4542 L/hr) | 35 PSI (2.41 bar) | 115 psi (7.93 bar) |
| PMR-40 MF | 2 - 20 GPM (454 - 4542 L/hr) | 40 PSI (2.76 bar) | 120 psi (8.27 bar) |
| PMR-50 MF | 2 - 20 GPM (454 - 4542 L/hr) | 50 PSI (3.45 bar) | 130 psi (8.96 bar) |
| PMR-60 MF | 2 - 20 GPM (454 - 4542 L/hr) | 60 PSI (4.14 bar) | 140 psi (9.65 bar) |

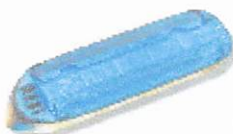
Bioline® Dripperline

Pressure Compensating Dripperline for Wastewater



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

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



Product Advantages

The Proven Performer

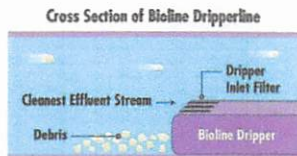
- Tens of millions of feet used in wastewater today.
- Bioline is permitted in every state allowing drip disposal.
- Backed by the largest, most quality-driven manufacturer of drip products in the U.S.
- Preferred choice of major wastewater designers and regulators.
- Proven track record of success for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

Quality Manufacturing with Specifications Designed to Meet Your Needs

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

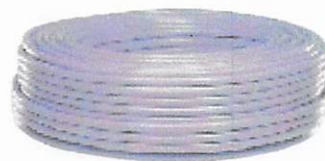
Long-Term Reliability

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



Root Safe

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



Applications

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

Specifications

Wall thickness (mil): 45*

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

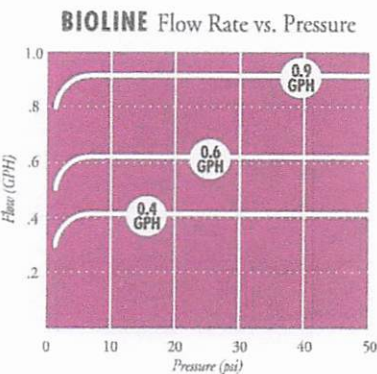
Common spacings: 12", 18", 24"*

Recommended filtration: 120 mesh

Inside diameter: .570*

Color: Purple tubing indicates non-potable source

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



NETAFIM USA

5470 E. Home Ave. • Fresno, CA 93727
888.638.2346 • 559.453.6800
FAX 800.695.4753
www.netafimusa.com

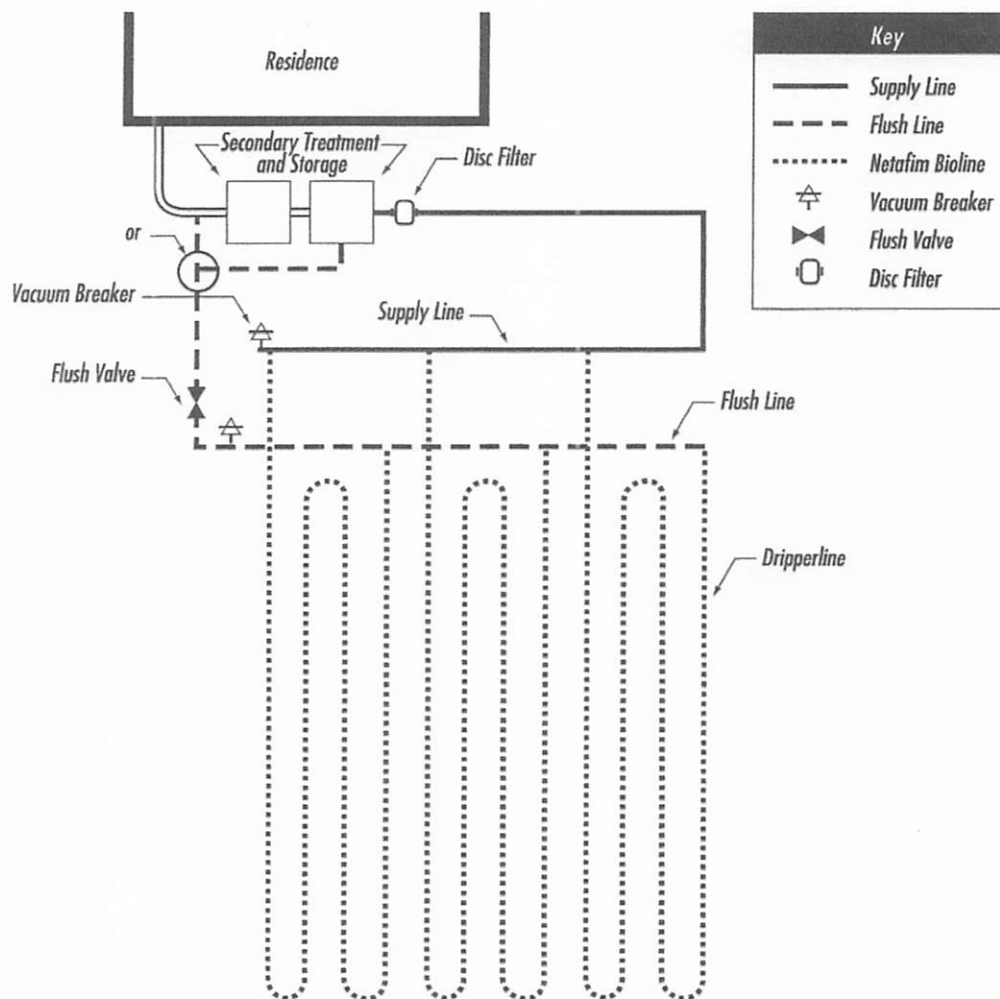
NETAFIM WASTEWATER DISPERSAL SYSTEM DESIGN GUIDE

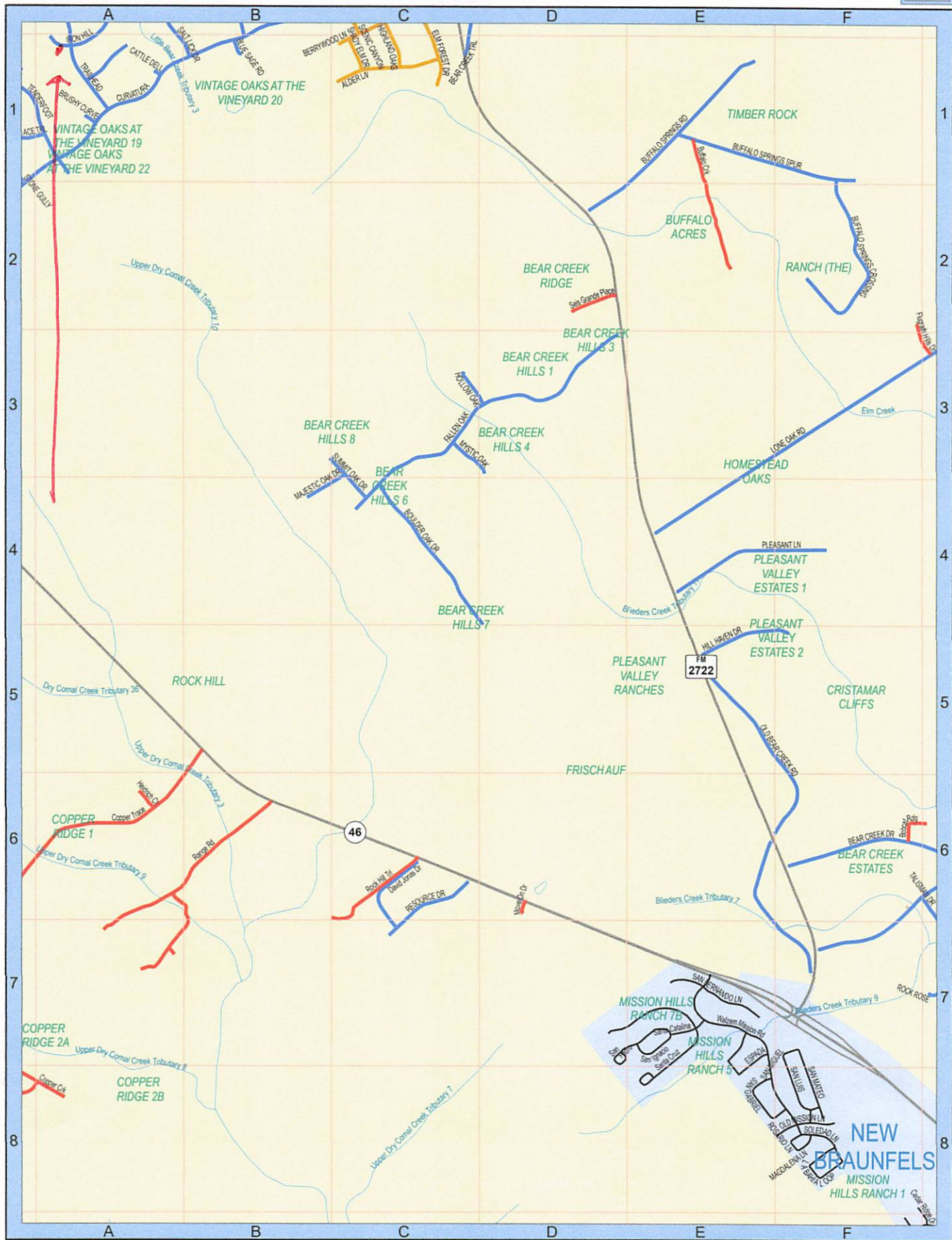
SAMPLE DESIGNS

SINGLE TRENCH LAYOUT

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

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





SEE PAGE 58

GF# 2437169-SHSA

General Warranty Deed

Notice of confidentiality rights: If you are a natural person, you may remove or strike any or all of the following information from any instrument that transfers an interest in real property before it is filed for record in the public records: your Social Security number or your driver's license number.

Date: November 8, 2024

Grantor: Jonathan James Smith and Jennifer F. Smith

Grantee: Rory Scott Parker and Rita K. Parker, Trustees of the R&R Parker Family Trust dated October 4, 2024

3299 Espada
New Braunfels, TX 78132

Consideration: Ten and No/100ths (\$10.00) Dollars, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged and confessed.

Property (including any improvements): Lot 2028, VINTAGE OAKS AT THE VINEYARD, UNIT 25, Comal County, Texas, according to plat thereof recorded in Document #201906013327, Map and Plat Records of Comal County, Texas.

Reservations from Conveyance: None.

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

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

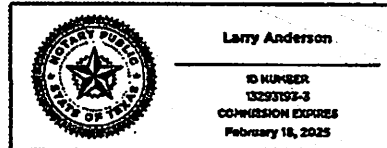
part thereof, except as to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty.

When the context requires, singular nouns and pronouns include the plural. Additionally, this instrument may be executed in multiple counterparts and by different parties in separate counterparts, which, when taken together, shall constitute one original instrument.

Jonathan James Smith
Jonathan James Smith

Jennifer F. Smith
Jennifer F. Smith

THE STATE OF TEXAS
COUNTY OF Montgomery



This instrument was acknowledged before me on this 7th day of November, 2024, by Jonathan James Smith.

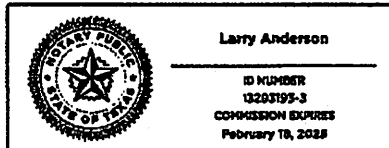
Larry Anderson

Notary Public, State of Texas

Electronically signed and notarized online using the Proof platform.

THE STATE OF TEXAS
COUNTY OF Montgomery

This instrument was acknowledged before me on this 7th day of November, 2024, by Jennifer F. Smith.



Larry Anderson

Notary Public, State of Texas

Electronically signed and notarized online using the Proof platform.

After Recording Return To:
Rory Scott Parker and Rita K. Parker, Trustees

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
11/08/2024 01:29:07 PM
TERRI 2 Pages(s)
202406034210



Bobbie Koepp



COMAL COUNTY
ENGINEER'S OFFICE

**OSSF DEVELOPMENT APPLICATION
CHECKLIST**

Staff will complete shaded items

| | | |
|----------------------|-----------------|----------------------|
| | | 118631 |
| <i>Date Received</i> | <i>Initials</i> | <i>Permit Number</i> |

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

05/10/2025

Date

___ COMPLETE APPLICATION

Check No. _____ Receipt No. _____

INCOMPLETE APPLICATION

___ (Missing Items Circled, Application Refused)