staller Name:	OSSF Installer #:	OSSF Installer #:			
1st Inspection Date:	2nd Inspection Date:	3rd Inspection Date:			
Inspector Name:	Inspector Name:	Inspector Name:			

Perm	it#:		Address:				
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
1	SITE AND SOIL CONDITIONS & SETBACK DISTANCES Site and Soil Conditions Consistent with Submitted Planning Materials		285.31(a) 285.30(b)(1)(A)(iv) 285.30(b)(1)(A)(v) 285.30(b)(1)(A)(iii) 285.30(b)(1)(A)(ii) 285.30(b)(1)(A)(i)				
2	SITE AND SOIL CONDITIONS & SETBACK DISTANCES Setback Distances Meet Minimum Standards		285.91(10) 285.30(b)(4) 285.31(d)				
3	SEWER PIPE Proper Type Pipe from Structure to Disposal System (Cast Iron, Ductile Iron, Sch. 40, SDR 26)		285.32(a)(1)				
4	SEWER PIPE Slope from the Sewer to the Tank at least 1/8 Inch Per Foot		285.32(a)(3)				
	SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends)		285.32(a)(5)				
5	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)(C)(i) 285.32(b)(1)(C)(ii) 285.32(b)(1)(D) 285.32(b)(1)(E) 285.32(b)(1)(E) 285.32(b)(1)(E) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II)				
7	PRETREATMENT Grease Interceptors if required for commercial		285.34(d)				

Inspector Notes:

N-	December 41	A mar	Citotiana	Net	1 at 1	2 m d 1	7 mal 1
No.	Description SEPTIC TANK Tank(s) Clearly	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
8	Marked SEPTIC TANK IsingleTank, 2Compartments Provided withBaffle SEPTIC TANK Inlet Flowline Greater than3" and "T" Provided on Inlet and OutletSEPTIC TANK Septic Tank(s) MeetMinimum Requirements		285.32(b)(1) (E)285.91(2)285.32(b)(1) (F)285.32(b)(1)(E) (iii)285.32(b)(1)(E)(ii) (I)285.32(b)(1)(E) (i)285.32(b)(1)(E) (i)285.32(b)(1)(C) (ii)285.32(b)(1)(C) (ii)285.32(b)(1)(C) (ii)285.32(b)(1) (B)285.32(b)(1) (A)285.32(b)(1)(E)(iv)				
1	ALL TANKS Installed on 4" Sand Cushion/ Proper Backfill Used		285.32(b)(1)(F) 285.32(b)(1)(G) 285.34(b)				
	SEPTIC TANK Inspection / Clean Out Port & Risers Provided on Tanks Buried Greater than 12" Sealed and Capped		285.38(d)				
	SEPTIC TANK Secondary restraint system providedSEPTIC TANK Riser permanently fastened to lid or cast into tank SEPTIC TANK Riser cap protected against unauthorized intrusions		285.38(d) 285.38(e)				
	SEPTIC TANK Tank Volume Installed						
12							
	PUMP TANK Volume Installed						
1	AEROBIC TREATMENT UNIT Size Installed						
14							
	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number						
15	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)				
18			203.33(a)(2)				

	_ , .			- -			
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)		285.33(d)(6) 285.33(c)(4)				
	DRAINFIELD Absorptive Drainline 3" PVC or 4" PVC						
26	DRAINFIELD Area Installed						
	DRAINFIELD Level to within 1 inch per 25 feet and within 3 inches over entire excavation		285.33(b)(1)(A)(v)				
	DRAINFIELD Excavation Width DRAINFIELD Excavation Depth DRAINFIELD Excavation Separation DRAINFIELD Depth of Porous Media DRAINFIELD Type of Porous Media						
	DRAINFIELD Pipe and Gravel - Geotextile Fabric in Place		285.33(b)(1)(E)				
	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)				
	LOW PRESSURE DISPOSAL SYSTEM Adequate Trench Length & Width, and Adequate Separation Distance between Trenches		285.33(d)(1)(C)(i)				

	O331 Inspection sheet							
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.	
32	EFFLUENT DISPOSAL SYSTEM Utilized Only by Single Family Dwelling EFFLUENT DISPOSAL SYSTEM Topographic Slopes < 2.0% EFFLUENT DISPOSAL SYSTEM Adequate Length of Drain Field (1000 Linear ft. for 2 bedrooms or Less & an additional 400 ft. for each additional bedroom) EFFLUENT DISPOSAL SYSTEM Lateral Depth of 18 inches to 3 ft. & Vertical Separation of 1ft on bottom and 2 ft. to restrictive horizon and ground water respectfully EFFLUENT DISPOSAL SYSTEM Lateral Drain Pipe (1.25 - 1.5" dia.) & Pipe Holes (3/16 - 1/4" dia. Hole Size) 5 ft. Apart		285.33(b)(3)(A) 285.33(b)(3)(A) 285.33(b)(3) (B)285.91(13) 285.33(b)(3)(D) 285.33(b)(3)(F)					
	AEROBIC TREATMENT UNIT IS Aerobic Unit Installed According to Approved Guidelines.		285.32(c)(1)					
	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							
	AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place.							
	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 PUMP TANK Inspection/Clean Out							
37	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 PUMP TANK Electrical							
	Connections in Approved Junction Boxes / Wiring Buried							

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



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

Permit Number: 115449

Issued This Date: 02/14/2023

This permit is hereby given to: Royce & Donna Courts

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

5800 FM 32

FISCHER, TX 78623

Subdivision: CD Robertson 999, TCRR Co. 945 & 946 Sur

Unit: -Lot: 9

Block: -

Acreage: 20.5900

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 County requirements.

Call (830) 608-2090 to schedule inspections.



ON-SITE SEWAGE FACILITY APPLICATION

195 DAVID JONAS DR NEW BRAUNFELS, TX 781 (830) 608-2090

Date	REVISED	Pormit Number	WWW.CCEO.ORG
1. APPLICANT / AGENT INFORMATION	11:00 am, Feb 14, 2		
Owner Name Royce Courts & Donna Co	urts	Stephen Jetton	
Mailing Address PO BOX 310 8	o a a a chefett on a	Eff to bottle or more than	
City, State, Zip WimBELLEY TX 78676	Agent Address	2573 Deer Stand Loop	10-175
Phone # 512-560-6188	City, State, Zip	San Marcos TX 78666	IDOHREN IETO E R
Email PACIFIC @ SBCG/OBAL, N	Phone #	512-757-1259	
2. LOCATION	ET Email	stephen.jetton@gmail.com	
Subdivision Name RITHER AT SENTINEL PEAK		The state of the s	
Survey Name / Abstract Number C.D. Robertson survey No. 999 ABS 982; T.C.R.R. Co. Survey Section No. 945 ABS		nit Lot	Block
Address 5900 - Crit 32 - AGE 1			
3. TYPE OF DEVELOPMENT	City Fischer	State	X Zip 78623
Models			
Type of Construction (House, Mobile, RV, Etc.)			
Number of Bedrooms 3	Ville loads or the day she ha	V.PP., d .e.s. d.e. propos	
Indicate Sq Ft of Living Area 365/vd be		shall certify that the USSF	
Non-Single Family Residential			
(Planning materials must show adequate land area for doubli	ng the required land need	kar Guain zambili natura za b	ninani. inana
Type of Facility	ing the required land fleed	ed for treatment units and d	isposal area)
Offices, Factories, Churches, Schools, Parks, Etc Inc	dicate Number Of Occu	CEO apperratiCZP for the	
Restaurants, Lounges, Theaters - Indicate Number of		dans of the state	O A to D.A with e
Hotel, Motel, Hospital, Nursing Home - Indicate Number		nezonova adi santa 670	Application and all many
Travel Trailer/RV Parks - Indicate Number of Spaces			Paracina ana suana
Miscellaneous (407) de la contracte regranda de la contracte regranda de la contracte regranda de la contracte	een appro eq by the appro	o est 420 on that 5	
	Type What	L. C Knobb i movembel and a	william settlement
Estimated Cost of Construction: \$ 1,500,000	(Structure Only)		
Is any portion of the proposed OSSF located in the United		ngineers (USACE) flows	an accoment?
Yes No (If yes, owner must provide approval from USAC			
Source of Water Public Private Well	= 10. proposed Goor Improv	sments within the OSACE howe	ige easement)
4. SIGNATURE OF OWNER			
By signing this application, I certify that: - The completed application and all additional information submitted facts. I certify that I am the property owner or I possess the approproperty.	does not contain any false riate land rights necessary	information and does not c	onceal any materia rovements on said
- Authorization is hereby given to the permitting authority and design site/soil evaluation and inspection of private sewage facilities			make a flow of a 150 of 150
 I understand that a permit of authorization to construct will not be is by the Comal County Flood Damage Prevention Order. I affirmatively consent to the online posting/public release of my or 			
- I affirmatively consent to the online posting/public release of my e-n		tn this permit application, as	applicable.
Signature of Owner	10-4-2022 Date		D 4

Date



Signature of Designer

ON-SITE SEWAGE FACILITY APPLICATION

195 DAVID JONAS DR NEW BRAUNFELS, TX 7813 (830) 608-2090

Planning Materials & Site Evaluation as Re	dulled Completed By Stephen 7	Jellon	2:34 pm, Dec 16, 2022
System Description Aerobic Surface Spray N	uwater B-550	ATION	MAQEM ENERA TWA. 570
Size of Septic System Required Based on F	Planning Materials & Soil Evaluati	on — 2 15106	nerteme 15 year Ge necklide van 725 BGY 21
Tank Size(s) (Gallons) 600 GPD - 353 Trash - 7	768 Pump Absorption/A	pplication Area (Sc	Ft) 5652.00 sq. ft.
Gallons Per Day (As Per TCEQ Table III)	360 GPD	8319-0	512-56C
(Sites generating more than 5000 gallons per da	TACA JA	ugh TCEQ.)	PASSALLA SE MONARON
Is the property located over the Edwards Re	echarge Zone? Yes X No	y recurred.	SHALL KOMMERS AT
(If yes, the planning materials must be completed	d by a Registered Sanitarian (R.S.) o	r Professional Engine	eer (P.E.))
Is there an existing TCEQ approved WPAP	for the property? Yes I	No	
(If yes, the R.S. or P.E. shall certify that the OSS	F design complies with all provisions	of the existing WPA	P.) En en en Elevidential (.9
If there is no existing WPAP, does the proper	osed development activity require	a TCEQ approved	d WPAP? Yes X No
(If yes, the R.S. or P.E. shall certify that the OSS be issued for the proposed OSSF until the propo			
Is the property located over the Edwards Co	ontributing Zone? X Yes I	No as barreas	
Is there an existing TCEQ approval CZP for	the property? Yes X No)	
(If yes, the P.E. or R.S. shall certify that the OSS	F design complies with all provisions		Office Factorics Churches (
If there is no existing CZP, does the propose	ed development activity require a	TCEQ approved C	CZP? Yes X No
(If yes, the R.S. or P.E. shall certify that the OSS issued for the proposed OSSF until the CZP has			ZP. A Permit to Construct will not
Is this property within an incorporated city?	Yes No		
	v Ochulopitě.	s 1,5% c c oc	
If yes, indicate the city:	лавского угол этг	entertablean T28	
			t af vin og i mansallags og graftgrænge.
By signing this application, I certify that:			
- The information provided above is true and o	그는 그 이 전 - 기속에게 되는 이 교회에 되었다. 이 이 400명은 바람보였다. "뭐!		g e Ma <mark>trewi</mark> , yeerstaan roos oo
- I affirmatively consent to the online posting/p	public release of my e-mail address as	ssociated with this pe	ermit application, as applicable.

12/16/2022

Date

REVISED10:59 am, Feb 14, 2023



202306004515 02/13/2023 01:55:41 PM 1/1

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 OSSFs are located on specific pieces of property. To achieve this notice, the commission requires a recorded affidavit. Additionally, the owner must provide proof of the recording to the OSSF permitting authority. This recorded affidavit is not a representation or warranty by the commission of the suitability of this OSSF, nor does it constitute any guarantee by the commission that the appropriate OSSF was installed.

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

CA A book and	200 420000 00 3
C.D. Robertson Survey No.	797 17105/1444 782
TiCORIR. SULLED OCO.	SULVEY SECTION NOO 945
ABSTRACT NO. 0936 +	The TICIRIRI COO SUNCE
DASTRACT NO. 9936 + SECTION NO. 945 ABSTRACT	NO-838 - 20.59-ACRES
The property is owned by (Insert owner's full name):	
This OSSE must be covered by a continuous maintenance	

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 9 DAY OF February, 2023

SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 9 DAY OF

Notary Public, State of Texas

Owner(s) signature(s)

AMANDA LEIGH YODER
Notary Public, State of Texas
Comm. Expires 11-06-2023
Notary ID 132241929

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County Texas
02/13/2023 01:55:41 PM
CHRISTY 1 Page(s)
202306004515





10/01/2025 9:32:31 AMVASTEWATER TREATMENT FACILITY MONITORING AGREEMENT

Black Creek Aerobic Services, LLC 44 A Old Hwy 99 Comfort, TX 78013 Fax. (830) 995-4051 L. General: This Work for Hire Agreement (hereinafter referred to as "Agreement") is entered into by and between (hereinafter referred to as "Agreement") is entered into by and between (hereinafter referred to as "Customer") and Block Creek Aerobic Services, LLC and its employees (hereinafter inclusively referred to as "Customer") and Block Creek Aerobic Services, LLC and its employees (hereinafter inclusively referred to as "Customer") and Block Creek Aerobic Services, LLC and its employees (hereinafter inclusively referred to as "Customer") and Block Creek Aerobic Services, LLC and its employees (hereinafter inclusively referred to as "Customer") and ends on the Customer shall notify the Contractor within two (2) business days of the system fire use to establish the date of commencement will be the date of the commencement. If no notification is received by Contractor within niney by days after completion of installation or where county authority mandates, the date of commencement will be the date of "Lennes to operate" (Notice of Approval) was issued by the permitting authority. This agreement may or may not commence at the same time as any warranty period of installed equipment. but in no cases shall reteard the specified warranty. III. Termination of Agreement: This Agreement is emmanded by either party for any reason, including for example, substantial failure of either party to perform in accordance with the terms of this Agreement, without fault or liability of the terminating party they foll days prior to the termination of this Agreement is terminated to customer within thirty (30) days of the tone termination of this Agreement is terminating party they foll days prior to the termination of this Agreement and the remination of this party and the paid at the rate of \$75.00 per hour for any work performed and for which compensation has not oriented. Contractor will be paid at the rate of \$75.00 per hour for any	Regulatory Authority	Permit/License Numbe	r		
Sike Address Sq.2 Greath Creek St. Confort. TX 78013 Off. (830) 995-3189 Fax. (830) 995-4051 L. General: This Work for Hire Agreement (hereinafter referred to as "Agreement") is entered into by and between (hereinafter referred to as "Agreement") is entered into by and between (hereinafter referred to as "Agreement") is entered into by and between (hereinafter referred to as "Customer") and Block Creek Aerobic Services. LLC. By this agreement. Block Creek Aerobic Services at the site address stated above, as described herein, and the Customer agrees to fulfill his/her/their responsibilities, as described herein. II. Effective Date: This Agreement commences on In and ends on This Agreement forward or one (1) year (thereafter). If this is an initial agreement (new installation), the for a total of two (2) years (initial agreement) or one (1) year (thereafter). If this is an initial agreement (new installation), the Customer shall notify the formation of the commencement will be the date of commencement will be the date the "License to operate" (Notice of Approval) was issued by the permitting authority. This agreement may or may not commence at the same time as any warranty period of installed equipment, but in no cases shall it extend the specified warranty. This Agreement in one cases shall it extend the specified warranty. This Agreement is mits Agreement swith the terms of this Agreement, without fault or liability of the termination party to perform in accordance with the terms of this Agreement, without fault or liability of the termination party must provide written notice to the non-terminating party thirty (30) days prior to the termination of this Agreement. This Agreement is this Agreement at at the rate of SSS, Dop er bour for any work performed and for which compensation has not been received. After the deduction of all outstanding charges, any remaining monits from prepayment for services will be refined to customer within thirty (30) days prior to the date of such termination. Nonpayment		Customer Royce	courts		
Confort, 17.78013 City F1.5the 20 82.3 108 Wimborley 186716 Fax. (830) 995-4051 L. General: This Work for Hire Agreement (hereinafter referred to as "Agreement") is entered into by and between thereinafter referred to as "Customer") and Block Creek Aerobic Services, LLC and its employees (hereinafter inclusively referred to as "Customer") and Block Creek Aerobic Services, LLC and its employees (hereinafter inclusively referred to as "Customer") agree to render services at the site address stated above, as described herein, and the Customer agrees to fulfill his/her/their responsibilities, as described herein. H. Effective Date: This Agreement commences on and end on an an an an an an an analysis of the system's firmeut to establish the date of commencement. If no notification is received by Contractor within inney (90) days after use to establish the date of commencement. If no notification is received by Contractor within inney (90) days after use to establish the date of commencement. If no notification is received by Contractor within inney (90) days after use to establish the date of commencement will be the date the "License to operate" (Notice of Approval) was issued by the permitting authority. This agreement may or may not commence at the same time as any warranty period of installed equipment, but in no cases shall it extend the specified warranty. III. Termination of Agreement: This Agreement any be terminated by either party for any reason, including for example, substantial failure of either party to perform in accordance with the terms of this Agreement, without fault or liability of the termination of this Agreement and the terms of this Agreement, without fault or liability of the termination of this Agreement in a contract of the commence of the party to perform in accordance with the terms of this Agreement, without fault or liability of the termination of this Agreement in the same time as any analysis of the termination of this Agreement in this Agreement and termination of this Agreem		Site Address 5962	Grotto Cres	k Ct.	
Maling Address PO 88 108 WIM99-8-188 Fan. (830) 995-3189 Li. General: This Work for Hire Agreement (hereinafter referred to as "Agreement") is entered into by and between hereinafter referred to as "Customer") and Block. Creek Aerobic Services, LLC. By this agreement, Block Creek Aerobic Services, LLC and its employees (hereinafter inclusively referred to as "Customer") and Block. Creek Aerobic Services, LLC and its employees (hereinafter inclusively referred to as "Customer") and Block. Creek Aerobic Services, LLC and its employees (hereinafter inclusively referred to as "Customer") and ends on growing the contractor within two (2) business days of the system's first use to establish the date of commencement of the Customer shall notify the Contractor within two (2) business days of the system's first use to establish the date of commencement Ir fin nontification is received by Contractor within innety (90) days after completion of installation), the Customer shall notify the Contractor within two (2) business days of the system's first use to establish the date of commencement will be the date the "License to operate" (Notice of Approval) was issued by the permitting authority. This agreement may or may not commence at the same time as any warranty period of installed equipment, but in no case shall it extend the specified warranty. HIL Termination of Agreement: This Agreement may be terminated by either party for any reason, including for example, substantial failure of either party to perform in accordance with the terms of this Agreement, without fault or liability of the terminating party. The terminating party thray (30) days prior to the termination of this Agreement. If this Agreement is terminated, Contractor will be paid at the rate of \$75.00 per hour for any work performed and for which compensation has not been received. After the deduction of all outstanding hardy any remaining mories from prepayment for services will be refunded to customer within thirty (30) days of termination of this Agree		City Fischer	Zip 7862		781.74
County Havy Phone 512-560-6188 P			8018 X88 C	Wimberley	10412
Plane Size Society Strong Dealth Strong Deal		County Hays			
Lic. By this agreement, Block Creck Aerobic Services, LLC and its employees (hereinafter inclusively referred to as "Customer") and Block Creck Aerobic Services, Characteristic and the Customer agrees to the site address stated above, as described herein, and the Customer agrees to fulfill his/her/their responsibilities, as described herein. H. Effective Date: This Agreement commences on		Phone \$12-56C	0-6188	1	
LC. By this agreement. Block Creek Aerobic Services, LLC and its employees (hereinalter inclusively referred to as "Agreement") and Block Creek Aerobic Services, LLC and its employees (hereinalter inclusively referred to as "Customer") and Block Creek Aerobic Services, LLC and its employees (hereinalter inclusively referred to as sincertainty) agree to render services at the site address stated above, as described herein, and the Customer agrees to fulfill histopherical proposal propo		Email pactic	a sbegioba	i- we i	
II. Effective Date: This Agreement commences on and ends on for a total of two (2) years (initial agreement) or one (1) year (thereafter). If this is an initial agreement (new installation), the Coustomer shall notify the Contractor within two (2) business days of the system's first use to establish the date of commencement. If no notification is received by Contractor within ninety (90) days after completion of installation or where county authority mandates, the date of commencement will be the date the "License to operate" (Notice of Approval) was issued by the permitting authority. This agreement may or may not commence at the same time as any warranty period of installed equipment, but in no case shall it extend the specified warranty. III. Termination of Agreement: This Agreement may be terminated by either party for any reason, including for example, substantial failure of either party to perform in accordance with the terms of this Agreement, without fault or liability of the termination of this Agreement. If this Agreement is terminated, Contractor will be paid at the rate of \$75.00 per hour for any work performed and for which compensation has not been received. After the deduction of all outstanding charges, any renaining monies from prepayment for services will be refunded to customer within thirty (30) days of termination of this Agreement. It is Agreement for any reason, including non-renewal, shall notify in writing the equipment manufacturer and the appropriate regulatory agency a minimum of thirty (30) days prior to the date of such termination. Nonpayment of any kind shall be considered breach of contract and a termination of contract. IV. Services: Contractor will: a. Inspect and perform routine upkeep on the On-Site Sewage Facility (hereinafter referred to as OSSF) as recommended by the treatment system manufacturer, and required by state and/or local regulation, for a total of three visits to site per year. The list of items checked at each visit shall be the: control panel, Electri	(here	reinafter referred to as "Agr cinafter referred to as "Custo Services, LLC and its emplo	reement") is entered omer") and Block (ovees (hereinafter in	f into by and between Creek Aerobic Services, clusively referred to as	
This Agreement commences on	"Contractor") agree to render services at the site ad-	dress stated above, as describ	ed nerent, and the C	usioner agrees to farm	
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RC	Contractor will: a. Inspect and perform routine recommended by the treatment system may visits to site per year. The list of items Aeration including compressor and diffus and anything else required as per the many b. Provide a written record of v control panel. c. Repair or replace, if Contract failing or inoperative during the course of the service(s) cost less than \$100.00, C Customer for said service(s). When service supplies at the site, Contractor will notify must notify Contractor of arrangements to d. Provide sample collection arouly). e. Forward copies of this Agree f. Visit site in response to Customer of notification (weekends and holidat such unscheduled responses will be billed.	anufacturer, and required by so checked at each visit shall be sers, CFM/PSI measured, lids afacturer. It is its to the site by means of a corn has the necessary materials of a routine monitoring visit. If Customer hereby authorizes are costs are greater than \$100. By Customer of the required so affect repair of system with its additional and all reports to the register and all reports to the register request for unschedulars excluded) of said request.	at site, any compone such services are no Contractor to perfor our if contractor dervice(s) and the assent two (2) business dand BOD on a yearly ulatory agency and the dervices within for	Electrical circuits, time compressor, sludge level the ched to or contained in the covered by warranty, arm the service(s) and bloes not have the necessar sociated cost(s). Custom by after said notification. basis (commercial system or customer.	r, s, s, me
	V. Disinfection:			RC	
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X required. The responsibility to maintain the disinfection device(s) and provide any necessary chemicals is that of the Customer.

VI. Electronic Monitoring:

Electronic Monitoring is not included in this Agreement.

VII. Performance of Agreement:

Commencement of performance by Contractor under this Agreement is contingent on the following conditions:

a. If this is an initial Agreement (new installation):

I. Contractor's receipt of a fully executed original copy or facsimile of this agreement and all documentation requested by Contractor.

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

VIII. Customer's Responsibilities:

The customer is responsible for each and all of the following:

- a. Provide all necessary yard or lawn maintenance and removal of all obstacles, including but not limited to dogs and other animals, vehicles, trees, brush, trash, or debris, as needed to allow the OSSF to function properly, and to allow Contractor safe and easy access to all parts of the OSSF.
 - b. Protect equipment from physical damage including but not limited to that damage caused by insects.
- c. Maintain a current license to operate, and abide by the conditions and limitations of that license, and all requirements for and OSSF from the State and/or local regulatory agency, whichever requirements are more stringent, as well as the proprietary system's manufacturer recommendations.
- d. Notify Contactor immediately of any and all alarms, and/or any and all problems with, including failure of, the OSSF.
- e. Provide, upon request by Contractor, water usage records for the OSSF so that the Contractor can perform a proper evaluation of the performance of the OSSF.
- f. Allow for samples at both the inlet and outlet of the OSSF to be obtained by Contractor for the purpose of evaluating the OSSF's performance. If these samples are taken to a laboratory for testing, with the exception of the service provided under Section IV (d) above, Customer agrees to pay Contractor for the sample collection and transportation, portal to portal, at a rate of \$35.00 per hour, plus the associated fees for laboratory testing.
 - g. Prevent the backwash or flushing of water treatment or conditioning equipment from entering the OSSF.
- h. Prevent the condensation from air conditioning or refrigeration units, or the drains of icemakers, from hydraulically overloading the aerobic treatment units. Drain lines may discharge into the surface application pump tank if approved by system designer.
- i. Provide for pumping and cleaning of tanks and treatment units, when and as recommended by Contactor, at Customer's expense.
 - j. Maintain site drainage to prevent adverse effects on the OSSF.
 - k. Pay promptly and fully, all Contractor's fees, bills, or invoices as described herein.

IX. Access by Contractor:

Contractor is hereby granted an easement to the OSSF for the purpose of performing services described herein. Contractor may enter the property during Contractor's normal business hours and/or other reasonable hours without prior notice to Customer to perform the Services and/or repairs described herein. Contractor shall have access to the OSSF electrical and physical components. Tanks and treatment units shall be accessible by means of man ways, or risers and removable covers, for the purpose of evaluation as required by State and/or local rules and the proprietary system manufacturer. It is Customers responsibility to keep lids exposed and accessible at all times.

X. Limit of Liability:

Contractor shall not be held liable for any incidental, consequential, or special damages, or for economic loss due to expense, or for loss of profits or income, or loss of use to Customer, whether in contract tort or any other theory. In no event shall Contractor be liable in an amount exceeding the total Fee for Services amount paid by Customer under this Agreement.

XI. Indemnification:

Customer (whether one or more) shall and does hereby agree to indemnify, hold harmless and defend Contractor and each of its successors, assigns, heirs, legal representatives, devisees, employees, agents and/or counsel (collectively "Indemnitees") from and against any and all liabilities, claims, damages, losses, liens, causes of action, suits, fines, judgments and other expenses (including, but not limited to, attorneys' fees and expenses and costs of investigation), of any kind, nature or description, (hereinafter collectively referred to as "Liabilities") arising out of, caused by, or resulting, in whole or in part, from this Agreement.

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RC

Contractor's Initials Customer's Initials



10/01/2025 19.32.37 AMION APPLIES EVEN IF SUCH LIABILITIES ARE CAUSED BY THE CONCURRENT OR

Customer hereby waives its right of recourse as to any Indemnitee when Indemnification applies, and Customer shall require its insurer(s) to waive its/their right of subrogation to the extent such action is required to render such waiver of subrogation effective. Customer shall be subrogated to Indemnitees with respect to all rights Indemnitees may have against third parties with respect to matters as to which Customer provides indemnity and/or defense to Indemnitees. No Indemnification is provided to Indemnitees when the liability or loss results from (1) the sole responsibility of such Indemnitee; or, (2) the willful misconduct of such Indemnitee. Upon irrevocable acceptance of this Indemnification obligation, Customer, in its sole discretion, shall select and pay counsel to defend Indemnitees of and from any action that is subject to this Indemnification provision. Indemnitees hereby covenant not to compromise or settle any claim or cause of action for which Customer has provided Indemnification without the consent of Customer.

XII. Severability:

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

XIII. Fee for Services:

The Fee for Services does not include any fees for equipment, material, labor necessary for non-warranty repairs, unscheduled inspections, or Customer requested visits to the site.

XIV, Payment:

Full payment is due upon execution of this Agreement (Required of new Customer). For any other service(s) or repair(s) provided by Contractor the Customer shall pay the invoice(s) for said service(s) or repair(s) within thirty (30) days of the invoice date. The Contractor shall mail all invoices on the date of invoice. All payments not received within thirty (30) days from the invoice date will be subject to a \$29.00 late penalty and a 1.5% per month carrying charge, as well as any reasonable attorney's fees, and all collection and court costs incurred by Contractor in collection of unpaid debt(s). Contractor may terminate contract at any time for nonpayment for services. Any check returned to Contractor for any reason will be assessed a \$30.00 return check fee.

XV. Application or Transfer of payment:

The fees paid for this agreement may be transferred to subsequent property owner(s); however, this Agreement is not transferable. Customer shall advise the subsequent property owner(s) of the State requirement that they sign a replacement agreement authorizing Contractor to perform the herein described Services, and accepting Customer's Responsibilities. This replacement Agreement must be signed and received in Contractor's offices within ten (10) business days of date of transfer of property ownership. Contractor will apply all funds received from Customer first to any past due obligation arising from this Agreement including late fees or penalties, return check fees, and/or charges for services or repairs not paid within thirty (30) days of invoice date. Any remaining monies shall be applied to the funding of the replacement Agreement. The consumption of funds in this manner may cause a reduction in the termination date of effective coverage per this Agreement. See Section IV.

XVI. Entire Agreement:

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

Rudy Carson

Block Creek Aerobic Services, LLC,

Contractor MP# 0002036 istomer Signature

RC

9/30/25

copyright

Customer's Initials

Contractor's Initials



OSSF SOIL EVALUATION FORM

Owner's Name: Courts Residence

Physical Address: 5800 FM 32

Legal Description: T.C. R.R. Co. Survey Section 945 ABS No. 832 – 20.59-acres

C.D. Robertson Survey No. 999 ABS 982; T.C.R.R. Co. Survey Sec. No 946 ABS 936

Date Performed: 9-29-2022 Proposed Excavation Depth: 6"

Requirements:

- At least two soil evaluations must be performed on the site, at opposite ends of the proposed disposal
 area. Locations of soil evaluations must be shown on the application site drawing or designer's site
 drawing.
- For subsurface disposal, soil evaluations must be performed to a depth of at least 2-ft. below the proposed excavation depth. For surface disposal, the surface horizon must be evaluated.
- Please describe each soil horizon and identify any restrictive features in the space provided below. Draw lines at the appropriate depths.

Soil Boring Number: 1

Depth (ft.)	Textural Class	Structure (For class III – blocky, platy or massive)	Drainage (Mottles, Water Table)	Restrictive Horizon	Observations
0 1 0-6" 2 3 4 5	III		None	6"	Class III type soil. No shallow mottling.

Soil Boring Number: 2

Depth (ft.)	Textural Class	Structure (For class III – blocky, platy or massive)	Drainage (Mottles, Water Table)	Restrictive Horizon	Observations
0	Ш		None	6"	Class III type soil. No shallow mottling.

Features of Site Area

Presence of 100 year flood zone	No
Presence of adjacent ponds, streams, water impoundment's	No
Existing or proposed water well in nearby area	Yes
Organized sewage available to lot or tract	No
Recharge features within 150 feet	No
_	

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



Date 9-29-22





Southwest Septic Design

On-Site Sewage Facility Application and Design

Prepared For:

Royce Courts 5800 FM 32 Fischer, Texas 78620

Design 101190222

Prepared By:

Stephen F. Jetton _

Registered Professional Sanitarian

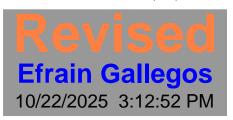
Revision 12/10/2022

10/4/2022 Revision 2/13/2023

Southwest Septic Design

2573 Deer Stand Loop San Marcos, Texas 78666 Hays County

Stephen.jetton@gmail.com Mobile (512) 757-1259



Design Report
On-Site Sewage facility
Aerobic Wastewater Treatment System
Utilizing Surface Spray Application

OWNER/SITE LOCATION:

Courts Residence 5800 FM 32 T.C. R.R. Co. Survey Section 945 ABS No. 832 – 20.59-acres Fischer, Texas

SITE DESCRIPTION & EVALUATION:

A site evaluation indicated that the site is suitable for an aerobic surface irrigation system. The spray area has a slope of less than 15 percent, and there was no evidence of shallow groundwater. This residence will utilize an above ground rain-water collection tank for their source of water. All portions of the proposed OSSF must maintain at least a 10' setback from all water lines. This property is not within the 100-Year Floodplain (see site plan). There are no recharge features within 150' of the proposed OSSF. Minimum separation distances as stated in §285 TCEQ On-Site Sewage Facilities, must be maintained.

WASTEWATER DESIGN FLOW:

This design is for a 3-bedroom, 3651 sq. ft., single-family residence utilizing low-flow fixtures. This design will be slightly oversized to accommodate a future addition. Therefore, the total daily wastewater flow will be *360 gallons per day*, as per Texas Commission of Environmental Quality (TCEQ) On Site Sewage Facilities, effective 12-29-2016.

AEROBIC TREATMENT SYSTEM DESCRIPTION:

This proposed development will utilize a Nuwater Aerobic Treatment Plant, Model B-550. A 353-gallon pretreatment/trash tank will precede the 600-gallon per day aerobic treatment tank. Effluent from the aeration tank will flow through a liquid chlorinator (EZ Tank Chlorinator) to a 768-gallon pump tank. The pump tank serves as a chlorine contact chamber and a storage tank prior to the treated/chlorinated effluent being discharged to sprinkler heads. The disposal area will consist of 4–30 ft. 180° radius patterns. The system is considered a "package system", and will be installed according to manufacturer's instructions.



Revision 10/22/2025

Alta.



Size of Residence		3651 sq. ft.
Number of Bedrooms		3
Average Expected Flow		360 GPD
Application Rate	0.064 Gal./ft²/Day	0.064
Minimum Application Area	(GPD)/(0.064 Gal./ft²/Day)	5625.00 ft ²
Actual Application Area	$3.14(r^2)$ x number of heads	5652.00 ft ²

System Components:

Trash Tank	353 gallon one-compartment
Aeration Tank	600 gallon per day
Pump Tank	768 gallon

Pump Tank:

Pump Tank gallons per inch: 14.49"

Operating Capacity: 14.49" x 13" = 188.37 operating gallons

Reserve Capacity: 53" usable depth (53 x 14.49 = 768.00) 768.00 - 347.76 = 420.24 reserve

gallons.

Pump off	8" Above tank floor	115.92 Gallons
Pump on	21" Above tank floor	304.29 Gallons
Alarm on	24" Above tank floor	347.76 Gallons

Combined capacity of pretreatment and aeration tank is 953-gallons. A 768-gallon, single-compartment pump tank allows for a one day's flow above the alarm-on level. This system will be designed to pump on demand.

Pump and Sprinkler Head Requirements:

Pump: Ashland Pump CPM Series – 20+CPM5-115 20GPM ½ H.P.

Sprinkler Head: K Rain Pro Plus with Purple Tops.

Nozzle #: **3** *LA* (Low angle trajectory, 11 degrees), operating at 35 psi, 30 ft. radius and 3.05 GPM flow per sprinkler

Dosing:

Application Flow Rate 3.05 gpm/head x 4 heads = 12.20 gpm

Application Time: 2 doses @ 180 gal/dose / 12.20 gpm = $\sim 15.0 \text{ min/dose}$

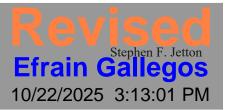
Head Requirements:

Elevation head: 6 (assumed elevation at top of pump 1120 and highest spray head at 1126)



Revision 10/22/2025

MH-a



Pressure head: $35 \text{ psi } \times 2.31 \text{ ft/psi} = 80.85 \text{ ft.}$

Friction head: 1" Sch. 40 PVC @ 12.20 gpm = 11.63 ft. (367 x 11.63/100 x 1.2) = 51.21

TDH = 6 ft. + 80.85 ft. + 51.21 = 138.06 (within pump curve).

An unthreaded sampling valve must also be provided. Under the Texas Administrative Code, §285 On-Site Sewage Facilities. This system is designed to dose on demand.

Alarm System:

An audio/visual high-water alarm will be installed on this system. NuWater control panel (SPI-BIO Model 50B138-AAV-PT). The alarm/light will be installed in a high visible location close to the pump tank.

Installation Notes:

- 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 Facility's set forth in the Texas Administrative Code, δ285 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 designer and regulatory authority at least 48 hours in advance to schedule required inspections to ensure that the system is installed in accordance with the approved plans and specifications.
- The installer may not alter these plans without the approval of the designer.
- Diversion berms will be place when needed to protect irrigation area from excessive runoff.
- All electrical installation must follow applicable electric codes.
- All outside electrical components must be placed in electrical conduit.
- It is the responsibility of the installer to maintain the minimum setback requirements as stated in §285 for On-Site Sewage Facilities.

Tank Notes:

- The bottom of the excavation for the tanks shall be level and free of large rocks and debris.
- All tanks are to be set level on a layer, with a minimum thickness of 4 inches, of sand, sandy loam, clay loam, or pea gravel.
- Tank excavations must be backfilled with soil or pea gravel that is free of rock larger than ½ inch in diameter. Class IV soils and gravel larger than ½ inch in diameter are not acceptable for use as backfill material. If the top of a septic tank extends above the ground surface, soil may be mounded over the tank to maintain slope to the drain field.
- Risers are required over all tank openings and must extend to the ground surface.
- Risers shall be permanently fastened to the tank lid.
- The riser lid shall screw down and have a lock or weigh 65lbs.
- A secondary plug, cap, netting, etc. shall be provided below the riser lid.



Revision 10/22/2025

MH a



10/22/2025 3:13:03:15! in the tank must be properly sealed to prevent the escape of wastewater, or to prevent the infiltration of water.

- Tanks must be filled with water for 24 hours to test for leaks and structural integrity.
- The tanks must be set low enough to have fall of at least 1/8" per foot from RV pad to tank.
- PVC pipe from house to tank must be at least Sch.40 or SDR 26.

Irrigation & Landscaping Notes:

- Irrigation lines shall be 1" Sch.40 PVC. Sleeve any pipe that crosses under any roads or driveways with Sch.40 PVC.
- Purple Pipe must be used for all irrigation lines.
- Supply lines must be buried at least 6" below finished grade.
- If irrigation area does not have established vegetation, a mixture of winter rye and Bermuda grasses will be seeded to establish seasonal vegetation.
- The installer shall notify property owner prior to removal of any trees that may obstruct the operation of the irrigation system.
- All exposed surface rock must be covered with at least 4" of suitable soil
- Vegetation must be established before system is in use.

Additional Notes:

- Install audio-visual alarm for aerator and pump on separate breakers.
- The high water and air compressor alarms shall be audio/visual and mounted in a place that can be easily seen and heard when the alarms are activated.
- A hose bib must be installed in pump tank at tank inspection port.
- The chlorinator must be constructed to allow a chlorine residual of 1.0 mg/1 in the pump tank for the period of time between scheduled inspections.
- The disinfected effluent must obey the standards as stated in §285, TCEQ, On-Site Sewage Facilities. Approved disinfections methods using chlorinated tablets, must use calcium hypochlorite that is properly labeled for wastewater disinfections.

Maintenance Requirements:

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

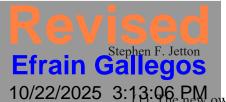
Affidavit:

- The applicant must file a certified copy of an affidavit at the County clerk's office and filed in reference to the real property deed on which the surface application system is the be installed.
- The affidavit will state that the property shall not be transferred to a new owner without:



Revision 10/22/2025

Atta.



• The new owner being advised that the property contains a surface application system for wastewater disposal;

- (2) The permit issued to the previous owner of the property being transferred to the new owner in accordance with §285.20(5) of the TCEQ 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 the ownership of the OSSF had been severed from the property.
- (3) The new owners submitting a valid maintenance contract to the permitting authority.

Operation and Management Notes:

- The OSSF should not be treated as a normal city sewer.
- Water conservation practices should be always used. Consult your local authorities for more information.
- Run the dishwasher with a full load whenever possible
- Avoid running water continuously when brushing teeth, washing hands, or cleaning food and utensils.
- Repair any water leaks immediately, such as running toilets or leaky faucets.
- The owner is responsible for cleaning and pumping the septic tank, typically every 2 to 3 years depending on system usage.
- Do not use the toilet to dispose of tissue, feminine hygiene products, trash, cigarettes, etc.
- It is recommended that you do not use the garbage disposal and/ or garbage grinders in the facility serviced by this system.
- Household chemicals should be used in moderation.
- According to §285, no water softener will be allowed to enter the OSSF.
- Chemical additives or the so-called enzymes should not be used during the operation of this system. Some of these additives may even be harmful to the facilities operation.
- Do not build driveways, storage buildings, decks, or other structures over the tank or disposal area.
- The OSSF must be protected from meeting vehicular traffic.
- A strong vegetative cover is essential for the proper operation of this system. The property owner is solely responsible for maintaining this vegetation. The irrigation area should be groomed by mowing on a regular basis.
- If you notice a problem with the spray patterns, or any of the alarms are activated, contact your maintenance provider immediately.
- Never place a greater wastewater load on your system than that prescribed by the design of the system (360 gallons per day).

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



Revision 10/22/2025

MH-

5800 FM 32 Fischer, Texas 78623

Revised
Efrain Gallegos
10/22/2025 3:15:55 PM

20.59 - Acres Comal County, Texas

T.C. R.R. CO. Survey Section 945 ABS No. 832

A1 - 3-Bedroom Single-Family Residence (3651 sq. ft.).

A2 - Outdoor Kitchen 2" Sch. 40 PVC Sink Drain.

B - Proposed NuWater Model B-550- 600 GPD ATU.

C - K Rain Pro Plus, 30' Radius Sprinkler Head #3 Nozzle - 35 PSI - 3.05 GPM per Sprinkler Head.

C/O - Two-Way Cleanout

Provide Two-Way Cleanout from House to Tank. 3" or 4" Sch. 40 between House and Tank. Must maintain a minimum of 1/8" per foot of fall between house and tank.

Supply Line: 1" Sch. 40 PVC Purple Pipe

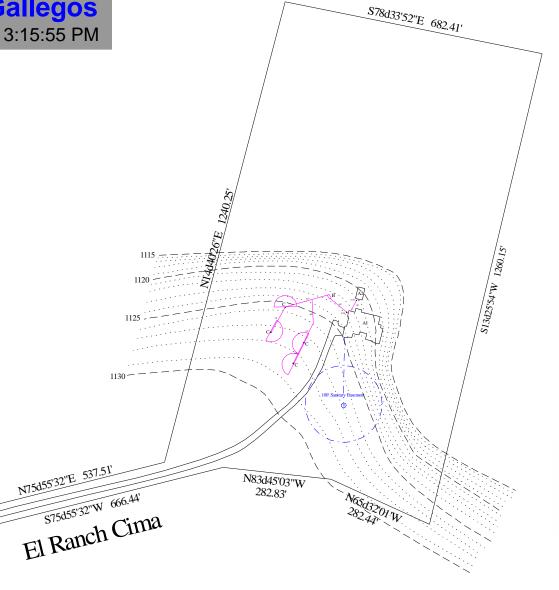
Maintain 10' from all Potable Water Lines. Maintain 20' from all Property Lines.

*Refer to Tank Detail and Design Notes for more Information.

*Plans may vary Slightly based on Conditions Encountered in the Field.

*Trim Trees as Neccessary in Application Area. Trees must maintain at least 10' from Sprinkler Head.

*All Separation and Setback Requirements as Stated in Chapter 285, TCEQ, On-Site Sewage Facilities, must be maintained.



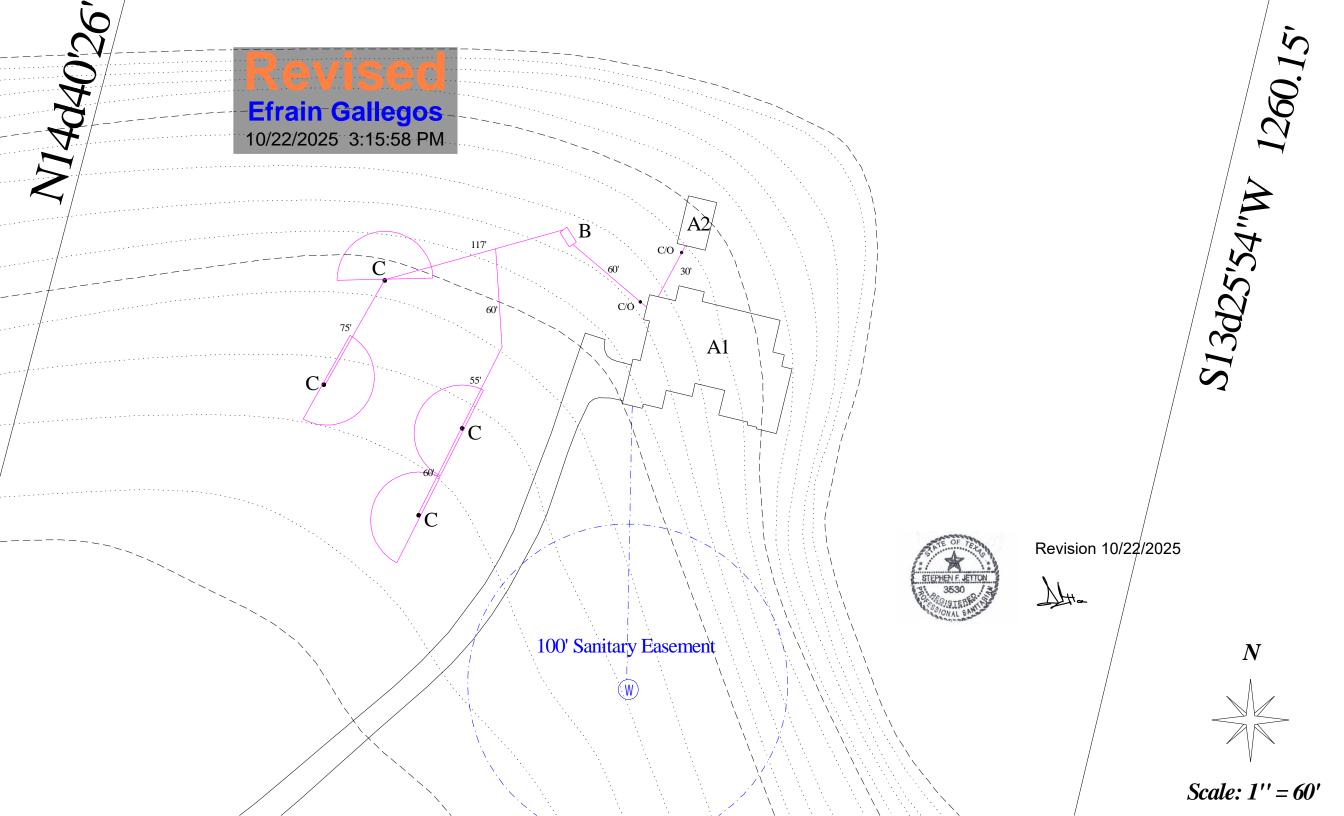
Revision 10/22/2025



Flood Plain Note: This property is not within the 100-Year Flood Plain according to Map Panel No. 48091C0110F Dated 9/2/2009.

*This is not intended to be used as an official survey. All structures and Contour locations are approximate.





Assembly Details

OSSF

REVISED

11:02 am, Feb 14, 2023

6: See design notes







See Note 9.

GENERAL NOTES:

- Plant structure material to be precast concrete and steel.
- Maximum burial depth is 30" from slab top to grade.
- Weight = 14,900 lbs.
- Treatment capacity is 600 GPD. Pump compartment set-up for a 360 GPD Flow Rate (4 beedroom, < 4,000 sq/ft living aera). Please specify for additional set-up requirements. BOD Loading = 1.62 lbs. per day.
- Standard tablet chlorinator or Optional Liquid chlorinator. NSF approved chlorinators (tablet & liquid) available.
- Bio-Robix B-550 Control Center w/ Timer for night spray application. Optional Micro Dose (min/sec)timer available for drip applications. Electrical Requirement to be 115 Volts, 60 Hz, Single Phase, 30 AMP, Grounded Receptacle.
- 20" Ø acess riser w/ lid (Typical 4). Optional extension risers available.
- 20 GPM 1/2 HP, high head effluent pump.
- HIBLOW Air Compressor w/ concrete housing.
- 10. 1/2" Sch. 40 PVC Air Line (Max. 50 Lft from Plant).
- 11. 1" Sch. 40 PVC pipe to distribution system provided by contractor.
- 12. 4" min. compacted sand or gravel pad by Contractor

DIMENSIONS:

Outside Height: 67" Outside Width: 63" Outside Length: 164"

MINIMUM EXCAVATION DIMENSIONS:

Width: 76" Length: 176"

See Note 9. See Note 5. See Note 10. See Note 7. See Note 11. Inlet Flow Line 53"" **59**" 560 Gal. 190 Gal. 353 Gal. Diffuser Bar See Note 8.

NuWater B-550 (600 GPD) Aerobic Treatment Plant (Assembled)

Model: B-550-PC-400PT

March, 2012 - Rev 1 By A.S.

* All Dimensions subject to allowable specification

Dwg. #: ADV-B550-3



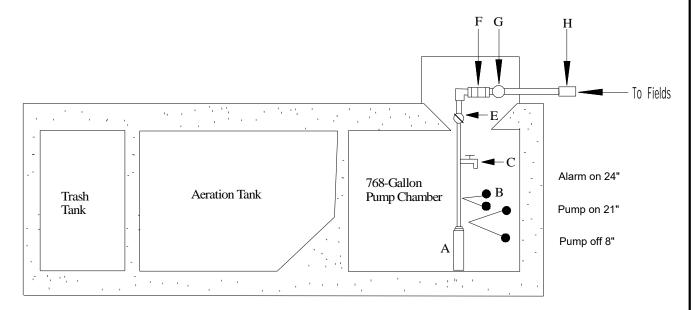
See Note 12.

Advantage Wastewater Solutions IIc. 444 A Old Hwy No 9 Comfort, TX 78013 830-995-3189 fax 830-995-4051

REVISED11:02 am, Feb 14, 2023

Typical Pump Tank Cross Section

- A -Ashland Pump CPM Series 20CPM5-115 20GPM 1/2HP.
- B Wide Angle Mercury Float Switch
- C Sampling Port
- E Pressure Regulator
- F Quick Disconnect Union
- G 40 PSI Pressure Guage
- H Check Valve





NuWater B-550 (600 GPD) Aerobic Treatment Plant

REVISED

11:02 am, Feb 14, 2023

PROPLUS GEAR DRIVEN SPRINKLER SETTING INSTRUCTIONS

SPRINKLER INSTALLATION

METALL AND BURY

Do not use pipe dope. Thread the sprinkler on the pipe. Bury the sprinkler flush to grade. NOTE: Gear driven sprinklers and pop-up sprays should not be installed on the same watering zone.

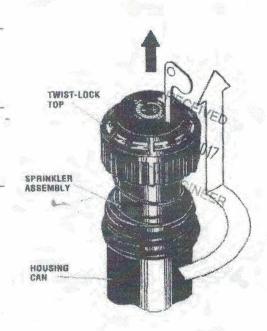
2 INSPECTING THE FILTER

Unscrew the top and lift the complete sprinkler assembly out of the housing can. The filter is located on the bottom of the sprinkler assembly and can easily be pulled out, cleaned and re-installed.

3 WINTERIZATION TIPS

When using an air compressor to remove water from the system please note the following:

- 1) Do not exceed 30 PSI.
- Always introduce air into the system gradually to avoid air pressure surges. Sudden release of compressed air into the sprinkler can cause damage.
- 3) Each zone should run no longer than 1 minute on air. Sprinklers turn 10 to 12 times faster on air than on water. Over spinning rotors on air can cause damage to the internal components.



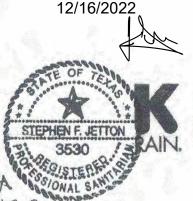
STANDARD NOZZLE PERFORMANCE

	0.3.					METRIC			
Nozzie	Pressure PSi	Radius	Flow GPM	Pres KPs	Sure Bars	Radius Meters	FIL L/M)W M ² /E	
#2.5 Factory Installed Nozzie	30 40 59 60	38' 39' 40' 41'	2.5 2.8 3.2 3.6	206 275 345 413	2.04 2.72 3.40 4.08	11.6 11.9 12.2 12.5	9.46 10.60 12.11 13.25	.57 .64 .73 .79	
₩0.5	30 40 50 80	28' 29' 29' 30'	Q.5 D.6 Q.7 Q.8	206 275 345 413	2.0 3.0 3.5 4.0	8.5 8.8 8.8 9.1	1.89 2.27 2.65 3.03	.11 .14 .16	
#0.75	30 40 50 80	29' 30' 31' 32'	0.7 0.8 0.9 1.0	206 275 345 413	2.0 3.0 3.5 4.0	8.8 9.1 9.4 9.8	2.65 3.03 3.41 3.79	.16 .18 .20 .23	
<i>8</i> 1	30 40 50 60	32' 33' 35'	1.3 1.6 1.6 1.8	206 275 345 413	2.0 3.0 3.5 4.0	9,8 10.1 10.4 10.7	4.92 5.68 6.05 6.81	.14 .18 .20 .23	
#2	30 40 50 60	37* 40* 42' 43'	2.4 2.5 3.0 3.3	206 275 345 413	2.0 3.0 3.5 4.0	11.3 12.2 12.8 13.1	9.08 9:46 11.35 12.49	.54 .56 .68	
10	30 40 50 80	38° 39° 41° 42°	3.6 4.2 4.6 5.0	206 275 345 413	2.0 3.0 3.5 4.0	11.8 11.9 12.5 12.8	13.63 15.89 17.41 18.92	.75 .95 1.04 1.13	
14	30 40 50 60	43' 44' 46' 49'	4.4 5.1 5.6 5.9	206 275 345 413	2.0 3.0 3.5 4.0	13.1 13.4 14.0 14.9	16.65 19.30 21.19 22.33	.98 1.18 1.27 1.33	
#6	40 50 60 70	45' 46' 48' 49'	5.9 6.0 6.3 6.7	206 275 345 413	3.0 3.5 4.0 5.0	13.7 14.0 14.5 14.9	22.33 22.71 23.85 25.35	1,33 1,36 1,43 1,52	
#8	40 50 60 70	42' 45' 49' 50'	8.0 8.5 9.5	206 275 345 413	3.0 3.5 4.0 5.0	12.8 13.7 14.8 15.3	30.28 92.12 35.95 37.85	1.81 1.92 2.15 2.27	

LOW ANGLE NOZZLE PERFORMANCE

	U	.S.				METRIC		
Nozzie	Pressure PSI	Radius R.	Flow GPM	Pro: KPa	Bars	Andiua Meters	LM	AFVH
11	30	22'	1.2	207	2.04	6.71	4.54	.34
	40	24'	1.7	275	2.72	7.32	5.43	.39
	50	26'	1.8	344	3.40	7.92	6.80	.41
	60	28'	2.0	413	4.08	8.53	7.56	.46
B	30	29'	3.0	207	2.04	8.84	11.34	.68
	40	32'	3.1	275	2.72	9.75	11.72	.71
	58	35'	3.5	344	3.40	10.67	13.23	.80
	60	37'	3.8	413	4.08	11.58	14.36	.87
*4	30	31'	3.4	207	2.04	9.45	12.85	.78
	40	34'	3.9	278	2.72	10.36	14.74	.89
	50	37'	4.4	344	3.40	11.28	16.63	1.00
	60	38'	4.7	413	4.08	11.58	17.77	1.07
#6	40	38'	8.5	275	2.72	11.58	24.57	1.68
	50	40'	7.3	344	3.40	12.19	27.59	1.76
	60	42'	8.0	413	4.08	12.80	30.24	1.82
	70	44'	8.6	482	4.76	13.41	32.51	1.96

Data represents test results in zero wind for ProPlus. Adjust for local conditions. Radius may be reduced with nozzle retention screw.



K-RAIN MANUFACTURING CORP.

1640 Australian Avenue Riviera Beach, FL 33404 USA PH: 1-561-844-1002 / 1-800-735-7246 FAX: 1-561-842-9493

WEB: http://www.krain.com

© K-RAIN Manufacturing Corp. L-58921

CISTERN PUMPS CPM Series

REVISED11:02 am, Feb 14, 2023

Ashland Pump – CPM Series

The Ashland Pump CPM Series is designed to operate in filtered effluent/gray water applications. The bottom suction design allows for maximum drawdown of fluid and the hydraulic stages are able to pass 1/8" solids without damage to the pump.

Installations in cistern tanks, rain basin catchments or anywhere drawdown levels need to be maximized are ideal applications for the Ashland Pump CPM Series.

APPLICATIONS

- Filtered Effluent Water Pumping
- Gray Water Pumping
- Water Feature / Aeration Applications
- Rain Water Basin Applications

FEATURES

- Bottom suction design for maximum drawdown
- Able to pass 1/8" solids
- Available in 10, 20 and 30 GPM flow rates
- ½ HP, 115V and 230V single phase motors
- Heavy duty discharge with stainless steel internal threads
- 600 Volt, 10' SJ00W jacketed lead
- High shut-off pressure
- Quiet operation
- Standard removable base for stable mounting

12/16/2022



ORDERING INFORMATION

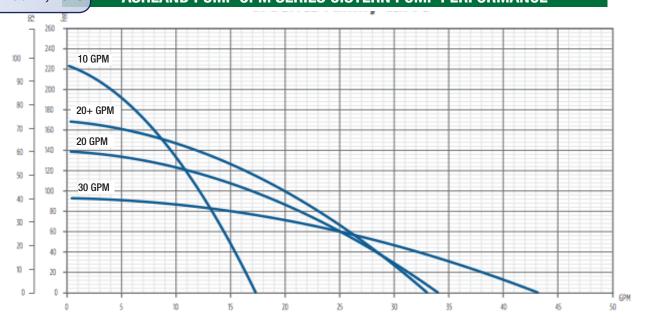
CPM SERIES CISTERN PUMP								
GPM	HP	Voltage/Ph.	Stage Count	Length (in.)	Shipping Wt. (lbs.)			
10		115/1	7	26	17			
10		230/1	7	26	17			
20		115/1	5	25	16			
20	1/2	230/1	5	25	16			
20+	''-	115/1	6	26	17			
20+		230/1	6	26	17			
30		115/1	4	25	16			
30		230/1	4	25	16			
	10 10 20 20 20+ 20+ 30	GPM HP 10 10 20 20 20+ 20+ 30	GPM HP Voltage/Ph. 10 10 20 20 1/2 20+ 20+ 20+ 20+ 200+ 30 1/2 115/1 230/1 115/1	GPM HP Voltage/Ph. Stage Count 10 115/1 7 10 230/1 7 115/1 5 20+ 1/2 230/1 5 115/1 6 230/1 6 20+ 230/1 6 115/1 4	GPM HP Voltage/Ph. Stage Count Length (in.) 10 115/1 7 26 10 230/1 7 26 20 115/1 5 25 20+ 230/1 5 25 115/1 6 26 20+ 230/1 6 26 30 115/1 4 25			



REVISED

11:02 am, Feb 14, 2023

ASHLAND PUMP CPM SERIES CISTERN PUMP PERFORMANCE



12/16/2022







P U M P

Honest, Professional, Dependable

1899 Cottage Street, Ashland, Ohio 44805 Telephone: 855 281-6830 • Fax: 877 326-1994 • ashlandpump.com **REVISED**11:02 am, Feb 14, 2023

"EZ-Tank" GRAVITY FLOW Liquid Bleach Chlorinator

US Patent Pending

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LBC Manufacturing

P.O. Box 454 • Fayetteville, TEXAS 78940 (979) 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

1

12/16/2022



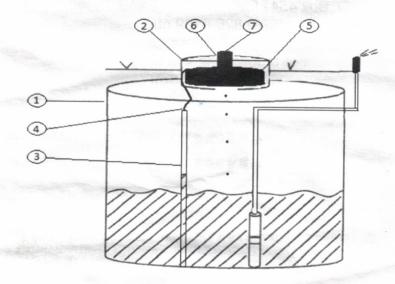
REVISED

11:02 am, Feb 14, 2023

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 riser. (EZ-Tank reservoir rests on the secondary safety lid inside the holding tank access riser. If the holding tank access riser does not have a secondary safety lid, replace with new access riser 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 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.)

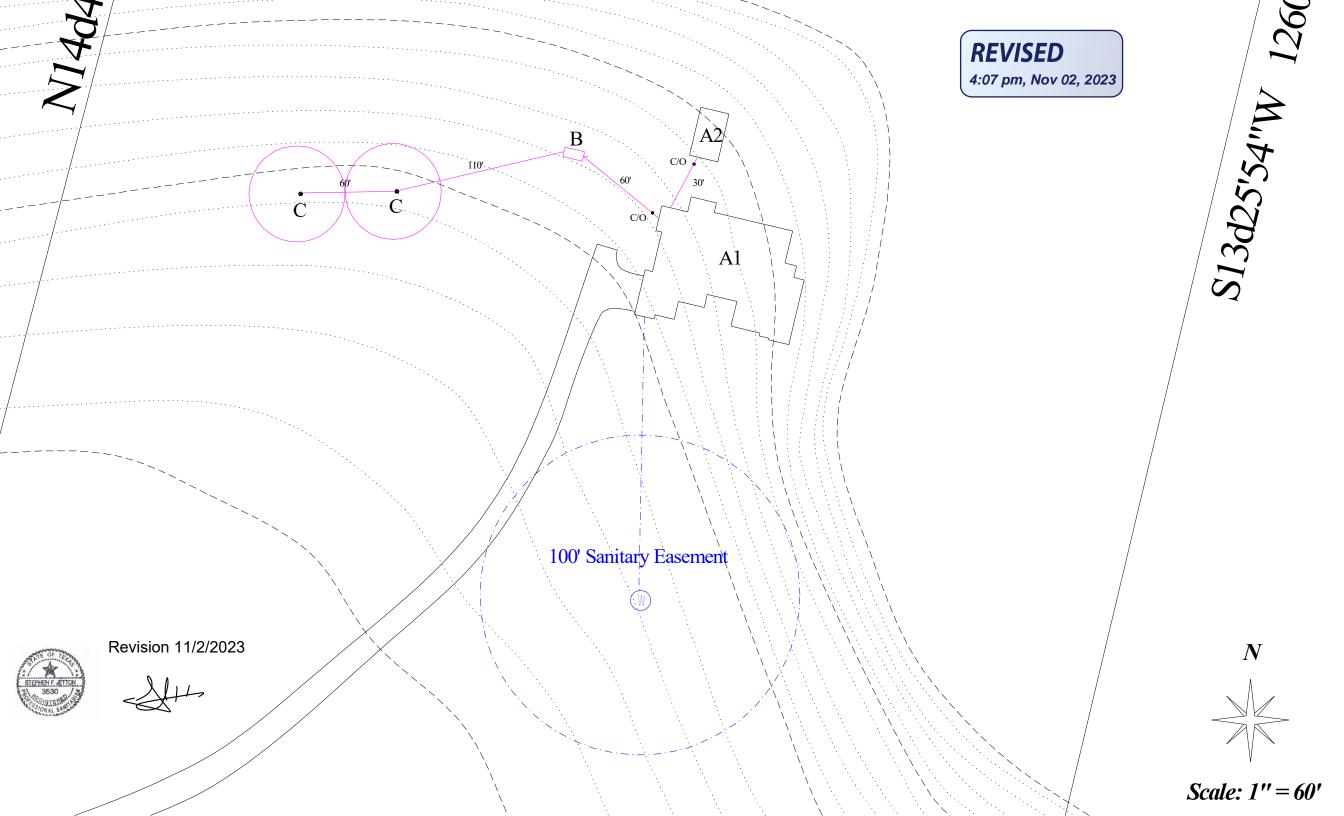


2

12/16/2022







5800 FM 32 Fischer, Texas 78623

A1 - 3-Bedroom Single-Family Residence (3651 sq. ft.).

A2 - Outdoor Kitchen 2" Sch. 40 PVC Sink Drain.

B - Proposed NuWater Model B-550- 600 GPD ATU.

C - K Rain Pro Plus, 30' Radius Sprinkler Head #3 Nozzle - 35 PSI - 3.05 GPM per Sprinkler Head.

C/O - Two-Way Cleanout

Provide Two-Way Cleanout from House to Tank. 3" or 4" Sch. 40 between House and Tank. Must maintain a minimum of 1/8" per foot of fall between house and tank.

Supply Line: 1" Sch. 40 PVC Purple Pipe

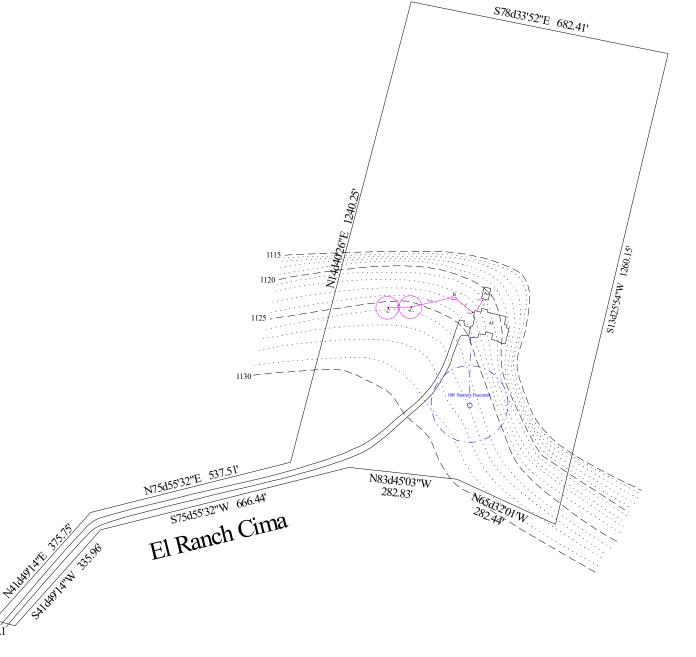
Maintain 10' from all Potable Water Lines. Maintain 20' from all Property Lines.

*Refer to Tank Detail and Design Notes for more Information.

*Plans may vary Slightly based on Conditions Encountered in the Field.

*Trim Trees as Neccessary in Application Area. Trees must maintain at least 10' from Sprinkler Head.

*All Separation and Setback Requirements as Stated in Chapter 285, TCEQ, On-Site Sewage Facilities, must be maintained.



T.C. R.R. CO. Survey Section 945 ABS No. 832 20.59 - Acres Comal County, Texas

REVISED

4:07 pm, Nov 02, 2023



Revision 11/2/2023



Flood Plain Note: This property is not within the 100-Year Flood Plain according to Map Panel No. 48091C0110F Dated 9/2/2009.



Scale: 1" = 300'

*This is not intended to be used as an official survey. All structures and Contour locations are approximate.

5800 FM 32 Fischer, Texas 78623

REVISED 11:02 am, Feb 14, 2023 T.C. R.R. CO. Survey Section 945 ABS No. 832 20.59 - Acres Comal County, Texas

C.D. Robertson Survey No. 999 ABS 982; T.C.R.R. Co. Survey Section No. 946 ABS 936

A1 - 3-Bedroom Single-Family Residence (3651 sq. ft.).

A2 - Outdoor Kitchen 2" Sch. 40 PVC Sink Drain.

B - Proposed NuWater Model B-550- 600 GPD ATU.

C - K Rain Pro Plus, 30' Radius Sprinkler Head #3 Nozzle - 35 PSI - 3.05 GPM per Sprinkler Head.

X - Profile Hole C/O - Two-Way Cleanout

Provide Two-Way Cleanout from House to Tank. 3" or 4" Sch. 40 between House and Tank. Must maintain a minimum of 1/8" per foot of fall between house and tank.

Supply Line: 1" Sch. 40 PVC Purple Pipe

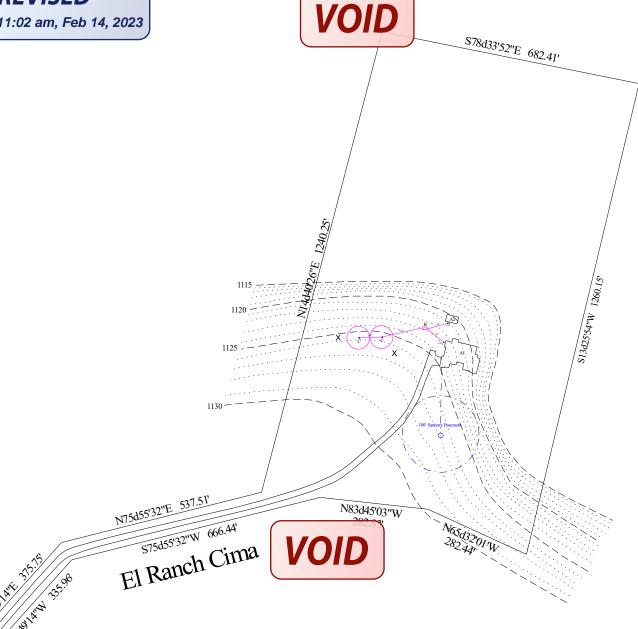
Maintain 10' from all Potable Water Lines. Maintain 20' from all Property Lines.

*Refer to Tank Detail and Design Notes for more Information.

*Plans may vary Slightly based on Conditions Encountered in the Field.

*Trim Trees as Neccessary in Application Area. Trees must maintain at least 10' from Sprinkler Head.

*All Separation and Setback Requirements as Stated in Chapter 285, TCEQ, On-Site Sewage Facilities, must be maintained.



12/16/2022



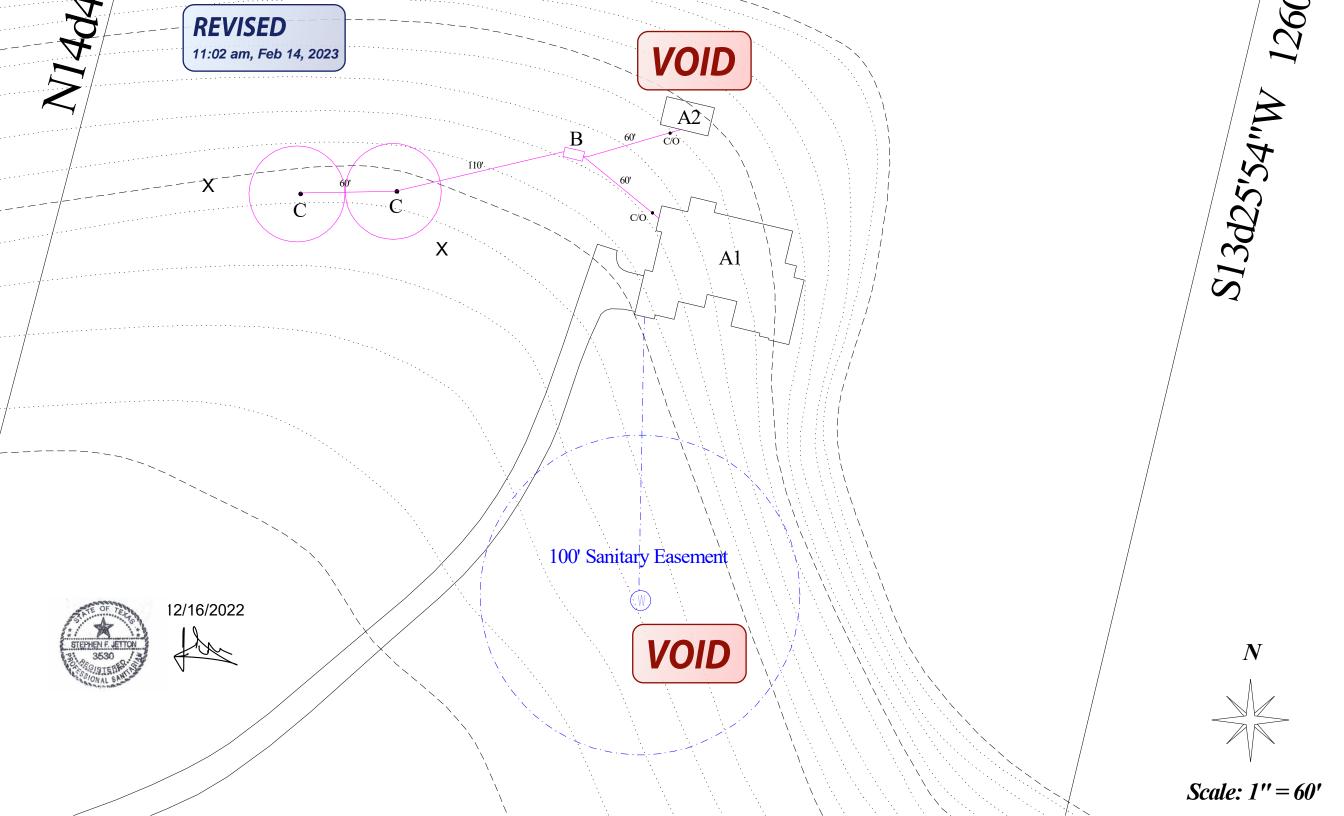
Flood Plain Note: This property is not within the 100-Year Flood Plain according to Map Panel No. 48091C0110F Dated 9/2/2009.



Scale: 1" = 300'

600'

*This is not intended to be used as an official survey. All structures and Contour locations are approximate.





Signature of Owner

ON-SITE SEWAGE FACILITY APPLICATION

REVISED2:33 pm. Dec 16, 2022

			2.33 piii, D	ec 10, 2022
Date VOII	nalgmo0 ba	Permit Nu	mber	alsheitaM con.
1. APPLICANT / AGENT INFORMATION				resident en anno
Owner Name Royce Courts & Donna Courts	Agent Name	Stephen Jette	on	
Mailing Address POBOX3108	Agent Address	2573 Deer Star	nd Loop	
City, State, Zip WIMBELLEY TX 78676	City, State, Zip	San Marcos TX		n Se cen (Galle
Phone # 512-560-6188	Phone #	512-757-1259		
Email PACIFIC @SBCG/OBAL, NET	Email	stephen.jetton@	gmail.com	
2. LOCATION			Sp 0000 hadi se	
Subdivision Name RANCHES AT SENTINEL PEAK	U	nit	Lot 9	Block
Survey Name / Abstract Number			Acreage	
	City Fischer		State TX	Zip 78623
3. TYPE OF DEVELOPMENT	· The widows ex	A PART OF	er gga DFOT	pnikika as mer
Single Family Residential				
Type of Construction (House, Mobile, RV, Etc.)	E			
Number of Bedrooms 3	AND STREET STREET	occion one a		
Indicate Sq Ft of Living Area 365/vd bevolus				
Non-Single Family Residential				
Planning materials must show adequate land area for doubling the	e required land need	led for treatme	nt units and disp	osal area)
Type of Facility				
Offices, Factories, Churches, Schools, Parks, Etc Indicate	Number Of Occu	pants		
Restaurants, Lounges, Theaters - Indicate Number of Seats		I desi o digital	. U. sinan cerany c	71 10), 1 #71 .e e :
Hotel, Motel, Hospital, Nursing Home - Indicate Number of E	3eds in amq cleveb	the proposed	ng OZP, does	tere is no oxisti
Travel Trailer/RV Parks - Indicate Number of Spaces				- 1 - 1 - 1 - 1 - 2 - 2 - 3
Miscellaneous ()	en approved by me	50 EBN 42.7 9N	I HARL TO LEAD	77 (73)
	- New York	The State of		list when you
Estimated Cost of Construction: \$ 1,500,000 (S	tructure Only)			
Is any portion of the proposed OSSF located in the United State	s Army Corps of E	Engineers (US	SACE) flowage	easement?
Yes No (If yes, owner must provide approval from USACE for p				
Source of Water Public X Private Well				,
4. SIGNATURE OF OWNER				
By signing this application, I certify that: The completed application and all additional information submitted does facts. I certify that I am the property owner or I possess the appropriate I property.	not contain any false and rights necessar	e information a y to make the p	nd does not concermitted improv	ceal any material ements on said
Authorization is hereby given to the permitting authority and designated a site/soil evaluation and inspection of private sewage facilities. I understand that a permit of authorization to construct will not be issued by the Comal County Flood Damage Prevention Order.	until the Floodplain	Administrator h	nas performed th	e reviews require
I affirmatively consent to the online posting/public release of my e-mail ac	ddress associated w	rith this permit a	application, as a	pplicable.

10-4-2022

Date



202206044927 10/14/2022 01:04:22 PM 1/1

THE COUNTY OF COMAL STATE OF TEXAS

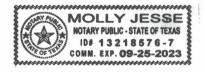


CERTIFICATION OF OSSF REQUIRING MAINTENANCE

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

The Texas Health and Safety Code, Chapter 366 authorizes the Texas Commission on Environmental Quality (commission) to regulate on-site sewage facilities (OSSFs). Additionally, the Texas Water Code (TWC), § 5.012 and § 5.013, gives the commission primary responsibility for implementing the laws of the State of Texas relating to water and adopting rules necessary to carry out its powers and duties under the TWC. The commission, under the authority of the TWC and the Texas Health and Safety code, requires owner's to provide notice to the public that certain types of OSSFs are located on specific pleces 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.

	L079	RANCHES	AT	SENTIN	ELPE	AK
The prop	perty is owned by (Inse	ort owner's full name):	Royc	e AND	DONNA	Court
the initial	l two-year service polic e shall either obtain a	a continuous maintena y, the owner of an aero maintenance contract w	bic treatmen	it system for a	single family	or .
transferre	ed to the buyer or new	ove-described property, owner. A copy of the p by Engineer's Office.	lanning mat	erials for the (OSSF can be	
WITNES	S BY HAND(S) ON TH	y Engineer's Office.	EPTEME	BER , 20	22	
	71					
Owner(s)	signature(s)		14			
SWORN	TO AND SUBSCRIBE	D BEFORE ME ON TH	11s 20th	MAY OF		
	A A I A.	(1)				



Notary Public, State of Texa

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
10/14/2022 01:04:22 PM
TAMMY 1 Page(s)
202206044927

Bobbie Koepp

From: Ritzen, Brenda "Stephen Jetton" To: Subject: RE: Permit 115449

Date: Wednesday, January 18, 2023 8:38:00 AM

Attachments: image001.png

Stephen,

Yes the plat has been completed, but they only platted the roads. Therefore, the permit application and all planing materials need to be revised to reflect the amount of acreage, survey and abstract information as the legal description.

Thank you,



Brenda Ritzen

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

From: Stephen Jetton <stephen.jetton@gmail.com>

Sent: Tuesday, January 17, 2023 3:37 PM To: Ritzen, Brenda <rabbjr@co.comal.tx.us>

Subject: Re: Permit 115449

This email originated from outside of the organization.

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

- Comal IT

Hi Brenda,

Can I get a permit update on this one please?

Thanks,

Stephen

On Fri, Dec 16, 2022 at 2:54 PM Ritzen, Brenda < rabbjr@co.comal.tx.us > wrote:

From: <u>Hernandez, Sandra</u>

To: "Pacllc@sbcglobal.net"; "stephen.jetton@gmail.com"

Cc: <u>Ritzen, Brenda</u>; <u>Olvera, Brandon</u>

Subject: FW: Permit 115449

Date: Tuesday, November 15, 2022 12:15:00 PM

Attachments: <u>image001.png</u>

RE: 580 FM 32 (Ranches at Sentinel Peak, Lot 9)

Dear property owner,

The referenced property is currently not compliant with the subdivision rules and regulations. We do have a plat in our office that is currently in review, however, our office will not be able to issue permits to this tract until the final plat is approved.

If you have any questions, you can email me or call the office.

Thank you,



Sandra Ann Hernandez

Subdivision Coordinator

Comal County Engineer's Office 195 David Jonas Drive | 830-608-2090 | www.cceo.org From: <u>Ritzen, Brenda</u>

To: "pacllc@sbcglobal.net"; "Stephen Jetton"

Subject: Permit 115449

Date: Tuesday, November 15, 2022 4:16:00 PM

Attachments: <u>image001.png</u>

Re: Donna Courts & Royce Courts

Ranches at Sentinel Peak Lot 9

Application for Permit for Authorization to Construct an On-Site Sewage Facility (OSSF)

Owner / Agent :

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

- The owner name on the permit application must match the owner name on the deed. Please add Donna Courts to the permit application.
- Show test hole locations on design.
- Identify the height of the pump tank settings on the tank detail.
- Designer signature needed on all planning materials.
- 5. Be advised that the subdivision plat must be approved in Commissioners Court before the Permit to Construct can be issued.
- 6. Revise as needed and resubmit.

Thank you,



Brenda Ritzen

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

OSSF SOIL EVALUATION FORM

Owner's Name: Courts Residence

Physical Address: 5800 FM 32

No. 832 - 20.59-acres Legal Description: T.C. R.R. Co. Survey

Date Performed: 9-29-2022

Requirements:

At least two soil evaluations must be performed on the site, at opposite ends of the proposed disposal area. Locations of soil evaluations must be shown on the application site drawing or designer's site drawing.

For subsurface disposal, soil evaluations must be performed to a depth of at least 2-ft. below the proposed excavation depth. For surface disposal, the surface horizon must be evaluated.

Please describe each soil horizon and identify any restrictive features in the space provided below. Draw lines at the appropriate depths.

Soil Boring Number: 1

Depth (ft.)	Textural Class	Structure (For class III – blocky, platy or massive)	Drainage (Mottles, Water Table)	Restrictive Horizon	Observations
0 1 — 0-6" 2 — 3 4 — 5 —	III		None	6"	Class III type soil. No shallow mottling.

Soil Boring Number: 2

Depth (ft.)	Textural Class	Structure (For class III – blocky, platy or massive)	Drainage (Mottles, Water Table)	Restrictive Horizon	Observations
0 0-6"	III		None	6"	Class III type soil. No shallow mottling.
4					
5					

reatures of Site Area	
Presence of 100 year flood zone	No
Presence of adjacent ponds, streams, water impoundment's	No
Existing or proposed water well in nearby area	Yes
Organized sewage available to lot or tract	No
Recharge features within 150 feet	No

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

Date 9-29-22 Signature of Site evaluator_







Southwest Septic Design

On-Site Sewage Facility Application and Design

Prepared For:

Royce Courts 5800 FM 32 Fischer, Texas 78620

Design 101190222

Prepared By:

Stephen F. Jetton ______ Registered Professional Sanitarian

Revision 12/16/2022

10/4/2022





Southwest Septic Design



2573 Deer Stand Loop San Marcos, Texas 78666 Hays County

Stephen.jetton@gmail.com Mobile (512) 757-1259

Design Report
On-Site Sewage facility
Aerobic Wastewater Treatment System
Utilizing Surface Spray Application

OWNER/SITE LOCATION:

Courts Residence 5800 FM 32 T.C. R.R. Co. Survey Section 945 ABS No. 832 – 20.59-acres Fischer, Texas

SITE DESCRIPTION & EVALUATION:

A site evaluation indicated that the site is suitable for an aerobic surface irrigation system. The spray area has a slope of less than 15 percent, and there was no evidence of shallow groundwater. This residence will utilize an above ground rain-water collection tank for their source of water. All portions of the proposed OSSF must maintain at least a 10' setback from all water lines. This property is not within the 100-Year Floodplain (see site plan). There are no recharge features within 150' of the proposed OSSF. Minimum separation distances as stated in §285 TCEQ On-Site Sewage Facilities, must be maintained.

WASTEWATER DESIGN FLOW:

This design is for a 3-bedroom, 3651 sq. ft., single-family residence utilizing low-flow fixtures. This design will be slightly oversized to accommodate a future addition. Therefore, the total daily wastewater flow will be *360 gallons per day*, as per Texas Commission of Environmental Quality (TCEQ) On Site Sewage Facilities, effective 12-29-2016.

AEROBIC TREATMENT SYSTEM DESCRIPTION:

This proposed development will utilize a Nuwater Aerobic Treatment Plant, Model B-550. A 353-gallon pretreatment/trash tank will precede the 600-gallon per day aerobic treatment tank. Effluent from the aeration tank will flow through a liquid chlorinator (EZ Tank Chlorinator) to a 768-gallon pump tank. The pump tank serves as a chlorine contact chamber and a storage tank prior to the treated/chlorinated effluent being discharged to sprinkler heads. The disposal area will consist of 2–30 ft. 360° radius patterns. The system is considered a "package system", and will be installed according to manufacturer's instructions.







Design Specification:

Size of Residence	VOID	3651 sq. ft.
Number of Bedrooms	VOID	3
Average Expected Flow		360 GPD
Application Rate	0.064 Gal./ft²/Day	0.064
Minimum Application Area	(GPD)/(0.064 Gal./ft²/Day)	5625.00 ft ²
Actual Application Area	3.14(r²) x number of heads	5652.00 ft ²

System Components:

Trash Tank	353 gallon one-compartment
Aeration Tank	600 gallon per day
Pump Tank	768 gallon

Pump Tank:

Pump Tank gallons per inch: 14.49"

Operating Capacity: 14.49" x 13" = 188.37 operating gallons

Reserve Capacity: 53" usable depth (53 x 14.49 = 768.00) 768.00 - 347.76 = 420.24 reserve

gallons.

Pump off	8" Above tank floor	115.92 Gallons
Pump on	21" Above tank floor	304.29 Gallons
Alarm on	24" Above tank floor	347.76 Gallons

Combined capacity of pretreatment and aeration tank is 953-gallons. A 768-gallon, single-compartment pump tank allows for a one day's flow above the alarm-on level. This system will be designed to pump on demand.

Pump and Sprinkler Head Requirements:

Pump: Ashland Pump CPM Series – 20CPM5-115 20GPM ½ H.P.

Sprinkler Head: K Rain Pro Plus with Purple Tops.

Nozzle #: **3** *LA* (Low angle trajectory, 11 degrees), operating at 35 psi, 30 ft. radius and 3.05 GPM flow per sprinkler

Dosing:

Application Flow Rate 3.05 gpm/head x 2 heads = 6.1 gpm

Application Time: 2 doses @ 180 gal/dose / 6.1 gpm = $\sim 29.51 \, min/dose$

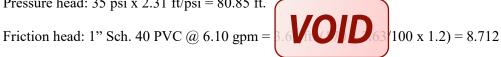
Head Requirements:

Elevation head: 6 (assumed elevation at top of pump 1120 and highest spray head at 1126)





Pressure head: 35 psi x 2.31 ft/psi = 80.85 ft.



TDH = 6 ft. + 80.85 ft. + 7.41 = 94.26 (within pump curve).

An unthreaded sampling valve must also be provided. Under the Texas Administrative Code, §285 On-Site Sewage Facilities. This system is designed to dose on demand.

Alarm System:

An audio/visual high-water alarm will be installed on this system. NuWater control panel (SPI-BIO Model 50B138-AAV-PT). The alarm/light will be installed in a high visible location close to the pump tank.

Installation Notes:

- 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 Facility's set forth in the Texas Administrative Code, δ285 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 designer and regulatory authority at least 48 hours in advance to schedule required inspections to ensure that the system is installed in accordance with the approved plans and specifications.
- The installer may not alter these plans without the approval of the designer.
- Diversion berms will be place when needed to protect irrigation area from excessive runoff.
- All electrical installation must be in compliance with applicable electric codes.
- All outside electrical components must be placed in electrical conduit.
- It is the responsibility of the installer to maintain the minimum setback requirements as stated in §285 for On-Site Sewage Facilities.

Tank Notes:

- The bottom of the excavation for the tanks shall be level and free of large rocks and debris.
- All tanks are to be set level on a layer, with a minimum thickness of 4 inches, of sand, sandy loam, clay loam, or pea gravel.
- Tank excavations must be backfilled with soil or pea gravel that is free of rock larger than ½ inch in diameter. Class IV soils and gravel larger than ½ inch in diameter are not acceptable for use as backfill material. If the top of a septic tank extends above the ground surface, soil may be mounded over the tank to maintain slope to the drain field.
- Risers are required over all tank openings and must extend to the ground surface.
- Risers shall be permanently fastened to the tank lid.
- The riser lid shall screw down and have a lock or weigh 65lbs.
- A secondary plug, cap, netting, etc. shall be provided below the riser lid.







- All openings in the tank must be properly sealed to prevent the escape of wastewater, or to prevent the infiltration of water.
- Tanks must be filled with water for 24
- The tanks must be set low enough to h
- PVC pipe from RV pad to tank must b



ks and structural integrity.

/8" per foot from RV pad to tank.

SDR 26.

Irrigation & Landscaping Notes:

- Irrigation lines shall be 1" Sch.40 PVC. Sleeve any pipe that crosses under any roads or driveways with Sch.40 PVC.
- Purple Pipe must be used for all irrigation lines.
- Supply lines must be buried at least 6" below finished grade.
- If irrigation area does not have established vegetation, a mixture of winter rye and Bermuda grasses will be seeded to establish seasonal vegetation.
- The installer shall notify property owner prior to removal of any trees that may obstruct the operation of the irrigation system.
- All exposed surface rock must be covered with at least 4" of suitable soil
- Vegetation must be established before system is in use.

Additional Notes:

- Install audio-visual alarm for aerator and pump on separate breakers.
- The high water and air compressor alarms shall be audio/visual and mounted in a place that can be easily seen and heard when the alarms are activated.
- A hose bib must be installed in pump tank at tank inspection port.
- The chlorinator must be constructed to allow a chlorine residual of 1.0 mg/1 in the pump tank for the period of time between scheduled inspections.
- The disinfected effluent must obey the standards as stated in §285, TCEQ, On-Site Sewage Facilities. Approved disinfections methods using chlorinated tablets, must use calcium hypochlorite that is properly labeled for wastewater disinfections.

Maintenance Requirements:

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

Affidavit:

- The applicant must file a certified copy of an affidavit at the County clerk's office and filed in reference to the real property deed on which the surface application system is the be installed.
- The affidavit will state that the property shall not be transferred to a new owner without:



- (1) The new owner being advised that the property contains a surface application system for wastewater disposal;
- (2) The permit issued to the previous owner of the property being transferred to the new owner in accordance with §285.20 SSF Rules, i.e.; the permit will be issued in the name of the owner of the owner of the owner automatically upon legal satisfactory of the OSSF. The transfer of an OSSF permit under this section shall occur upon actual transfer of the property on which the OSSF is located unless the ownership of the OSSF had been severed from the property.
- (3) The new owners submitting a valid maintenance contract to the permitting authority.

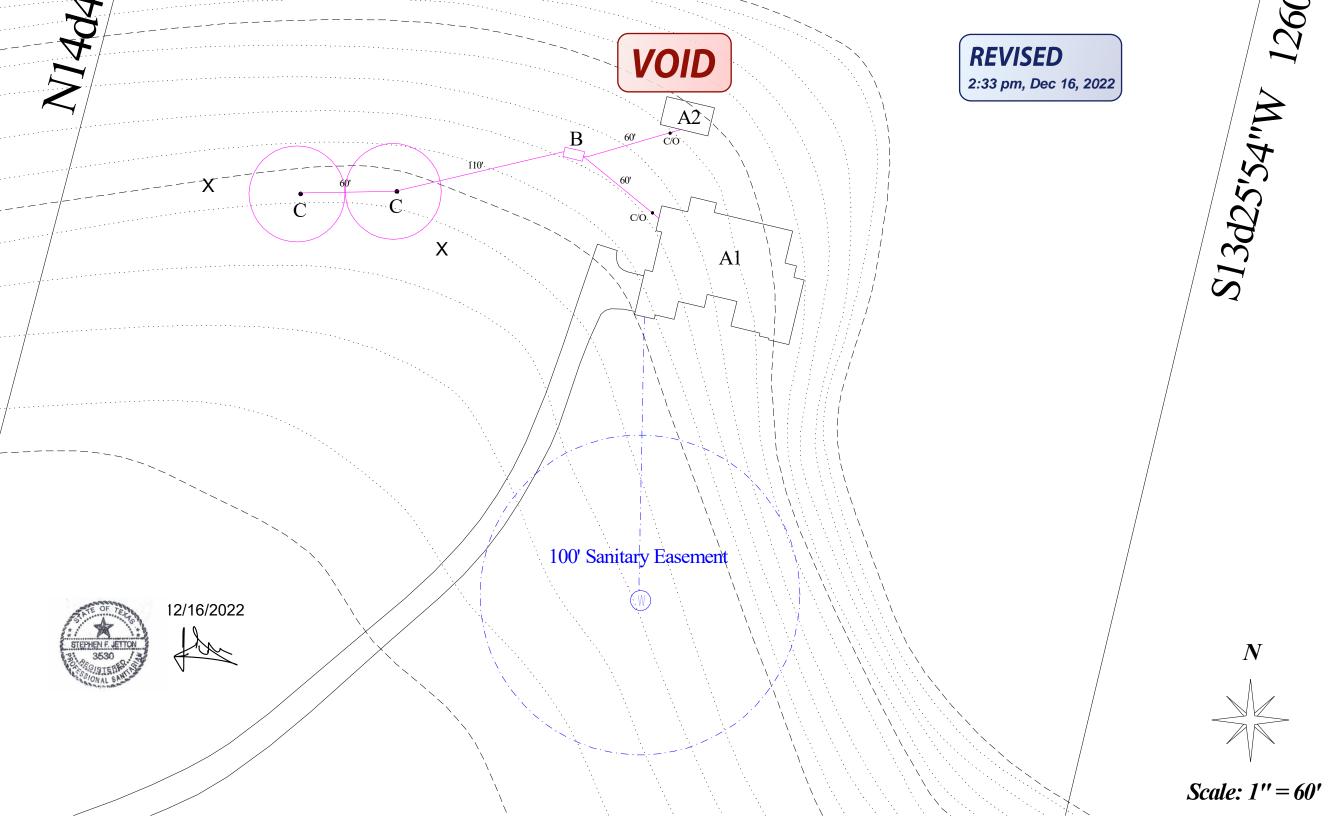
Operation and Management Notes:

- The OSSF should not be treated as a normal city sewer.
- Water conservation practices should be used at all times. Consult your local authorities for more information.
- Run the dishwasher with a full load whenever possible
- Avoid running water continuously when brushing teeth, washing hands, or cleaning food and utensils.
- Repair any water leaks immediately, such as running toilets or leaky faucets.
- The owner is responsible for cleaning and pumping the septic tank, typically every 2 to 3 years depending on system usage.
- Do not use the toilet to dispose of tissue, feminine hygiene products, trash, cigarettes, etc.
- It is recommended that you do not use the garbage disposal and/ or garbage grinders in the facility serviced by this system.
- Household chemicals should be used in moderation.
- According to §285, no water softener will be allowed to enter the OSSF.
- Chemical additives or the so-called enzymes should not be used during the operation of this system. Some of these additives may even be harmful to the facilities operation.
- Do not build driveways, storage buildings, decks, or other structures over the tank or disposal area.
- The OSSF must be protected from coming in contact with vehicular traffic.
- A strong vegetative cover is essential for the proper operation of this system. The property owner is solely responsible for maintaining this vegetation. The irrigation area should be groomed by mowing on a regular basis.
- If you notice a problem with the spray patterns, or any of the alarms are activated, contact your maintenance provider immediately.
- Never place a greater wastewater load on your system than that prescribed by the design of the system (360 gallons per day).

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







5800 FM 32 Fischer, Texas 78623

A1 - 3-Bedroom Single-Family Residence (3651 sq. ft.).

A2 - Outdoor Kitchen 2" Sch. 40 PVC Sink Drain.

B - Proposed NuWater Model B-550- 600 GPD ATU.

C - K Rain Pro Plus, 30' Radius Sprinkler Head #3 Nozzle - 35 PSI - 3.05 GPM per Sprinkler Head.

C/O - Two-Way Cleanout X - Profile Hole

Provide Two-Way Cleanout from House to Tank. 3" or 4" Sch. 40 between House and Tank. Must maintain a minimum of 1/8" per foot of fall between house and tank.

Supply Line: 1" Sch. 40 PVC Purple Pipe

Maintain 10' from all Potable Water Lines. Maintain 20' from all Property Lines.

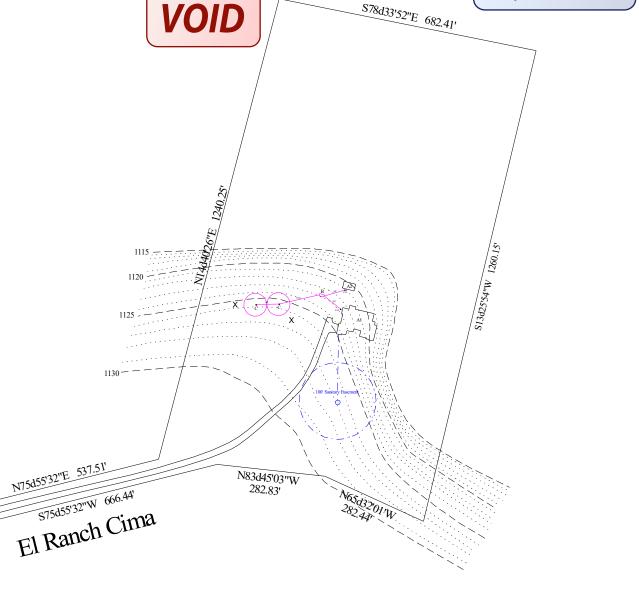
*Refer to Tank Detail and Design Notes for more Information.

*Plans may vary Slightly based on Conditions Encountered in the Field.

*Trim Trees as Neccessary in Application Area. Trees must maintain at least 10' from Sprinkler Head.

*All Separation and Setback Requirements as Stated in Chapter 285, TCEQ, On-Site Sewage Facilities, must be maintained. **REVISED**2:33 pm, Dec 16, 2022

T.C. R.R. CO. Survey Section 945 ABS No. 832 20.59 - Acres Comal County, Texas



12/16/2022

1000



Flood Plain Note: This property is not within the 100-Year Flood Plain according to Map Panel No. 48091C0110F Dated 9/2/2009.

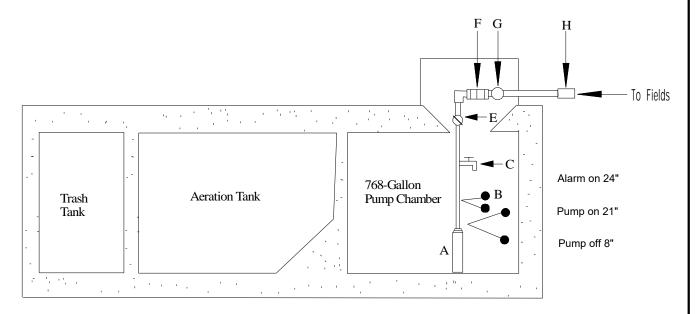
Scale: 1" = 300'

600'

*This is not intended to be used as an official survey. All structures and Contour locations are approximate.

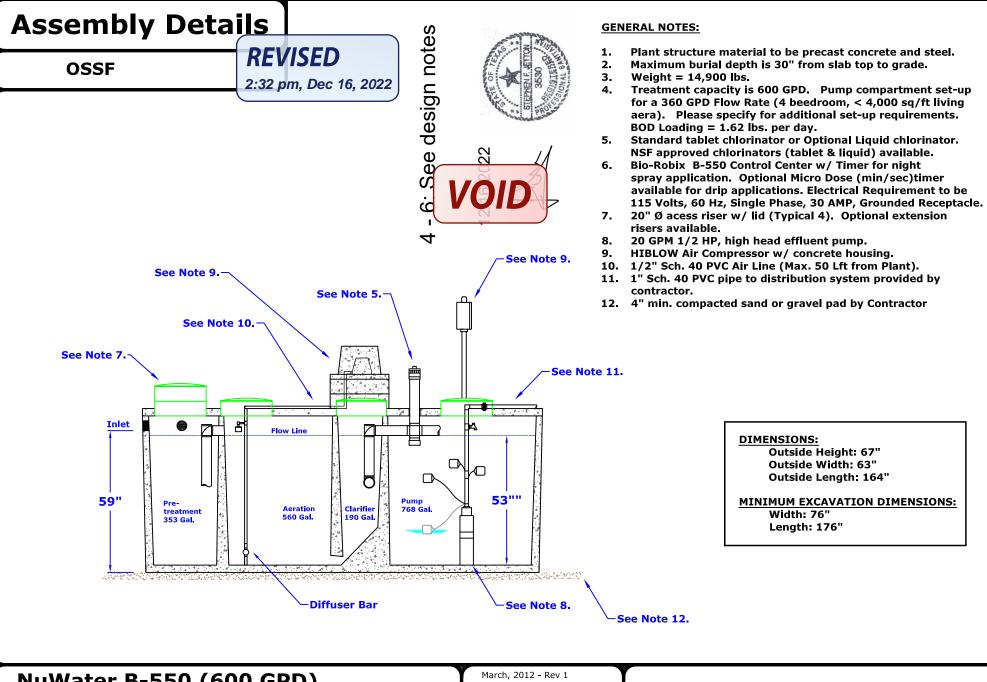


- A -Ashland Pump CPM Series 20CPM5-115 20GPM 1/2HP.
- B Wide Angle Mercury Float Switch
- C Sampling Port
- E Pressure Regulator
- F Quick Disconnect Union
- G 40 PSI Pressure Guage
- H Check Valve





NuWater B-550 (600 GPD) Aerobic Treatment Plant



NuWater B-550 (600 GPD) Aerobic Treatment Plant (Assembled)

Model: B-550-PC-400PT

March, 2012 - Rev 1 By: A.S.

.

* All Dimensions subject to allowable specification

Dwg. #: ADV-B550-3



Advantage Wastewater Solutions IIc. 444 A Old Hwy No 9 Comfort, TX 78013 830-995-3189 fax 830-995-4051

2:32 pm, Dec 16, 2022

PROPLUS" GEAR DRIVEN SP

NG INSTRUCTIONS

SPRINKLER INSTALLATION

INSTALL AND BURY

Do not use pipe dope. Thread the sprinkler on the pipe. Bury the sprinkler flush to grade. NOTE: Gear driven sprinklers and pop-up sprays should not be installed on the same watering zone.

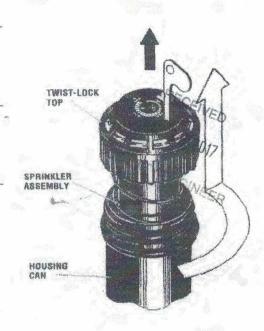
2 INSPECTING THE FILTER

Unscrew the top and lift the complete sprinkler assembly out of the housing can. The filter is located on the bottom of the sprinkler assembly and can easily be pulled out, cleaned and re-installed.

WINTERIZATION TIPS

When using an air compressor to remove water from the system please note the following:

- 1) Do not exceed 30 PSI.
- 2) Always introduce air into the system gradually to avoid air pressure surges. Sudden release of compressed air into the sprinkler can cause damage.
- 3) Each zone should run no longer than 1 minute on air. Sprinklers turn 10 to 12 times faster on air than on water. Over spinning rotors on air can cause damage to the internal components.



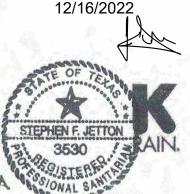
STANDARD NOZZLE PERFORMANCE

	0	.S.				METRIC		
Nazzie	Pressure PSi	Radius	Flow GPM	Pres KPa	Sure Bars	Radius Meters	FIL	3W M3/I
#2.5 Factory Installed Nozzie	30 40 59 60	38' 39' 40' 41'	2.5 2.8 3.2 3.6	206 275 345 413	2.04 2.72 3.40 4.08	11.6 11.9 12.2 12.5	9.46 10.60 12.11 13.25	.57 .64 .73
10.5	30 40 50 80	28' 29' 29' 30'	Q.5 D.6 Q.7 B.8	206 275 345 413	2.0 3.0 3.5 4.0	8.5 8.8 8.8 9.1	1.89 2.27 2.65 3.03	.11 .14 .16
10.75	30 40 50 80	29' 30' 31' 32'	0.7 0.8 0.9 1.0	206 275 345 413	2.0 3.0 3.5 4.0	8.8 9.1 9.4 9.8	2.65 3.03 3.41 3.79	.16 .18 .20 .23
N	30 40 50 60	32' 33' 34' 35'	1,3 1,6 1,8 1,8	206 275 345 413	2.0 3.0 3.5 4.0	9,8 10.1 10.4 10.7	4.92 5.68 6.05 6.81	.14 .12 .24 .23
12	30 40 50 60	37* 40* 42* 43*	2.4 2.5 3.0 3.3	206 275 345 413	2.0 3.0 3.5 4.0	11.3 12.2 12.8 13.1	9.08 9:46 11.35 12.49	.54 .56 .61
13	30 40 50 80	38° 39° 41° 42°	3.6 4.2 4.6 5.0	206 275 345 413	2.0 3.0 3.3 4.0	11.6 11.9 12.5 12.8	13.63 15.89 17.41 18.92	.73 .93 1.04 1.13
N	30 40 50 60	43' 44' 46' 49'	4.4 5.1 5.6 5.9	206 275 345 413	2.0 3.0 3.5 4.0	13.1 13.4 14.0 14.9	16.65 19.30 21.19 22.33	1.18 1.27 1.33
16	40 50 60 70	45' 46' 46' 49'	5.9 6.0 6.3 6.7	206 275 345 413	3.0 3.5 4.0 5.0	13.7 14.0 14.5 14.9	22.33 22.71 23.85 25.35	1.33 1.31 1.43 1.53
#8	48 50 60 70	42' 45' 49' 50'	8.0 8.5 9.5 10.0	206 275 345 413	3.0 3.5 4.0 5.0	12.8 13.7 14.8 15.3	30.28 92.12 35.95 97.85	1.87 1.92 2.13 2.27

LOW ANGLE NOZZLE PERFORMANCE

U.	S.				METRIC		
Pressure PSI	Radius Pi.	Flow GPM	Pro: KPa	Bars	Pindiua Meters	LM	OW MYH
30	22'	1.2	207	2.04	6.71	4.54	.34
40	24'	1.7	275	2.72	7.32	5.43	.39
50	26'	1.8	344	3.40	7.92	6.80	.41
60	28'	2.0	413	4.08	8.53	7.56	.46
30	29'	3.0	207	2.04	8.84	11.34	.68
40	32'	3.1	275	2.72	9.75	11.72	.71
58	35'	3.5	344	3.40	10.67	13.23	.80
60	37'	3.8	413	4.08	11.58	14.36	.87
30	31'	3.4	207	2.04	9.45	12.85	.78
40	34'	3.9	278	2.72	10.36	14.74	.89
50	37'	4.4	344	3.40	11.28	16.63	1.00
60	38'	4.7	413	4.08	11.58	17.77	1.07
40	38'	8.5	275	2.72	11.58	24.57	1.68
50	40'	7.3	344	3,40	12.19	27.59	1.76
60	42'	8.0	413	4.08	12.80	30.24	1.82
70	44'	8.6	482	4.76	13.41	32.51	1.96
	Pressure PS1 30 40 50 60 30 40 50 60 30 40 50 60 40 50 60 40 50 60	PSI P. 30 22' 40 24' 50 26' 60 28' 30 22' 40 32' 50 35' 60 37' 30 31' 40 34' 50 37' 60 38' 40 38' 50 40' 60 42'	Pressure Radius Flow GPM \$0 22' 1,2 40 24' 1,7 50 26' 1,8 60 28' 20 30 29' 3,0 40 32' 3,1 56 35' 3,5 60 37' 3,8 30 30' 3,4 40 34' 3,9 50 37' 4,4 60 38' 4,7 40 38' 8,5 50 40' 7,3 60 42' 8,0	Pressure Radius Flow Pressure PS1 PL GPM KPe 30 22' 1,2 207 40 24' 1,7 275 50 26' 1,8 344 60 28' 2,0 413 30 29' 8,0 207 40 35' 3,5 34 60 37' 3,8 413 30 39' 3,8 413 30' 31' 3,4 207 40 34' 3,9 276 50 37' 4,4 344 60 38' 4,7 413 40 38' 8,5 275 50 40' 7,3 344 60 42' 4,0 413	Pressure Padius Flow GPM Pressure Readius 30 22' 1.2 207 2.04 40 24' 1.7 275 2.72 50 26' 1.8 344 3.40 60 26' 2.0 413 4.08 30 29' 3.0 207 2.04 40 32' 3.1 275 2.72 56 35' 3.5 344 3.40 60 37' 3.8 413 4.08 30 31' 3.4 207 2.04 40 36' 3.9 275 2.72 50 37' 4.4 344 3.40 60 38' 4.7 413 4.08 60 38' 4.7 413 4.08 60 38' 4.7 413 4.08 50 40' 7.3 344 3.40 60 42' 8.0	Pressure Radius Flow open Pressure Radius 981 Fl. 6PM KFa Bars Meters 30 22' 1.2 207 2.04 6.71 40 24' 1.7 275 2.72 7.32 50 26' 1.8 344 3.40 7.92 60 28' 2.0 413 4.08 8.53 30 29' 3.0 207 2.04 8.84 40 32' 3.1 275 2.72 9.75 56 35' 3.5 344 3.40 10.67 60 37' 3.8 413 4.08 11.58 30 31' 3.4 20' 2.04 8.94 40 34' 3.9 275' 2.72 10.36 50 37' 4.4 344 3.40 11.28 60 38' 4.7 413 4.08 11.50	Pressure Radius Flow Pressure Radius Flow 981 Pl. 6PM KPa Bars Meters LMM 30 22' 1.2 207 2.04 6.71 4.54 40 24' 1.7 275 2.72 7.32 5.43 50 26' 1.8 344 3.40 7.92 6.80 60 28' 2.0 413 4.08 8.53 7.56 30 29' 3.0 207 2.04 8.84 11.34 40 32' 3.1 275 2.72 9.75 11.72 56 35' 3.5 344 3.40 10.67 13.23 60 37' 3.8 413 4.08 11.58 14.36 30 31' 3.4 20' 2.04 9.45 12.85 40 34' 3.9 275 2.72 10.36 14.74 4

Data represents test results in zero wind for ProPlus. Adjust for local conditions. Radius may be reduced with nozzle retention screw.



K-RAIN MANUFACTURING CORP.

1640 Australian Avenue Riviera Beach, FL 33404 USA PH: 1-561-844-1002 / 1-800-735-7246 FAX: 1-561-842-9493

WEB: http://www.krain.com

© K-RAIN Manufacturing Corp. 1-58921

CISTERN PUMPS **CPM Series**

REVISED 2:32 pm, Dec 16, 2022

Ashland Pump – CPM Series

VOID The Ashland Pump CPM Series is designed to operate in effluent/gray water applications. The bottom suction design allows for maximum drawdown of fluid and the hydraulic stages are able to pass 1/8" solids without damage to the pump.

Installations in cistern tanks, rain basin catchments or anywhere drawdown levels need to be maximized are ideal applications for the Ashland Pump CPM Series.

APPLICATIONS

- Filtered Effluent Water Pumping
- Gray Water Pumping
- Water Feature / Aeration Applications
- Rain Water Basin Applications

FEATURES

- Bottom suction design for maximum drawdown
- Able to pass 1/8" solids
- Available in 10, 20 and 30 GPM flow rates
- 1/2 HP, 115V and 230V single phase motors
- Heavy duty discharge with stainless steel internal threads
- · 600 Volt, 10' SJ00W jacketed lead
- High shut-off pressure
- Quiet operation
- Standard removable base for stable mounting

12/16/2022



ORDERING INFORMATION

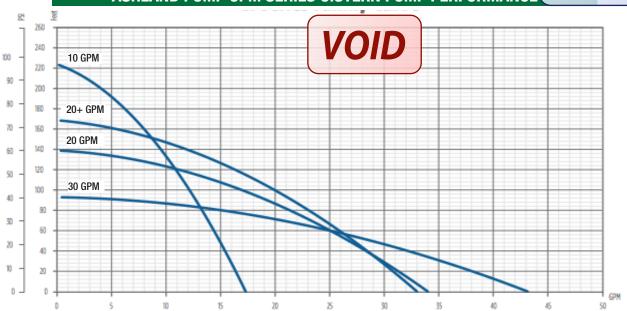
CPM SERIES CISTERN PUMP							
GPM	HP	Voltage/Ph.	Stage Count	Length (in.)	Shipping Wt. (lbs.)		
10		115/1	7	26	17		
10		230/1	7	26	17		
20		115/1	5	25	16		
20	1/2	230/1	5	25	16		
20+	''-	115/1	6	26	17		
20+		230/1	6	26	17		
30		115/1	4	25	16		
30		230/1	4	25	16		
	10 10 20 20 20+ 20+ 30	GPM HP 10 10 20 20 20+ 20+ 30	GPM HP Voltage/Ph. 10 10 20 20 1/2 20+ 20+ 20+ 20+ 200+ 30 1/2 115/1 230/1 115/1	GPM HP Voltage/Ph. Stage Count 10 115/1 7 10 230/1 7 115/1 5 20 1/2 230/1 5 20+ 115/1 6 20+ 230/1 6 30 115/1 4	GPM HP Voltage/Ph. Stage Count Length (in.) 10 115/1 7 26 10 230/1 7 26 20 115/1 5 25 20+ 230/1 5 25 115/1 6 26 20+ 230/1 6 26 30 115/1 4 25		



REVISED

2:32 pm, Dec 16, 2022

ASHLAND PUMP CPM SERIES CISTERN PUMP PERFORMANCE



12/16/2022







Honest, Professional, Dependable

1899 Cottage Street, Ashland, Ohio 44805 Telephone: 855 281-6830 • Fax: 877 326-1994 • ashlandpump.com

LBC Manufacturing

REVISED2:33 pm, Dec 16, 2022



US Patent Pending

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No part of this publication may be reproduced, stored in any retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying recording, or otherwise without the prior written permission of LBC MFG.

LBC Manufacturing

P.O. Box 454 • Fayetteville, TEXAS 78940 (979) 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

1



RECOMMENDED INSTALLATION INSTRUCTIONS

REVISED

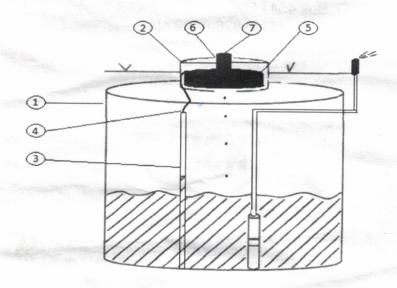
2:33 pm, Dec 16, 2022

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

- 1. Locate the Aerobic System Holding/Pump tank
- . Remove the green access lid mounting screws and remove green



- 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 riser. (EZ-Tank reservoir rests on the secondary safety lid inside the holding tank access riser. If the holding tank access riser does not have a secondary safety lid, replace with new access riser 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 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.)



2







Southwest Septic Design

2573 Deer Stand Loop San Marcos, Texas 78666 Hays County



Aerobic Wastewater Treatment System Utilizing Surface Spray Application

OWNER/SITE LOCATION:

Courts Residence 5800 FM 32 T.C. R.R. Co. Survey Section 945 ABS No. 832 – 20.59-acres

T.C.R.R. Co. Survey Sec. No 946 ABS 936 Fischer, Texas

C.D. Robertson Survey No. 999 ABS 982;

SITE DESCRIPTION & EVALUATION:

A site evaluation indicated that the site is suitable for an aerobic surface irrigation system. The spray area has a slope of less than 15 percent, and there was no evidence of shallow groundwater. This residence will utilize an above ground rain-water collection tank for their source of water. All portions of the proposed OSSF must maintain at least a 10' setback from all water lines. This property is not within the 100-Year Floodplain (see site plan). There are no recharge features within 150' of the proposed OSSF. Minimum separation distances as stated in §285 TCEQ On-Site Sewage Facilities, must be maintained.

WASTEWATER DESIGN FLOW:

This design is for a 3-bedroom, 3651 sq. ft., single-family residence utilizing low-flow fixtures. This design will be slightly oversized to accommodate a future addition. Therefore, the total daily wastewater flow will be 360 gallons per day, as per Texas Commission of Environmental Quality (TCEQ) On Site Sewage Facilities, effective 12-29-2016.

AEROBIC TREATMENT SYSTEM DESCRIPTION:

This proposed development will utilize a Nuwater Aerobic Treatment Plant, Model B-550. A 353-gallon pretreatment/trash tank will precede the 600-gallon per day aerobic treatment tank. Effluent from the aeration tank will flow through a liquid chlorinator (EZ Tank Chlorinator) to a 768-gallon pump tank. The pump tank serves as a chlorine contact chamber and a storage tank prior to the treated/chlorinated effluent being discharged to sprinkler heads. The disposal area will consist of 2-30 ft. 360° radius patterns. The system is considered a "package system", and will be installed according to manufacturer's instructions.







Design Specification:



Trash Tank	353 gallon one-compartment
Aeration Tank	600 gallon per day
Pump Tank	768 gallon

Pump Tank:

Pump Tank gallons per inch: 14.49"

Operating Capacity: 14.49" x 13" = 188.37 operating gallons

Reserve Capacity: 53" usable depth (53 x 14.49 = 768.00) 768.00 - 347.76 = 420.24 reserve

gallons.

Pump off	8" Above tank floor	115.92 Gallons
Pump on	21" Above tank floor	304.29 Gallons
Alarm on	24" Above tank floor	347.76 Gallons

Combined capacity of pretreatment and aeration tank is 953-gallons. A 768-gallon, singlecompartment pump tank allows for a one day's flow above the alarm-on level. This system will be designed to pump on demand.

Pump and Sprinkler Head Requirements:

Pump: Ashland Pump CPM Series – 20CPM5-115 20GPM ½ H.P.

Sprinkler Head: K Rain Pro Plus with Purple Tops.

Nozzle #: 3 LA (Low angle trajectory, 11 degrees), operating at 35 psi, 30 ft. radius and 3.05 GPM flow per sprinkler

Dosing:

Application Flow Rate 3.05 gpm/head x 2 heads = 6.1 gpm

Application Time: 2 doses @ 180 gal/dose / 6.1 gpm = $\sim 29.51 \text{ min/dose}$

Head Requirements:

Elevation head: 6 (assumed elevation at top of pump 1120 and highest spray head at 1126)



Design Specification:

Size of Residence		3651 sq. ft.
Number of Pedrooms		3
Average Fxpected Flow		360 GPD
Application Rate	0.064 Gal./ft²/Day	0.064
Minimum Application Application	(0.) (5625.00 ft ²
Actual Application Ar	3.14(x m r of t vds	5652.00 ft ²
System Componen	UID	
Trash Tank	353 gallon one-compartment)
Aeration Tank	600 gallon per day	•
Pump Tank	768 gallon	

Pump Tank:

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Head Requirements:

Elevation head: 6 (assumed elevation at top of pump 1120 and highest spray head at 1126)



Pressure head: 35 psi x 2.31 ft/psi = 80.85 ft.

Friction head: 1" Sch. 40 PVC @ 6.10 gpm = 3.63 ft. (170 x 3.63/100 x 1.2) = 8.712

TDH = 6 ft. + 80.85 ft. + 7.41 = 94.26 (within pump curve).

An unthreaded sampling valve must also be provided. Under the Texas Administrative Code, §285 On-Site Sewage Facilities. This system is designed to dose on demand.



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 Facility's set forth in the Texas Administrative Code, δ285 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 designer and regulatory authority at least 48 hours in advance to schedule required inspections to ensure that the system is installed in accordance with the approved plans and specifications.
- The installer may not alter these plans without the approval of the designer.
- Diversion berms will be place when needed to protect irrigation area from excessive runoff.
- All electrical installation must be in compliance with applicable electric codes.
- All outside electrical components must be placed in electrical conduit.
- It is the responsibility of the installer to maintain the minimum setback requirements as stated in §285 for On-Site Sewage Facilities.

Tank Notes:

- The bottom of the excavation for the tanks shall be level and free of large rocks and debris.
- All tanks are to be set level on a layer, with a minimum thickness of 4 inches, of sand, sandy loam, clay loam, or pea gravel.
- Tank excavations must be backfilled with soil or pea gravel that is free of rock larger than ½ inch in diameter. Class IV soils and gravel larger than ½ inch in diameter are not acceptable for use as backfill material. If the top of a septic tank extends above the ground surface, soil may be mounded over the tank to maintain slope to the drain field.
- Risers are required over all tank openings and must extend to the ground surface.
- Risers shall be permanently fastened to the tank lid.
- The riser lid shall screw down and have a lock or weigh 65lbs.
- A secondary plug, cap, netting, etc. shall be provided below the riser lid.

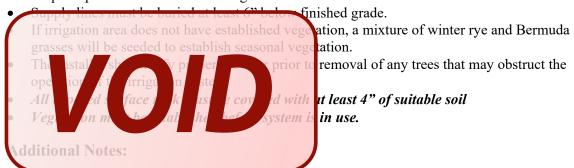




- All openings in the tank must be properly sealed to prevent the escape of wastewater, or to prevent the infiltration of water.
- Tanks must be filled with water for 24 hours to test for leaks and structural integrity.
- The tanks must be set low enough to have fall of at least 1/8" per foot from RV pad to tank.
- PVC pipe from RV pad to tank must be at least Sch.40 or SDR 26.

Irrigation & Landscaping Notes:

- Irrigation lines shall be 1" Sch.40 PVC. Sleeve any pipe that crosses under any roads or driveways with Sch.40 PVC.
- Purple Pipe must be used for all irrigation lines.



- Install audio-visual alarm for aerator and pump on separate breakers.
- The high water and air compressor alarms shall be audio/visual and mounted in a place that can be easily seen and heard when the alarms are activated.
- A hose bib must be installed in pump tank at tank inspection port.
- The chlorinator must be constructed to allow a chlorine residual of 1.0 mg/1 in the pump tank for the period of time between scheduled inspections.
- The disinfected effluent must obey the standards as stated in §285, TCEQ, On-Site Sewage Facilities. Approved disinfections methods using chlorinated tablets, must use calcium hypochlorite that is properly labeled for wastewater disinfections.

Maintenance Requirements:

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

Affidavit:

- The applicant must file a certified copy of an affidavit at the County clerk's office and filed in reference to the real property deed on which the surface application system is the be installed.
- The affidavit will state that the property shall not be transferred to a new owner without:





- (1) The new owner being advised that the property contains a surface application system for wastewater disposal;
- (2) The permit issued to the previous owner of the property being transferred to the new owner in accordance with §285.20(5) of the TCEQ 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 and the occur upon actual transfer of the property.

(3) The new owners submitting a valid maintenance contract to the permitting authority.

Operation and Manager Note: The OSSF model name trend and remaining sewer Water constitution action should make a all times more information.

Consult your local authorities for

- Run the dishwasher with a full load whenever possib
- Avoid running water continuously when brushing teth, washing hands, or cleaning food and utensils.
- Repair any water leaks immediately, such as running toilets or leaky faucets.
- The owner is responsible for cleaning and pumping the septic tank, typically every 2 to 3 years depending on system usage.
- Do not use the toilet to dispose of tissue, feminine hygiene products, trash, cigarettes, etc.
- It is recommended that you do not use the garbage disposal and/ or garbage grinders in the facility serviced by this system.
- Household chemicals should be used in moderation.
- According to §285, no water softener will be allowed to enter the OSSF.
- Chemical additives or the so-called enzymes should not be used during the operation of this system. Some of these additives may even be harmful to the facilities operation.
- Do not build driveways, storage buildings, decks, or other structures over the tank or disposal area.
- The OSSF must be protected from coming in contact with vehicular traffic.
- A strong vegetative cover is essential for the proper operation of this system. The property owner is solely responsible for maintaining this vegetation. The irrigation area should be groomed by mowing on a regular basis.
- If you notice a problem with the spray patterns, or any of the alarms are activated, contact your maintenance provider immediately.
- Never place a greater wastewater load on your system than that prescribed by the design of the system (360 gallons per day).

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





1. BEARINGS ARE BASED ON THE STATE PLANE COORDINATE SYSTEM ESTABLISHED FOR THE TEXAS SOUTH CENTRAL ZONE 4204, NORTH AMERICAN DATUM (MAD) OF 1983.

2. THE REFERENCED PROPERTY IS IN ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOCOPIAIN, AS SHOWN ON THE FEMA FLOOD MAP 4809/C01/10F, COMMUNITY PAKEL NO. 110 OF 505, DATED SEPTEMBER 9, 2008.

TITLE COWNITMENT PROVIDED BY THE OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY, GF NO.2175599-DRP, EFFECTIVE DATE DECEMBER 14, 2021, ISSUED DATE DECEMBER 22, 2021.

SCHEDULE B:

RESTRICTIVE COVENANTS OF RECORD:

DOCUMENT NO. 201906011326, DOCUMENT NO. 201906011327,

DOCUMENT NO. 201906042462.

DOCUMENT NO. 202006043211

DOCUMENT NO. 202036043211, DOCUMENT NO. 202036039450, DOCUMENT NO. 202106047906, DOCUMENT NO. 202106048833, DOCUMENT NO. 202106041632,

DOCUMENT NO, 202100048831, AND DOCUMENT NO. 202100048831, AND DOCUMENT NO. 20210002819, OFFICIAL PUBLIC RECORDS, COWAL COUNTY, TEXAS

a, VOLUME 151, PAGE 294, DEED RECORDS, COMAL COUNTY, TEXAS, (DOES NOT CROSS SUBJECT TRACT)

A VOLUME IN IN PAGE SM. (DEED RECORDS COMIA, COUNTY, TOUNS, DOCES NOT CROSS SUBJECT TANCT DESIGNEY AS STATED THERRIN .

IN COLUMN THIS PAGE SZE, DEED RECORDS COMIA, COUNTY, TOUNS, DAVY APPY, LIMMALE TO LOCATE |
DESIGNEY AS STATED THERRIN .

CALOLINE SIGN PAGE S. DEED RECORDS COMIA, COUNTY, TEXAS, DOCS NOT CROSS SUBJECT TANCT)
DESIGNEY AS TATED THERRIN . 6. DOCUMENT NO. 200903020982, DEFICIAL PUBLIC RECORDS, COMAL COUNTY, TEXAS, (MAY APPLY - LINABLE TO LOCATE)

-ELECTRIC TRANSMISSION AND DISTRIBUTION LINE EASEMENT, 20 FEET WIDE, AS GRANTED TO PERDERNALES ELECTRIC COOPERATIVE, INC.

g. COUNTY CLERK'S FILE NO. 2010/08/015874 OF THE OFFICIAL RECORDS OF COMAL COUNTY, TEXAS, (MAY APPLY LINABLE TO LOCATE)

-ELECTRIC TRANSMISSION AND DISTRIBUTION LINE EASEMENT, 20 FEET WIDE, AS GRANTED TO PEDERNALES ELECTRIC COOPERATIVE, INC.

N. COUNTY CLERKS FILE NO, 2015/6018034 OF THE OFFICIAL RECORDS OF COMAL COUNTY, TEXAS, (APPLIES)

- BLECTED FINANCISCAN MOSTREAM OF THE DEFENDENCE OF CONTROL OF CONTROL OF THE CONTROL OF CONTROL OF THE CONTROL OF T

PROVISIONS AND RESTRICTIONS AS IMPOSED BY THAT CERTAIN SANITARY CONTROL FASEMENT.

I, COUNTY CLERK FILE NOS, 2000/96/20474 AND 2000/96/2042 OF THE OFFICIAL RECORDS OF COMAL COUNTY TEXAS AND 2012/99/2098, 2012/96/20494 AND 2012/96/2003/06 OF THE OFFICIAL PUBLIC RECORDS OF COMAL COUNTY, TEXAS, (NOT A SURVEY MATTER)

- NOTICE REGISTRANCE MATTER)
-- HOTICE REGISTRANCE REGISTRANCE TO ON-SITE SEWAGE FACILITIES, INCLUDING
THE GRIEGATION OF A CONTINUOUS MANTENINGE CONTRACT AND TRANSFER CRIEGATIONSPON.
SALE

m. DOCUMENT NO. 201906011327, 20200605450, 202106047906, 202106048831, OFFICIAL PUBLIC RECORDS, COMAL CCUNTY, TEXAS. (NOT A SURVEY MATTER) • MAINTENANCE CHARGES AND/OR ASSESSMENTS AND/OR WORKING CAPITAL ASSESSMENTS

s. COUNTY CLERK'S FILE NO. 2021/08/04/9832 OF THE OFFICIAL PUBLIC RECORDS OF COUNT. COUNTY, TEXAS (NOT A SURVEY MATTER -MANAGEMENT CERTIFICATE

, DOCUMENT NO. 2019(8011327 AND 2020(8059428, OFFICIAL PUBLIC RECORDS, COMAL COUNTY, TEXAS, DIDGS NOT CROSS SUBJECT TRACT)

-80' ROAD EASEMENT (SHOWN)

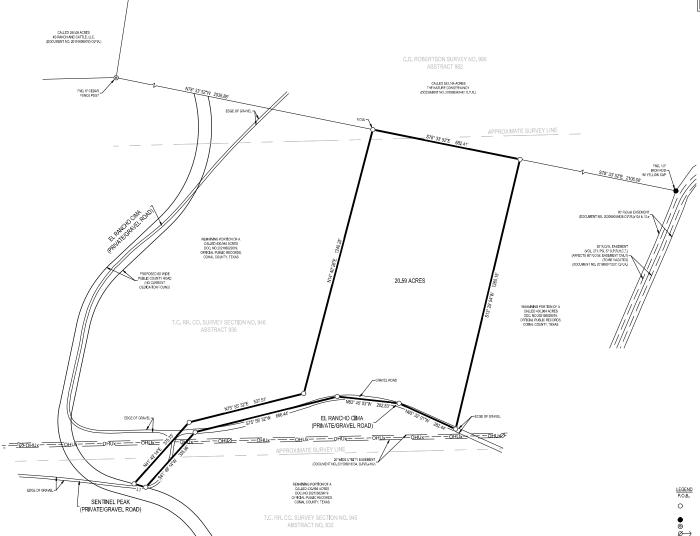
TITLE SURVEY OF

A 20.59 ACRE TRACT OF LAND, LOCATED IN THE C.D. ROBERTSON SURVEY NO. 999, ABSTRACT 982, THE T.C. R.R. CO. SURVEY SECTION NO. 946, ABSTRACT NO. 936, AND THE T.C. R.R. CO. SURVEY SECTION NO. 945, ABSTRACT NO. 832, COMAL COUNTY, TEXAS, AND BEING A PORTION OF A CALLED 430.984 ACRE TRACT OF LAND AS DESCRIBED OF RECORD IN DOCUMENT NO. 202106029019 OF THE OFFICIAL RECORDS OF COMAL COUNTY, TEXAS.





LOCATION MAP





INE BEARING DISTANCE

ø

SET 1/2* IRON ROD WITH A RED PLASTIC CAP

STAMPED "MATKIN HOOVER ENG. & SURVEY"

UTILITY POLE WITH ELECTRIC TRANSFORMER

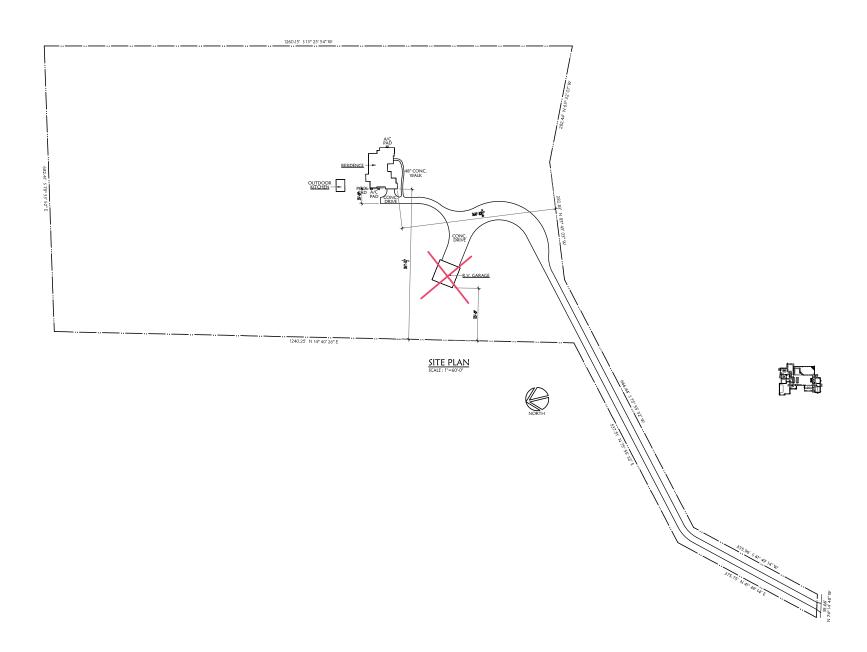
FOUND 1/2" IRON ROD (UNLESS OTHERWISE NOTED).

POINT OF BEGINNING

FOUND FENCE POST

-- OHUX- -- GENERAL OVERHEAD UTILITY

UTILITY POLE WITH GUY WIRE



REVISIONS JUNE 28, 2022

AUGUST 3, 2022 AUGUST 15, 2022

A RESIDENCE FOR: MR. & MRS. COURTS



RANDY HERRERAL
DESIGNER, LLC
1130 West Blanco, San Antonio Toras, 7222
VOCA, 210, 574, 574, 574, 574
FESTORITAL & COMPERCIAL DESIGNE & PLANNING

DATE DRAWN JUNE 10, 2022

SHEET A-1 BID SET

From:Ritzen, BrendaTo:"Stephen Jetton"Subject:RE: Permit 115449

Date: Friday, December 16, 2022 2:51:00 PM

Attachments: <u>image001.png</u>

Stephen,

The permit file has been updated.

Thank you,



Brenda Ritzen

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

From: Stephen Jetton <stephen.jetton@gmail.com>

Sent: Friday, December 16, 2022 1:44 PM **To:** Ritzen, Brenda <rabbjr@co.comal.tx.us>

Subject: Re: Permit 115449

This email originated from outside of the organization.

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

- Comal IT

HI Brenda,

Please see the attached revisions.

- 1. App updated with Donna Courts.
- 2. Test holes added to site plans noted as X.
- 3. Pump tank cross section updated with float heights.
- 4. Design notes signed and dated.
- 5. Owner item.

Thank you.



ON-SITE SEWAGE FACILITY APPLICATION

195 DAVID JONAS DR NEW BRAUNFELS, TX 781 (830) 608-2000

	VOID			V.CCEO.ORG
Date RECEIVED By Kathy Griffin at 2:48 pm, Nov 08, 2022	VOID	Permit Number	115449	sheft Micro
1. APPLICANT / AGENT INFORMATION			no	iffilmon' ma
Owner Name Royce Courts	Agent Name	Stephen Jetton		
Mailing Address POBOX3108	The sea alone feet of the sea	2573 Deer Stand Loop		
City, State, Zip WIMBELLEY TX 7867	TO THE PERSON NAMED IN COLUMN	San Marcos TX 78666	čenoli	s SN ress et a
Phone# 512-560-6188	Phone #	512-757-1259		
Email PACILL @SBCGloBAL	NET Email	stephen.jetton@gmail.co	om .	
2. LOCATION	70 (1980 - 1 88 - 1980	0.00	1 33(1) 13 13 14	
Subdivision Name RANCHES AT SENTINEL PEA	k . Un	nit Lot	9	Block
Survey Name / Abstract Number			creage	21
Address 5900 FM 32 LOT 9	City Fischer	State	ar anage f	Zip 78623
3. TYPE OF DEVELOPMENT	X	CANT TO ALL PAR	DE OT pr	er, an existi
Single Family Residential				
Type of Construction (House, Mobile, RV, Etc.)	HOUSE			
Number of Bedrooms 3	apar yn-na ar arnania yac bad	.P. d aes the propos		
Indicate Sq Ft of Living Area 365/		certify that the USSP		
Non-Single Family Residential				
Planning materials must show adequate land area for	doubling the required land needs	ed for treatment units	and dienoe	al area)
Type of Facility	and the state of t	or treatment ants t	and dispos	sai alea)
Offices, Factories, Churches, Schools, Parks, Etc	Indicate Number Of Occur	finot 930 taviongs t pants		
Restaurants, Lounges, Theaters - Indicate Number		Table of the Country	tiorle .0.71	to J.C edit e
Hotel, Motel, Hospital, Nursing Home - Indica		does the proposed	ato ante	riva an ai ma
Travel Trailer/RV Parks - Indicate Number of S		currity that the OSSF	STATE OF THE	NACO DE SESSO
Miscellaneous (.ea) file land	g pa, pidos nasc	0 8811 7350 911 HWG		
	Day M. May	The Kingley Company of the		· Library
Estimated Cost of Construction: \$ 1,500,000	(Structure Only)			
Is any portion of the proposed OSSF located in the Ur		ngineers (USACE) f	o opewol	acomont?
Yes No (If yes, owner must provide approval from				
Source of Water Public Private Well	The proposed over improve	monto within the OOACE	- nowage ea	asement)
. SIGNATURE OF OWNER				
y signing this application, I certify that:				
The completed application and all additional information subm facts. I certify that I am the property owner or I possess the a	nitted does not contain any false ppropriate land rights necessary	information and does to make the permitted	not conce d improver	al any materia ments on said

4 В

- 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 require 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.

10-4-2022 Date



ON-SITE SEWAGE FACILITY APPLICATION

195 DAVID JONAS DR NEW BRAUNFELS, TX 7813 (830) 608-2090 WWW.CCEO.ORG

Planning Materials & Site Evaluation as Required

Flaming Materials & Site Evaluation as Nequired Comp	The country of the co
System Description Aerobic Surface Spray Nuwater B-550	POTE ANT AGENT MEGRIATION
Size of Septic System Required Based on Planning Mate	rials & Soil Evaluation
Tank Size(s) (Gallons) 600 GPD - 353 Trash - 768 Pump	Absorption/Application Area (Sq Ft) 5652.00 sq. ft.
Gallons Per Day (As Per TCEQ Table III)360 GPD (Sites generating more than 5000 gallons per day are required to	to obtain a permit through TCEQ.)
Is the property located over the Edwards Recharge Zone?	? Yes X No 13cm Color Color
(If yes, the planning materials must be completed by a Registere	ed Sanitarian (R.S.) or Professional Engineer (P.E.))
Is there an existing TCEQ approved WPAP for the proper	ty? Yes No THEMPOLEVED TO THE
(If yes, the R.S. or P.E. shall certify that the OSSF design complete	lies with all provisions of the existing WPAP.) Islandbras 1 100 s and 1 1
If there is no existing WPAP, does the proposed developr	ment activity require a TCEQ approved WPAP? Yes X No
(If yes, the R.S. or P.E. shall certify that the OSSF design will cobe issued for the proposed OSSF until the proposed WPAP has	omply with all provisions of the proposed WPAP. A Permit to Construct will no been approved by the appropriate regional office.)
Is the property located over the Edwards Contributing Zor	ne? X Yes No a barrena
Is there an existing TCEQ approval CZP for the property?	
(If yes, the P.E. or R.S. shall certify that the OSSF design compl	lies vith VOID the existing CZP.)
If there is no existing CZP, does the proposed developme	ent activity require a TCEQ approved CZP? Yes X No
(If yes, the R.S. or P.E. shall certify that the OSSF design will co issued for the proposed OSSF until the CZP has been approved	omply with all provisions of the proposed CZP. A Permit to Construct will not be by the appropriate regional office.)
Is this property within an incorporated city?	No
If yes, indicate the city:	nutaurit. COS OSCII a i contrato de acti e a escribirario. In anticolor de proposido OSSI foran os introduciones de acti e al propo sido.
	Statement Water Committee (NC Statement World)
By signing this application, I certify that:	Bir puse sistem in the contract of the sistem of the contract
- The information provided above is true and correct to the be	est 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	Date
	watto.



Southwest Septic Design

On-Site Sewage Facility Application and Design

Prepared For:

Royce Courts 5800 FM 32 Fischer, Texas 78620

Design 101190222

Prepared By:

Stephen F. Jetton

Registered Professional Sanitarian



10/4/2022

Southwest Septic Design

2573 Deer Stand Loop San Marcos, Texas 78666 Hays County

Stephen.jetton@gmail.com Mobile (512) 757-1259

Design Report
On-Site Sewage facility
Aerobic Wastewater Treatment System
Utilizing Surface Spray Application

OWNER/SITE LOCATION:

Courts Residence 5800 FM 32 T.C. R.R. Co. Survey Section 945 ABS No. 832 – 20.59-acres Fischer, Texas

SITE DESCRIPTION & EVALUATION:

A site evaluation indicated that the site is suitable for an aerobic surface irrigation system. The spray area has a slope of less than 15 percent, and there was no evidence of shallow groundwater. This residence will utilize an above ground rain-water collection tank for their source of water. All portions of the proposed OSSF must maintain at least a 10' setback from all water lines. This property is not within the 100-Year Floodplain (see site plan). There are no recharge features within 150' of the proposed OSSF. Minimum separation distances as stated in §285 TCEQ On-Site Sewage Facilities, must be maintained.

WASTEWATER DESIGN FLOW:

This design is for a 3-bedroom, 3651 sq. ft., single-family residence utilizing low-flow fixtures. This design will be slightly oversized to accommodate a future addition. Therefore, the total daily wastewater flow will be *360 gallons per day*, as per Texas Commission of Environmental Quality (TCEQ) On Site Sewage Facilities, effective 12-29-2016.

AEROBIC TREATMENT SYSTEM DESCRIPTION:

This proposed development will utilize a Nuwater Aerobic Treatment Plant, Model B-550. A 353-gallon pretreatment/trash tank will precede the 600-gallon per day aerobic treatment tank. Effluent from the aeration tank will flow through a liquid chlorinator (EZ Tank Chlorinator) to a 768-gallon pump tank. The pump tank serves as a chlorine contact chamber and a storage tank prior to the treated/chlorinated effluent being discharged to sprinkler heads. The disposal area will consist of 2–30 ft. 360° radius patterns. The system is considered a "package system", and will be installed according to manufacturer's instructions.

ABBREVIATIONS

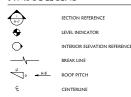
ABV.	ABOVE	H.B.	HOSE BIBB
A.F.F.	ABOVE FINISH FLOOR	IN.	INCH
A.F.G.	ABOVE FINISH GRADE	INSUL.	INSULATION
ADJ.	ADJUSTABLE/ADJACENT	INT.	INTERIOR
A/C	AIR CONDITIONING	J.B.	JUNCTION BOX
ALUM.	ALUMINUM	L.E.	LANDSCAPE EASEMENT
APPROX.	APPROXIMATELY	LAV.	LAVATORY
BTW.	BETWEEN	LITR.	LIGHTER
BLDG.	BUILDING	MAS.	MASONRY
B.S.	BUILDING SETBACK	MSTR.	MASTER
CAB.	CABINET(S)	MAX.	MAXIMUM
C	CARPET	MTL	METAL
CSM'T.	CASEMENT	MICRO.	MICROWAVE
CLG.	CEILING	MIN.	MINIMUM
CER.	CERAMIC	MISC.	MISCELLANEOUS
COL.	COLUMN	N/A	NOT APPLICABLE
CONC.	CONCRETE	O.C.	ON CENTER
CMU	CONCRETE MASONRY UNIT	O/H	OVERHANG/OVERHEAD
CONNS.	CONNECTIONS	PR.	PAIR
CRZ	CRITICAL ROOT ZONE	PWDR.	POWDER
DECO	DECORATIVE	PUF	PURITY FASEMENT
DIA	DIAMETER	RAD	RADIUS
DIR	DIRECTIONAL	REFRIG	REFRIGERATOR
D/W	DISHWASHER	REO'D.	REQUIRED
DISP'I	DISPOSABAL	R	ROD
DOC	DOCUMENT	RM.	ROOM
DR.	DOOR	SHAMP.	SHAMPOO
DRI	DOURI F	S/R	SHEETROCK
D.H.	DOUBLE HUNG	5	SHELF
DN.	DOWN	SHLVS	SHELVES
D.F.	DRAINAGE FASEMENT	SHNGL	SHINGLE
DRWR.	DRAW/FR	SHWR	SHOWER
DRS'G	DRESSING	SH	SINGLE HUNG
ESM'T.	FASEMENT	SIP	SLOPE
F.V.	FLECTRIC VEHICLE	S.D.	SMOKE DETECTOR
FLEC	ELECTRICAL	S.C.	SOLID CORE
FLFV	ELEVATION/ELEVATOR	S.E.	SOUARE FOOTAGE
FO.	EOUAL	5.1.	STAINI ESS STEEL
FXIST	EXISTING	STL	STEEL
EXT.	EXTERIOR	STRG	STORAGE
FIN.	FINISH	TFI.	TELEPHONE
F.F.F.	FINISH FLOOR ELEVATION	TMP'D.	TEMPERED
F.G.	FIXED GLASS	TEMP.	TEMPORARY
FIR.	FLOOR	THRU	THROUGH
FT.	FOOT	T	THE
FUT.	FUTURE	TO.	TOP OF
GIS.	CLASS	TOC.	TOP OF CONCRETE
GES.	GYPSUM	U.C.L.	UNDER CARINET LIGHTING
GWR.			UNIESS NOTED OTHERWISE
	GYPSUM WALL BOARD	U.N.O.	
H.S.	HORIZONTAL SLIDER	U.E.	UTILITY EASEMENT

COURTS RESIDENCE

GENERAL NOTES

- THE BUILDING SHALL BE CONSTRUCTED IN FULL COMPLIANCE WITH CURRENT INTERNATIONAL RESIDENTIAL BUILDING CODES AND ALL OTHER APPLICABLE CODES, ORDINANCES AND REGULATIONS AS WELL AS THE DRAWINGS AND SPECIFICATIONS.
- 2. THE FOLLOWING DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PROVIDE FOR A WATERTIGHT AND WEATHER TIGHT BUILDING.
- 3. THE FOLLOWING DRAWINGS ARE INTENDED TO PROVIDE A PLUMB, LEVEL AND SQUARE STRUCTURE UNLESS NOTED OTHERWISE.
- IF DRAWINGS ARE SCALED, ALL DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE AND SHOULD BE FIELD VERIFIED AND COORDINATED WITH WORK OF ALL TRADES.
- 5. THE BUILDER SHALL BE RESPONSIBLE FOR THE ACCURATE PLACEMENT OF THE BUILDING ON-SITE AND SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE CONSTRUCTION
- THE BUILDER SHALL PROVIDE ALL PERMITS AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION OF THE PROJECT IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS.
- THE BUILDER SHALL VERIFY SIZE AND LOCATIONS OF ALL MECHANICAL AND A/C PADS AS WELL AS POWER, WATER, AND DRAINAGE REQUIREMENTS FOR SUCH EQUIPMENT AND EQUIPMENT MANUFACTURERS.
- DETAIL DRAWINGS ARE INTENDED TO SHOW METHOD AND MANNER OF ACCOMPLISHING WORK, MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT ON-SITE DIMENSIONS OR CONDITIONS
- 9. ALL DIMENSIONS ON DRAWINGS ARE TO FACE OF STUD OR WALL UNLESS NOTED OTHERWISE.
- 10. INTERIOR WALLS TO BE 2x4 WOOD STUDS AT 16" O.C., UNLESS NOTED OTHERWISE FOR PLUMBING OR SPECIAL CONDITIONS.
- 11. ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- 12. ELECTRICAL AND HVAC INSTALLER TO COORDINATE THEIR WORK.
- 13. SMOKE DETECTORS ARE REQUIRED IN EACH BEDROOM ENTRY AND ADJOINING HALL CEILING. SMOKE DETECTORS SHALL BE ELECTRICALLY HARDWIRED WITH A BATTERY BACKUP. ALL SMOKE DETECTORS SHALL BE ELECTRICALLY INTERCONNECTED, SO THAT IF ONE COEI INTO ALARM. ALL GO INTO ALARM.

SYMBOL LEGEND



INDEX OF DRAWINGS

PROJECT INFORMATION

ARCHITECTURAL

STEPHAN
DIMENSIONED FLOOR PLAN
ELEVATED FAMILY BOOM & NITCHEN CEILING
FRONT A RICHT SIDE ELEVATIONS
ROOF PLAN
ROOF PLAN
ROOF PLAN
BITERIOR ELEVATIONS
INTERIOR ELEVATI

ELECTRICAL

POWER & LIGHTING PLAN

SQUARE FOOTAGE TABLE

-	
HOUSE PROPER	3651 S.F.
2 CAR GARAGE	704 S.F.
PORCH	134 S.F.
COVERED PATIO	725 S.F.
DOG YARD	126 S.F.
RV- G-R-65	2001-5.F.
OUTDOOR KITCHEN	287 S.F.
OUTDOOR KITCHEN SURROUNDING PAD	303 S.F.
TOTAL BUILDING AREA	5,930 S.F

PROJECT INFORMATION

613 CROSSVINE ST. NEW BRAUNFELS, TEXAS 78130

BUILDER

LAKE TRAVIS BUILDERS 3207 RANCH RD 620 S LAKEWAY, TEXAS 78738

CONTACT: (512) 845-5623 EMAIL: info@laketravisbuilders.com

DESIGNER

RANDY HERRERA DESIGNER, LLC 1130 WEST BLANCO RD. SAN ANTONIO, TEXAS. 78232

RANDY HERRERA (210) 479-6544 randy@randyherrer

LEGAL DESCRIPTION

TOWN CREEK PHASE 3 LOT-6

SCOPE OF WORK

CONSTRUCTION OF ONE-STORY SINGLE FAMILY PRIVATE DWELLING

BLOCK-20

A RESIDENCE FOR: WR. & MRS. COURTS



RANDY HERRERA DESIGNE, DESIGNER, LLC 1130 WER BLING, STRONG, FORM, 72222 VOIGE 200-758644 | FOR 2016/35-8428 INCHINAL RESIDENCE AND THE PROPERTY OF THE PROPER

DATE DRAWN SHEET

G-1 1 OF 15

BID SET

REVISIONS

JUNE 28, 2022 JULY 1, 2022 AUGUST 3, 2022 AUGUST 15, 2022

FLOOR PLAN NOTES

- VERIFY AIR CHASE & AIR RETURNS W/ BUILDER @ JOBSITE
- VERIFY A/C PAD(S) SIZE & LOCATION W/ OWNER & BUILDER.
- ALLOW MINIMUM OF 6" RETURNS FOR ALL DOORS. ALLOW FOR 6" WALLS @ ALL COMMODE LOCATIONS.
- ALL WINDOW HEADER HEIGHTS ARE DETERMINED FROM MAIN FINISHED FLOOR AND/OR FLOOR OF UPPER LEVEL.
- SHOWER HEADS @ BATHS VERIFY LOCATIONS W/ OWNER & BUILDER. ALSO, SHOWER HEADS TO BE A MINIMUM 84" A.F.F.
- VERIFY BATH TUB DRAIN LOCATION(S) W/ BUILDER.
- VERIFY ALL HOSE BIBB LOCATIONS W/ BUILDER.
- ALLOW CONNECTIONS FOR (2) ON DEMAND (TANKLESS) WATER HEATERS. VERIFY LOCATION(S) W/ BUILDER.

FLOOR PLAN LEGEND

_____ FLOOR LEVEL CHANGE FLOOR MATERIAL TRANSITION 10" × 12" CEILING HEIGHT TRANSITION WATER - COLD WATER - COLD & HOT HOSE BIBB 00 WATER SOFTENER

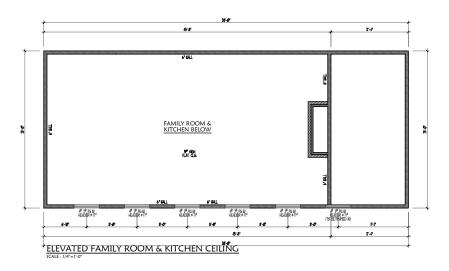
-ON DEMAND (TANKLESS) GAS WATER HEATER **REVISIONS** JUNE 28, 2022 AUGUST 3, 2022 AUGUST 15, 2022

A RESIDENCE FOR: MR. & MRS. COURTS



DATE DRAWN JUNE 10 2022

A-2 BID SET 3 OF 15



REVISIONS

JUNE 28, 2022 JULY 1, 2022

AUGUST 3, 2022 AUGUST 15, 2022

FLOOR PLAN NOTES

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- 8. VERIFY ALL HOSE BIBB LOCATIONS W/ BUILDER.
- ALLOW CONNECTIONS FOR (2) ON DEMAND (TANKLESS) WATER HEATERS. VERIFY LOCATION(5) W/ BUILDER.
- 10. ALLOW CONNECTIONS FOR FUTURE WATER SOFTENER

FLOOR PLAN LEGEND

FLOOR LEVEL CHANCE

TXV FLOOR MATERIAL TRANSITION

CEILUN HEGGET TRANSITION

GAS SYMBOL

WATER - COLD

WATER - COLD & HOT

HOSE BIBS

OO WATER SOFTENER

ON DEMAND (TANKLESS) GAS WATER HEATER

SECOND LIGHT CONTROL SECTION OF THE TOP AND A SECTION OF THE TOP A SECTI

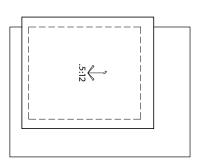
A RESIDENCE FOR: MR. & MRS. COURTS



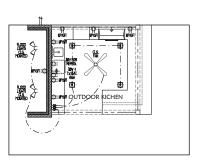
DATE DRAWN JUNE 10, 2022



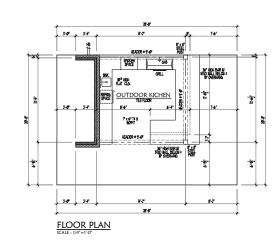


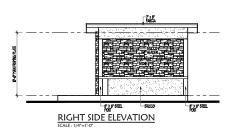


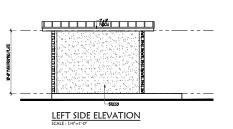
ROOF PLAN
SCALE: 1/4"=1'-0"

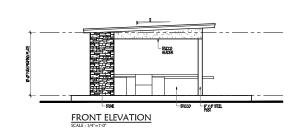


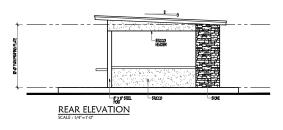
ELECTRICAL FLOOR PLAN
SCALE: 1/4"=1'-0"











LAKE TRAVIS BUILDIRS
DESIGN + BUILD

A RESIDENCE FOR: MR. & MRS. COURTS

REVISIONS

JUNE 28, 2022

JULY 1, 2022

AUGUST 3, 2022

AUGUST 15, 2022

TRANDY HERREFERA

DESIGNER, LLC

1130 Wett Blanco, San Articulo, Text, 7222

Volcet, 200, 295, 2422

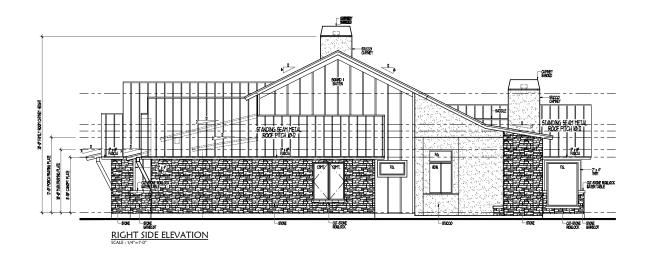
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RESIDENTAL & COMPERCIAL DESIGN & PLANNING

DATE DRAWN JUNE 10, 2022

BID SET A-13



REVISIONS

JUNE 28, 2022 JULY 1, 2022 AUGUST 3, 2022 AUGUST 15, 2022

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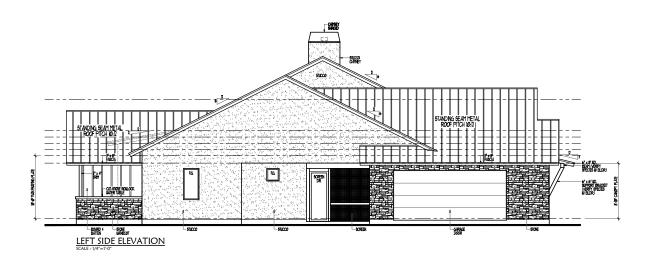
A RESIDENCE FOR: MR. & MRS. COURTS



DATE DRAWN JUNE 10, 2022

BID SET





REVISIONS

JUNE 28, 2022 JULY 1, 2022 AUGUST 3, 2022 AUGUST 15, 2022

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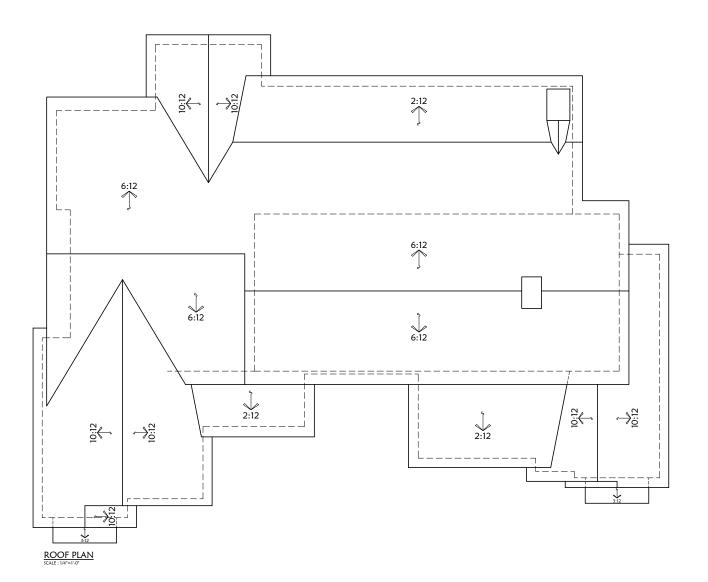
A RESIDENCE FOR: MR. & MRS. COURTS



TEANDY HERREGA RE, LLC
DESIGNER, LLC
THO WEST BENCO, SER ARRONG, TOWN, 7223
VOICE TO CONTRACT DESIGN A PLANNING
RESIDENTIAL & COMMERCIAL DESIGN A PLANNING

DATE DRAWN JUNE 10, 2022

BID SET



REVISIONS
JUNE 28, 2022

JUNE 28, 2022 JULY 1, 2022 AUGUST 3, 2022 AUGUST 15, 2022

VINELET © 2002 TE ANNEY HERBEAN.

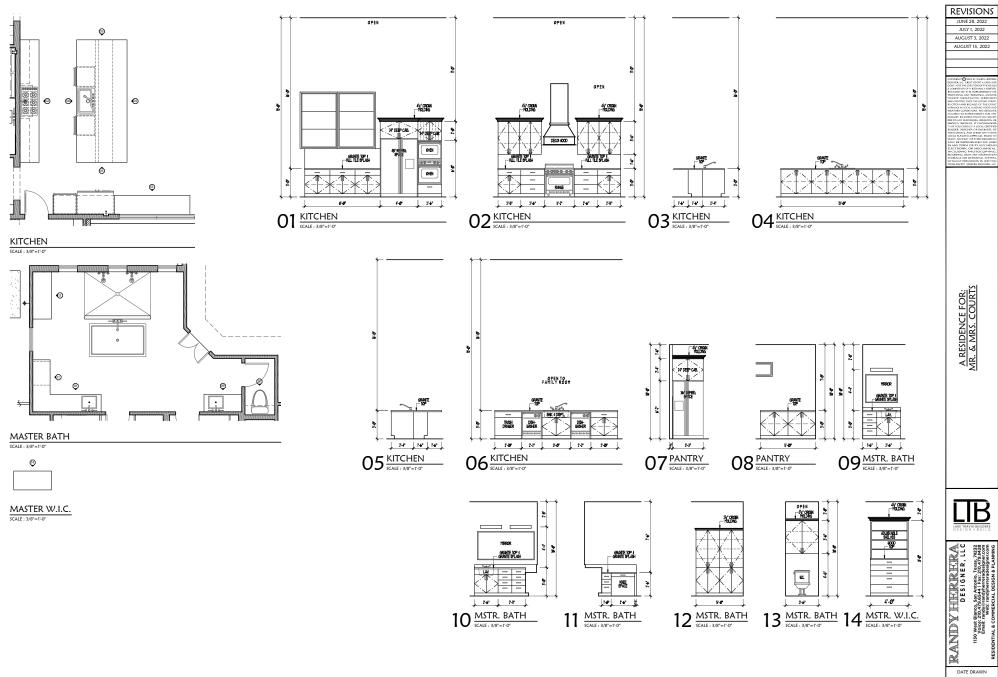
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A RESIDENCE FOR: MR. & MRS. COURTS



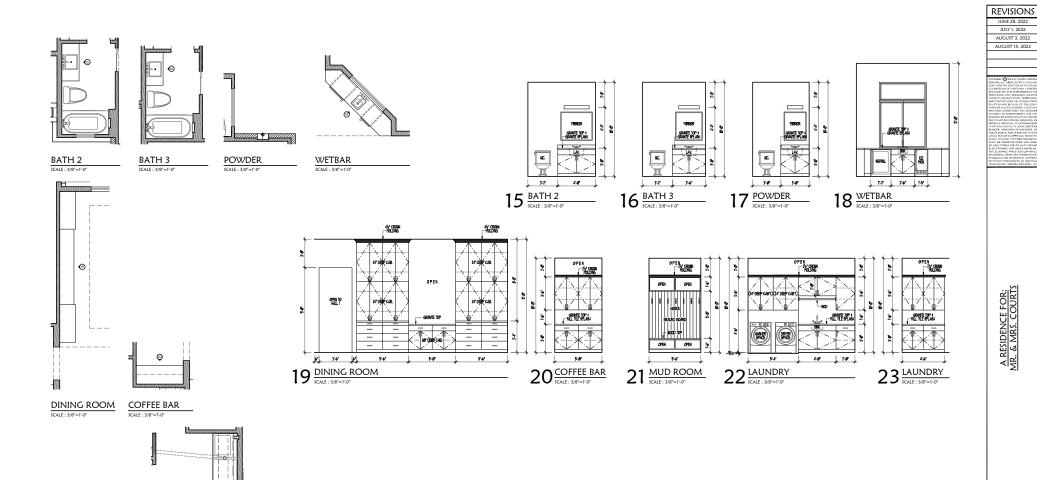
DATE DRAWN JUNE 10, 2022 SHEET

BID SET A-6



DATE DRAWN JUNE 10, 2022 BID SET A-7

8 OF 15



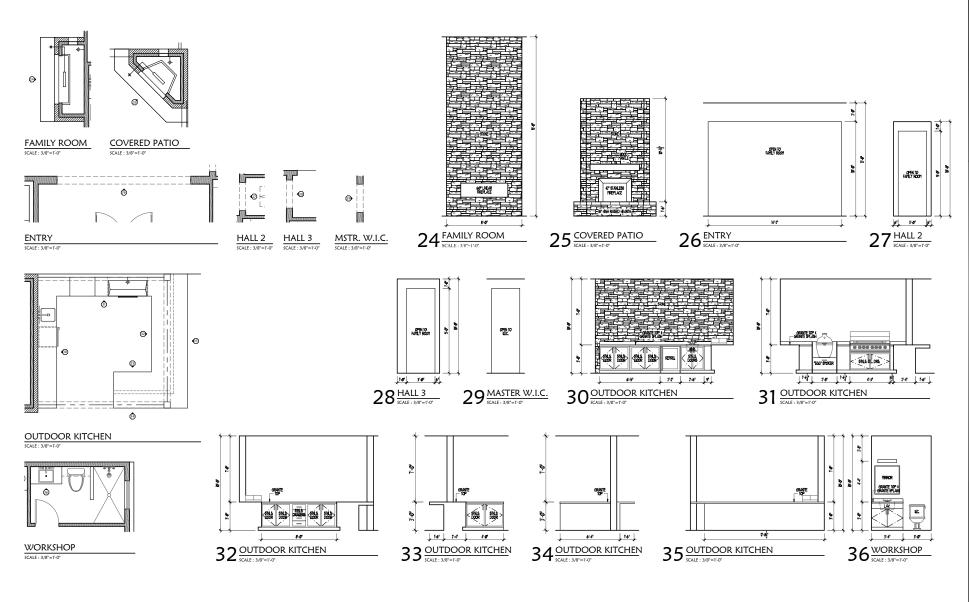
LAUNDRY SCALE: 3/8"=1'-0"

MUD ROOM SCALE: 3/8"=1'-0"



DATE DRAWN JUNE 10, 2022

BID SET A-9



REVISIONS

JUNE 28, 2022

JULY 1, 2022

AUGUST 3, 2022

AUGUST 15, 2022

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A RESIDENCE FOR: MR. & MRS. COURTS





DATE DRAWN JUNE 10, 2022

BID SET A-9

ELECTRICAL NOTES

- ALL ELECTRICAL TO MEET OR EXCEED ALL LOCAL BUILDING CODES.
- LIGHT SWITCHES & ENVIRONMENTAL CONTROLS MUST BE NO HIGHER THAN 48" ABOVE INTERIOR FLOOR LEVEL
- ALLOW FOR 110V(5), WP./GFI & 220V(5) FOR A/C PAD(5) VERIFY LOCATION(5) W/ BUILDER.
- ALLOW & VERIFY LOCATIONS OF DOORBELL & CHIME(S) W/ OWNER & BUILDER.
- ALLOW FOR SWITCH, LIGHT & 110V @ ALL PULL DOWN LOCATIONS IF APPLICABLE, VERIFY LOCATIONS W/ BUILDER.
- VERIFY FLOOR PLUG LOCATIONS W/ OWNER & BUILDER. ALLOW CONNECTIONS FOR FUTURE WATER SOFTENER.
- ALLOW CONNECTIONS FOR (2) ON DEMAND WATER HEATERS. VERIFY LOCATION W/ BUILDER.

ELECTRICAL - LOW VOLTAGE NOTES

- ALLOW & VERIFY LOCATION(S) OF PUSH BUTTON DOORBELL & CHIME(S) W/ OWNER & BUILDER.
- CABLE/SATELLITE LOCATIONS AS PER PLAN.
- VERIFY LOCATION(S) FOR TELEPHONE OUTLETS IF APPLICABLE.
- ALLOW FOR USB OUTLET CONNECTIONS. VERIFY LOCATIONS $\ensuremath{\mathsf{W}}\xspace/$ builder.
- ALLOW CONNECTIONS FOR FUTURE SECURITY SYSTEM
 MASTER W.I.C. VERIFY LOCATION W/ BUILDER.
- 6. VERIFY LOCATION(S) FOR SECURITY CAMERAS IF APPLICABLE.

ELECTRICAL LEGEND

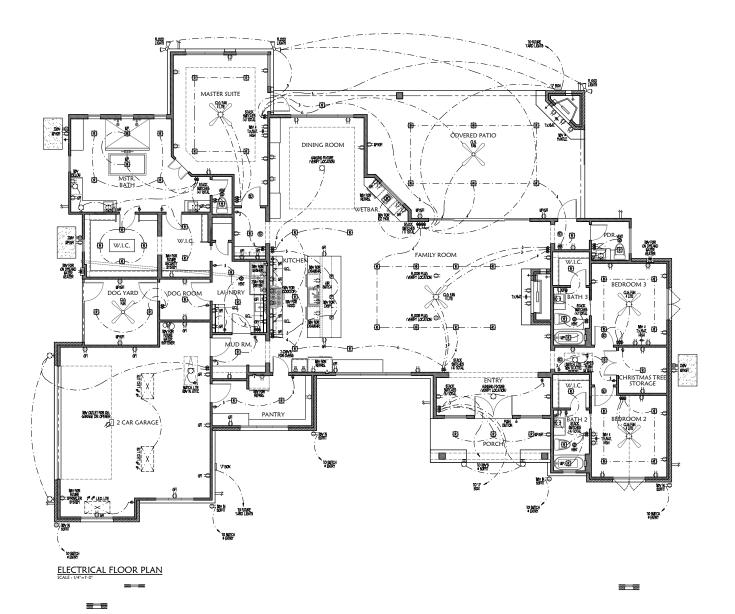
Ф	110V OUTLET
Ф	110V OUTLET BELOW THE COUNTER
on on	110V GROUND FAULT INTERRUPTER
Ø we/sec	110V WATERPROOF OUTLET
ø	110V OVERHEAD GARAGE DOOR OUTLET
	110V FLOOR PLUG OUTLET
d zzov	220V OUTLET
5 220V	220V OUTLET BELOW THE COUNTER
\$	WALL SWITCH

PUSH BUTTON SWITCH

TELEVISION / SATELLITE JACK

LIGHTING & FIXTURE LEGEND					
6	RECESSED CAN LIGHT				
® AF.	RECESSED CAN LIGHT WATERPROOF				
0	FLUSH MOUNT LIGHT				
Ø	PENDANT LIGHT				
0	HANGING FIXTURE				
₽	WALL MOUNTED LIGHT FIXTURE				
	UNDER CABINET LED STRIP				
0	EXHAUST VENT				
Ø	EXHAUST VENT & LIGHT COMBO				
⊚	SMOKE DETECTOR				
(000)	FLUSH MOUNTED DOOR CHIMES				
\$	FLOOD LIGHTS				
	2 ₀ 4 ₀ LED LIGHTS				
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CEILING FAN WITH LIGHT KIT



REVISIONS JUNE 28, 2022

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A RESIDENCE FOR: MR. & MRS. COURTS



DATE DRAWN JUNE 10, 2022 E-1

11 OF 15

BID SET



Design Specification:

Size of Residence		3651 sq. ft.
Number of Bedrooms		3
Average Expected Flow		360 GPD
Application Rate	0.064 Gal./ft²/Day	0.064
Minimum Application Area	(GPD)/(0.064 Gal./ft²/Day)	5625.00 ft ²
Actual Application Area	3.14(r²) x number of heads	5652.00 ft ²

System Components:

Trash Tank	353 gallon one-compartment
Aeration Tank	600 gallon per day
Pump Tank	768 gallon

Pump Tank:

Pump Tank gallons per inch: 14.49"

Operating Capacity: 14.49" x 13" = 188.37 operating gallons

Reserve Capacity: 53" usable depth (53 x 14.49 = 768.00) 768.00 - 347.76 = 420.24 reserve

gallons.

Pump off	8" Above tank floor	115.92 Gallons
Pump on	21" Above tank floor	304.29 Gallons
Alarm on	24" Above tank floor	347.76 Gallons

Combined capacity of pretreatment and aeration tank is 953-gallons. A 768-gallon, single-compartment pump tank allows for a one day's flow above the alarm-on level. This system will be designed to pump on demand.

Pump and Sprinkler Head Requirements:

Pump: Ashland Pump CPM Series – 20CPM5-115 20GPM ½ H.P.

Sprinkler Head: K Rain Pro Plus with Purple Tops.

Nozzle #: **3** *LA* (Low angle trajectory, 11 degrees), operating at 35 psi, 30 ft. radius and 3.05 GPM flow per sprinkler

Dosing:

Application Flow Rate 3.05 gpm/head x 2 heads = 6.1 gpm

Application Time: 2 doses @ 180 gal/dose / 6.1 gpm = $\sim 29.51 \text{ min/dose}$

Head Requirements:

Elevation head: 6 (assumed elevation at top of pump 1120 and highest spray head at 1126)



Pressure head: 35 psi x 2.31 ft/psi = 80.85 ft.

Friction head: 1" Sch. 40 PVC @ 6.10 gpm = 3.63 ft. (170 x 3.63/100 x 1.2) = 8.712

TDH = 6 ft. + 80.85 ft. + 7.41 = 94.26 (within pump curve).

An unthreaded sampling valve must also be provided. Under the Texas Administrative Code, §285 On-Site Sewage Facilities. This system is designed to dose on demand.

Alarm System:

An audio/visual high-water alarm will be installed on this system. NuWater control panel (SPI-BIO Model 50B138-AAV-PT). The alarm/light will be installed in a high visible location close to the pump tank.

Installation Notes:

- 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 Facility's set forth in the Texas Administrative Code, δ285 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 designer and regulatory authority at least 48 hours in advance to schedule required inspections to ensure that the system is installed in accordance with the approved plans and specifications.
- The installer may not alter these plans without the approval of the designer.
- Diversion berms will be place when needed to protect irrigation area from excessive runoff.
- All electrical installation must be in compliance with applicable electric codes.
- All outside electrical components must be placed in electrical conduit.
- It is the responsibility of the installer to maintain the minimum setback requirements as stated in §285 for On-Site Sewage Facilities.

Tank Notes:

- The bottom of the excavation for the tanks shall be level and free of large rocks and debris.
- All tanks are to be set level on a layer, with a minimum thickness of 4 inches, of sand, sandy loam, clay loam, or pea gravel.
- Tank excavations must be backfilled with soil or pea gravel that is free of rock larger than ½ inch in diameter. Class IV soils and gravel larger than ½ inch in diameter are not acceptable for use as backfill material. If the top of a septic tank extends above the ground surface, soil may be mounded over the tank to maintain slope to the drain field.
- Risers are required over all tank openings and must extend to the ground surface.
- Risers shall be permanently fastened to the tank lid.
- The riser lid shall screw down and have a lock or weigh 65lbs.
- A secondary plug, cap, netting, etc. shall be provided below the riser lid.



- All openings in the tank must be properly sealed to prevent the escape of wastewater, or to prevent the infiltration of water.
- Tanks must be filled with water for 24 hours to test for leaks and structural integrity.
- The tanks must be set low enough to have fall of at least 1/8" per foot from RV pad to tank.
- PVC pipe from RV pad to tank must be at least Sch.40 or SDR 26.

Irrigation & Landscaping Notes:

- Irrigation lines shall be 1" Sch.40 PVC. Sleeve any pipe that crosses under any roads or driveways with Sch.40 PVC.
- Purple Pipe must be used for all irrigation lines.
- Supply lines must be buried at least 6" below finished grade.
- If irrigation area does not have established vegetation, a mixture of winter rye and Bermuda grasses will be seeded to establish seasonal vegetation.
- The installer shall notify property owner prior to removal of any trees that may obstruct the operation of the irrigation system.
- All exposed surface rock must be covered with at least 4" of suitable soil
- Vegetation must be established before system is in use.

Additional Notes:

- Install audio-visual alarm for aerator and pump on separate breakers.
- The high water and air compressor alarms shall be audio/visual and mounted in a place that can be easily seen and heard when the alarms are activated.
- A hose bib must be installed in pump tank at tank inspection port.
- The chlorinator must be constructed to allow a chlorine residual of 1.0 mg/1 in the pump tank for the period of time between scheduled inspections.
- The disinfected effluent must obey the standards as stated in §285, TCEQ, On-Site Sewage Facilities. Approved disinfections methods using chlorinated tablets, must use calcium hypochlorite that is properly labeled for wastewater disinfections.

Maintenance Requirements:

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

Affidavit:

- The applicant must file a certified copy of an affidavit at the County clerk's office and filed in reference to the real property deed on which the surface application system is the be installed.
- The affidavit will state that the property shall not be transferred to a new owner without:



(1) The new owner being advised that the propwastewater disposal; fice application system for

- (2) The permit issued to the previous owner of the property being transferred to the new owner in accordance with §285.20(5) of the TCEQ 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 the ownership of the OSSF had been severed from the property.
- (3) The new owners submitting a valid maintenance contract to the permitting authority.

Operation and Management Notes:

- The OSSF should not be treated as a normal city sewer.
- Water conservation practices should be used at all times. Consult your local authorities for more information.
- Run the dishwasher with a full load whenever possible
- Avoid running water continuously when brushing teeth, washing hands, or cleaning food and utensils.
- Repair any water leaks immediately, such as running toilets or leaky faucets.
- The owner is responsible for cleaning and pumping the septic tank, typically every 2 to 3 years depending on system usage.
- Do not use the toilet to dispose of tissue, feminine hygiene products, trash, cigarettes, etc.
- It is recommended that you do not use the garbage disposal and/ or garbage grinders in the facility serviced by this system.
- Household chemicals should be used in moderation.
- According to §285, no water softener will be allowed to enter the OSSF.
- Chemical additives or the so-called enzymes should not be used during the operation of this system. Some of these additives may even be harmful to the facilities operation.
- Do not build driveways, storage buildings, decks, or other structures over the tank or disposal area.
- The OSSF must be protected from coming in contact with vehicular traffic.
- A strong vegetative cover is essential for the proper operation of this system. The property owner is solely responsible for maintaining this vegetation. The irrigation area should be groomed by mowing on a regular basis.
- If you notice a problem with the spray patterns, or any of the alarms are activated, contact your maintenance provider immediately.
- Never place a greater wastewater load on your system than that prescribed by the design of the system (360 gallons per day).

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

5800 FM 32 Fischer, Texas 78623

A1 - 3-Bedroom Single-Family Residence (3651 sq. ft.).

A2 - Outdoor Kitchen 2" Sch. 40 PVC Sink Drain.

B - Proposed NuWater Model B-550- 600 GPD ATU.

C - K Rain Pro Plus, 30' Radius Sprinkler Head #3 Nozzle - 35 PSI - 3.05 GPM per Sprinkler Head.

C/O - Two-Way Cleanout

Provide Two-Way Cleanout from House to Tank. 3" or 4" Sch. 40 between House and Tank. Must maintain a minimum of 1/8" per foot of fall between house and tank.

Supply Line: 1" Sch. 40 PVC Purple Pipe

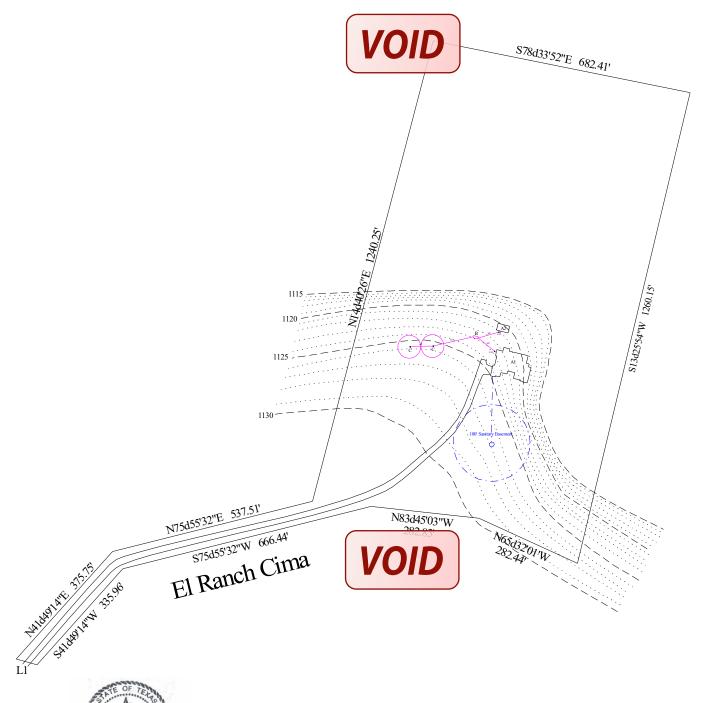
Maintain 10' from all Potable Water Lines. Maintain 20' from all Property Lines.

*Refer to Tank Detail and Design Notes for more Information.

*Plans may vary Slightly based on Conditions Encountered in the Field.

*Trim Trees as Neccessary in Application Area. Trees must maintain at least 10' from Sprinkler Head.

*All Separation and Setback Requirements as Stated in Chapter 285, TCEQ, On-Site Sewage Facilities, must be maintained.



*This is not intended to be used as an official survey. All structures and Contour locations are approximate.



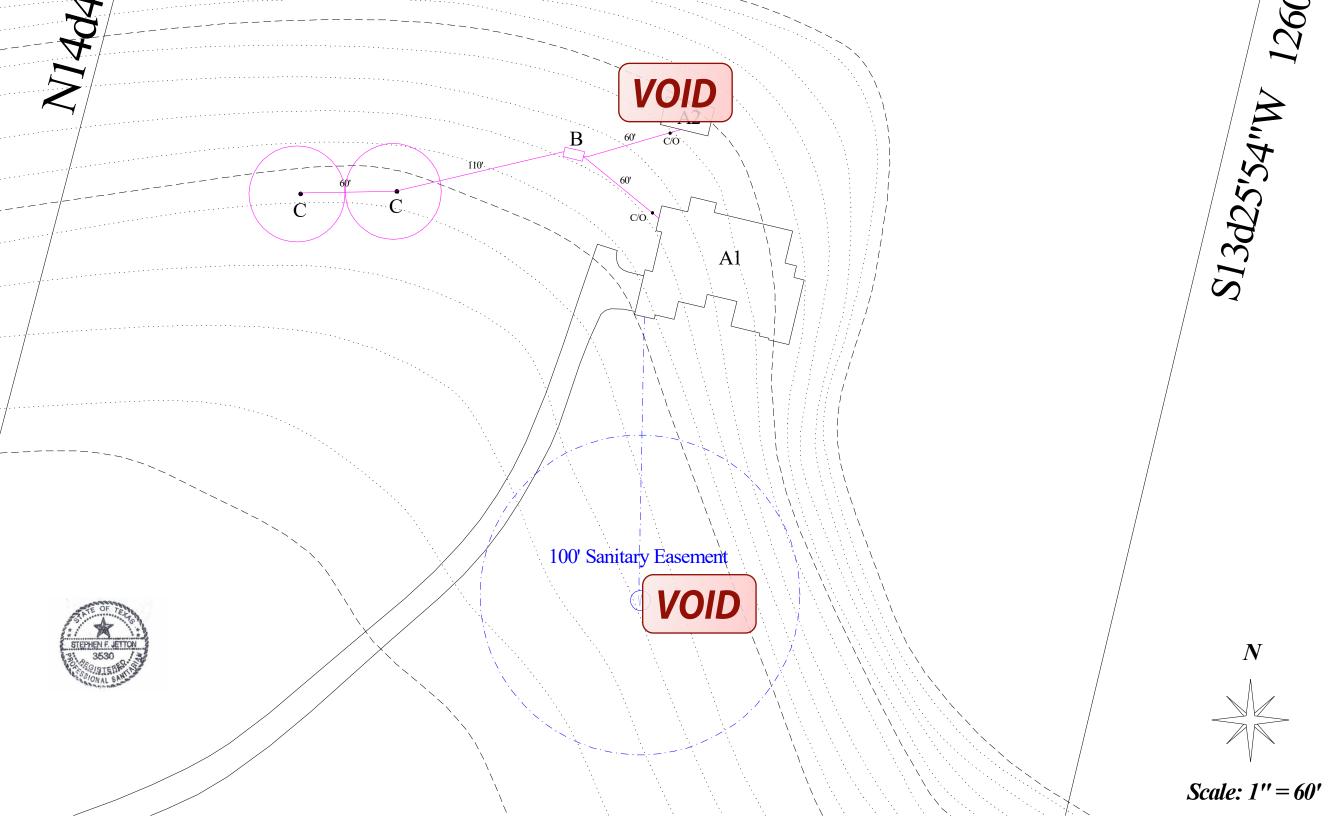
Scale: 1'' = 300'

T.C. R.R. CO. Survey Section 945 ABS No. 832

Comal County, Texas

20.59 - Acres

Flood Plain Note: This property is not within the 100-Year Flood Plain according to Map Panel No. 48091C0110F Dated 9/2/2009.



Assembly Details GENERAL NOTES: See design note Plant structure material to be precast concrete and steel. Maximum burial depth is 30" from slab top to grade. **OSSF** Weight = 14,900 lbs. Treatment capacity is 600 GPD. Pump compartment set-up for a 360 GPD Flow Rate (4 beedroom, < 4,000 sq/ft living aera). Please specify for additional set-up requirements. BOD Loading = 1.62 lbs. per day. Standard tablet chlorinator or Optional Liquid chlorinator. NSF approved chlorinators (tablet & liquid) available. 6. Bio-Robix B-550 Control Center w/ Timer for night spray application. Optional Micro Dose (min/sec)timer available for drip applications. Electrical Requirement to be 115 Volts, 60 Hz, Single Phase, 30 AMP, Grounded Receptacle. 20" Ø acess riser w/ lid (Typical 4). Optional extension risers available. 20 GPM 1/2 HP, high head effluent pump. HIBLOW Air Compressor w/ concrete housing. See Note 9. 10. 1/2" Sch. 40 PVC Air Line (Max. 50 Lft from Plant). See Note 9. 11. 1" Sch. 40 PVC pipe to distribution system provided by contractor. See Note 5. 12. 4" min. compacted sand or gravel pad by Contractor See Note 10. See Note 7. See Note 11. Inlet Flow Line **DIMENSIONS:** Outside Height: 67" Outside Width: 63" Outside Length: 164" 53"" 59" **MINIMUM EXCAVATION DIMENSIONS:** Width: 76" 560 Gal. 190 Gal. 353 Gal. Length: 176" Diffuser Bar See Note 8. See Note 12. March, 2012 - Rev 1

NuWater B-550 (600 GPD) Aerobic Treatment Plant (Assembled)

Model: B-550-PC-400PT

March, 2012 - Rev 1 By: A.S.

.

* All Dimensions subject to allowable specification

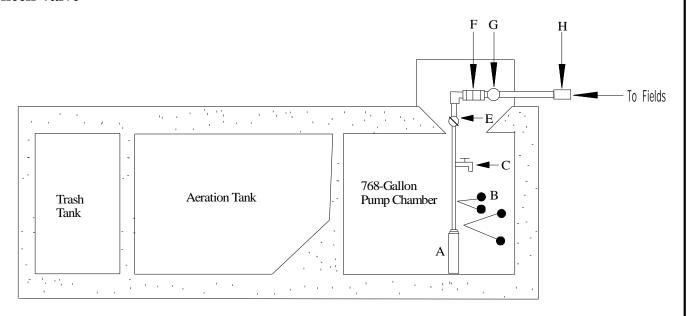
Dwg. #: ADV-B550-3



Advantage Wastewater Solutions IIc. 444 A Old Hwy No 9 Comfort, TX 78013 830-995-3189 fax 830-995-4051



- A -Ashland Pump CPM Series 20CPM5-115 20GPM 1/2HP.
- B Wide Angle Mercury Float Switch
- C Sampling Port
- E Pressure Regulator
- F Quick Disconnect Union
- G 40 PSI Pressure Guage
- H Check Valve



NuWater B-550 (600 GPD) Aerobic Treatment Plant

Not to Scale



GRAVITY FLOW Liquid Bleach Chlorinator

US Patent Pending

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P.O. Box 454 • Fayetteville, TEXAS 78940 (979) 826-0139 off.

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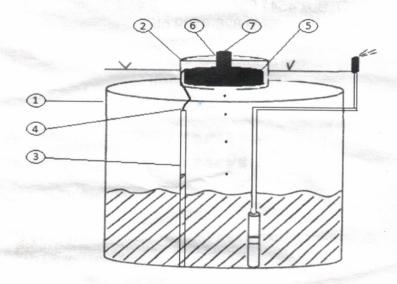


THIS PRODUCT WAS EVALUATED AS A CHLORINE DISINFECTION DEVICE AND MEETS OR EXCEEDS THE APPLICABLE REQUIREMENTS OF STANDARD 46

RECOMMENDED INSTALLATION INSTRUCTIONS



- 1. Locate the Aerobic System Holding
- 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 riser. (EZ-Tank reservoir rests on the secondary safety lid inside the holding tank access riser. If the holding tank access riser does not have a secondary safety lid, replace with new access riser 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 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.)



PROPLUS" GEAR DRIVEN SP



ETTING INSTRUCTIONS

SPRINKLER INSTALLATION

INSTALL AND BURY

Do not use pipe dope. Thread the sprinkler on the pipe. Bury the sprinkler flush to grade. NOTE: Gear driven sprinklers and pop-up sprays should not be installed on the same watering zone.

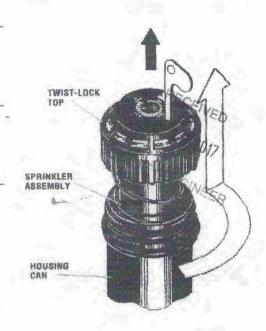
2 INSPECTING THE FILTER

Unscrew the top and lift the complete sprinkler assembly out of the housing can. The filter is located on the bottom of the sprinkler assembly and can easily be pulled out, cleaned and re-installed.

WINTERIZATION TIPS

When using an air compressor to remove water from the system please note the following:

- 1) Do not exceed 30 PSI.
- 2) Always introduce air into the system gradually to avoid air pressure surges. Sudden release of compressed air into the sprinkler can cause damage.
- 3) Each zone should run no longer than 1 minute on air. Sprinklers turn 10 to 12 times faster on air than on water. Over spinning rotors on air can cause damage to the internal components.



STANDARD NOZZLE PERFORMANCE

		.8.				METRIC		
Nozzie	Pressure PSI	Radiua	Flow GPM	Pres KPa	Sure Bars	Radius Meters	FII L/M	3₩ M³/I
#2.5 Factory Installed Nozzle	30 40 59 60	38' 39' 40' 41'	2.5 2.8 3.2 3.6	206 275 345 413	2.04 2.72 3.40 4.08	11.6 11.9 12.2 12.5	9.46 10.60 12.11 13.25	.57 .64 .73
#0.5	30 40 50 80	28' 29' 29' 30'	0.5 0.6 0.7 0.8	206 275 345 413	2.0 3.0 3.5 4.0	8.5 8.8 8.8 9.1	1.89 2.27 2.65 3.03	.11 .14 .16
10.75	30	29'	0.7	206	2.0	8.8	2.65	.16
	40	30'	0.8	275	3.0	9.1	3.03	.18
	50	31'	0.9	345	3.5	9.4	3.41	.20
	60	32'	1.0	413	4.0	9.8	3.79	.23
#	30	32'	1.3	206	2.0	9.8	4.92	.14
	40	33'	1.6	275	3.0	10.1	5.68	.18
	50	34'	1.8	345	3.5	10.4	6.05	.20
	60	35'	1.8	413	4.0	10.7	6.81	.23
#2	30	37*	2.4	206	2.0	11.3	9.08	.54
	40	40'	2.5	275	3.0	12.2	.9:46	.58
	50	42'	3.0	345	3.5	12.8	11.35	.68
	60	43'	3.3	413	4.0	13.1	12.49	.73
10	30	38°	3.5	206	2.0	11.6	13.63	.73
	40	39°	4.2	275	3.0	11.9	15.89	.93
	50	41°	4.6	345	3.3	12.5	17.41	1.04
	80	42°	5.0	413	4.0	12.8	18.92	1.13
**	30 40 50 60	43' 44' 46' 49'	4.4 5.1 5.6 5.9	206 275 345 413	2.0 3.0 3.5 4.0	13.1 13.4 14.0 14.9	16.65 19.30 21.19 22.33	1.18 1.27 1.33
16	40	45'	5.9	206	3.0	13.7	22.33	1.33
	50	46'	6.0	275	3.5	14.0	22.71	1.31
	60	48'	6.3	345	4.0	14.6	23.85	1.43
	70	49'	6.7	413	5.0	14.9	25.35	1.53
#8	48	42'	8.6	206	3.0	12.8	30.28	1.87
	50	45'	8.5	275	3.5	13.7	92.12	1.92
	60	49'	9.5	345	4.0	14.8	35.95	2.13
	70	50'	10.0	413	5.0	15.3	97.85	2.27

LOW ANGLE NOZZLE PERFORMANCE

	U	.S.				METRIC		
Nozzie	Pressure PSI	Radius R.	Flow GPM	Pro: KPa	Bars	Pindiua Meters	LM	OW MPVH
/ 1	30	22'	1.2	207	2.04	6.71	4.54	.34
	40	24'	1.7	275	2.72	7.32	5.43	.39
	50	26'	1.8	344	3.40	7.92	6.80	.41
	60	28'	2.0	413	4.08	8.53	7.56	.46
#3	30	29'	3.0	207	2.04	8.84	11.34	.68
	40	32'	3.1	275	2.72	9.75	11.72	.71
	58	35'	3.5	344	3.40	10.67	13.23	.80
	60	37'	3.8	413	4.08	11.58	14.36	.87
#4	30	31'	3.4	207	2.04	9.45	12.85	.78
	40	34'	3.9	278	2.72	10.36	14.74	.89
	50	37'	4.4	344	3.40	11.28	16.63	1.00
	60	38'	4.7	413	4.08	11.58	17.77	1.07
#6 ·	40	38'	8.5	275	2.72	11.58	24.57	1.68
	50	40'	7.3	344	3.40	12.19	27.59	1.76
	60	42'	8.0	413	4.08	12.80	30.24	1.82
	70	44'	8.6	482	4.76	13.41	32.51	1.96

Data represents test results in zero wind for ProPlus. Adjust for local conditions. Radius may be reduced with nozzle retention screw.



K-RAIN MANUFACTURING CORP.

1640 Australian Avenue Riviera Beach, FL 33404 USA PH: 1-561-844-1002 / 1-800-735-7246 FAX: 1-561-842-9493

WEB: http://www.krain.com

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CISTERN PUMPS

CPM Series



Ashland Pump - CPM Series

The Ashland Pump CPM Series is designed to operate in filtered effluent/gray water applications. The bottom suction design allows for maximum drawdown of fluid and the hydraulic stages are able to pass 1/8" solids without damage to the pump.

Installations in cistern tanks, rain basin catchments or anywhere drawdown levels need to be maximized are ideal applications for the Ashland Pump CPM Series.

APPLICATIONS

- · Filtered Effluent Water Pumping
- Gray Water Pumping
- Water Feature / Aeration Applications
- Rain Water Basin Applications

FEATURES

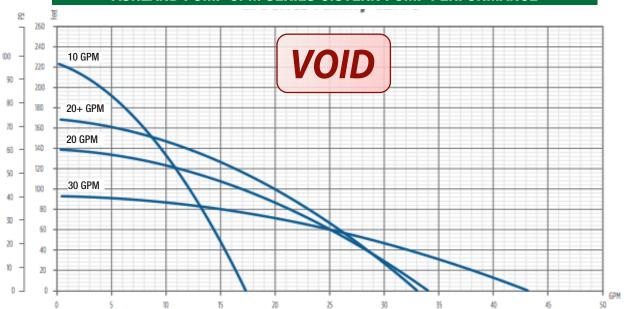
- Bottom suction design for maximum drawdown
- Able to pass 1/8" solids
- Available in 10, 20 and 30 GPM flow rates
- ½ HP, 115V and 230V single phase motors
- Heavy duty discharge with stainless steel internal threads
- · 600 Volt, 10' SJ00W jacketed lead
- High shut-off pressure
- Quiet operation
- Standard removable base for stable mounting

ORDERING INFORMATION

CPM SERIES CISTERN PUMP							
Model/Order No.	GPM	HP	Voltage/Ph.	Stage Count	Length (in.)	Shipping Wt. (lbs.)	
10CPM5-115	10		115/1	7	26	17	
10CPM5-230	10		230/1	7	26	17	
20CPM5-115	20		115/1	5	25	16	
20CPM5-230	20	1/2	230/1	5	25	16	
20+CPM5-115	20+		115/1	6	26	17	
20+CPM5-230	20+		230/1	6	26	17	
30CPM5-115	30		115/1	4	25	16	
30CPM5-230	30		230/1	4	25	16	



ASHLAND PUMP CPM SERIES CISTERN PUMP PERFORMANCE





Honest, Professional, Dependable

1899 Cottage Street, Ashland, Ohio 44805 Telephone: 855 281-6830 • Fax: 877 326-1994 • ashlandpump.com 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.

CORRECTION WARRANTY DEED THIRD PARTY VENDOR'S LIEN

DATE: January 14, 2022

GRANTOR: RANCHES AT SENTINEL PEAK, LLC

A TEXAS LIMITED LIABILITY COMPANY

GRANTEE: DONNA A. COURTS AKA DONNA COURTS AKA DONNA

ANN COURTS, and husband, ROYCE D. COURTS AKA

ROYCE COURTS AKA ROYCE DEAN COURTS Address: 440 Toro Pass, Wimberly, TX 78676

CONSIDERATION: TEN AND NO/100 DOLLARS (\$10.00), and other good and valuable consideration, including a Note of the same date in the principal amount of EIGHT HUNDRED FIFTY THOUSAND AND NO/100 Dollars (\$850,000.00) (the "note") and is executed by Grantee, payable to the order of CLASSIC BANK, NATIONAL ASSOCIATION (the "Lender"). The Note is secured by a first and superior Vendor's Lien and the Superior Title herein retained in favor of Grantor and assigned and conveyed without recourse to Lender in this Deed and by a Deed of Trust of even date from Grantees to RICHARD EARL WILLIAMS, JR., as Trustee.

THE FOLLOWING PROPERTY OWNED BY GRANTOR (including any improvements):

A 20.59 acre tract of land, located in the C.D. Roberston Survey No. 999, Abstract No. 982, the T.C.R.R. Co. Survey Section No. 946, Abstract No. 936, and the T.C.R.R. Co. Survey Section No. 945, Abstract No. 832, Comal County, Texas; and being a portion of a called 430.984 acres of land as described in Document No. 202106029019, Official Public Records, Comal County, Texas; said 20.59 acre tract, more or less, being more particularly described by metes and bounds on Exhibit "A" attached hereto.

Together with all improvements thereon, if any, and all rights, privileges, tenements, hereditaments, rights of way, easements, appendages and appurtenances, in anyway appertaining thereto, and all right, title and interest of Grantor in and to any streets, ways, alleys, strips or gores of land adjoining the above described property or any part thereof (hereinafter referred to as the "Property").

RESERVATIONS FROM CONVEYANCE: The first and superior vendor's lien and superior title to secure payment of the Note.

GRANTOR:

RANCHES AT SENTINEL PEAK, LLC A TEXAS LIMITED LIABILITY COMPANY

Michael Clinard, Manager

THE STATE OF TEXAS	§	
COUNTY OF 1445	§ §	
This instrument was a Clinard, the Manager of RAN behalf of said limited liability	CHES AT SENTINEL PEAK, LLC, a Texas limited liability co	by Michae отрапу, ог
	Notary Public, State of Texas	
My Notary Expires O	NEY ZUNIGA ID # 132745920 ctober 26, 2024	

EXCEPTIONS TO CONVEYANCE AND WARRANTY:

Liens described herein as part of the Consideration and any other liens described in this deed as being either assumed or to which title is taken subject to; validly existing easements, rights of way which are recorded and of record; and taxes for the current year and subsequent years, which Grantee assumes and agrees to pay and subsequent assessments for the current year 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 Exceptions to Conveyance and Warranty, grants, sells, and conveys to Grantee the property, together with all and singular the rights and appurtenances thereto in any wise belonging, to have and hold it to Grantee, Grantee's heirs, executors, administrators, successors, or assigns forever. Grantor hereby binds Grantor and Grantor's heirs, executors, administrators, and successors to warrant and forever defend all and singular the property to Grantee and Grantee's heirs, executors, administrators, 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 Exceptions to Conveyance and Warranty.

4,

The Lender, at Grantees request, has paid in cash to Grantor the portion of the purchase price of the Property that is evidenced by the Note. The First and Superior Vendor's Lien against the superior title to the Property are retained for the benefit of the Lender and are transferred to the Lender without recourse against Grantor.

When this Deed is executed by one person, or when the Grantee is one person, the instrument shall read as though pertinent verbs and pronouns were changed to correspond, and when executed by or to a corporation the words "heirs, executors, administrators" or "heirs and assigns" shall be construed to mean "Successors and Assigns".

CORRECTION

This Correction Warranty Deed Third Party Vendor's Lien (this "Deed") is made as a correction deed in substitution of the deed titled Warranty Deed Third Party Vendor's Lien ("Corrected Deed") executed January 14, 2022 and recorded January 18, 2022 under Instrument Number 202206002747 of the Official Public Records of Comal County, Texas, to correct an incorrect description of the Property. The basis for the undersigned's personal knowledge of the facts relevant to the correction is the recollection of such facts by the undersigned, as an officer of Grantor. Other than the stated correction, this Deed is intended to restate in all respects the Corrected Deed, and the effective date of this Deed relates back to the effective date of the Corrected Deed.

Dated as first written above.

[Remainder of page left blank; Signature page follows]

- from the state of the state o
Royce Courts
THE STATE OF TEXAS §
COUNTY OF HAUS §
This instrument was acknowledged before me on, 2022, by Donna
Courts.
allle
Notary Public, State of Texas
[Seal] AMANDA ISCHY My Notary ID # 130330220
Expires August 16, 2623
·
THE STATE OF TEXAS §
n s
COUNTY OF AMUS §
2/2/
This instrument was acknowledged before me on, 2022, by Royce
Courts.
CillScher
Notary Public, State of Texas
[Seal] AMANDA ISCHY
My Notary ID # 130330220
Expires August 14, 2623
A CONTRACTOR OF THE PROPERTY O

GRANTEE:

Donna Courts

EXHIBIT "A" Description of Property



FIELD NOTES FOR A 20.59 ACRE TRACT OF LAND

A 20.59 acre tract of land, located in the C. D. Robertson Survey No. 999, Abstract 982, the T.C. R.R. Co. Survey Section No. 946, Abstract No. 936, and the T.C. R.R. Co. Survey Section No. 945, Abstract No. 832, Comal County Texas, and being a portion of a called 430.984 acre tract of land as described of record in Document No. 202106029019 of the Official Records of Comal County, Texas. Said 20.59 acre tract being more particularly described by metes and bounds as follows:

BEGINNING at a set 1/2" iron rod with a red plastic cap stamped "Matkin-Hoover Eng. & Survey" in the south line of a called 533,144 acre tract of land as described of record in Document No. 201905042461 of the Official Public Records of Comal County, Texas, a north line of said 430,984 acre tract and for the northwest corner of the tract described herein. from which a found 6" cedar fence post at the southeast corner of a called 260.08 acre tract of land as described of record in Document No. 201106008793 of the Official Public Records of Counal County, Texas, for the southwest corner of said 533.144 acre tract and for a northerly angle point of said 430.984 acre tract bears, N 78° 33' 52" W, a distance of 2036.86

THENCE: S 78° 33° 52" E, with the south line of said 533.144 acre tract and a north line of said 430,984 acre tract, a distance of 682.41 feet to a set "" iron rod with a red plastic cap stamped "Matkin-Hoover Eng. & Survey" for the northeast comer of the tract described herein, from which a found 1/2" iron rod with a yellow cap in the west right-of-way line of a 60° Wide Right-of-Way Easement as described of record in Document No. 202006059428 of the Official Public Records of Comal County, Texas, at the southeast corner of said 533.144 acre tract and for the northeast corner of said 430.984 acre tract bears, S 78° 33" 52" E, a distance of 2126.01 feet

THENCE: Into said 430.984 acre tract the following nine (9) courses:

- 1. S 13° 25' 54" W, a distance of 1260.15 feet to a set 1/2" from rod with a red plastic cap stamped "Matkin-Hoover
- Eng. & Survey" for the southeast comer of the tract described herein,
 2. N 65° 32' 01" W, a distance of 282.44 feet to a set ½" from rod with a red plastic cap stamped "Makin-Hoover
- Eng. & Survey" for angle.

 3. N 83° 45' 03" W, a distance of 282.83 feet to a set 1/2" iron rod with a red plastic cap stamped "Matkin-Hoover
- Eng. & Survey" for angle.

 4. S 75° 55' 32" W, a distance of 666.44 feet to a set "iron rod with a red plastic cap stamped "Matkin-Hoover Eng. & Survey" for angle.

 5. S 41° 49° 14" W, a distance of 335.96 feet to a set ½" from rod with a red plastic cap stamped "Matkin-Hoover
- Eng. & Survey" for the most southerly southeast comer of the tract described herein,

 6. N 74° 14° 48" W, a distance of 55.66 feet to a set "2" iron rod with a red plastic cap stamped "Matkin-Hoover
- Eng. & Survey" for a southwest corner of the tract described herein,
- 7. N 41° 49' 14" E, a distance of 375.75 feet to a set 1/2" iron rod with a red plastic cap stamped "Matkin-Hoover
- Eng. & Survey" for angle,

 8. N 75° 55' 32" E, a distance of 537.51 feet to a set ½" fron rod with a red plastic cap stamped "Matkin-Hoover
- Eng. & Survey" for angle, and
 9. N 14° 40' 26" E, a distance of 1240.25 feet to the POINT OF BEGINNING and containing 20.59 acres of land situated in Comal County, Texas.

Note: The basis of bearing was established using the Trimble VRS Network, NAD (83), Texas State Plane Coordinate System, South Central Zone, 4204, US Surger From Grid. A survey plat was prepared by a separate document. Field work performed on September 7, 2021

Job # 21-4080 - 20.59 Acres

Date: December 28, 2021

Revised: February 15, 2022

Official Public Records Bobbie Koepp, County Clerk Comal County, Texas

Filed and Recorded

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Bobbie Koepp

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KYLESC PRESSLER

WASTEWATER TREATMENT FAC oyce COURTS Block Creek Aerobic Services, LLC 5800 Fm 32 444 A Old Hwy #9 Zip 78623 Comfort, TX 78013 Mailing Address PO BOX 3108 Off.(830) 995-3189 County Compl Fax. (830) 995-4051 560-6198 Phone 5/2 Email & PACLACE & SBC G-TOBAL, NET I General: This Work for Hire Agreement (hereinafter referred to as "Agreement") is entered into by and between (hereinafter referred to as "Customer") and Block Creek Aerobic Service, LLC. By this agreement, Block Creek Aerobic Service, LLC and its employees (hereinafter inclusively referred to as "Contractor") agree to render services at the site address stated above, as described herein, and the Customer agrees to fulfill his/her/their responsibilities, as described herein. II. Effective Dates: This Agreement commences on for a total of two (2) years (initial agreement) or one (1) year (there after). If this is an initial agreement (new installation), the Customer will notify the Contractor within two (2) business days of the system's first use to establish the date of commencement. If no notification is received by Contractor within ninety (90) days after completion of installation or where county authority mandates, the date of commencement will be the date the "License to operate" (Notice of Approval) was issued by the permitting authority. This agreement may or may not commence at the same time as any warranty period of installed equipment, but in no case shall it extend the specified warranty. III. Termination of Agreement: This Agreement may be terminated b either party with thirty (30) days written notice for any reason, including for example, substantial failure to perform in accordance with its terms, without fault or liability of the terminating party. If this Agreement is so terminated, Contractor will be paid at the rate of \$75.00 per hour for any work performed and for which compensation has not been received. After the deduction of all outstanding charges, any remaining monies from prepayment for services will be refunded to customer within thirty (30) days. Either party terminating this Agreement for any reason, including non-renewal, shall notify in writing the equipment manufacturer and the appropriate regulatory agency a minimum of thirty (30) days prior to the date of such termination. Nonpayment of any kind shall be considered breach of contract and a termination of contract. Our sensition of contract and a termination of contract. IV. Services: Contractor will: a. Inspect and perform routine upkeep on the On-Site Sewage Facility (hereinafter referred to as OSSF) as recommended by the treatment system manufacturer, and required by state and/or local regulation, for a total of three visits to site per year. b. Provide a written record of visits to the site by means of an inspection tag attached to or contained in the control panel. c. Repair or replace, if Contractor has necessary materials at site, any component of the OSSF to be failing or inoperative during the course of a routine monitoring visit. If such services are not covered by warranty, and services costs are \$100.00, or less. Customer hereby authorizes Contractor to perform the service and bill Customer for said service. When service costs are greater than \$100.00, or if contractor does not have necessary supplies at the site. Contractor will notify Customer of required service(s) and associated cost(s). Customer must notify Contractor of arrangements to affect repair of system with two (2) business days after said notification. d. Provide sample collection and laboratory testing of TSS and BOD on a yearly basis (commercial systems only). e. Forward copies of this Agreement and all reports to the regulatory agency and the Customer. f. Visit site in response to Customer's request for unscheduled services within forty-eight (48) hours of the date of notification (weekends and holidays excluded) of said request. Unless otherwise covered by warranty, costs for such unscheduled responses will be billed to Customer. Not required XX required. The responsibility to maintain the disinfection device(s) and provide any V. Disinfection: (Initial) run is the second of the second of the second more after a make necessary chemicals is that of the Customer. V. Electronic Monitoring is not included in this Agreement. VI. Performance of Agreement: Commencement of performance by Contractor under this Agreement is contingent on the following conditions: a. If this is an initial Agreement (new installation): i. Contractor's receipt of a fully executed original copy or facsimile of this agreement and all documentation requested by ii. Contractor's receipt of payment of the wastewater-monitoring fee in accordance with the terms as described in Section XIV of this Agreement. b. If this is not an initial Agreement (existing system): i. Contractors receipt of a fully executed original copy or facsimile of this agreement and all documentation requested by Contractor. ii. Contractor's receipt of payment of the wastewater-monitoring fee in accordance with the terms as described in Section XIV of

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

VII. Customer's Responsibilities: The customer is responsible for each and all of the following:

Permit/License Number

Regulatory Authority

this Agreement.



a. Provide all necessary yard or lawn maintenance; animals, vehicles, trees, brush, trash, or debris, as no and easy access to all parts of the OSSF.

b. Protect equipment from physical damage including but not limited to that damage caused by insects.

c. Maintain a current license to operate, and abide by the conditions and limitation of that license, and all requirements for and OSSF from the State and/or local regulatory agency, whichever are more stringent, as well as proprietary system's manufacturer recommendations.

cles, including but not limited to dogs and other

F to function properly, and to allow Contractor safe

- d. Notify Contactor immediately of any and all alarms, and/or any and all problems with, including failure of, the OSSF.
- e. Provide, upon request by Contractor, water usage records for evaluation by Contractor as to the performance of the OSSF.
- f. Allow for samples at both the inlet and outlet of the OSSF to be obtained by Contractor for the purpose of evaluation the OSSF's performance. If these samples are taken to a laboratory for testing, with the exception of the service provided under Section V. sub-section d. above. Customer agrees to pay contractor for sample collection and transportation, portal to portal, at a rate of \$35.00 per hour, plus the associated fees for laboratory testing,

g. Prevent the backwash or flushing of water treatment or conditioning equipment from entering the OSSF.

- h. Prevent the condensation from air conditioning or refrigeration units, or the drains of icemakers, from hydraulically overloading the acrobic treatment units. Drain lines may discharge into the surface application pump tank if approved by system designer.
- i. Provide for pumping and cleaning of tanks and treatment units, when and as recommended by Contactor, at Customer's expense.
- j. Maintain site drainage to prevent adverse effects on the OSSF.
- k. Pay promptly and fully, all Contractor's fees, bills, or invoices as described herein.
- X. Access by Contractor: Contractor is hereby granted an easement to the OSSF for the purpose of performing services described herein. Contractor may enter the property during Contractor's normal business hours and/or other reasonable hours without prior notice to Customer to perform the Services and/or repairs described herein. Contractor shall have access to the OSSF electrical and physical components. Tanks and treatment units shall be accessible by means of man ways, or risers and removable covers, for the purpose of evaluation as required by State and/or local rules and the proprietary system manufacturer. Initial ______ It is customers responsibility to keep lids exposed and accessible at all times

VIII. Limit of Liability: Contractor shall not be held liable for any incidental, consequential, or special damages, or for economic loss sue to expense, or for loss of profits or income, or loss of use to Customer, whether in contract tort or any other theory. In no event shall Contractor be liable in an amount exceeding the total Fee for Services amount paid by Customer under this Agreement.

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

X. Fee for Services: The fee does not include any equipment, material, or labor necessary for non-warranty repairs or for unscheduled inspections. Customer requested visits to the site.

XI. Payment: Full amount due upon signature (Required of new Customer). Payment of invoice(s) for any other service or repair provided by contractor in due upon receipt of invoice. Invoices are mailed on the date of invoice. All payments not received within thirty (30) days form the invoice date will be subject to a \$29.00 late penalty and a 1.5% per month carrying charge, as well as any reasonable attorney's fees, and all collection and court costs incurred by Contractor in collection of unpaid debt(s). Contractor may terminate contract at any time for nonpayment for services. Any check returned to Contractor for any reason will be assessed a \$30.00 return check fee.

XII. Application or Transfer of payment: The fees paid for this agreement may transfer to the subsequent property owner(s); however this Agreements not transferable. Customer will advise subsequent property owner(s) of the state requirement that they sign a replacement agreement authorizing Contractor to perform the herein described Services, and accepting Customer's Responsibilities. This replacement Agreement must be signed and received in Contractor's offices within ten (10) business days of date of transfer of property ownership. Contractor will apply all funds received from Customer first to any past due obligation arising from this Agreement including late fees or penalties, return check fees, and/or charges for services or repairs not paid within thirty (30) days of invoice date.

Any remaining monies shall be applied to the funding of the replacement Agreement. The consumption of funds in this manner may cause a reduction in the termination date of effective coverage per this Agreement. See Section IV.

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

lock Creek Aerobic Service MC# 0000042 MC#0000002 Customer Signature Date

Burt I didustra





OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

	17 Marin 18 (17)		115449
	Date Received	Initials	Permit Number
Instructions:			
Place a check mark next to all items that apply. For items Checklist <u>must</u> accompany the completed application.	s that do not apply, plac	ce "N/A". This	; OSSF Development Application
OSSF Permit			£.
Completed Application for Permit for Authorization to	o Construct an On-Site	Sewage Fac	cility and License to Operate
Site/Soil Evaluation Completed by a Certified Site E	valuator or a Professio	nal Engineer	
Planning Materials of the OSSF as Required by the of a scaled design and all system specifications.	TCEQ Rules for OSSF	Chapter 285	5. Planning Materials shall consi
Required Permit Fee - See Attached Fee Schedule			
Copy of Recorded Deed			
Surface Application/Aerobic Treatment System			
Recorded Certification of OSSF Requiring Ma	intenance/Affidavit to t	he Public	
Signed Maintenance Contract with Effective D	ate as Issuance of Lice	ense to Oper	ate
I affirm that I have provided all information required f constitutes a completed OSSF Development Applicat		ment Applic	ation and that this application
Signature of Applicant		11-4	-2022
COMPLETE APPLICATION Check No Receipt No	—— (Mi		LETE APPLICATION circled, Application Refeused)