

Comal County Environmental Health

OSSF Inspection Sheet

Installer Name: Countryside

OSSF Installer #: OS0002929

1st Inspection Date: 11/14/25

2nd Inspection Date: _____

3rd Inspection Date: _____

Inspector Name: Hendry

Inspector Name: _____

Inspector Name: _____

Permit#: **118898**

Address: **1016 ADYSON RIDGE DR**

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	X	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)		X		
2	SITE AND SOIL CONDITIONS & SETBACK DISTANCES Setback Distances Meet Minimum Standards	X	285.91(10) 285.30(b)(4) 285.31(d)		X		
3	SEWER PIPE Proper Type Pipe from Structure to Disposal System (Cast Iron, Ductile Iron, Sch. 40, SDR 26)	X	285.32(a)(1)		X		
4	SEWER PIPE Slope from the Sewer to the Tank at least 1/8 Inch Per Foot	X	285.32(a)(3)		X		
5	SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends)	X	285.32(a)(5)		X		
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: **11/14/25 CH:**

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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	X	285.32(b)(1)(F) 285.32(b)(1)(G) 285.34(b)		X		
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	X			X		
15	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number	X X		Solar Air SA-600; as per design	X X		
16	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
17	DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
18	DISPOSAL SYSTEM Evapo-transpirative		285.33(a)(3) 285.33(a)(4) 285.33(a)(1) 285.33(a)(2)				

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No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
19	DISPOSAL SYSTEM Drip Irrigation		285.33(c)(3)(A)-(F)				
20	DISPOSAL SYSTEM Soil Substitution		285.33(d)(4)				
21	DISPOSAL SYSTEM Pumped Effluent		285.33(a)(4) 285.33(a)(3) 285.33(a)(1) 285.33(a)(2)				
22	DISPOSAL SYSTEM Gravelless Pipe		285.33(a)(3) 285.33(a)(2) 285.33(a)(4) 285.33(a)(1)				
23	DISPOSAL SYSTEM Mound		285.33(a)(3) 285.33(a)(1) 285.33(a)(2) 285.33(a)(4)				
24	DISPOSAL SYSTEM Other (describe) (Approved Design)	X	285.33(d)(6) 285.33(c)(4)	Surface spray	X		
25	DRAINFIELD Absorptive Drainline 3" PVC or 4" PVC						
26	DRAINFIELD Area Installed						
27	DRAINFIELD Level to within 1 inch per 25 feet and within 3 inches over entire excavation		285.33(b)(1)(A)(v)				
28	DRAINFIELD Excavation Width DRAINFIELD Excavation Depth DRAINFIELD Excavation Separation DRAINFIELD Depth of Porous Media DRAINFIELD Type of Porous Media						
29	DRAINFIELD Pipe and Gravel - Geotextile Fabric in Place		285.33(b)(1)(E)				
30	DRAINFIELD Leaching Chambers DRAINFIELD Chambers - Open End Plates w/Splash Plate, Inspection Port & Closed End Plates in Place (per manufacturers spec.)		285.33(c)(2)				
31	LOW PRESSURE DISPOSAL SYSTEM Adequate Trench Length & Width, and Adequate Separation Distance between Trenches		285.33(d)(1)(C)(i)				

**Comal County Environmental Health
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No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
32	EFFLUENT DISPOSAL SYSTEM Utilized Only by Single Family Dwelling EFFLUENT DISPOSAL SYSTEM Topographic Slopes < 2.0% EFFLUENT DISPOSAL SYSTEM Adequate Length of Drain Field (1000 Linear ft. for 2 bedrooms or Less & an additional 400 ft. for each additional bedroom) EFFLUENT DISPOSAL SYSTEM Lateral Depth of 18 inches to 3 ft. & Vertical Separation of 1ft on bottom and 2 ft. to restrictive horizon and ground water respectfully EFFLUENT DISPOSAL SYSTEM Lateral Drain Pipe (1.25 - 1.5" dia.) & Pipe Holes (3/16 - 1/4" dia. Hole Size) 5 ft. Apart		285.33(b)(3)(A) 285.33(b)(3)(A) 285.33(b)(3)(B) 285.91(13) 285.33(b)(3)(D) 285.33(b)(3)(F)				
33	AEROBIC TREATMENT UNIT Is Aerobic Unit Installed According to Approved Guidelines.	X	285.32(c)(1)		X		
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	X X X X			X X X X		
35	AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place.	X			X		
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?	X	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)		X		
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	X X	285.33(d)(2)(G) (i)285.33(d)(2) (A)285.33(d)(2)(F)		X X		
42	APPLICATION AREA Area Installed	X			X		
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: 118898
Issued This Date: 09/09/2025
This permit is hereby given to: Steve & Natalie Wiggins

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

1016 ADYSON RIDGE DR
CITY OF BULVERDE, TX 78163

Subdivision: Centennial Ridge
Unit: 3
Lot: 60
Block: 1
Acreage: 5.0100

APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic
Surface Irrigation

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

Call (830) 608-2090 to schedule inspections.

RECEIVED

By Kathy Griffin at 8:43 am, Aug 04, 2025



COMAL COUNTY
ENGINEER'S OFFICE

**OSSF DEVELOPMENT APPLICATION
CHECKLIST**

Staff will complete shaded items

--	--

Date Received

Initials

118898

Permit Number

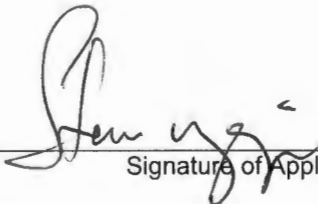
Instructions:

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

 7/14/25

Date

___ COMPLETE APPLICATION	
Check No. _____	Receipt No. _____

___ INCOMPLETE APPLICATION (Missing Items Circled, Application Refeused)	
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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 _____

Permit Number 118898

1. APPLICANT / AGENT INFORMATION

Owner Name Steve + Natalie Wiggins
Mailing Address 2154 Appellation
City, State, Zip New Braunfels TX 78132
Phone # _____
Email _____

Agent Name Planet Friendly Designs
Agent Address 1353 Lakeside Loop
City, State, Zip Round Rock, TX 78665
Phone # 512-757-5827
Email planetfriendlydesigns@gmail.com

2. LOCATION

Subdivision Name Centennial Ridge Unit 3 Lot 60 Block 1
Survey Name / Abstract Number 21184STK Acreage 5.01
Address 1016 Adyson Ridge City Bulverde State TX Zip 78163

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 3001

☐ 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: \$ 1,242,700 (Structure Only)

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

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

Source of Water ☐ Public ☒ Private Well

4. SIGNATURE OF OWNER

By signing this application, I certify that:

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

Signature of Owner Steve + Natalie Wiggins

Date 7/14/25



ON-SITE SEWAGE FACILITY APPLICATION

Planning Materials & Site Evaluation as Required Completed By Eric Schneider RS4431/Corrie Smith OS0029488

System Description Aerobic Surface Application

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

Tank Size(s) (Gallons) 600 ATU Absorption/Application Area (Sq Ft) 5,652 Sq Ft

Gallons Per Day (As Per TCEQ Table III) 360 GPD

(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: Bulverde

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 of Designer

7/12/25
Date

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: Steve + Natalie Wiggins
Subdv: Centennial Ridge COUNTY: Comal
Permit #: _____ TYPE: _____
Phone: _____
Model #: _____

Address: 1016 Adyson Ridge
City: Bulverde, ST: TX Zip 78163
Serial #: _____

☒ Initial Two Year Service Agreement
& Two Year Limited Warranty

☐ One Year Service Agreement

____ RENEWAL

____ NAME TRANSFER

____ ANALYSIS

Legal Description _____

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

For _____, this contract will be in effect FROM _____ TO _____ and will provide the following:

- 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 the notification.
- F. **ANY PARTS, WARRANTY OR NON-WARRANTY, OR FREIGHT CHARGES, LABOR OR SERVICE CALLS DUE BUT 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 warrant 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 "Parts Under Warranty" 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 manufacturer's 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.

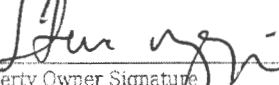
This contract does not include the pumping of a tank or of any compartment of a tank, or settlement of soil on or around any part of the system regardless of reason:

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 - Operator Licensee #050002929**

(X)  _____ Print Name (X) Steve Wiggins Date: 7/14/25
Property Owner Signature

(X) Walker Chapman _____ Date: _____ Authorized Service Representative
050002929

2/c

AFFIDAVIT TO THE PUBLIC

THE COUNTY OF COMAL
STATE OF TEXAS

CERTIFICATION OF OSSF REQUIRING MAINTENANCE

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

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 OSSF's 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 maintenance contract, according to 30 Texas Administrative Code §285.91 (12) will be installed on the property described as (insert legal description): Lot 60, Block 1,

Centennial Ridge Unit 3, a subdivision in Comal
County, Texas

The property is owned by (insert owner's full name): Steven J. Wiggins and
Natalie R. Wiggins

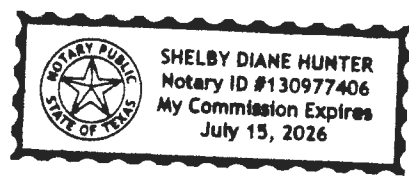
This OSSF must be covered by a continuous maintenance contract for the first two years. After the initial two-year service policy, the owner of an aerobic treatment system for a single family residence shall either obtain a maintenance contract within 30 days or maintain the system personally. Upon sale or transfer of the above-described property, the permit for the OSSF shall be transferred to the buyer or new owner. A copy of the planning materials for the OSSF can be obtained from the Comal County Engineer's Office.

WITNESS BY HAND(S) ON THIS 14 DAY OF July, 20 25

Steven J. Wiggins
Natalie R. Wiggins
Owner(s) signature(s)

SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 14 DAY OF July, 20 25

Shelby D. Hunter
Notary Public, State of Texas





This page has been added to comply with the statutory requirements that the clerk shall stamp the recording information at the bottom of the last page.

This page becomes part of the document identified by the file clerk number affixed on preceding pages.

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
08/01/2025 04:03:28 PM
IRENE 2 Page(s)
202506024040



Bobbie Koepp

PLANET FRIENDLY DESIGNS
PLANETFRIENDLYDESIGNS@GMAIL.COM
512-757-5827

July 12, 2025

To Whom It Concerns:

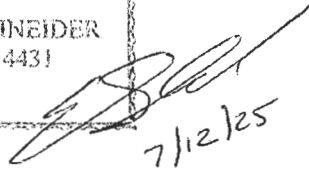
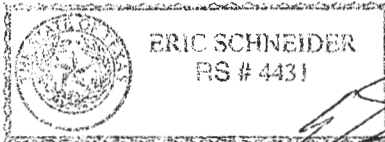
The following septic design was created to service a 5 bedroom single family residence that will be less than 4,500 sq. ft. The project will be located at 1016 Adyson Ridge Drive in Bulverde, TX.

If there are any questions or concerns, please do not hesitate to contact me.

Sincerely,



Eric Schneider, R.S.
R.S. #4431

A handwritten signature, likely of Eric Schneider, written over the date "7/12/25".

Received

Brandon Mark Olvera

11/12/2025 9:42:47 AM

PLANET FRIENDLY DESIGNS

PLANETFRIENDLYDESIGNS@GMAIL.COM

512-757-5827

November 4, 2025

Permit: 188898

1016 Adyson Ridge Drive

Bulverde, TX 78163

To Whom It Concerns:

The following changes were made to the OSSF design associated with the permit number above:

1. The spray heads were changed from 360 degrees to 180 degrees. An additional 2 spray heads were added to the spray field. This is reflected on the site plan and in the narrative section.
2. Friction Head calculations were adjusted to reflect the new length of distribution pipe being used.

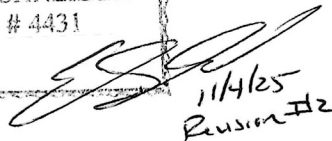
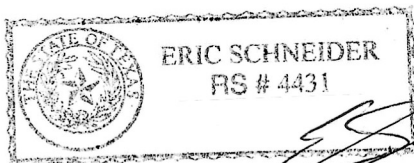
If there are any questions or concerns, please do not hesitate to contact me.

Sincerely,



Eric Schneider, R.S.

R.S. #4431

Handwritten signature and date "11/4/25" and "Revision #2" written over the seal.

Received

Brandon Mark Olvera

11/12/2025 9:42:54 AM

PLANET FRIENDLY DESIGNS
PLANETFRIENDLYDESIGNS@GMAIL.COM
512-757-5827

OSSF SOIL EVALUATION FORM

Physical Address: 1016 Adyson Ridge Road Bulverde, TX 78163

Date Performed: July 2, 2025 Proposed Excavation Depth: 1 Foot

Profile Hole 1

Depth (ft)	Textural Class	Description of Soil	Drainage Mottles/Water Table	Restrictive Horizon	Comments
0	Class IV	Black Clay	None	None	< 30% Gravel
1					
2					
3					
4					
5					

Profile Hole 2

Depth (ft)	Textural Class	Description of Soil	Drainage Mottles/Water Table	Restrictive Horizon	Comments
0	Class IV	Black Clay	None	None	< 30% Gravel
1					
2					
3					
4					
5					

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

Presence of 100 year flood zone: **N** Recharge features within 150 feet: **N**

Existing or proposed water well: **Y**

Presence of adjacent ponds, streams, water impoundments: **N**

Organized Sewage available on lot or tract: **N** Suitable for standard system: **N/A**

Corrie Smith

Site Evaluator

CSH0219458

SE #

Pump Float Settings

Pump Off Position: 7 in. above tank floor = 131.25 gal

Pump On Position: 8 in. above tank floor = 150.00 gal

Alarm On Position: 28 in. above tank floor = 525.00 gal

Reserve Capacity: 13.5 in. (778 gal – 525.00 gal) = 253.00 gal (> 2/3 estimated gpd)

Pump and Sprinkler Heads

Elevation Head: 6 ft

Pressure Head: 30 psi x 2.3 = 69

Friction Head: 260 ft of 1 in. Sch. 40 PVC – 260 ft x .0213 = 5.54

Total Head (TDH): 6 + 69 + 5.54 = 80.54 ft (Within the pump performance curve)

Pump: Franklin Electric C1 Series 10CI-05P4-2W230

Sprinkler Heads: K-Rain Pro Plus Professional series with Low Angle Nozzle #4, operating at 30 psi, 30 ft. radius, and 3.4 gpm flow per sprinkler.

Chlorinator

This system will utilize a NSF approved Liquid Chlorinator.

Dosing:

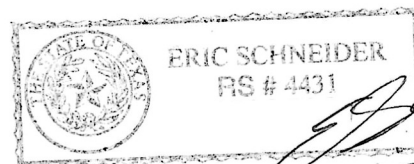
This system will utilize a commercial timer to cycle power to the pump-on float switch twice per night.

Disposal period for overnight disposal is between midnight and 5 AM.

360 gpd/2 doses per day = 180 gal per dose

4 sprinklers x 3.4 gal per minute = 13.6 gallons per minute

180 gal per dose/13.6 gal per minute ≈ 14 minutes per dose



Construction/Installation Notes & Requirements

- Refer to site plan for component placement and follow manufacturer's instructions for installation of treatment plant and aerator.
- All materials and construction methods are required to conform to the standards for Private Sewage Facilities set forth by the Texas Administrative Code, Chapter 285 On-Site Sewage Facilities.
- The installer must have a current and valid Texas installer certificate, and is required to have at the minimum an Installer II certification.
- The installer must notify the designer and regulatory authority at least 48 hours in advance to schedule required inspections to ensure that the system is installed in accordance with approved plans and specifications.
- Diversion berms will be placed when needed to protect irrigation and tank areas from excessive runoff.
- It is the responsibility of the installer to maintain the minimum setback requirements as stated in Chapter 285 On-Site Sewage Facilities.
- No part of the system shall be located within 10 feet of a potable water line.
-

Electrical Components

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

Tank Notes

- The bottom of the excavation for the tanks should be level and free of large rocks and debris.
- All tanks are to be set level on a minimum 4 inch layer of sand, sandy loam, clay loam, or pea gravel.
- Risers are required on tank inspection ports as per 30 TAC 285.38 (9/1/2012.) This includes access limitation (<65 lbs lid or hardware secured lid) and secondary plug, net, or mesh in riser. Risers are required to be two inches above grade level.
- All openings in the tank must be properly sealed to prevent the escape of wastewater, and/or to prevent the infiltration of water.
- Tanks must be filled with water for at least 24 hours to test for leaks and structural integrity.
- The tanks must be set low enough to have fall of at least 1/8 inch per foot from house to tank.
- PVC pipe from house to tank must be at least Sch. 40 or SDR 26.

Irrigation and Landscape Notes

- Irrigation lines should be 1 inch Sch. 40 PVC. All supply lines, sprinkler heads, and valve cover boxes must be permanently colored purple. Sleeve any pipe that crosses any road, driveway, or other land improvement with Sch. 40 PVC.
- Supply lines must be buried at least 6 inches below finished grade.
- If irrigation area does not have established vegetation, a mixture of winter rye or Bermuda grass will be seeded to establish seasonal vegetation.
- The installer will notify the property owner prior to removal of any trees/bushes that may obstruct the operation of the irrigation system.
- All exposed surface rock must be covered with at least 4 inches of suitable soil.

Additional Notes

- Install audio-visual alarm for aerator and pump on separate breakers.
- The high water and air compressor alarms should be audio/visual and mounted in a place that can be easily seen and heard when alarms are activated.

Maintenance Requirements

- The applicant must furnish to the regulatory authority a valid maintenance contract with a certified maintenance company before a permit will be issued.
- The maintenance company will verify that the system is operating properly and 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 property owner must continuously maintain a signed written contract with a valid maintenance company and will 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 file 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:
 - The new owner being advised that the property contains a surface application system for wastewater disposal.
 - The permit issued to the previous owner of the property being transferred to the new owner in accordance with Chapter 285.3(b)(3) of the TCEQ OSSF 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 ownership of the OSSF has been severed from the property.
 - 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.
- Feminine hygiene products should never be disposed of in the toilet. Products such as these can be detrimental to a septic system, causing backups inside the home and/or overflowing of the tank due to pump malfunction.
- The excessive use of in-sink garbage grinders and grease discarding should be avoided. In-sink garbage grinders can cause a rapid buildup of sludge or scum resulting in a more frequent cleaning and possible system failure.
- Do not use the toilet to dispose of cleaning tissue, cigarette butts, or other trash. This disposal practice will waste water and also impose an undesirable solid load on the treatment system.
- Septic tanks should be cleaned before sludge accumulates to a point where it approaches the bottom of the outlet device. If sludge or scum accumulates to this point, solids will leave the tank with the liquid and possibly cause the system to clog resulting in sewage surfacing or backing up into the house through plumbing fixtures.
- A regular schedule of cleaning the tank at two to three year intervals should be established. Commercial cleaners are equipped to readily perform the cleaning operation. Owner of OSSF's will contract only persons registered with TCEQ to transport the septic system waste.
- Do not build driveways, storage buildings, or other structures of system components on the disposal field.
- Chemical additives, or so-called enzymes, are not necessary for the operation of a septic tank. Some of these additives may even be harmful to the system's operation.
- Soaps, detergents, bleaches, drain cleaners, and other household cleaning materials will very seldom affect the operation of the system. However, moderation should be exercised in the use of such materials.
- The homeowner shall observe Chapter 285.37 regarding water softeners and reverse osmosis entering into the OSSF.
- The liquid from the OSSF is still heavily laden with bacteria. The surfacing of this liquid constitutes a health hazard to those that might come into contact with it.

Water Conservation Practices

- Showers usually use less water than baths. Installing water saving shower heads that use less than 2.5 gallons per minute saves both water and energy.
- If you take a tub bath, reduce the level of water in the tub from the level to which you customarily fill it.
- Leaky faucets and faulty toilet fill-up mechanisms should be repaired as quickly as possible.
- Leaking toilets may not be evident. Add a few drops of food coloring into the tank. Do not flush. If the color appears in the bowl within a few minutes, adjustments and/or repairs to the toilet need to be made.
- Install low-flow fixtures throughout the house and use faucet aerators that restrict water flow to help reduce consumption.
- Try to run dishwasher with a full load.
- Avoid running the water continuously for brushing teeth, washing hands, shaving, or rinsing kitchen utensils.

- Water can be saved in the laundry room by adjusting water levels to match the size of the load. If the washing machine does not have a variable load control, water can be saved by running it only when the washer is full.
- Keep a container of drinking water in the refrigerator instead of running a faucet until it turns cold.
- Insulate hot water pipes to avoid long delays of wasted water while waiting for the water to heat.
- Ask your federal, state, county, city, or other local government about programs to conserve water and how they can help you save water.

This proposed system has been designed generally following the minimum requirements under TCEQ Chapter 285 On-Site Sewage Facilities. The site evaluation and subsequent design are based on technical information currently available. There was no indication of shallow groundwater or slopes where seeps could occur at the time of the site evaluation. 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 or modifications to the OSSF may need to be made. By accepting this design, the homeowner/builder understands that the designer/site evaluator will not be liable for more than the agreed upon design fee.

11/4/25
Revision #2

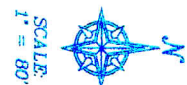
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NOTES:
BASIS OF BEARING IS TEXAS STATE
PLANE COORDINATE SYSTEM OF 1983,
SOUTH CENTRAL ZONE.
FND, PN = 1/2" REBAR FOUND
SET, PN = 1/2" REBAR SET WITH YELLOW
PLASTIC CAP STAMPED TOWNS 3682.
ELEVATIONS BASED ON NAVD 1988.

LEGEND
EM = ELEC. PETER
WM = WATER PETER
NM = NOD. PETER
OR = ORO. RECORDS
PWR = MAP & PLAT RECORDS
OAKS = 8" DIA. OAK TREE

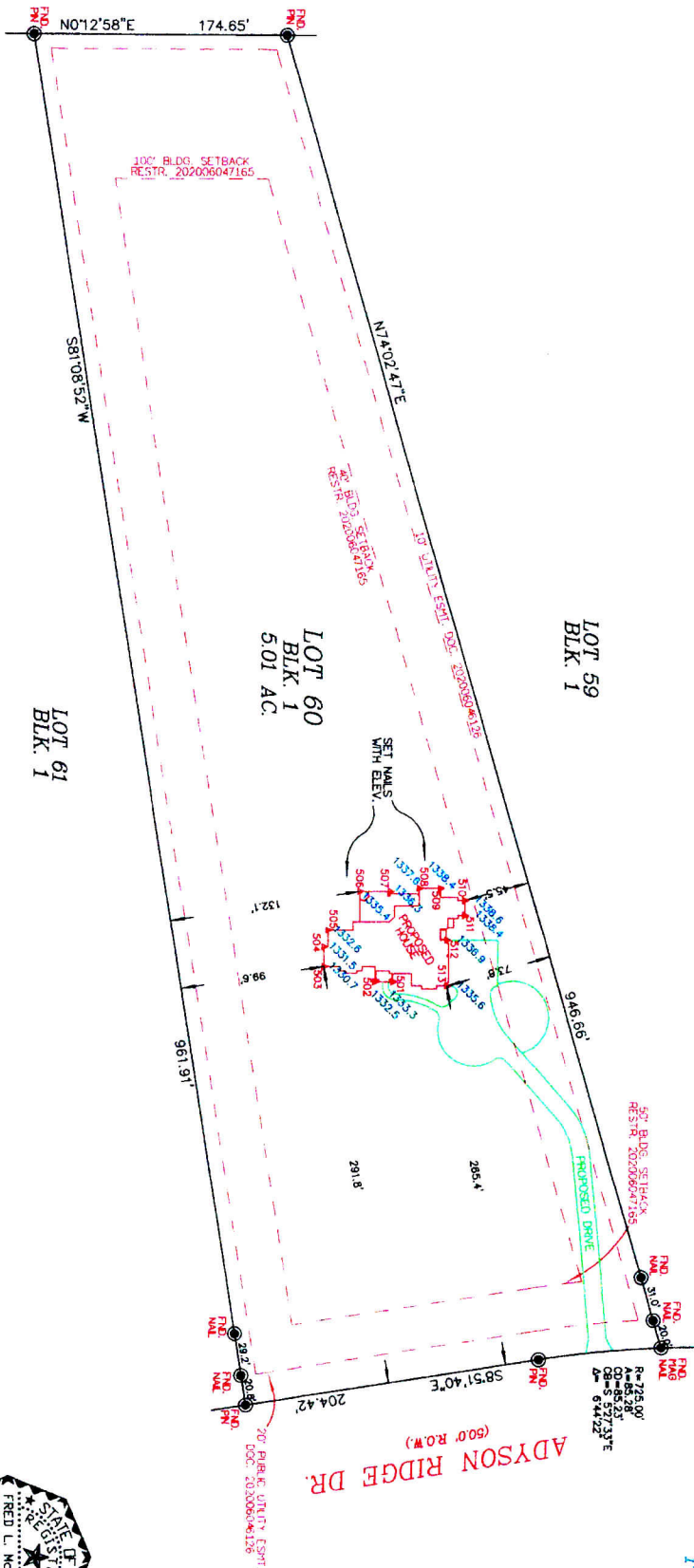
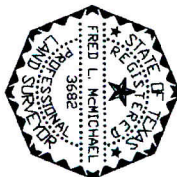


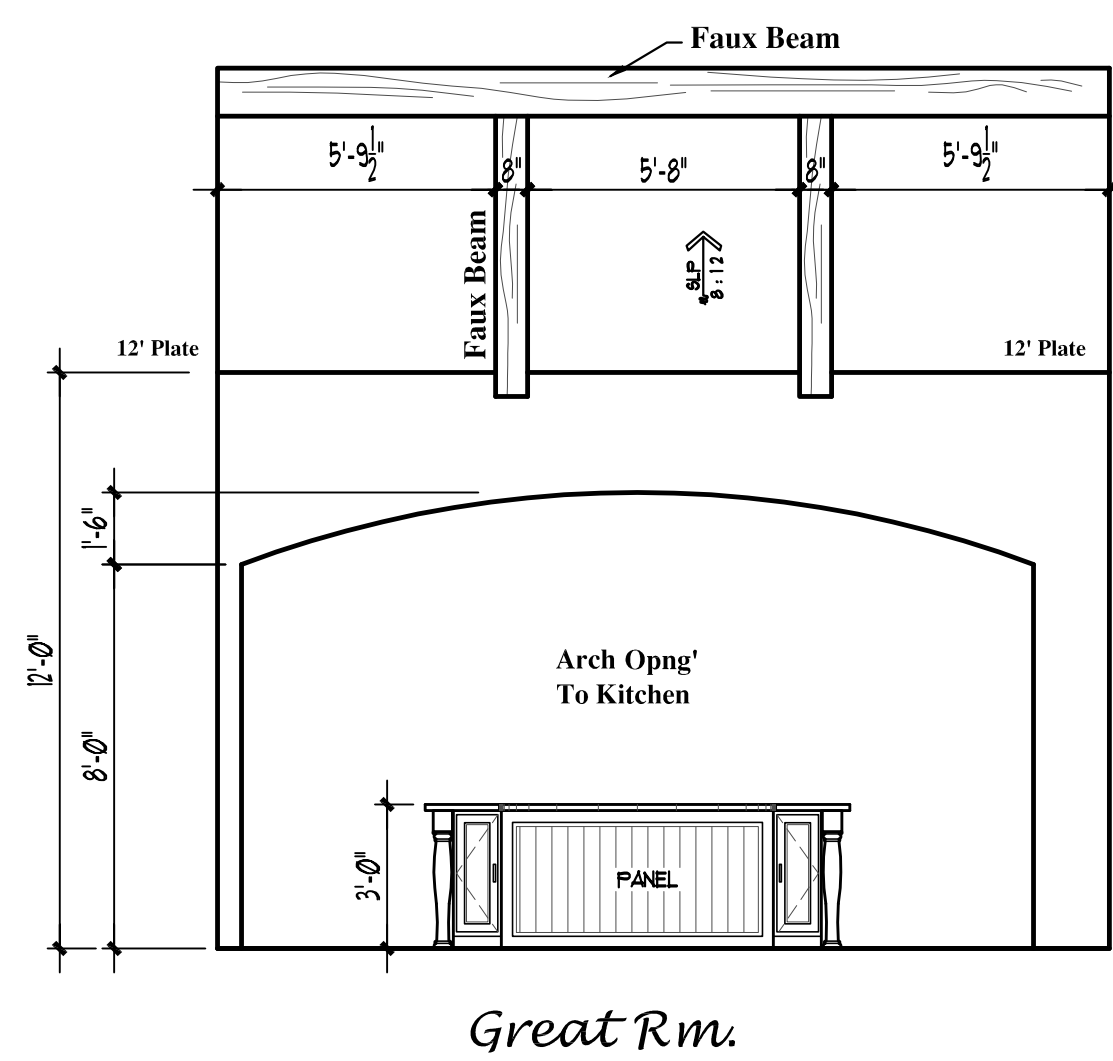
LOT 60, 545/560
545/560

16 ADYSON RIDGE DRIVE
LOT 60, BLOCK 1, CENTENNIAL
LOT 3, CITY OF BUIVERDE, COMAL
TEXAS, PLAT RECORDED IN DOC.
126, OFFICIAL RECORDS, COMAL
TEXAS.

monticellandsurveying.com
MONTICHELL LAND SURVEYING
907 WHITE WAT, NEW BRADWELLS, TX 78130
EMAIL: fred@monticellandsurveying.com
(850) 682-8258 FIRM NO. 10183980

STATE OF TEXAS :
COUNTY OF COMAL
I, FRED L. MONTICHELL, DO HEREBY CERTIFY THAT
THIS SURVEY WAS PREPARED BY ME OR UNDER MY
SUPERVISION AND THAT I AM A LICENSED LAND SURVEYOR
IN THE STATE OF TEXAS.
FRED L. MONTICHELL R.P.L.S. NO. 3682
JANUARY 15, 2025
PROJECT NO. 218561X





General Notes:

ALLOW FOR METAL LINTELS
ABOVE DOOR & WDW OPENINGS
WITH MASONRY ABOVE

1. HYAC UNIT IN ATTIC, PROVIDE 220V OUTLET, PROVIDE LIGHT FIXTURE NEAR UNIT SWITCHED AT ATTIC ENTRANCE, PROVIDE METAL DRIP PAN WITH OUTSIDE DRAIN LINE. PROVIDE SUB-FLOOR WALKWAY TO & AROUND UNIT CONFORMING TO APPLICABLE CODE.

2. AC CONTRACTOR MAY REQUIRE THE USE OF ADDITIONAL AREAS FOR THE USE OF DUCTWORK OR EQUIPMENT. VARY ANY CHANGES WITH OWNER & BUILDER

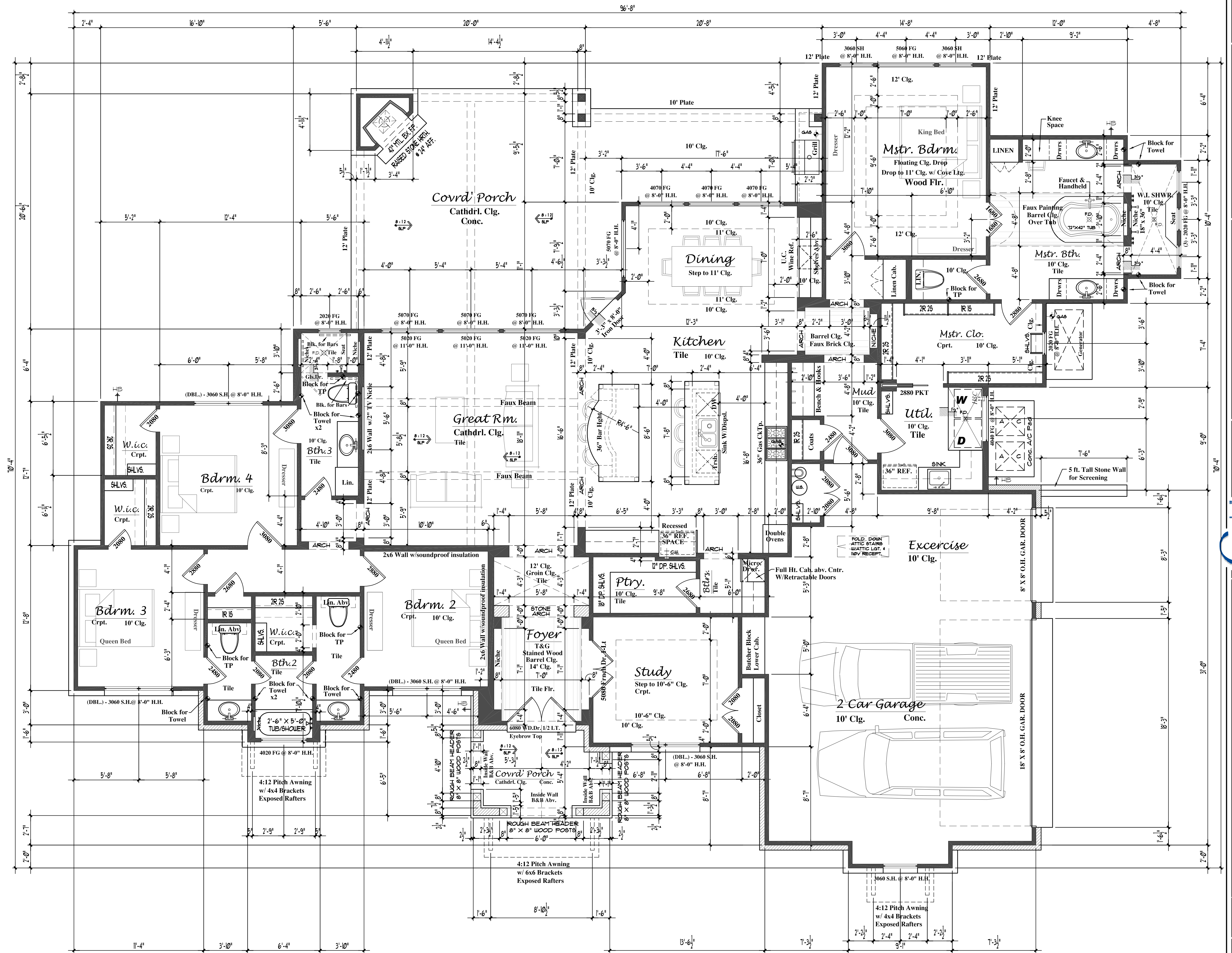
3. TANKLESS WH. UNIT IN ATTIC, PROVIDE L.P. SUPPLY, PROVIDE LIGHT FIXTURE NEAR UNIT SWITCHED AT ATTIC ENTRANCE, PROVIDE METAL DRIP PAN WITH OUTSIDE DRAIN LINE. PROVIDE SUB-FLOOR WALKWAY TO & AROUND UNIT CONFORMING TO

NOTE:
ALL SHT. ROCK CORNERS
TO BE ROUNDED.

- 10 These construction documents and specifications are intended to meet all applicable codes and ordinances. Contractor shall verify all local codes, ordinances and deed restrictions.
- 20 Any discrepancies in construction documents to be brought to the attention of the architect prior to work being performed or materials being ordered.
- 30 All windows will be dimensioned to center line unless otherwise specified in the mfr. specs.
- 40 All windows within 24" of an exterior or interior door to be tempered glass. Window manufacturer to verify for all tempered glass locations as applicable to code.
- 50 Builder to verify sizing and location of all appliances & related components.
- 60 Weather strip attic access door(s).
- 70 Contractor to provide a 3/4" plywood subfloor, from attic access door to exterior wall (applies) units to be within 20'-0" of ventilation.
- 80 Provide 1 sq. net free area of attic ventilation per 150 sq. ft. of attic area as per code.
- 90 All plumbing appliance gas vents to vent to rear of roof ridge wherever possible.
- 100 Provide caulk and expansion joints as required to meet code and manufacturer's instructions.
- 110 Provide a 4" masonry door sill at exterior door thresholds with masonry lug.
- 120 Unless noted otherwise standard paint sheving to be as follows:
 1. Lowest 2 shavings to be 16" D. with height spacing of 14" clear.
 2. Remaining shavings to be 12" D. with height spacing of 12" clear.
- 130 Provide blocking for ceiling fans where specified

SQUARE FOOTAGES

TOTAL LIVING	3,001-SQFT
FRONT PORCH	101-SQFT
REAR PORCH	634-SQFT
GARAGE	795-SQFT
TOTAL SLAB	4,531-SQFT
TOTAL COVERED	4,531-SQFT



First Floor Plan

SCALE: 1/4" = 1'-0"

FINAL SET APPROVED FOR CONSTRUCTION

REVISIONS

THIS SET OF PLANS HEREBY NOTICES BOTH OWNER AND BUILDER THAT THE DESIGNER RELIEVES HIMSELF OF LIABILITIES TO PROBLEMS AT SITE IN REFERENCE TO SAID WORKING DRAWINGS. THESE PLANS ARE PURCHASED BY THE OWNER OR BUILDER AS A MINIMUM SET OF PLANS AND SHOULD BE USED ONLY AS A GUIDELINE. THE BUILDER IS RESPONSIBLE FOR AND SHOULD REVIEW ALL DRAWINGS, SPECIFICATIONS, LOCAL CODES, ELECTRICAL, JOISTS, JOISTERS, FOUNDATION, REQUIREMENTS, SITE RESTRICTIONS, FRAMING AND WOOD LOAD REQUIREMENTS ETC., PRIOR TO COMPLETION OF PLANS AND PRIOR TO ANY CONSTRUCTION.



JOHN COHEN
CUSTOM HOMES
- EST. 2003 -



Campbell
designs

126 QUEEN ANNE CR. #2 CAMDEN
SHAWN CAMPBELL
Residential and Light
Plans and Renderings
(210) 364-7770

**WIGGINS FAMILY
RESIDENCE**

DRAWN BY:
SHAWN CAMPBELL

START DATE:	10-12-24
-------------	----------

PRINT DATE: 04-08-25

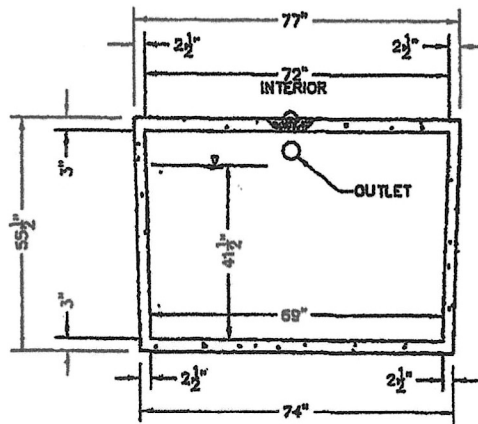
SHEET NO.

3 OF 8

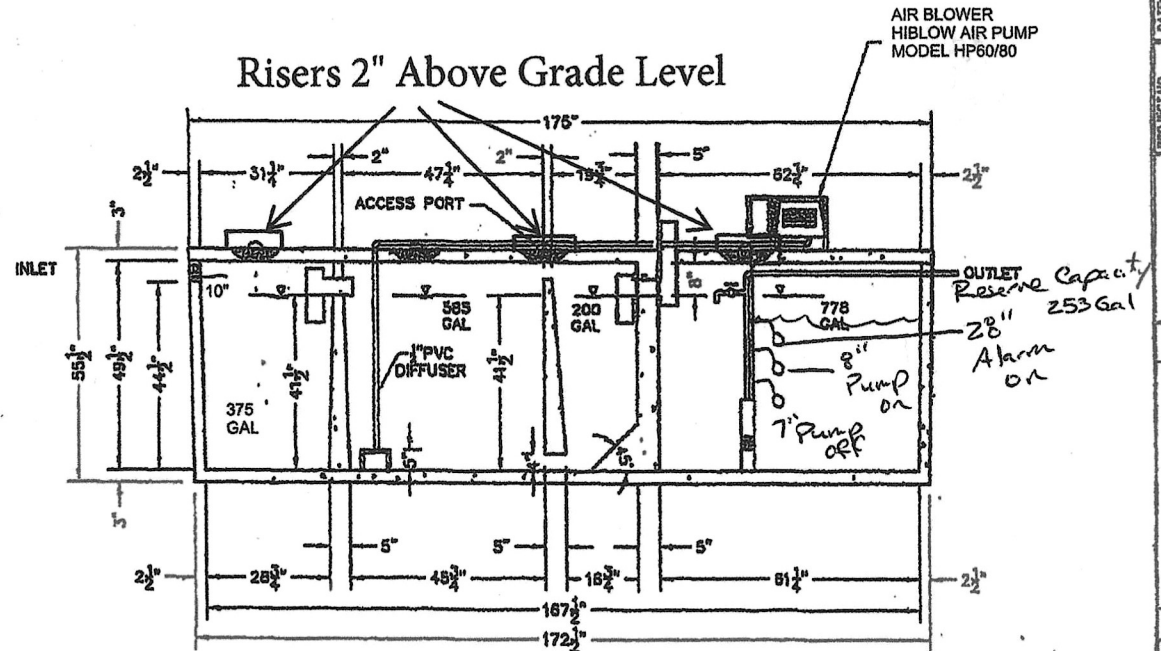
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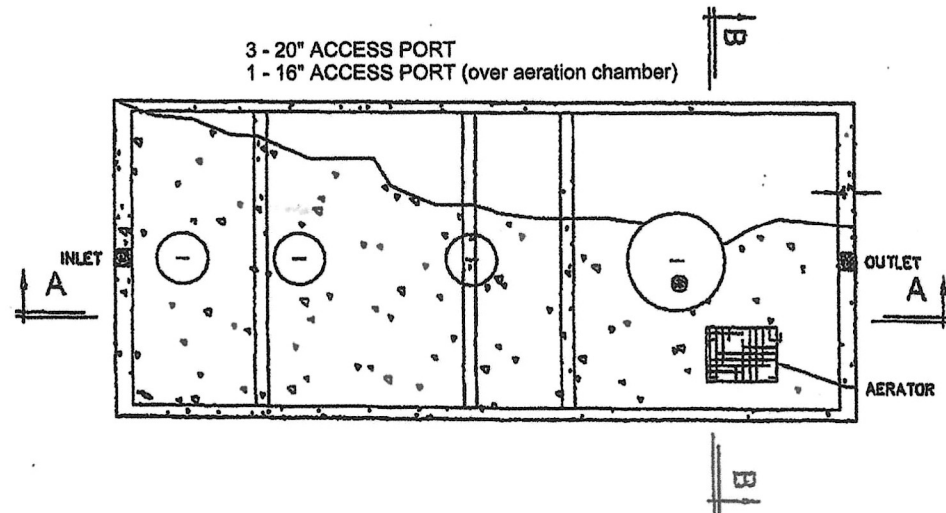


SECTION B-B

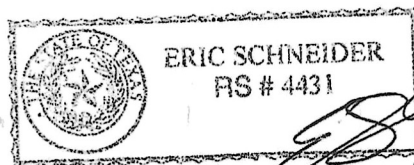


SECTION A-A

3 - 20" ACCESS PORT
1 - 16" ACCESS PORT (over aeration chamber)



PLAN VIEW



8/12/25
R. Olson

TOTAL EMPTY WEIGHT: #16880

DATE	DEC 2010	SA-3
PROJECT NO.		
SCALE	1/8" = 1'	
DATE		
REVISION		
BY		
SOLAR AEROBIC 6754 HWY 80 EAST LAKE CHARLES, LA 70615 PHONE (337) 439-0980		
MODEL SA600-768FT SEWER TREATMENT SYSTEM		
DESIGNER: ESC		
DRAWN: ESC		
CHECKED: ESC		

SA600LP

GRAVITY FLOW Liquid Bleach Chlorinator

US Patent Pending

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LBC Manufacturing
P.O. Box 454
Fayetteville, TEXAS 78840
(879) 826-0139 off.

For a downloadable copy:
www.ez-tank.com



THIS PRODUCT WAS EVALUATED AS A
CHLORINE DISINFECTION DEVICE AND MEETS OR
EXCEEDS THE APPLICABLE REQUIREMENTS OF
STANDARD 46

CHLORINE DISINFECTION DEVICE PERFORMANCE

The LBC MFG "EZ-Tank" is a proven disinfection device that meets the applicable requirements of NSF standard 46 for Chlorine disinfection devices. The EZ-Tank is listed as a certified chlorine disinfection device for secondary treated effluent. Certification requires the device to be used with 6-10% sodium hypochlorite (household bleach). The EZ-Tank Disinfection device is a gravity flow product that applies disinfectant to a holding tank as the water level rises thus giving the ultimate amount of contact time for the disinfectant to work.

THE LIQUID CHLORINATION PROCESS

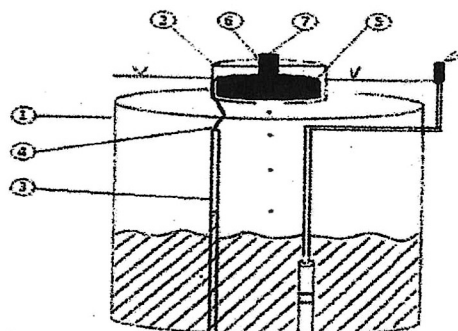
LBC Manufacturing designed and built the "EZ-Tank" to provide years of trouble-free service. It is constructed from durable Polyethylene material which can withstand the corrosive nature of Sodium Hypochlorite (Household Bleach). It has been tested to NSFANSI Std 46 and has proven to function more consistently, at a lower operating cost, than any other disinfection method.

The basic function of the Liquid Bleach Chlorinator is to introduce disinfectant to the effluent water in the Holding/Pump tank as the effluent enters. The longer the contact time the disinfectant has to interact with pathogens, the better it disinfects. The ideal method is minimum contact time for minimal pathogen survival.

RECOMMENDED INSTALLATION INSTRUCTIONS

LBC Manufacturing recommends installation by TCEQ licensed and trained installers.

1. Locate the Aerobic System Holding/Pump tank.
2. Remove the green access lid mounting screws and remove green access lid.
3. Install vertical sensing pipe into Holding/Pump tank. Ensure sensing pipe is resting on the bottom of the Holding/Pump tank. Cut the sensing pipe off below the top of the Holding/Pump tank lid, and secure the sensing pipe to remain vertical in the Holding/Pump tank.
4. Using PVC Cleaner and PVC glue, attach the barb fitting adapter (supplied on the end of EZ-Tanks vinyl tubing) to the sensing pipe.
5. Place the EZ-Tank reservoir inside the holding tank access door. (EZ-Tank reservoir rests on this secondary safety lid while the holding tank access door is open. If the holding tank access door does not have a secondary safety lid, replace with new access door that accommodates the secondary safety lid code.)
5. Next, drill 4.25 inch hole in center of holding tank access lid. (This allows the fill lid to be accessed without having to reopen the holding tank lid.) Next, Re-install holding tank access lid and replace mounting and safety screws.
7. Open EZ-Tank gasketed fill lid. Fill with 6% -10% sodium hypochlorite. Once filled, Replace the gasketed fill lid ensuring a firm secure seal. (If the fill lid is not tightened securely, a vacuum will not form and reservoir will empty sodium hypochlorite contents into Holding/Pump tank prematurely.)



LIQUID CHLORINATOR OPERATION AND MAINTENANCE

It is the Owner's Responsibility to operate and maintain the Liquid Chlorinator to the best of their ability. If

Service is required, refer to the Data/Service Plate located on the Fill Lid of the Liquid Chlorinator.

The Liquid Chlorinator uses 6-10% Sodium Hypochlorite (Household Bleach). Do not use any other products and/or chemicals other than specified. Always maintain a constant supply of disinfectant / Bleach in the Chlorinator Housing at all times. The rate of disinfectant/Bleach usage will vary with individual home-owner water usage. If disinfectant usage increases or decreases, call the service provider.

If flood waters, urine, chemicals etc., other than Sodium Hypochlorite, enters the Chlorinator Housing, call for service.

Always use Personal Protective Equipment when Filling or Servicing the Chlorinator

MONTHLY: Open the Chlorinator Fill Lid and Visually inspect the liquid level the chloring reservoir. Maintain a constant supply of Sodium Hypochlorite (Household Bleach) in the Chlorinator Housing and reservoir at all times. Check Sprinkler discharge for Chlorine residual. If Service is required, refer to the Data/Service Plate located on the Fill Lid of the chlorinator reservoir.

PERIODICALLY: Open the Chlorinator Fill Lid and Visually inspect the Chlorinator for debris such as dirt, grass clippings etc. Check Sprinkler discharge for Chlorine residual. If Service is required, refer to the Data/Service Plate located on the Fill Lid of the Chlorinator reservoir.

YEARLY: Visually inspect the Chlorinator Housing for any damage from lawnmowers, etc. Remove dirt/build up, grass, etc. from Chlorinator Housing Fill Lid. Check Sprinkler discharge for Chlorine residual. If Service is required, refer to the Data/Service Plate located on the Fill Lid of the Chlorinator reservoir.

FOR INTERMITTENT PERIODS OR EXTENDED PERIODS OF NON-USE

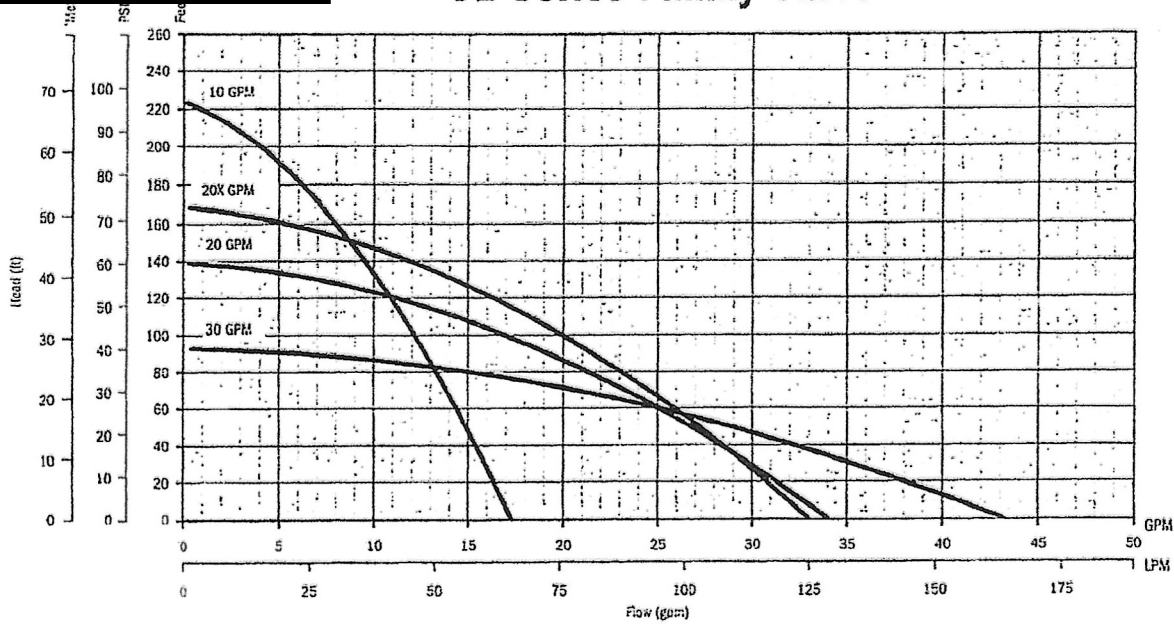
The EZ-Tank is designed to function under normal use or intermittent periods of use. If periods of non use exceed 6 months, drain Chlorinator Housing and refill with 6-10% Sodium Hypochlorite. If Service is required, refer to the Data/Service Plate located on the Fill Lid of the Chlorinator reservoir.

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C1 Series Family Curve



FEATURES

- Supplied with a removable 5" base for secure and reliable mounting
- Bottom suction design
- Robust thermoplastic discharge head design resists breakage during installation and operation
- Single shell housing design provides a compact unit while ensuring cool and quiet operation
- Hydraulic components molded from high quality engineered thermoplastics
- Optimized hydraulic design allows for increased performance and decreased power usage
- All metal components are made of high grade stainless steel for corrosion resistance
- Available with a high quality 115V or 230V, 1/2 hp motor
- Fluid flows of 10, 20, and 30 gpm, with a max shut-off pressure of over 100 psi
- Heavy duty 600V 10 foot long SJ00W jacketed lead

APPLICATIONS

- Gray water pumping
- Filtered effluent service water pumping
- Water reclamation projects such as pumping from rain catchment basins
- Aeration and other foundation or pond applications
- Agriculture and livestock water pumping

ORDERING INFORMATION

C1 Series Pumps

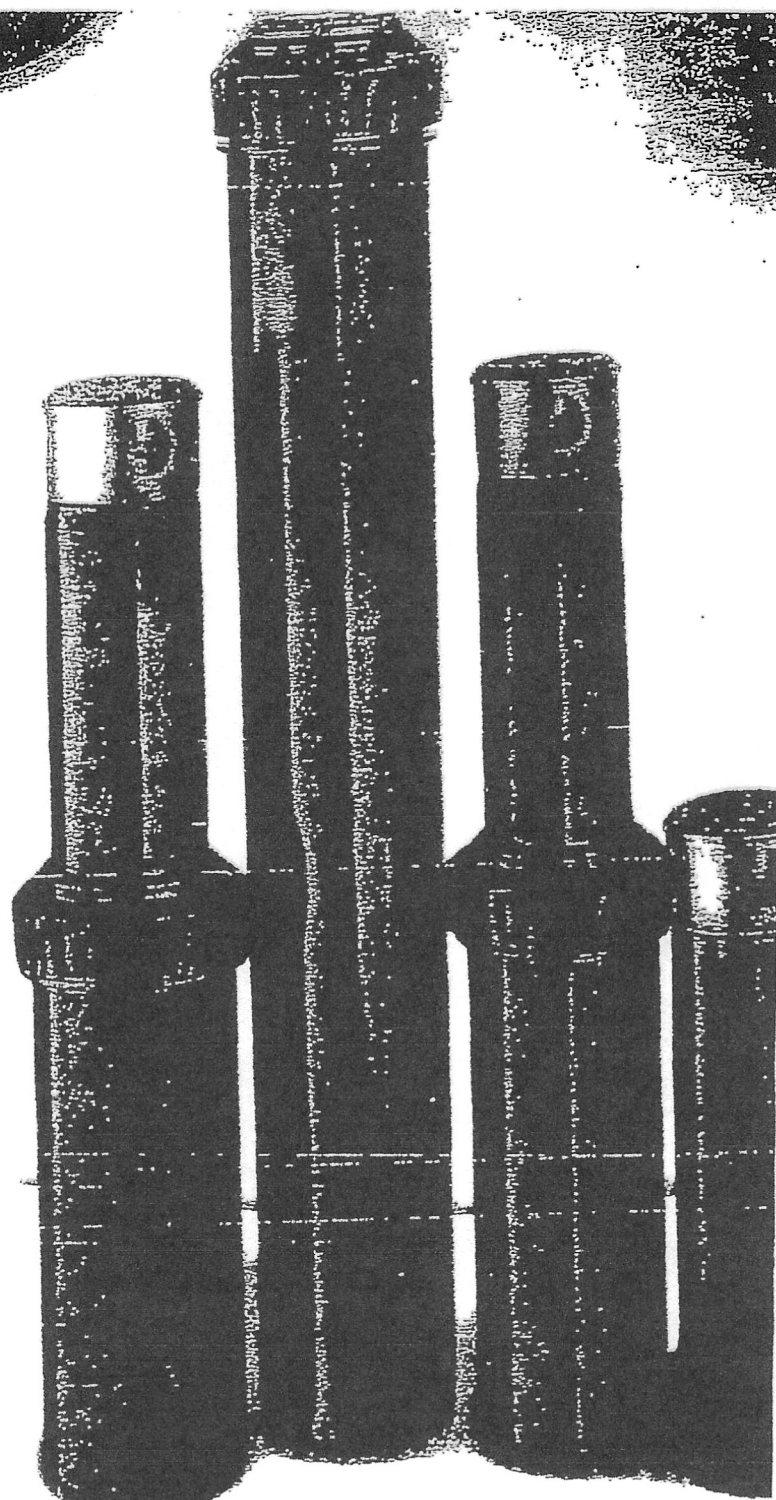
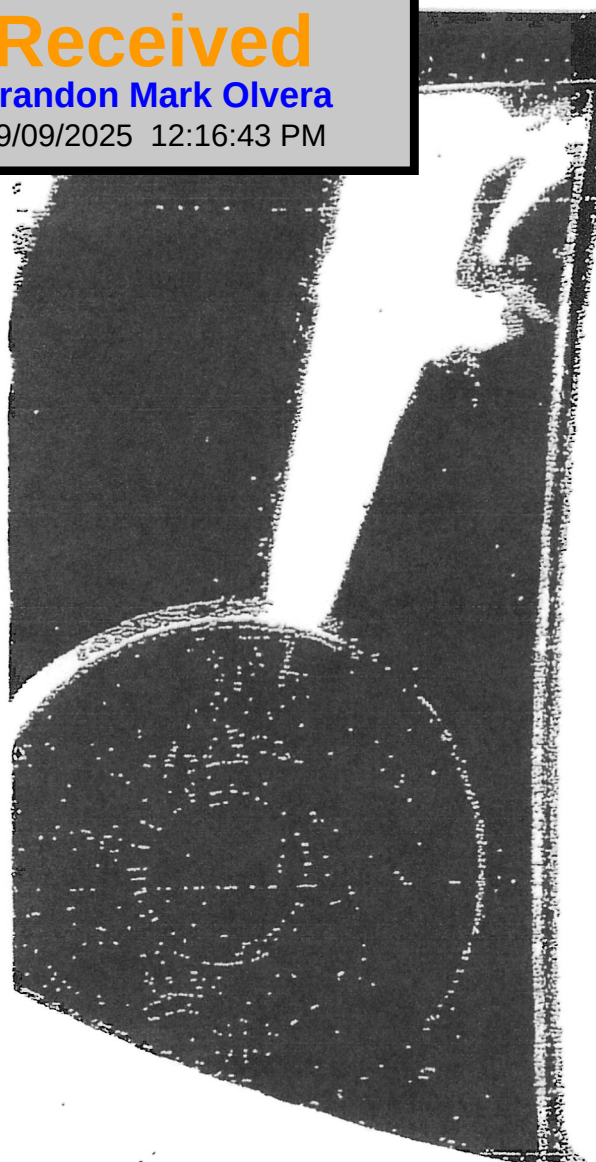
GPM	HP	Volts	Stage	Model No.	Order No.	Length (in)	Weight (lbs)
10	1/2	115	7	10C1-05P4-2W115	90301005	26	17
		230	7	10C1-05P4-2W230	90301010	26	17
20		115	5	20C1-05P4-2W115	90302005	25	16
		230	5	20C1-05P4-2W230	90302010	25	16
20X		115	6	20XC1-05P4-2W115	90302015	26	17
		230	6	20XC1-05P4-2W230	90302020	26	17
30		115	4	30C1-05P4-2W115	90303005	25	16
		230	4	30C1-05P4-2W230	90303010	25	16

Note: All units have 10 foot long SJ00W leads.

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The ProPlus™ is packed with features that ensure reliability, saving the installer time, money and needless frustration.

- ▶ **Revolutionary Patented Easy Arc Set** – Simplified arc set allows for wet or dry adjustment in seconds.
- ▶ **5" Riser** – Perfect for grasses with thick thatch.
- ▶ **3/4" Inlet** – Replaces all standard rotors.
- ▶ **2N1 Adjustable or Continuous Rotation** – Provides a full range adjustment from 40° to a continuous full circle.
- ▶ **Patented Arc Set Degree Markings** – Clearly indicates the current watering pattern and simplifies arc set adjustment.
- ▶ **Arc Memory Clutch** – Prevents internal gear damage and returns rotor to its prior setting automatically if nozzle turns too fast to stop.
- ▶ **Time Proven Patented Reversing Mechanism** – Assures continuous reverse and "return" over a 20 year history.
- ▶ **Ratcheting Riser** – Allows for easy adjustment of your left starting position with a single turn of the riser.
- ▶ **Rubber Cover** – Seals out dirt and increases product durability.
- ▶ **Wide Selection of Nozzles** – Including standard and low angle provides flexibility in system design.
- ▶ **Optional Check Valve** – Prevents low head drainage.

**K
RAIN**

**IRRIGATION SO
WORLDW**

Received

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RAIN. ProPlus Performance Data

Model Numbers: 11003, 11003-HP, 11003-SH, 11003-RCW • Arc Adjust: 40-360 • Drive Type: Gear • Warranty: 5 years

Standard Performance Data:

26 degree trajectory

Nozzle	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip (IN/HR)	Precip (IN/HR)
0.5	30	28	0.5	0.06	0.07
	40	29	0.6	0.07	0.08
	50	29	0.7	0.08	0.09
	60	30	0.8	0.09	0.10
0.75	30	29	0.7	0.08	0.09
	40	30	0.8	0.09	0.10
	50	31	0.9	0.09	0.10
	60	32	1.0	0.09	0.11
1	30	32	1.3	0.12	0.14
	40	33	1.5	0.13	0.15
	50	34	1.6	0.13	0.15
	60	35	1.8	0.14	0.16
2	30	37	2.4	0.17	0.19
	40	40	2.5	0.15	0.17
	50	42	3.0	0.16	0.19
	60	43	3.3	0.17	0.20
2.5 Pre- Installed	30	38	2.5	0.17	0.19
	40	39	2.8	0.18	0.20
	50	40	3.2	0.19	0.22
	60	41	3.5	0.20	0.23
3	30	38	3.6	0.24	0.28
	40	39	4.2	0.27	0.31
	50	41	4.6	0.26	0.30
	60	42	5.0	0.27	0.32
4	30	43	4.4	0.23	0.26
	40	44	5.1	0.25	0.29
	50	46	5.6	0.25	0.29
	60	49	5.9	0.24	0.27
6	40	45	5.9	0.28	0.32
	50	46	6.0	0.27	0.32
	60	48	6.3	0.26	0.30
	70	49	6.7	0.27	0.31
8	40	42	8.0	0.44	0.50
	50	45	8.5	0.40	0.47
	60	49	9.5	0.38	0.44
	70	50	10.0	0.39	0.44

Metric Performance Data:

26 degree trajectory

Nozzle	Pressure (bar)	Radius (meter)	Flow (l/m)	Precip (mm/hr)	Precip (mm/hr)
0.5	2.0	8.5	1.9	1.6	1.8
	3.0	8.8	2.3	1.7	2.0
	3.5	8.8	2.6	2.0	2.3
	4.0	9.1	3.0	2.2	2.5
0.75	2.0	8.8	2.6	2.0	2.3
	3.0	9.1	3.0	2.2	2.5
	3.5	9.4	3.4	2.3	2.6
	4.0	9.8	3.8	2.4	2.8
1	2.0	9.8	4.9	3.1	3.6
	3.0	10.1	5.7	3.4	3.9
	3.5	10.4	6.1	3.4	3.9
	4.0	10.7	6.8	3.6	4.1
2	2.0	11.3	9.1	4.3	4.9
	3.0	12.2	9.5	3.8	4.4
	3.5	12.8	11.4	4.2	4.8
	4.0	13.1	12.5	4.4	5.0
2.5 Pre- Installed	2.0	11.6	9.5	4.2	4.9
	3.0	11.9	10.6	4.5	5.2
	3.5	12.2	12.1	4.9	5.6
	4.0	12.5	13.2	5.1	5.9
3	2.0	11.6	13.6	6.1	7.0
	3.0	11.9	15.9	6.8	7.8
	3.5	12.5	17.4	6.7	7.7
	4.0	12.8	18.9	6.9	8.0
4	2.0	13.1	16.7	5.8	6.7
	3.0	13.4	19.3	6.4	7.4
	3.5	14.0	21.2	6.5	7.5
	4.0	14.9	22.3	6.0	6.9
6	3.0	13.7	22.3	7.1	8.2
	3.5	14.0	22.7	6.9	8.0
	4.0	14.6	23.8	6.7	7.7
	5.0	14.9	25.4	6.8	7.9
8	3.0	12.8	30.3	11.1	12.8
	3.5	13.7	32.2	10.3	11.8
	4.0	14.9	36.0	9.7	11.2
	5.0	15.2	37.9	9.8	11.3

Low Angle Standard Performance Data

12 degree trajectory

Nozzle	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip (IN/HR)	Precip (IN/HR)
1	30	22	1.2	0.24	0.28
	40	24	1.7	0.28	0.33
	50	26	1.8	0.26	0.30
	60	28	2.0	0.25	0.28
3	30	29	3.0	0.34	0.40
	40	32	3.1	0.29	0.34
	50	35	3.5	0.28	0.32
	60	37	3.8	0.27	0.31
4	30	31	3.4	0.34	0.39
	40	34	3.9	0.32	0.37
	50	37	4.4	0.31	0.36
	60	38	4.7	0.31	0.36
6	40	38	6.5	0.43	0.50
	50	40	7.3	0.44	0.51
	60	42	8.0	0.44	0.50
	70	44	8.6	0.43	0.49

Low Angle Metric Performance Data

12 degree trajectory

Nozzle	Pressure (bar)	Radius (meter)	Flow (l/m)	Precip (mm/hr)	Precip (mm/hr)
1	2.0	6.7	4.5	6.1	7.0
	3.0	7.3	6.4	7.2	8.3
	3.5	7.9	6.8	6.5	7.5
	4.0	8.5	7.6	6.2	7.2
3	2.0	8.8	11.4	8.7	10.1
	3.0	9.8	11.7	7.4	8.5
	3.5	10.7	13.2	7.0	8.1
	4.0	11.3	14.4	6.8	7.8
4	2.0	9.4	12.9	8.6	10.0
	3.0	10.4	14.8	8.2	9.5
	3.5	11.3	16.7	7.9	9.1
	4.0	11.6	17.8	8.0	9.2
6	3.0	11.6	24.6	11.0	12.7
	3.5	12.2	27.6	11.2	12.9
	4.0	12.8	30.3	11.1	12.8
	5.0	13.4	32.6	10.9	12.5

All precipitation rates are calculated at 360 degrees. For precipitation rates at 180 degrees, multiply by 2. Data represents test results in zero wind. Adjust for local conditions. Radius may be reduced with nozzle retention screw.



Legal Description: Centennial Ridge Unit 3, LOT 60 - Block 1

118884.pdf Markup Summary

If yes, indicate the city: Bulverde



Submit a copy of the approved building permit or written verification from the City of Bulverde stating that the improvements on the referenced property do not require a building permit.

The following table lists the most commonly used commands in the `sed` editor. The commands are listed in the order in which they are typically used. The `sed` editor is a stream editor, which means that it processes the input text line by line. The `sed` editor is used to perform text transformations on a file or on standard input. The `sed` editor is a powerful tool for text processing, and it is used in many different ways. The `sed` editor is a stream editor, which means that it processes the input text line by line. The `sed` editor is used to perform text transformations on a file or on standard input. The `sed` editor is a powerful tool for text processing, and it is used in many different ways.

Examples of the following commands:

```

# Print the first 10 lines of the file
sed -n 1,10p file.txt

# Print the last 10 lines of the file
sed -n 10,20p file.txt

# Print the first 10 lines of the file, and then the last 10 lines
sed -n 1,10p file.txt; sed -n 10,20p file.txt

# Print the first 10 lines of the file, and then the last 10 lines, and then the first 10 lines
sed -n 1,10p file.txt; sed -n 10,20p file.txt; sed -n 1,10p file.txt

# Print the first 10 lines of the file, and then the last 10 lines, and then the first 10 lines, and then the last 10 lines
sed -n 1,10p file.txt; sed -n 10,20p file.txt; sed -n 1,10p file.txt; sed -n 10,20p file.txt
  
```



Which ATU are you
purposing to use?



Property dimensions do not match the plat.

X: Profile Hole

PROPERTY NOTES
 110' OGSF Seefuck from Wall to Edge of Spry Area
 60' Building Seefuck from Back Property Line
 60' OGSF Seefuck from Wall to Septic Tank
 60' Building Seefuck from Front Property Line
 40' Building Seefuck on Side Property Line
 20' OGSF Seefuck on All Property Lines
 20' PUE on Front Property Line
 0' PUE on Side and Back Property Lines
 0' Septic Tank Seefuck from Structure



Please label the easements on the site plan.

Received
Brandon Mark Olvera
09/09/2025 12:16:30 PM

PLANET FRIENDLY DESIGNS
PLANETFRIENDLYDESIGNS@GMAIL.COM
512-757-5827

August 29, 2025

Permit #118898
1016 Adyson Ridge Drive
Bulverde, TX 78163

To Whom It Concerns:

The following adjustments were made to the design associated with the above permit number:

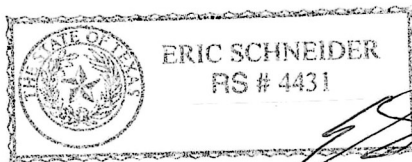
1. The builder/property owner will supply the appropriate documentation from the City of Bulverde.
2. The typo in the narrative section has been corrected to show that a Solar Air Model SA600LP is going to be used for this project.
3. The property lines that were originally combined into one dimension have now been broken down to reflect what is shown on the plat.
4. The setbacks and easements are all now labeled directly on the site plan.

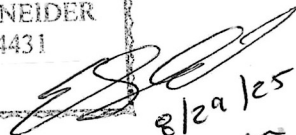
If there are any questions or concerns, please do not hesitate to contact me.

Sincerely,



Eric Schneider, R.S.
R.S. #4431




8/29/25
Rinsion

PLANET FRIENDLY DESIGNS
PLANETFRIENDLYDESIGNS@GMAIL.COM
512-757-5827

OSSF SOIL EVALUATION FORM

Physical Address: 1016 Adyson Ridge Road Bulverde, TX 78163
Date Performed: July 2, 2025 Proposed Excavation Depth: 1 Foot

Profile Hole <u>1</u>					
Dept	Textural	Description of Soil	Drainage Mottles/Water	Restrictive	Comments
0	Class IV	Black Clay	None	None	< 30% Gravel
1					
2					
3					
4					
5					

Profile <u>2</u>					
Dept h (ft)	Textural Class	Description of Soil	Drainage Mottles/Water Table	Restrictive Horizon	Comments
0	Class IV	Black Clay	None	None	< 30% Gravel
1					
2					
3					
4					
5					

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

Presence of 100 year flood zone: **N** Recharge features within 150 feet: **N**
Existing or proposed water well: **Y**
Presence of adjacent ponds, streams, water impoundments: **N**
Organized Sewage available on lot or tract: **N** Suitable for standard system: **N/A**

Corrie Smith
Site Evaluator

05HCO29988
SE #

The proposed system has been designed to serve a 5 Bedroom (equivalent) Single Family Residence that will be < 4,500 sq ft. It will have a maximum daily water usage rate of 360 gal/day, as per table III of the Chapter 285 Rules for On-Site Sewage Facilities by the TCEQ.

Site Description and Site Evaluation

The subject property is located within a subdivision. The legal description is Unit 3, Lot 60, Block 1 in the Centennial Ridge Subdivision. The existing vegetation consists of some native grasses. The site evaluation indicated that the site has suitable soil for an aerobic surface irrigation system. No evidence of shallow ground water was observed during the site evaluation. All exposed rock within the proposed surface distribution area will be removed or covered with suitable soil and seeded prior to final inspection. The spray heads will remain a minimum of 15 feet away from any trees. The property has a

slope of less than 15 percent within the proposed surface distribution area. The residence will utilize a private well water supply as the source for potable water. All of the systems components will be 100 feet away from all wells. All portions of the spray radii will maintain at least a 20 feet separation from all property lines. No portion of this system lies within 10 feet of a waterline. There are no recharge features within 150 feet of the proposed system. Minimum separation distances as stated in Chapter 285.30 TCEQ On-Site Sewage Facilities must be maintained.

Description of Proposed On-Site Sewage Treatment System

The residence will utilize a 4000 Series Aerobic wastewater treatment system from 600L. This is a proprietary treatment plant approved by the TCEQ and used in Texas. The 4000 Series 600L model is a 4 compartment pretreatment tank. The pretreatment system will consist of 4000 gallons of pretreatment tank which will graze solids from the 785 aerobic treatment component. The effluent from the pretreatment tank will flow to a 778 gallon pump tank. The NSF approved liquid chlorination will be installed for disinfection. The pump tank compartment will contain a chlorinator contact chamber and a storage tank. Distribution is through purple 1" Sch. 40 PVC pipe, to 2 R-Rain Pro Plus Professional Low Angle spray heads. The disposal area will consist of 2 – 30 ft. radii 360° patterns. The system is considered a "package system" and will be installed according to manufacturer's instructions.

Design Specifications

Size of Residence: < 4,500 sq. ft.

Number of Bedrooms: 4 + Study with closet

Average Expected Daily Flow (Q): 360 gpd

Application Rate: 0.064 gal/ft²/day

Minimum Application Area Required (A=Q/Ra): $A = 360 / 0.064 = 5,626 \text{ ft}^2$

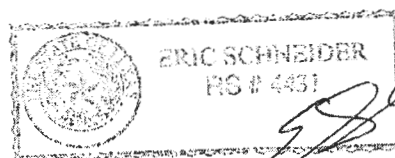
Actual Application Area: 5,652 ft²

System Components

Pretreatment/Trash Tank: 375 gal

Aeration Tank: 785 gal

Pump Tank: 778 gal (41.5 inches of usable space) – 18.75 gallons/inch



Pump Float Settings

Pump Off Position: 7 in. above tank floor = 131.25 gal

Pump On Position: 8 in. above tank floor = 150.00 gal

Alarm On Position: 28 in. above tank floor = 525.00 gal

Reserve Capacity: 13.5 in. (778 gal – 525.00 gal) = 253.00 gal (> 2/3 estimated gpd)

Pump and Sprinkler Heads

Elevation Head: 6 ft

Pressure Head: 30 psi x 2.3 = 69

Friction Head: 100 ft x .0213 = 2.13

Total Head (TDH): 6 ft + 2.13 ft = 8.13 ft (vertical distance from pump to the highest sprinkler head)

Pump: Franklin Electric C1 Series 10CI-05P4-2V

Sprinkler: Rain Bird Professional Series with Angle Valve #4, operating at 30 psi, 30 ft. radius, 3.4 gpm flow per sprinkler.

Chlorination

This system will utilize a NSF approved Liquid Chlorinator.

Dosing:

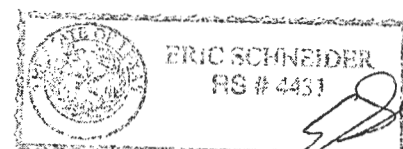
This system will utilize a commercial timer to cycle power to the pump-on float switch twice per night.

Disposal period for overnight disposal is between midnight and 5 AM.

360 gpd/2 doses per day = 180 gal per dose

2 sprinklers x 3.4 gal per minute = 6.8 gallons per minute

180 gal per dose/6.8 gal per minute ≈ 27 minutes per dose



[Signature]
7/12/25

Construction/Installation Notes & Requirements

- Refer to site plan for component placement and follow manufacturer's instructions for installation of treatment plant and aerator.
- All materials and construction methods are required to conform to the standards for Private Sewage Facilities set forth by the Texas Administrative Code, Chapter 285 On-Site Sewage Facilities.

The installer must be a minimum of an Installer II certification.

- The installer must notify the designer and regulatory authority at least 48 hours in advance to schedule required inspections to ensure that the system is installed in accordance with approved plans and specifications.
- Diversion berms will be placed when needed to protect irrigation and tank areas from excessive runoff.
- It is the responsibility of the installer to obtain the minimum back requirements as stated in Chapter 285 On-Site Sewage Facilities.
- The vent of the system shall be located within 10 feet of a potable water line.

Electrical Requirements

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

Tank Notes

- The bottom of the excavation for the tanks should be level and free of large rocks and debris.
- All tanks are to be set level on a minimum 4 inch layer of sand, sandy loam, clay loam, or pea gravel.
- Risers are required on tank inspection ports as per 30 TAC 285.38 (9/1/2012.) This includes access limitation (<65 lbs lid or hardware secured lid) and secondary plug, net, or mesh in riser. Risers are required to be two inches above grade level.
- All openings in the tank must be properly sealed to prevent the escape of wastewater, and/or to prevent the infiltration of water.
- Tanks must be filled with water for at least 24 hours to test for leaks and structural integrity.
- The tanks must be set low enough to have fall of at least 1/8 inch per foot from house to tank.
- PVC pipe from house to tank must be at least Sch. 40 or SDR 26.

Irrigation and Landscape Notes

- Irrigation lines should be 1 inch Sch. 40 PVC. All supply lines, sprinkler heads, and valve cover boxes must be permanently colored purple. Sleeve any pipe that crosses any road, driveway, or other land improvement with Sch. 40 PVC.
- Supply lines must be buried at least 6 inches below finished grade.
- If irrigation area does not have established vegetation, a mixture of winter rye or Bermuda grass will be seeded to establish seasonal vegetation.
- The installer will notify the property owner prior to removal of any trees/bushes that may obstruct the operation of the irrigation system.
- All exposed surface rock must be covered with at least 4 inches of suitable soil.

Additional Notes

- Install audio-visual alarm for aerator and pump on separate breakers.
- The high water air control valves should be installed in a place that can be easily accessed and are active.

Maintenance Requirements

- The applicant must attach to the permit application a valid maintenance contract with a certified maintenance company before the permit is issued.
- The maintenance company will verify that the system is operating properly and provide on-site maintenance as needed.
- The maintenance contract will be in effect for a minimum of 2 years.
- A maintenance contract will authorize the maintenance company to maintain and repair the system as needed.
- The property owner must continuously maintain a signed written contract with a valid maintenance company and will submit a copy of the contract to the permitting authority at least annually.

Affidavit

- The applicant must file a certified copy of an affidavit at the County Clerk's Office and file 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:
 - The new owner being advised that the property contains a surface application system for wastewater disposal.
 - The permit issued to the previous owner of the property being transferred to the new owner in accordance with Chapter 285.3(b)(3) of the TCEQ OSSF 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 ownership of the OSSF has been severed from the property.
 - 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.
- Feminine hygiene products should never be disposed of in the toilet. Products such as these can be detrimental to a septic system, causing backups inside the home and/or overflowing of the tank due to pump malfunction.
- The excessive use of in-sink garbage grinders and grease discarding should be avoided. In-sink garbage grinders can cause a rapid buildup of sludge or scum resulting in a more frequent cleaning and possible system failure.
- Do not use the toilet to dispose of cleaning tissue, cigarette butts, or other trash. This disposal practice will waste water and also impose an undesirable solid load on the treatment system.
- Septic tanks should be cleaned before sludge accumulates to a point where it approaches the bottom of the outlet device. If sludge or scum accumulates to this point, solids will leave the tank with the liquid and possibly cause the system to clog resulting in sewage surfacing or backing up into the house through plumbing fixtures.

- A regular schedule of cleaning the tank at two to three year intervals should be established. Commercial cleaners are equipped to readily perform the cleaning operation. Owner of OSSF's will contract only persons registered with TCEQ to transport the septic system waste.
- Do not build driveways, storage buildings, or other structures of system components on the disposal field.
- Chemical additives or so-called enzymes are not necessary for the operation of a septic tank. Some of these additives may even be harmful to the system's operation.
- Pipes, detritus, blockages, drain cleaners and other household cleaning materials will very often cause the operation of the system to become clogged. Moderation should be exercised in the use of such materials.
- The owner shall follow Chapter 157 regarding wastewater treatment and reverse osmosis equipment to the OSSF.
- The liquid from the OSSF is not only laden with bacteria, but also contains a high concentration of this liquid constitutes a health hazard to those that might come into contact with it.

Water Conservation Practices

- Showers usually use less water than baths. Installing water saving shower heads that use less than 2.5 gallons per minute saves both water and energy.
- If you take a tub bath, reduce the level of water in the tub from the level to which you customarily fill it.
- Leaky faucets and faulty toilet fill-up mechanisms should be repaired as quickly as possible.
- Leaking toilets may not be evident. Add a few drops of food coloring into the tank. Do not flush. If the color appears in the bowl within a few minutes, adjustments and/or repairs to the toilet need to be made.
- Install low-flow fixtures throughout the house and use faucet aerators that restrict water flow to help reduce consumption.
- Try to run dishwasher with a full load.
- Avoid running the water continuously for brushing teeth, washing hands, shaving, or rinsing kitchen utensils.

- Water can be saved in the laundry room by adjusting water levels to match the size of the load. If the washing machine does not have a variable load control, water can be saved by running it

only when the washer is full.

- Keep a container of drinking water in the refrigerator instead of running a faucet until it turns cold.
- Insulate hot water pipes to avoid long delays of wasted water while waiting for the water to heat.
- Encourage your federal, state, county and local government agencies to conserve water and homes can save money.

VOID

This project system has been designed generally to comply with minimum requirements for TCEQ Chapter 200-10.1 Sewage Treatment. The site conditions and subsequent design are based on technical information that was available. There was no intention to allow groundwater or surface water seeps could occur. The time of the site evaluation and performance of the system cannot be guaranteed. Although all provisions of standards have been followed, if failure should occur, additions or modifications to the OSSF may need to be made. By accepting this design, the homeowner/builder understands that the designer/site evaluator will not be liable for more than the agreed upon design fee.

1016 Adyson Ridge Drive
Bulverde, TX 78163

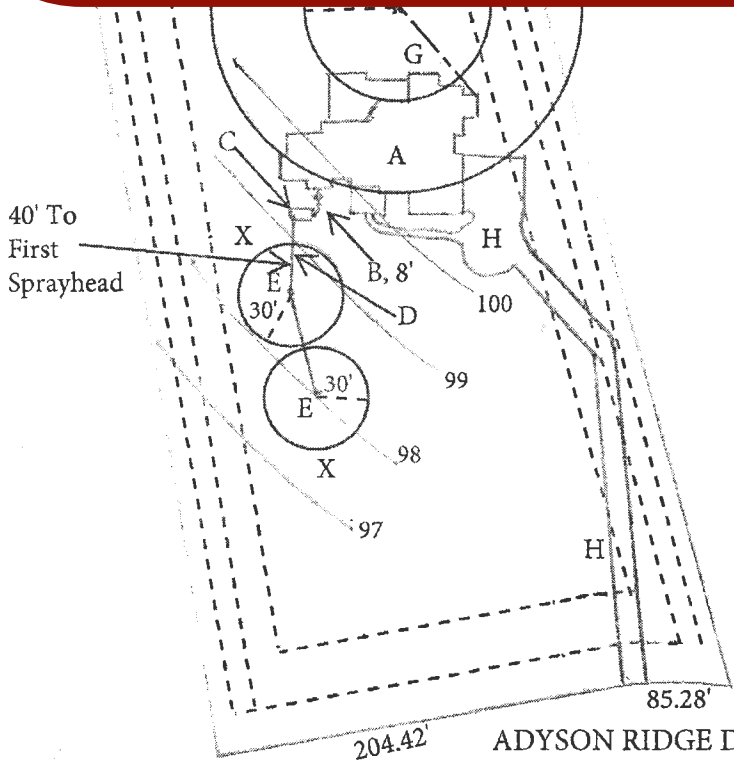
LEGEND

- A: 5 Bedroom (Equivalent), Single Family Residence, < 4,500 Sq. Ft.
- B: 3" or 4" SCH 40 PVC Pipe with Two Way Clean Out
- C: Solar Air Aerobic Treatment Unit, Model SA600LP
- D: 1" SCH 40 Purple PVC Pipe
- E: K-Rain Pro Plus Low Angle Spray Head, Nozzle #4, Radius @ 30'
- F: Well
- G: Waterline
- H: Driveway
- X: Profile Hole

Property dimensions
do not match the
plat.

VOID

SCALE
1 INCH = 100 FEET



NOTES:

BASIS OF BEARING IS TEXAS STATE
PLANE COORDINATE SYSTEM OF 1983,
SOUTH CENTRAL ZONE.

FND. PIN = 1/2" REBAR FOUND

SET PIN = 1/2" REBAR SET WITH YELLOW
PLASTIC CAP STAMPED "MCLS 3682".

ELEVATIONS BASED ON NAVD 1988.

LEGEND

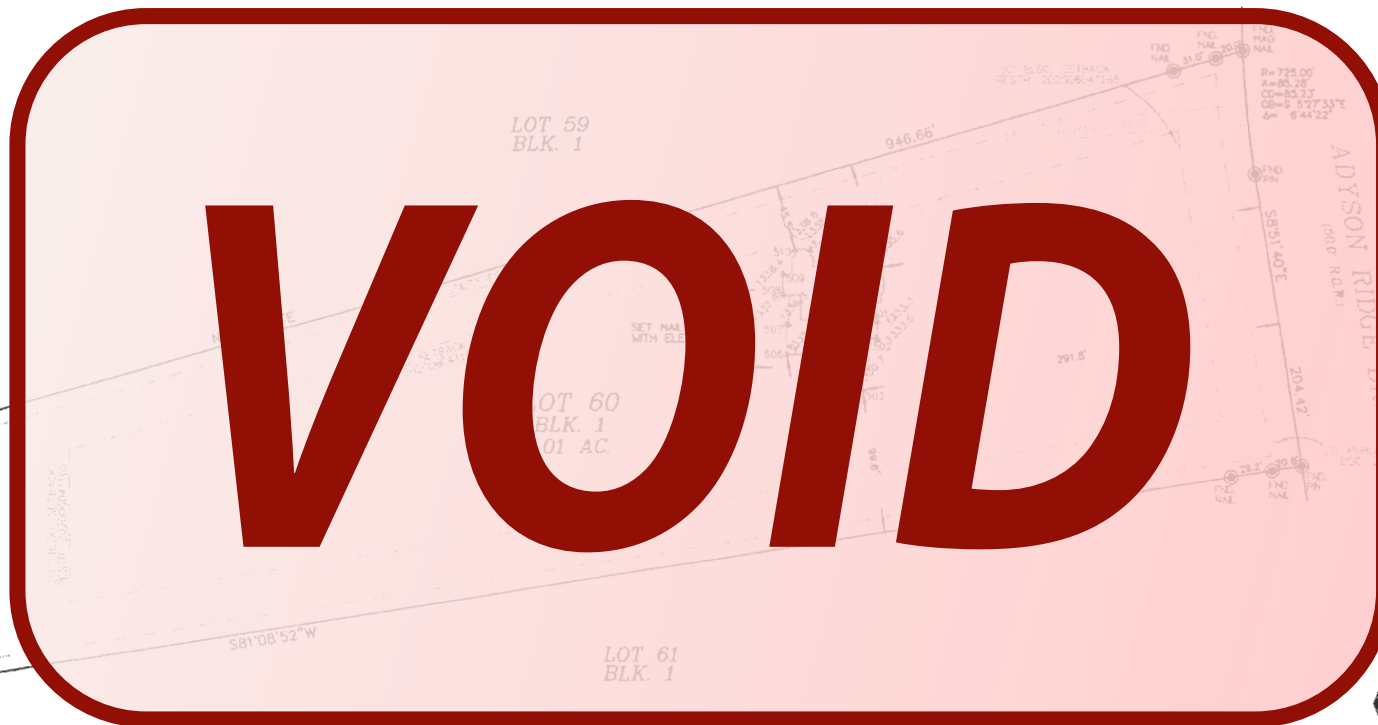
EM = ELEC. METER
WM = WATER METER
AC = AIR CONDITIONER
DR = DEED RECORDS
MUR = MAP & PLAT RECORDS
OAKS = 8" DIA. OAK TREE



SCALE
1" = 60'

CALLED 4813 AC.
545/560

NOT 12'58"E 174.65'



ADDRESS: 1016 ADYSON RIDGE DRIVE
SURVEY OF LOT 60, BLOCK 1, CENTENNIAL
RIDGE, UNIT 3, CITY OF BULVERDE, COMAL
COUNTY, TEXAS, PLAT RECORDED IN DOC.
202006046126, OFFICIAL RECORDS, COMAL
COUNTY, TEXAS.

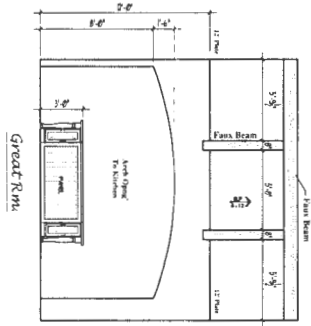
mcmichaellandsurveying.com
MCMICHAEL LAND SURVEYING
907 DIVINE WAY, NEW BRAUNFELS, TX 78130
EMAIL fred@mcmichaellandsurveying.com
(830) 832-8259 FIRM NO. 10193990



STATE OF TEXAS :
COUNTY OF COMAL:

I, FRED L. MCMICHAEL, DO HEREBY CERTIFY THAT
THIS PLAT WAS PREPARED FROM AN ACTUAL SURVEY
MADE ON THE GROUND AND UNDER MY SUPERVISION.

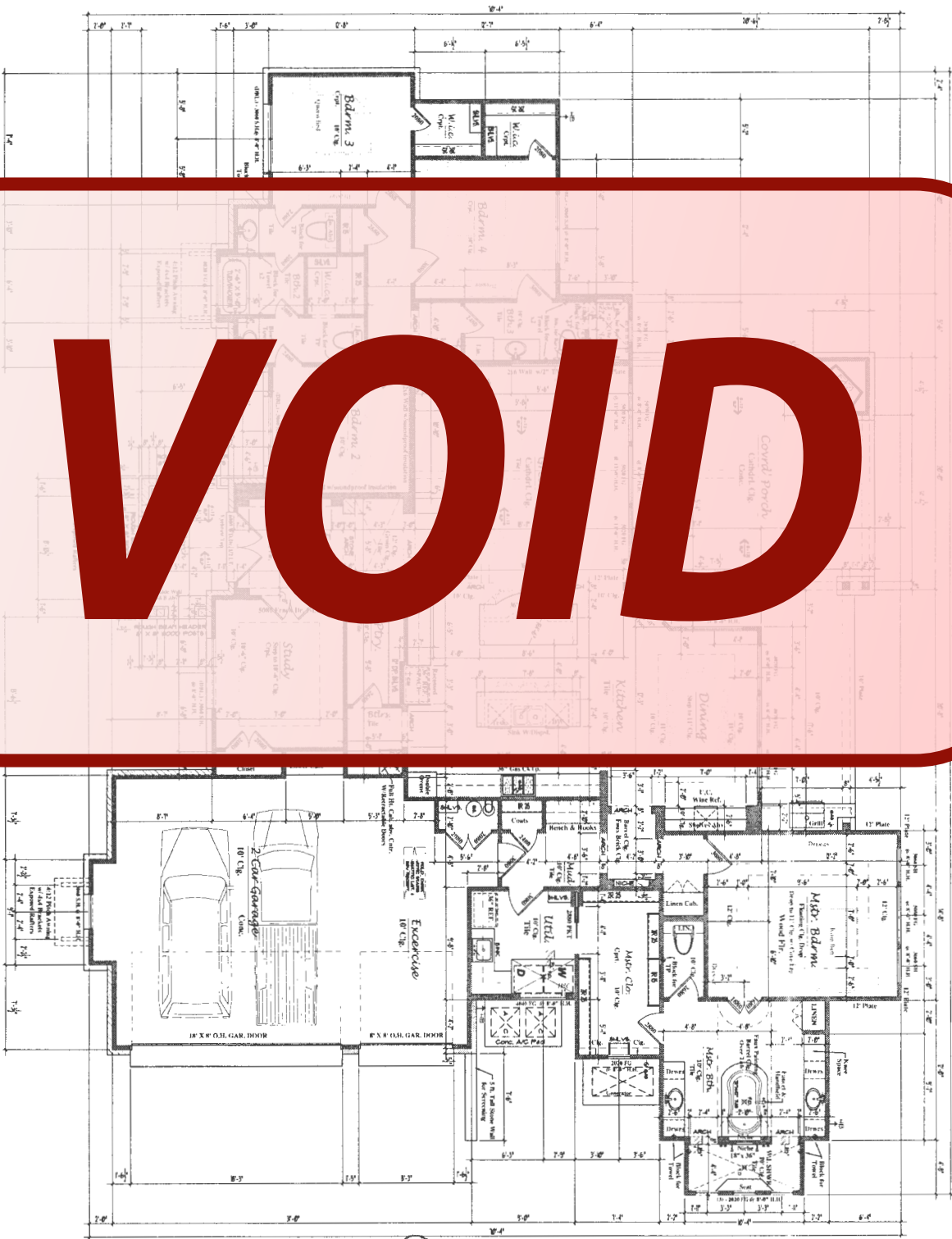
Fred L. McMichael
FRED L. MCMICHAEL R.P.L.S. NO. 3682
SURVEYED: JANUARY 15, 2025
PROJECT NO.: 2118457X



General Notes:

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE BUILDING CODES AND SPECIFICATIONS.
2. ALL MATERIALS SHALL BE OF THE BEST QUALITY AND SHALL BE SUBMITTED FOR APPROVAL BY THE ARCHITECT PRIOR TO INSTALLATION.
3. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE BUILDING CODES AND SPECIFICATIONS.
5. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE BUILDING CODES AND SPECIFICATIONS.
7. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE BUILDING CODES AND SPECIFICATIONS.
9. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
10. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE BUILDING CODES AND SPECIFICATIONS.

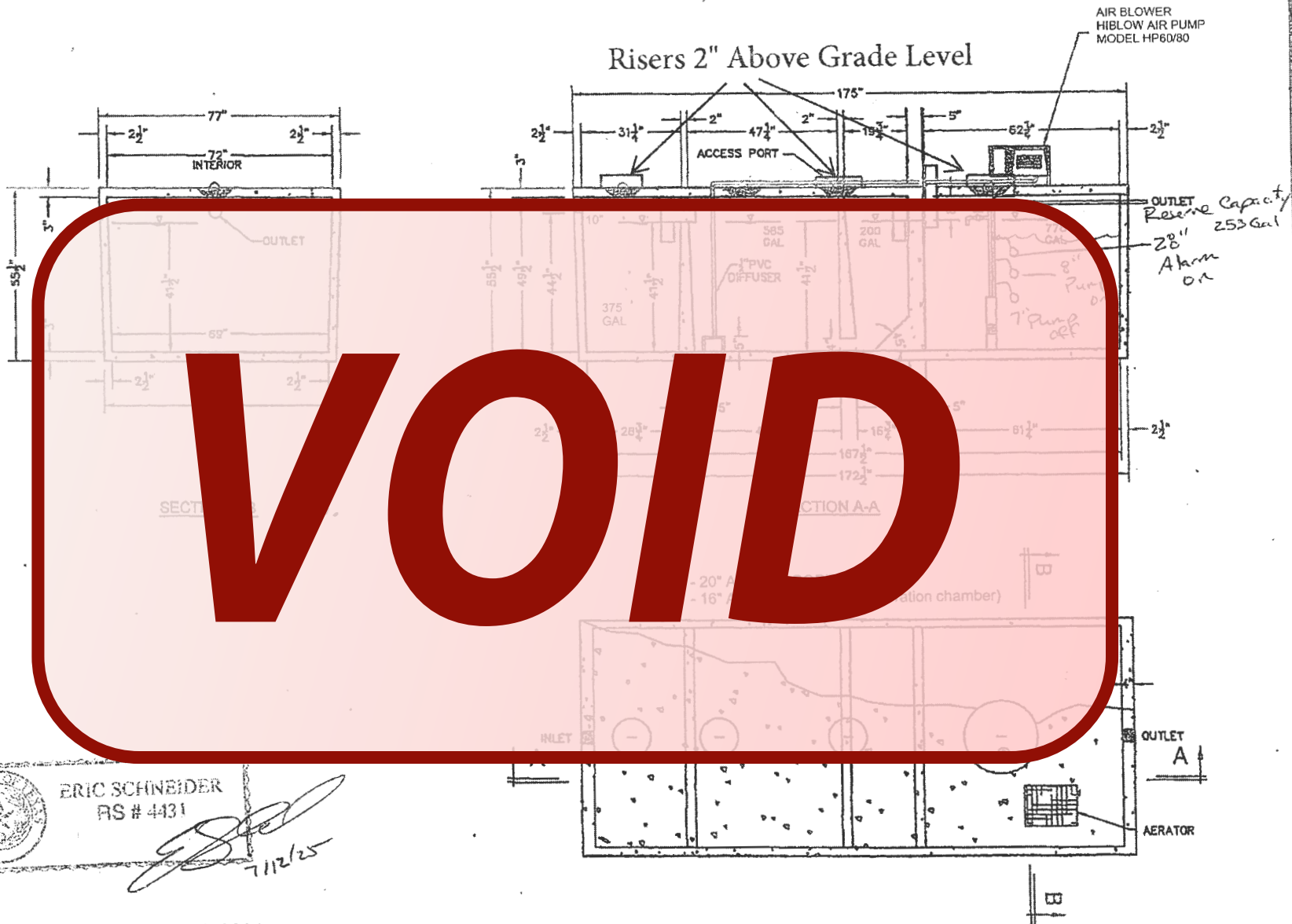
SQUARE FOOTAGES	
TOTAL LIVING	3,001 SQFT
FRONT PORCH	101 SQFT
REAR PORCH	434 SQFT
GARAGE	795 SQFT
TOTAL SLAB	4,331 SQFT
TOTAL COVERED	4,331 SQFT



First Floor Plan

FINAL SET APPROVED FOR CONSTRUCTION

WIGGINS FAMILY RESIDENCE 1010 Adams Ridge Rd. Houston, TX 77063 Lot 60 Block 1 - Centennial Ridge	Campanella Architects 1010 Adams Ridge Rd. Houston, TX 77063 Phone: (713) 464-1111 Fax: (713) 464-1112	STONE CREEK CONSTRUCTION 1010 Adams Ridge Rd. Houston, TX 77063 Phone: (713) 464-1111 Fax: (713) 464-1112	ALL INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CAMPELLA ARCHITECTS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF CAMPELLA ARCHITECTS.
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 ERIC SCHNEIDER
 RS # 4431
[Signature]
 7/12/25

TOTAL EMPTY WEIGHT: #16880

PLAN VIEW

SA600LP

DATE	06-20-09	SA-3
PROJECT NO.	30" x 10"	
SCALE	30" x 10"	
DESIGNER	ERIC	
DRAWN	ERIC	
CHECKED	ERIC	
SOLAR AEROBIC 8754 HWY 80 EAST LAKE CHARLES, LA 70615 PHONE: (337) 439-0800		
MODEL SA600-768T SEWER TREATMENT SYSTEM		

LBC Manufacturing "EZ-Tank" GRAVITY FLOW Liquid Bleach Chlorinator

US Patent Pending

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(979) 828-0139 ext.

For a downloadable copy:
www.ez-tank.com

THIS PRODUCT WAS EVALUATED AS
A CHLORINE DISINFECTION DEVICE AND
EXCEEDS THE APPLICABLE REGISTRY
STANDARD 46

VOID

CHLORINE DISINFECTION DEVICE PERFORMANCE

The LBC is a standard 46 for Chlorine disinfection devices. The EZ-Tank is listed as a certified chlorine disinfection device for secondary treated effluent. Certification requires the device to be used with 6-10% sodium hypochlorite (household bleach). The EZ-Tank Disinfection device is a gravity flow product that applies disinfectant to a holding tank as the water level rises thus giving the ultimate amount of contact time for the disinfectant to work.

THE LIQUID CHLORINATION PROCESS

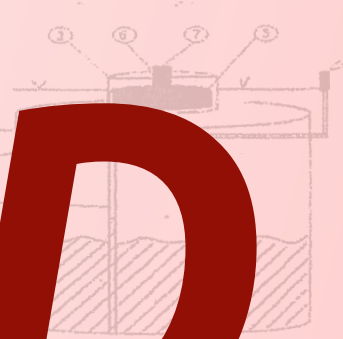
LBC Manufacturing designed and built the "EZ-Tank" to provide years of trouble-free service. It is constructed from durable Polyethylene material which can withstand the corrosive nature of Sodium Hypochlorite (Household Bleach). It has been tested to NSF/ANSI Std 46 and has proven to function more consistently, at a lower operating cost, than any other disinfection method.

The basic function of the Liquid Bleach Chlorinator is to introduce disinfectant to the effluent water in the Holding/Pump tank as the effluent enters. The longer the contact time the disinfectant has to interact with pathogens, the better it disinfects. The ideal method is maximum contact time for minimal pathogen survival.

RECOMMENDED INSTALLATION INSTRUCTIONS

*** LBC Manufacturing recommends installation by TCEQ licensed and trained installers. ***

1. Locate the Aesthetic System Holding/Pump tank.
2. Remove the green access lid mounting screws and remove green access lid.
3. Install vertical sensing pipe into Holding/Pump tank. Ensure sensing pipe is resting on the bottom of the Holding/Pump tank. Cut the sensing pipe off below the top of the Holding/Pump tank lid, and secure the sensing pipe to remain vertical in the Holding/Pump tank.
4. Using PVC Cleaner and PVC glue, attach the barb fitting adapter (supplied on the end of EZ-Tank's vinyl tubing) to the sensing pipe.
5. Place the EZ-Tank reservoir inside the holding tank access door. (EZ-Tank reservoir rests on the secondary safety lid inside the holding tank access door. If the holding tank access door does not have a secondary safety lid, replace with new access door that accommodates the secondary safety lid to code.)
6. Next, drill 4.25 inch hole in center of holding tank access lid. (this allows the fill lid to be accessed without having to reopen the holding tank lid) Next, Re-install holding tank access lid and replace
7. Open EZ-Tank patented fill lid. Fill with 6% -10% sodium hypochlorite. Once filled, place the patented fill lid ensuring a firm secure seal. (If the fill lid is not tightened securely, a vacuum will not form and reservoir will empty sodium hypochlorite contents into Holding/Pump tank prematurely.)



LIQUID CHLORINATOR OPERATION AND MAINTENANCE

It is the Owner's Responsibility to operate and maintain the Liquid Chlorinator to the best of their ability. If

Service is required, refer to the Data/Service Plate located on the Fill Lid of the Liquid Chlorinator.

The Liquid Chlorinator uses 6-10% Sodium Hypochlorite (Household Bleach). Do not use any other products and chemicals other than specified. Always maintain a constant supply of disinfectant / Bleach in the Chlorinator Housing at all times. The rate of disinfectant/Bleach usage will vary with individual home-owner water usage. If disinfectant usage increases or decreases, call the service provider. If flood waters, acids, chemicals etc., other than Sodium Hypochlorite, enters the Chlorinator Housing, call for service.

*** Always use Personal Protective Equipment when Filling or Servicing the Chlorinator. ***

MONTHLY: Open the Chlorinator Fill Lid and Visually inspect the liquid level the chlorine reservoir. Maintain a constant supply of Sodium Hypochlorite (Household Bleach) in the Chlorinator Housing and reservoir at all times. Check Sprinkler discharge for Chlorine residual. If Service is required, refer to the Data/Service Plate located on the Fill Lid of the Chlorinator reservoir.

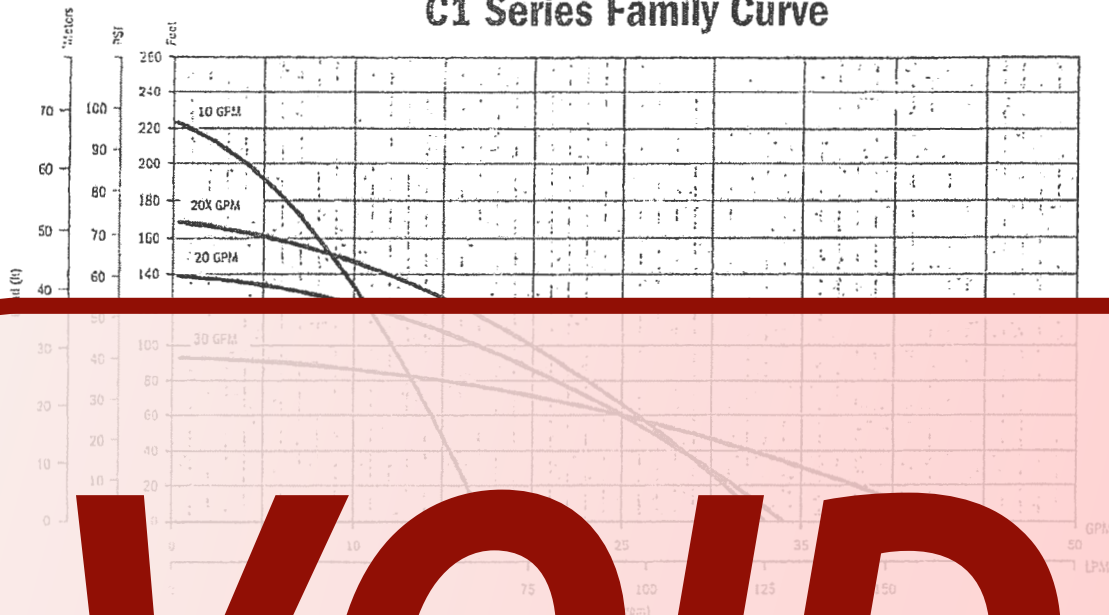
PERIODICALLY: Open the Chlorinator Fill Lid and Visually inspect the Chlorinator for debris such as dirt, grass clippings etc. Check Sprinkler discharge for Chlorine residual. If Service is required, refer to the Data/Service Plate located on the Fill Lid of the Chlorinator reservoir.

YEARLY: Visually inspect the Chlorinator Housing for any damage from homeowners, etc. Remove debris build up, grass, etc. from Chlorinator Housing Fill Lid. Check Sprinkler discharge for Chlorine residual. If Service is required, refer to the Data/Service Plate located on the Fill Lid of the Chlorinator reservoir.

FOR INTERMITTENT PERIODS OR EXTENDED PERIODS OF NON-USE

The EZ-Tank is designed to function under normal use or intermittent periods of use. If periods of non use exceed 6 months, drain Chlorinator Housing and refill with 6-10% Sodium Hypochlorite. If Service is required, refer to the Data/Service Plate located on the Fill Lid of the Chlorinator reservoir.

C1 Series Family Curve



VOID

FEATURES

- Supplied with a removable filter and reliable
- Bottom suction design
- Robust thermoplastic discharge head design resists breakage during normal operation
- Single shell housing design provides a compact unit while ensuring cool and quiet operation
- Hydraulic components molded from high quality engineered thermoplastics
- Optimized hydraulic design allows for increased performance and decreased power usage
- All metal components are made of high grade stainless steel for corrosion resistance
- Available with a high quality 115 V or 230 V, 1/2 hp motor
- Fluid flows of 10, 20, and 30 gpm, with a max shut-off pressure of over 100 psi
- Heavy duty 600 V 10 foot SJODW jacketed lead

APPLICATIONS

- Water treatment applications such as pumping from rain catchment basins
- Aeration and other foundation or pond applications
- Agriculture and livestock water pumping

ORDERING INFORMATION

C1 Series Pumps							
GPM	HP	Volts	Stage	Model No.	Order No.	Length (in)	Weight (lbs)
10	1/2	115	7	10C1-05P4-2W115	90301005	26	17
		230	7	10C1-05P4-2W230	90301010	26	17
115		5	20C1-05P4-2W115	90302005	25	16	
20		230	5	20C1-05P4-2W230	90302010	25	16
20X		115	6	20XC1-05P4-2W115	90302015	26	17
230		6	20XC1-05P4-2W230	90302020	26	17	
30		115	4	30C1-05P4-2W115	90303005	25	16
		230	4	30C1-05P4-2W230	90303010	25	16

Note: All units have 10 foot long SJODW leads.



VOID

The ProPlus™ is packed with features that ensure

reliability, saving the installer time, money and needless frustration.

- ▶ Revolutionary Patented Easy Arc Set – Simplified arc set allows for wet or dry adjustment in seconds.
- ▶ 5" Riser – Perfect for grasses with thick thatch.
- ▶ 3/4" Inlet – Replaces all standard rotors.
- ▶ 2N1 Adjustable or Continuous Rotation – Provides a full range adjustment from 40° to a continuous full circle.
- ▶ Patented Arc Set Degree Markings – Clearly indicates the current watering pattern and simplifies arc set adjustment.
- ▶ Arc Memory Clutch – Prevents internal gear damage and returns rotor to its prior setting automatically if nozzle turns to face past its stop.
- ▶ Time Proven Patented Reversing Mechanism – Assures continuous reverse and return over a 20 year history.
- ▶ Ratcheting Riser – Allows for easy adjustment of your left starting position with a single turn of the riser.
- ▶ Rubber Cover – Keeps out dirt and increases product durability.
- ▶ Wide Selection of Nozzles – Including standard and low angle provides flexibility in system design.
- ▶ Optional Check Valve – Prevents low head drainage.

K
RAIN

IRRIGATION SO
WORLDW



ProPlus Performance Data

Model Numbers: 11003, 11003-HP, 11003-SH, 11003-RCW • Arc Adjust: 40-360 • Drive Type: Gear • Warranty: 5 years

Standard Performance Data:

26 degree trajectory

Nozzle	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip (IN/HR)	Precip (IN/HR)
0.5	30	28	0.5	0.06	0.07
	40	29	0.6	0.07	0.08
	50	30	0.7	0.08	0.09
0.75	30	29	0.7	0.08	0.09
	40	30	0.8	0.09	0.10
	50	31	0.9	0.09	0.10
1	30	32	1.3	0.12	0.14
	40	33	1.5	0.13	0.15
	50	34	1.6	0.13	0.15
2	30	37	2.5	0.17	0.20
	40	40	3.0	0.20	0.23
	50	42	3.3	0.21	0.24
2.5 Pre- Installed	30	42	2.5	0.17	0.20
	40	44	3.0	0.18	0.21
	50	46	3.3	0.19	0.22
3	30	42	3.0	0.20	0.23
	40	44	3.3	0.24	0.27
	50	46	3.6	0.26	0.29
4	30	42	3.3	0.27	0.30
	40	44	3.6	0.27	0.31
	50	46	3.9	0.27	0.31
6	30	45	5.9	0.28	0.32
	40	46	6.0	0.27	0.32
	50	48	6.3	0.26	0.30
8	30	49	6.7	0.27	0.31
	40	42	8.0	0.44	0.50
	50	45	8.5	0.40	0.47
70	50	10.0	0.39	0.44	

Metric Performance Data:

26 degree trajectory

Nozzle	Pressure (bar)	Radius (meter)	Flow (l/m)	Precip (mm/hr)	Precip (mm/hr)
0.5	2.0	8.5	1.9	1.6	1.8
	3.0	8.8	2.3	1.7	2.0
	3.5	8.8	2.6	2.0	2.3
0.75	2.0	9.1	2.6	2.0	2.3
	3.0	9.1	3.0	2.2	2.6
	3.5	9.4	3.4	2.3	2.6
1	2.0	9.8	4.9	3.1	3.6
	3.0	10.1	5.7	3.4	3.9
	3.5	10.4	6.1	3.4	3.9
2	2.0	10.1	6.8	3.6	4.1
	3.0	10.4	8.1	4.3	4.9
	3.5	10.7	8.5	4.3	4.9
2.5	2.0	10.7	8.1	4.3	4.9
	3.0	11.6	9.3	4.2	4.9
	3.5	11.9	9.7	4.5	5.2
3	2.0	11.6	11.9	4.9	5.6
	3.0	12.2	12.5	5.1	5.9
	3.5	12.5	12.5	5.1	5.9
4	2.0	11.6	11.9	6.1	7.0
	3.0	12.5	12.5	6.8	7.8
	3.5	12.5	12.5	6.7	7.7
6	2.0	12.8	19.3	6.9	8.0
	3.0	14.9	21.2	5.8	6.7
	3.5	14.9	21.2	6.4	7.4
8	2.0	14.9	22.3	6.5	7.5
	3.0	14.9	22.3	6.5	7.5
	3.5	14.9	22.3	6.5	7.5
70	2.0	14.9	22.3	6.0	6.9
	3.0	13.7	22.3	7.1	8.2
	3.5	14.0	22.7	6.9	8.0
8	2.0	14.6	23.8	6.7	7.7
	3.0	14.9	25.4	6.8	7.9
	3.5	12.8	30.3	11.1	12.8
70	2.0	13.7	32.2	10.3	11.8
	3.0	15.2	37.9	9.8	11.2
	3.5	15.2	37.9	9.8	11.3

Low Angle Standard Performance Data

12 degree trajectory

Nozzle	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip (IN/HR)	Precip (IN/HR)
1	30	22	1.2	0.24	0.28
	40	24	1.7	0.28	0.33
	50	26	1.8	0.26	0.30
3	30	28	2.0	0.25	0.28
	40	29	3.0	0.34	0.40
	50	32	3.1	0.29	0.34
4	30	35	3.5	0.28	0.32
	40	37	3.8	0.27	0.31
	50	37	3.8	0.27	0.31
6	30	31	3.4	0.34	0.39
	40	34	3.9	0.32	0.37
	50	37	4.4	0.31	0.36
8	30	38	4.7	0.31	0.36
	40	38	6.5	0.43	0.50
	50	40	7.3	0.44	0.51
70	40	42	8.0	0.44	0.50
	50	44	8.6	0.43	0.49

Low Angle Metric Performance Data

12 degree trajectory

Nozzle	Pressure (bar)	Radius (meter)	Flow (l/m)	Precip (mm/hr)	Precip (mm/hr)
1	2.0	6.7	4.5	6.1	7.0
	3.0	7.3	6.4	7.2	8.3
	3.5	7.9	6.8	6.5	7.5
3	2.0	8.5	7.6	6.2	7.2
	3.0	8.8	11.4	8.7	10.1
	3.5	9.8	11.7	7.4	8.5
4	2.0	10.7	13.2	7.0	8.1
	3.0	11.3	14.4	6.8	7.8
	3.5	11.3	14.4	6.8	7.8
6	2.0	9.4	12.9	8.6	10.0
	3.0	10.4	14.8	8.2	9.5
	3.5	11.3	16.7	7.9	9.1
8	2.0	11.6	17.8	8.0	9.2
	3.0	11.6	24.6	11.0	12.7
	3.5	12.2	27.6	11.2	12.9
70	2.0	12.8	30.3	11.1	12.8
	3.0	13.4	32.6	10.9	12.5

All precipitation rates are calculated at 360 degrees. For precipitation rates at 180 degrees, multiply by 2. Data represents test results in zero wind. Adjust for local conditions. Radius may be reduced with nozzle retention screw.

The proposed system has been designed to serve a 5 Bedroom (equivalent) Single Family Residence that will be < 4,500 sq ft. It will have a maximum daily water usage rate of 360 gal/day, as per table III of the Chapter 285 Rules for On-Site Sewage Facilities by the TCEQ.

Site Description and Site Evaluation

The subject property is located within a subdivision. The legal description is Unit 3, Lot 60, Block 1 in the Centennial Ridge Subdivision. The existing vegetation consists of some native grasses. The site evaluation indicated that the site has suitable soil for an aerobic surface irrigation system. No evidence of shallow ground water was observed during the site evaluation. All exposed rock within the proposed surface distribution area will be removed or covered with suitable soil and seeded prior to final

inspection. The spray heads will remain a minimum of 15 feet away from any trees. The property has a slope of less than 15 percent within the proposed surface distribution area. The residence will utilize a private well water supply as the source for potable water. All of the systems components will be 100 feet away from all wells. All portions of the spray radii will maintain at least a 20 feet separation from all property lines. No portion of this system lies within 10 feet of a waterline. There are no recharge features within 150 feet of the proposed system. Minimum separation is stated in Chapter 285.30 TCEQ On-Site Sewage Facilities. The system is considered a "package system" and will be installed according to manufacturer's instructions.

Description of Proposed Aerobic Treatment System

The residence will utilize a Solar Aerobic wastewater treatment system Model LP. It is a proprietary treatment system designed by TCEQ for use in Texas. The Solar Aerobic model is a two compartment concrete tank. The aerobic system will consist of 375 gal pretreatment/trash tank which will gravity flow into the aerobic treatment tank. The effluent from the aerobic tank will flow into 778 gal pump tank. A NSF approved liquid chlorine will be used for disinfection. The pump tank compartment serves as a chlorine contact chamber as well as a storage tank. Distribution is through purple 1" Sch. 40 PVC pipe, to 2 K-Rain Pro Plus Professional Low Angle spray heads. The disposal area will consist of 2 – 30 ft. radii 360° patterns. The system is considered a "package system" and will be installed according to manufacturer's instructions.

Design Specifications

Size of Residence: < 4,500 sq. ft.

Number of Bedrooms: 4 + Study with closet

Average Expected Daily Flow (Q): 360 gpd

Application Rate: 0.064 gal/ft²/day

Minimum Application Area Required (A=Q/Ra): $A = 360 / 0.064 = 5,626 \text{ ft}^2$

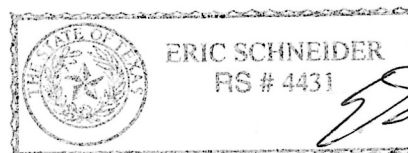
Actual Application Area: 5,652 ft²

System Components

Pretreatment/Trash Tank: 375 gal

Aeration Tank: 785 gal

Pump Tank: 778 gal (41.5 inches of usable space) – 18.75 gallons/inch



1
8/29/25 Revision

Pump Float Settings

Pump Off Position: 7 in. above tank floor = 131.25 gal

Pump On Position: 8 in. above tank floor = 150.00 gal

Alarm On Position: 28 in. above tank floor = 525.00 gal

Reserve Capacity: 13.5 in. (778 gal – 525.00 gal) = 253.00 gal (> 2/3 estimated gpd)

Pump and Sprinkler Heads

Elevation Head: 6 ft

Pressure Head: 30 psi x 2.3 = 69

Friction Head: 100 ft x 0.0015 = 0.15 ft x .0213 = 0.003

Total Head (TDH): 6 ft + 2.1 ft + 0.13 ft = 8.23 ft (use the pump performance curve)

Pump: Franklin Electric C100 10CI-05P4-2

Sprinkler: Rain Protection Professionals with an Anzures nozzle #4, operating at 30 psi, 30 ft radius, and a flow per sprinkler.

Chlorinator

This system will utilize a NSF approved Liquid Chlorinator.

Dosing:

This system will utilize a commercial timer to cycle power to the pump-on float switch twice per night.

Disposal period for overnight disposal is between midnight and 5 AM.

360 gpd/2 doses per day = 180 gal per dose

2 sprinklers x 3.4 gal per minute = 6.8 gallons per minute

180 gal per dose/6.8 gal per minute ≈ 27 minutes per dose



[Signature]
8/29/25
Revision 2

Construction/Installation Notes & Requirements

- Refer to site plan for component placement and follow manufacturer's instructions for installation of treatment plant and aerator.
- All materials and construction methods are required to conform to the standards for Private Sewage Facilities set forth by the Texas Administrative Code, Chapter 285 On-Site Sewage Facilities.
- The installer must have a current and valid Texas installer certificate, and is required to have at the minimum an Installer II certification.
- The installer must notify the designer and regulatory authority at least 48 hours in advance to schedule required inspections to ensure that the system is installed in accordance with

approved plans and specifications.

- Diversion berms will be placed when needed to protect irrigation and tank areas from excessive runoff.
- It is the responsibility of the installer to maintain the minimum setback requirements as stated in Chapter 285 On-Site Sewage Facilities.

- Part of the system shall be in 10 feet of potential.
-

Electrical Response

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

Tank Notes

- The bottom of the excavation for the tanks should be level and free of large rocks and debris.
- All tanks are to be set level on a minimum 4 inch layer of sand, sandy loam, clay loam, or pea gravel.
- Risers are required on tank inspection ports as per 30 TAC 285.38 (9/1/2012.) This includes access limitation (<65 lbs lid or hardware secured lid) and secondary plug, net, or mesh in riser. Risers are required to be two inches above grade level.
- All openings in the tank must be properly sealed to prevent the escape of wastewater, and/or to prevent the infiltration of water.
- Tanks must be filled with water for at least 24 hours to test for leaks and structural integrity.
- The tanks must be set low enough to have fall of at least 1/8 inch per foot from house to tank.
- PVC pipe from house to tank must be at least Sch. 40 or SDR 26.

Irrigation and Landscape Notes

- Irrigation lines should be 1 inch Sch. 40 PVC. All supply lines, sprinkler heads, and valve cover boxes must be permanently colored purple. Sleeve any pipe that crosses any road, driveway, or other land improvement with Sch. 40 PVC.
- Supply lines must be buried at least 6 inches below finished grade.
- If irrigation area does not have established vegetation, a mixture of winter rye or Bermuda grass will be seeded to establish seasonal vegetation.
- The installer will notify the property owner prior to removal of any trees/bushes that may obstruct the operation of the irrigation system.
- All exposed surface rock must be covered with at least 4 inches of suitable soil.

Additional Notes

- Install audio-visual alarm for aerator and pump on separate breakers.
- The high water and air compressor alarms should be audio/visual and mounted in a place that can be easily seen and heard when alarms are activated.

Maintenance Requirements

- The applicant must file to the regulatory authority a valid maintenance contract with a qualified maintenance company before the permit is issued.
- The maintenance company will verify the system is operating properly and provide on-going maintenance and installation.
- The contract will be for a minimum of 2 years.
- A maintenance contract is required to maintain and repair the system as needed.
- The property owner must continuously maintain a signed written contract with a valid maintenance company and will 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 file 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:
 - The new owner being advised that the property contains a surface application system for wastewater disposal.
 - The permit issued to the previous owner of the property being transferred to the new owner in accordance with Chapter 285.3(b)(3) of the TCEQ OSSF 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 ownership of the OSSF has been severed from the property.
 - 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.
- Feminine hygiene products should never be disposed of in the toilet. Products such as these can be detrimental to a septic system, causing backups inside the home and/or overflowing of the tank due to pump malfunction.
- The excessive use of in-sink garbage grinders and grease discarding should be avoided. In-sink garbage grinders can cause a rapid buildup of sludge or scum resulting in a more frequent cleaning and possible system failure.
- Do not use the toilet to dispose of cleaning tissue, cigarette butts, or other trash. This disposal practice will waste water and also impose an undesirable solid load on the treatment system.

Septic tanks should be cleaned before sludge accumulates to a point where it approaches the bottom of the outlet device. If sludge or scum accumulates to this point, solids will leave the tank with the liquid and possibly cause the system to clog resulting in sewage surfacing or backing up into the house through plumbing fixtures.

- A regular schedule of cleaning the tank at two to three year intervals should be established. Commercial cleaners equipped to perform the cleaning of OSSF's will collect only proper region with no transport the septic system.
- Do not use a driver's storage buildings, or other structures of system components in the disposal of.
- Chemical additives or so-called enzymes, are not necessary for the operation of a septic tank. Some of these additives may be harmful to the system's operation.
- Soaps, detergents, bleaches, and cleaners, other household cleaning materials will very seldom affect the operation of a septic tank, however, their use is not recommended in the use of such materials.
- The homeowner shall observe Chapter 285.37 regarding water softeners and reverse osmosis entering into the OSSF.
- The liquid from the OSSF is still heavily laden with bacteria. The surfacing of this liquid constitutes a health hazard to those that might come into contact with it.

Water Conservation Practices

- Showers usually use less water than baths. Installing water saving shower heads that use less than 2.5 gallons per minute saves both water and energy.
- If you take a tub bath, reduce the level of water in the tub from the level to which you customarily fill it.
- Leaky faucets and faulty toilet fill-up mechanisms should be repaired as quickly as possible.
- Leaking toilets may not be evident. Add a few drops of food coloring into the tank. Do not flush. If the color appears in the bowl within a few minutes, adjustments and/or repairs to the toilet need to be made.
- Install low-flow fixtures throughout the house and use faucet aerators that restrict water flow to help reduce consumption.
- Try to run dishwasher with a full load.
- Avoid running the water continuously for brushing teeth, washing hands, shaving, or rinsing kitchen utensils.

Received

Brandon Mark Olvera

09/09/2025 12:16:42 PM

Eric Schneider

R.S. #4431

- Water can be saved in the laundry room by adjusting water levels to match the size of the load. If the washing machine does not have a variable load control, water can be saved by running it only when the washer is full.
- Keep a container of drinking water in the refrigerator instead of running a faucet until it turns cold.

- Insulate hot water pipes to avoid long delays or wasted water while waiting for the water to heat.
- Ask your federal, state, county, city, or other local government about programs to conserve water and how they can help you save water.

VOID

This proposed system has been designed in accordance with the minimum standards under TCEQ Chapter 28, Subchapter C, Facility Design. The site evaluation and subsequent design are based on technical information currently available. There was no indication of shallow groundwater or slope where seeps could occur at the time of the site evaluation. The information of the design is not, and cannot be guaranteed, to be true in all portions of the State as has been covered with. If there should occur, additional modifications to the OSSF may be required to be made. In accepting the design, the homeowner/owner understands that the site evaluation or will be limited to more than the agreed upon fee.

Received

Brandon Mark Olvera

09/09/2025 12:16:42 PM

1016 Adyson Ridge Drive
Bulverde, TX 78163

LEGEND

- A: 5 Bedroom (Equivalent), Single Family Residence, < 4,500 Sq. Ft.
- B: 3" or 4" SCH 40 PVC Pipe with Two Way Clean Out
- C: Solar Air Aerobic Treatment Unit, Model SA600LP
- D: 1" SCH 40 Purple PVC Pipe
- E: K-Rain Pro Plus Low Angle Spray Head, Nozzle #4, Radius @ 30'
- F: Well
- G: Waterline
- H: Driveway
- X: Profile Hole

PROPERTY NOTES

- 100' OSSF Setback from Well to Edge of Spray Area
- 100' Building Setback from Back Property Line
- 50' OSSF Setback from Well to Septic Tank
- 50' Building Setback from Back Property Line
- 40' Building Setback from Side Property Lines
- 20' OSSF Setback from All Property Lines
- 20' Building Setback from Front Property Line
- 10' Building Setback from Side and Back Property Lines
- 5' Septic Tank Setback from Side Property Line

SCALE

1 INCH = 100 FEET

VOID

40' To
First
Sprayhead

20.80'

29.20'

204.42'

20' OSSF/PUE

50' B.S.

97

98

99

100

ADYSON RIDGE DRIVE

20.00'

85.28'



8/29/25
revision

PERMIT

Received
Brandon Mark Olvera
09/09/2025 12:08:11 PM

PERMIT #: 2025-288

PROJECT ADDRESS: 1016 Adyson Ridge Drive NSFR

DESIGNATION: Residential

OWNER NAME: Steven and Natalie Wiggins

PERMIT TYPE: New Single Family
(Residential)



ISSUED TO (CONTRACTOR): Stone Creek Custom Homes - Blake Libert
25120 Blanco Road (210) 287-2100
Blake@stonecreekcustomhomes.com

Issued Date: August 01, 2025

Expiration Date: January 28, 2026

STIPULATIONS IF ANY:

THIS PERMIT MUST BE POSTED IN A CONSPICUOUS PLACE ON CONSTRUCTION SITE

PERMIT

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09/09/2025 12:08:35 PM

INSPECTION INFORMATION

- TO SCHEDULE INSPECTIONS PLEASE REQUEST ONLINE VIA <https://mgoconnect.org/cp/portal>. Please schedule by 2pm for next day inspections.

- REQUIRED INSPECTIONS:

Required inspections are subject to change
at the discretion of the Jurisdiction.

- o Electric Trench
- o Gas Rough In
- o Sewer Yard Line
- o Shear Wall/Exterior Sheathing
- o TML (Electrical - Temporary Meter Loop)
- o Water Service
- o Plumbing Rough
- o Foundation Pre Pour
- o Electrical Rough
- o Framing
- o Mechanical Rough
- o Plumbing Top Out
- o Insulation
- o Shower Pan
- o TOPS (Electrical - Temporary on Permanent Set
- o Gas Final
- o Building Final
- o Electrical Final
- o Mechanical Final
- o Plumbing Final

PERMIT

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- For all other questions regarding building & permitting please contact:
 - o Claudia Cardenas, ccardenas@bulverdetx.gov
 - o Bailey Dorn, bdorn@bulverdetx.gov
 - o Heath Edwards, hedwards@bulverdetx.gov

CTT4300312400801CR

General Warranty Deed with Vendor's Lien

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: Effective as of October 9, 2024, regardless of the date(s) actually executed by the undersigned

Grantor: Paul S. Uribe and Cherie M. Uribe FKA Cherie M. Patti

Grantee: Steven J. Wiggins and Natalie R. Wiggins, a married couple

2154 Appellation
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, and the further consideration of the execution and delivery by said Grantee of a certain Promissory Note in the principal amount of \$273,600.00, of even date herewith, payable to the order of First Commercial Bank, N.A., hereinafter referred to as the "Mortgagee", bearing interest at the rate therein provided. The note is secured by a vendor's lien retained in this deed in favor of First Commercial Bank, N.A., and by a deed of trust of even date from Grantee to Mark A. Long, Trustee.

Whereas the Mortgagee has, at the special instance and request of Grantee, paid to Grantor a portion of the purchase price of the Property, as included in the above-described Promissory Note, the said vendor's lien against the Property securing the payment of the Promissory Note and superior title are hereby assigned, transferred and delivered to Mortgagee, Grantor hereby conveying to said Mortgagee the superior title to the Property, subrogating said Mortgagee to all the rights and remedies of Grantor in the premises by virtue of said lien.

Property (including any improvements): Lot 60, Block 1, Centennial Ridge Unit 3, a subdivision in Comal County, Texas, according to the map or plat thereof recorded in Document No. 202006046126, Map and Plat Records, Comal County, Texas.

Reservations from Conveyance: None.

Exceptions to Conveyance and Warranty: Vendor's lien and superior title retained in this deed, 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 any and all improvements and 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.

It is expressly agreed that the vendor's lien herein described and superior title are retained in favor of the payee of the Promissory Note hereinabove described against the Property and any improvements thereon, until said Promissory Note and all interest thereon shall have been fully paid according to the terms thereof, at which time this deed will become absolute.

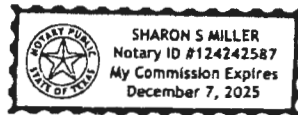
When the context requires, singular nouns and pronouns include the plural. Additionally, this instrument may be executed in multiple counterparts and by different parties in separate counterparts, which, when taken together, shall constitute one original instrument.



Paul S. Uribe

THE STATE OF Texas §
COUNTY OF Fort Bend §
§
§

This instrument was acknowledged before me by means of an interactive two-way audio and video communication on this 9 day of October, 2024, by Paul S. Uribe. This notarial act was an online notarization.





Notary Public, State of Texas

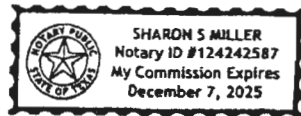
Cherie M Uribe

Cherie M. Uribe

THE STATE OF Texas
COUNTY OF Fort Bend

§
§
§

This instrument was acknowledged before me by means of an interactive two-way audio and video communication on this 9 day of October, 2024, by Cherie M. Uribe. This notarial act was an online notarization.



Sharon S. Miller
Notary Public, State of Texas

After Recording Return To:
Steven J. Wiggins and Natalie R. Wiggins

2154 Appellation
New Braunfels, TX 78132

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
10/10/2024 01:40:25 PM
CHRISTY 3 Pages(s)
202406030922



Bobbie Koepp