staller Name:	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)					
5	SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends)		285.32(a)(5)					
6	PRETREATMENT Installed (if required) TCEQ Approved List PRETREATMENT Septic Tank(s) Meet Minimum Requirements		285.32(b)(1)(G) 285.32(b)(1)(E)(iii) 285.32(b)(1)(E)(iv) 285.32(b)(1)(F) 285.32(b)(1)(B) 285.32(b)(1)(C)(i) 285.32(b)(1)(C)(ii) 285.32(b)(1)(D) 285.32(b)(1)(E) 285.32(b)(1)(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)					
7	PRETREATMENT Grease Interceptors if required for commercial		285.34(d)					

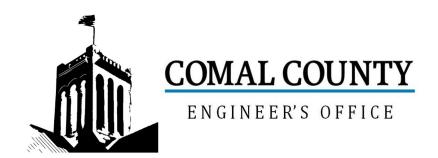
**Inspector Notes:** 

N-	December 41	A may	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.
	DISPOSAL SYSTEM Drip Irrigation	Allowei	Citations	Notes	13t 1113p.	Ziiu iiisp.	Sid ilisp.
	DIST COAL STOTENT DITP ITTIGATION		20E 22(a)(2)(A) (E)				
			285.33(c)(3)(A)-(F)				
19	DISPOSAL SYSTEM Soil						
20	Substitution		285.33(d)(4)				
20	DISPOSAL SYSTEM Pumped						
	Effluent		285.33(a)(4) 285.33(a)(3)				
			285.33(a)(1)				
21			285.33(a)(2)				
	DISPOSAL SYSTEM Gravelless Pipe						
	·		285.33(a)(3)				
			285.33(a)(2)				
			285.33(a)(4)				
22			285.33(a)(1)				
22	DISPOSAL SYSTEM Mound		205 22/ 1/51				
			285.33(a)(3) 285.33(a)(1)				
			285.33(a)(1) 285.33(a)(2)				
23			285.33(a)(4)				
23	DISPOSAL SYSTEM Other						
	(describe) (Approved Design)		285.33(d)(6) 285.33(c)(4)				
24			263.33(C)(4)				
	DRAINFIELD Absorptive Drainline 3" PVC						
	or 4" PVC						
25							
	DRAINFIELD Area Installed						
26	DRAINFIELD Level to within 1 inch						
	per 25 feet and within 3 inches						
	over entire excavation		285.33(b)(1)(A)(v)				
27							
	DRAINFIELD Excavation Width DRAINFIELD Excavation Depth						
	DRAINFIELD Excavation Separation						
	DRAINFIELD Depth of Porous Media						
	DRAINFIELD Type of Porous Media						
28	DDAINEIEID E						
	DRAINFIELD Pipe and Gravel - Geotextile Fabric in Place		285.33(b)(1)(E)				
29			(-/\-/\-/				
	DRAINFIELD Leaching Chambers DRAINFIELD Chambers - Open End						
	Plates w/Splash Plate, Inspection						
	Port & Closed End Plates in Place		285.33(c)(2)				
	(per manufacturers spec.)						
30							
	LOW PRESSURE DISPOSAL						
	SYSTEM Adequate Trench Length						
	& Width, and Adequate Separation Distance between		285.33(d)(1)(C)(i)				
	Trenches						
31							

	O331 Hispection Sheet						
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
	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)				
34	AEROBIC TREATMENT UNIT Inspection/Clean Out Port & Risers Provided AEROBIC TREATMENT UNIT Secondary restraint system provided AEROBIC TREATMENT UNIT Riser permanently fastened to lid or cast into tank AEROBIC TREATMENT UNIT Riser cap protected against unauthorized intrusions						
35	AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place.						
36	PUMP TANK Is the Pump Tank an approved concrete tank or other acceptable materials & construction PUMP TANK Sampling Port Provided in the Treated Effluent Line PUMP TANK Check Valve and/or Anti- Siphon Device Present When Required PUMP TANK Audible and Visual High Water Alarm Installed on Separate Circuit From Pump						
	PUMP TANK Inspection/Clean Out Port & Risers Provided PUMP TANK Secondary restraint system provided PUMP TANK Riser permanently fastened to lid or cast into tank PUMP TANK Riser cap protected against unauthorized intrusions						
38	PUMP TANK Secondary restraint system provided						
	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: 116772

Issued This Date: 05/09/2024

This permit is hereby given to: Nicole Hamilton

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

2615 LIONS DEN

NEW BRAUNFELS, TX 78132

Subdivision: Havenwood at Hunters Crossing

Unit: 1

Lot: 94

Block: NA

Acreage: 1.0300

### APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic

Surface Irrigation

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

Call (830) 608-2090 to schedule inspections.

# RECEIVED

By Kathy Griffin at 3:12 pm, Oct 09, 2023



# OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

H4F33

Date Received Initials Permit Number
116772

	110//2
Instructions:  Place a check mark next to all items that apply. For items that do not Checklist must accompany the completed application.	apply, place "N/A". This OSSF Development Application
OSSF Permit	
Completed Application for Permit for Authorization to Construct	an On-Site Sewage Facility and License to Operate
Site/Soil Evaluation Completed by a Certified Site Evaluator or	a Professional Engineer
Planning Materials of the OSSF as Required by the TCEQ Rule of a scaled design and all system specifications.	es for OSSF Chapter 285. Planning Materials shall consis
Required Permit Fee - See Attached Fee Schedule	
Copy of Recorded Deed	
Surface Application/Aerobic Treatment System	
Recorded Certification of OSSF Requiring Maintenance/	Affidavit to the Public
Signed Maintenance Contract with Effective Date as Issu	uance of License to Operate
I affirm that I have provided all information required for my OSS	6F Development Application and that this application
constitutes a completed OSSF Development Application.	
Manual Signature of Applicant	9   2 Z   Date
COMPLETE APPLICATION  Check No Receipt No	INCOMPLETE APPLICATION  (Missing Items Circled, Application Refeused)
	Revised: September 2019





# **ON-SITE SEWAGE FACILITY APPLICATION**

195 DAVID JONAS DR NEW BRAUNFELS, TX 78132 (830) 608-2090

WWW.CCLO.ORG

Date	March 7, 2025		Permit Nu	ımber	172
1. APPLICANT	AGENT INFORMATION				
Owner Name	NICHOLAS MATTHEW HAMILTON & NICOLE LEEANN HAMILTON	Agent Name	GI	REG W. JOHN	SON, P.E.
Mailing Address	2615 LIONS DEN	Agent Address		170 HOLLOW	
	NEW BRAUNFELS, TX 78132	City, State, Zip	NEV	V BRAUNFEL	
Phone #	512-262-8688	Phone #		830-905-2	
Email	nicolelm.hamilton@gmail.com	Email	gre	gjohnsonpe@ y	
2. LOCATION		•		<u> </u>	
Subdivision Na	me HAVENWOOD AT HUNTERS CR	ROSSING Ur	nit I	Lot 94	Block
	Abstract Number			Acreage	
	2615 LIONS DEN				
3. TYPE OF DE					
Single Fa	mily Residential				
	Construction (House, Mobile, RV, Etc.)	EXISTING HOUS	Ε		
	of Bedrooms 4				
Indicate S	Sq Ft of Living Area 2980				
	e Family Residential				
	materials must show adequate land area for doubling	g the required land need	ed for treatme	ent units and dis	sposal area)
	acility				,
	actories, Churches, Schools, Parks, Etc Indi		pants		
	nts, Lounges, Theaters - Indicate Number of S	4-			
	otel, Hospital, Nursing Home - Indicate Number				
	aller/RV Parks - Indicate Number of Spaces				
Miscellan					
Estimated Co	st of Construction: \$EXISTING	(Structure Only)			
	of the proposed OSSF located in the United S	• •	ingineere (I	ISACE) flower	
☐ Yes 🏹	No (If yes, owner must provide approval from USACE f			-	
<u>الما ما الما</u>	ter Public Private Well Public			ING CONCE HOMB	se easement)
4. SIGNATURE		Transmater o	Onection		
By signing this app - The completed a	plication, I certify that: pplication and all additional information submitted d	loes not contain any falso	e information	and does not co	onceal any material
property.	at I am the property owner or I possess the appropri hereby given to the permitting authority and designa				
site/soil evaluation - I understand that	on and inspection of private sewage facilities  It a permit of authorization to construct will not be issounty Flood Damage Prevention Order.				• •
- I affirmatively co	nsent to the online posting/public release of my e-m	ail address associated w	ith this permi	t application, as	applicable.
ynsa	y h roele than	101	rch 7, 2025		
Signature of C	lwner	Date			Dage 1 of

### HAVENWOOD AT HUNTERS CROSSING, UNIT 1, LOT 94

COMALCOUNTY ENGINEER'S OFFICE

## **ON-SITE SEWAGE FACILITY APPLICATION**

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

Planning Materials & Site Eval	uation as Required (	Completed By				
System Description	PROPRIETARY;	AEROBIC TREA	TMENT AND	SURFACE IRRIC	GATION	
Size of Septic System Require	d Based on Planning	Materials & Soil E	valuation			
Tank Size(s) (Gallons)	PRO-FLO MODE	L 5060, 600 GPD	Absorpti	on/Application Area	a (Sq Ft)	4859
Gallons Per Day (As Per TCEQ	Table 111)	300				
(Sites generating more than 5000	gallons per day are red	quired to obtain a per	mit through TCE	Q.)		
Is the property located over the	Edwards Recharge	Zone? Yes	No No			-
(if yes, the planning materials mus	t be completed by a R	egistered Sanitarian	R.S.) or Professi	onal Engineer (P.E.))		
Is there an existing TCEQ appr	roved WPAP for the	property? Yes	⊠ No			
(if yes, the R.S. or P.E. shall certif	y that the OSSF design	n complies with all pr	ovisions of the ex	isting WPAP.)		
Is there at least one acre per s	ingle family dwelling	as per 285.40(c)(1	)? 🛛 Yes [	] No		
If there is no existing WPAP, d	oes the proposed de	evelopment activity	require a TCE(	approved WPAP?	Yes D	No
(if yes, the R.S or P.E. shall certif be issued for the proposed OSSF					Permit to Const	ruct will not
Is the property located over the	e Edwards Contribut	ing Zone?  Yes	No No			
Is there an existing TCEQ app	roval CZP for the pro	perty? Yes	No			
(if yes, the P.E. or R.S. shall certif	y that the OSSF design	n complies with all pr	ovisions of the ex	cisting CZP.)		
If there is no existing CZP, doe	es the proposed deve	elopment activity re	quire a TCEQ a	approved CZP?	Yes 🔯 I	No
(if yes, the R.S. or P.E. shall certifies issued for the proposed OSSF un				proposed CZP. A Pe	rmit to Construc	ct will not be
Is this property within an incorp	oorated city?	es 🛛 No	<b>6</b> '	* 70.		
If yes, indicate the city:			GRI	G W. JOHNSON		
			**************************************	SONAL ENGLES	FIRM #25	85
By signing this application, I ce	rtify that:					
- The information provided abo	ve is true and correct to	o the best of my know	rledge.			
- I affirmatively consent to the o	online posting/public re	lease of my e-mail ac	dress associated	with this permit appli	ication, as appl	icable.
$/ \sim \sim$			Monah 5	2025		
Signature of Designer			March 5,	<u> </u>		

### **AFFIDAVIT**



THE COUNTY OF COMAL STATE OF TEXAS

### CERTIFICATION OF OSSF REQUIRING MAINTENANCE

713

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.

١

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

H

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

1. UNITOPHASE/SECTION	BLOCK 94	LOT	HAVENWOOD AT H	UNTERS CROSSI	ING SUBDIVISION
IF NOT IN SUBDIVISION:	ACREAGE				SURVEY
The property is owned by NICOLE LEEANN HAMIL	(insert owner's full n	ame): _	NICHOLAS M.	ATTHEW HAMIL	LTON &
This OSSF must be cove the initial two-year service residence shall either obtained.	e policy, the owner of	an aerob	ic treatment system	for a single fami	After ily
personally.  Upon sale or transfer of transferred to the buyer obtained from the Comal	r new owner. A copy	of the p	the permit for the O	SSF shall be r the OSSF can b	RECEIVED  FEB 0 3 2017
WITNESS BY HAND(S)	ON THIS DAY	OF	eb	,20 <u>17</u> CO	UNTY ENGINEER
Owner(s) signature(s)		() <sub>1</sub>	ner (s) Printed name (s)	int	<del>)</del>
NICHORS + NICCLE HAM FEBLUARY		TO AN	D SUBSCRIBED BE	FORE ME ON T	THISDAY OF
Notary Public Sig		*)	ROSEMARY C. GONZAL My Notary ID # 1249394 Expires July 17, 2020	88	



# RECEIVED FEB 0 3 2017

### COUNTY ENGINEER

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

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

Filed and Recorded
Official Public Records
Bobbie Koepp. County Clerk
Comal County Texas
02/03/2017 11:56:06 AM
TERRI 2 Page(s)
201706004780

Bobbie Koepp

## **ON-SITE SEWERAGE FACI** SOIL EVALUATION REPORT INF By Brandon Olvera at 9:10 am, Apr 30, 2025

RECEIVED

Date Soil Survey Performed:	Marcu 04, 2025	
Site Location:	HAVENWOOD at HUNTERS CROSSI	ING, UNIT 1, LOT 94
Proposed Excavation Depth:	N/A	
Requirements:		Calle and a second state of the second secon

At least two soil excavations must be performed on the site, at opposite ends of the proposed disposal area. Locations of soil boring or dug pits must be shown on the site drawing.

Monch 04 2025

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

Describe each soil horizon and identify any restrictive features on the form. Indicate depths where features appear.

Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
10"	Ш	CLAY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 10"	BROWN
					-	

Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
	SAME		AS		ABOVE	
2						; !

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

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

03/04/25

**OSSF SOIL EVALUATION REPORT 1** RECEIVED Date: March 05, 2025 By Brandon Olvera at 9:10 am, Apr 30, 2025 **Applicant Information:** Site Evaluator Information: **NICHOLAS MATTHEW & NICOLE LEEANN HAMILTON** Name: Greg W. Johnson, P.E., R.S., S.E. 11561 Name: **2615 LIONS DEN** Address: 170 Hollow Oak Address: City: NEW BRAUNFELS State: **TEXAS** State: Texas

City: New Braunfels

78132 Phone: (512) 262-8688 Zip Code: 78132 Phone & Fax (830)905-2778 Zip Code: \_ **Property Location:** Installer Information: **HAVENWOOD** at Lot 94 Unit 1 Blk Subd. HUNTERS CROSSING Name: **2615 LIONS DEN** Street Address: Company: City: NEW BRAUNFELS 78132 Zip Code: Address: Additional Info.: State:\_\_\_\_\_ City: Zip Code: \_\_\_\_\_Phone \_ % Topography: Slope within proposed disposal area: 3 Presence of 100 yr. Flood Zone: YES NO X Existing or proposed water well in nearby area. YES NO X Presence of adjacent ponds, streams, water impoundments  $YES_{NO} X$ Presence of upper water shed NO X YES Organized sewage service available to lot YES NO X

## Design Calculations for Aerobic Treatment with Spray Irrigation:

Commercial			
_	CDD		

Residential Water conserving fixtures to be utilized? Yes X No Number of Bedrooms the septic system is sized for: \_\_\_\_4 \_\_\_ Total sq. ft. living area\_\_\_ 2980 O gal/day = (Bedrooms +1) \* 75 GPD - (20% reduction for water conserving fixtures) Q = (4 +1)\*75-(20%)=Trash Tank Size \_\_\_\_ 397 Gal. TCEQ Approved Aerobic Plant Size 600 G.P.D. Req'd Application Area = Q/Ri = 300 0.064 4688 sa. ft. Application Area Utilized = 4859 sq. ft. Psi (Redjacket 0.5 HP 18 G.P.M. series or equivalent) Pump Requirement \_\_\_\_12 Gpm @\_\_\_ Dosing Cycle: \_\_\_\_ ON DEMAND or X TIMED TO DOSE IN PREDAWN HOURS Pump Tank Size = 768 Gal. \_\_\_ 13.3 Gal/inch. Reserve Requirement = 100 \_\_Gal. 1/3 day flow.

Alarms: Audible & Visual High Water Alarm & Visual Air Pump malfunction

With Chlorinator NSF/TCEO APPROVED

SCH-40 or SDR-26 3" or 4" sewer line to tank

Two way cleanout

Pop-up rotary sprinkler heads w/ purple non-potable lids

1" Sch-40 PVC discharge manifold

APPLICATION AREA SHOULD BE SEEDED AND MAINTAINED WITH VEGETATION.

EXPOSED ROCK WILL BE COVERED WITH SOIL. I HAVE PERFORMED A THOROUGH INVESTIGATION BEING A REGISTERED PROFESSIONAL ENGINEER

AND SITE EVALUATOR IN ACCORDANCE WITH CHAPTER 285, SUBCHAPTER D, §285.30, & §285.40 (REGARDING RECHARGE FEATURES), TEXAS COMMISSION OF ENVIRONMENTAL QUALITY

(EFFECTIVE DECEMBER 29, 2016)

GREG W. JOHNSON, P.E. F#002585 - S.E. 11561

FIRM #2585

# RECEIVED

By Brandon Olvera at 10:18 am, May 12, 2025

# Greg W. Johnson, P.E.

170 Hollow Oak New Braunfels, Texas 78132 830/905-2778

May 4, 2024

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

RE: Permit #116772

2615 LIONS DEN

HAVENWOOD AT HUNTERS CROSSING, UNIT 1, LOT 94

HAMILTON RESIDENCE

### **Brandon**

Owners have installed a concrete wall around the pool equipment pad that is within 5' of one side of the aerobic tank. The tank and sewer line were installed before the decorative wall was constructed. Placement of the septic tank will not harm the wall because the tank was installed first and the decorative wall is not a foundation. Additionally, the placement of the wall will not negatively affect the integrity of the tank or sewer line. In my professional opinion the installation of the decorative concrete wall closer than the five foot setback requirement will not pose a threat to the public health or environment.

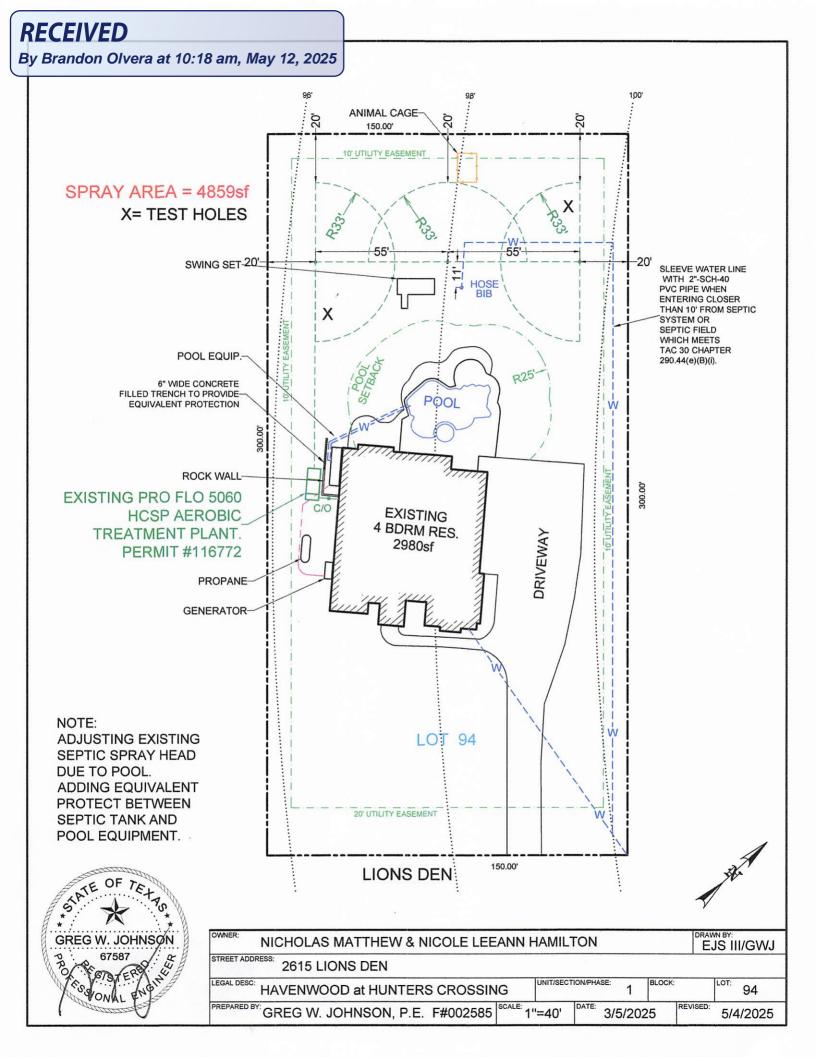
Owners have installed pool lines from the pool equipment pad less than ten feet from the aerobic tank. I proposed to excavate a thirteen foot long rock saw trench to solid rock, (~approximately 12" deep) centered between the tank and pool lines and fill with concrete to provide equivalent protection between tank and pool lines.

I hereby respectfully request a variance to ten foot setback between pool lines and aerobic tank and effluent line.

If I can be of further assistance please contact me.

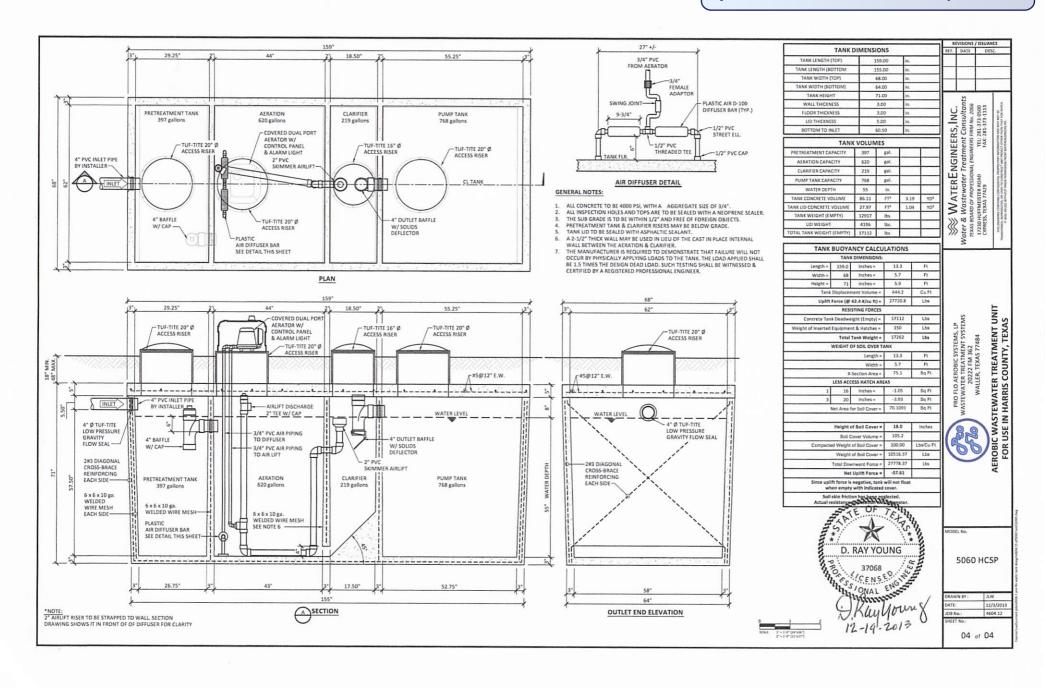
Respectfully yours,

Greg W. Johnson, P.E.



# **RECEIVED**

By Brandon Olvera at 9:10 am, Apr 30, 2025



## **TANK NOTES:**

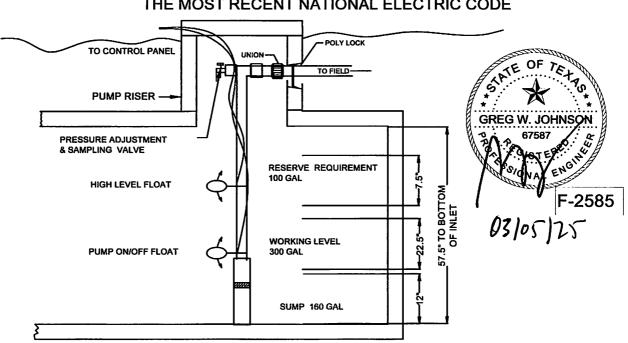
Tanks must be set to allow a minimum of 1/8" per foot fall from the residence.

Tightlines to the tank shall be SCH-40 PVC.

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

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

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



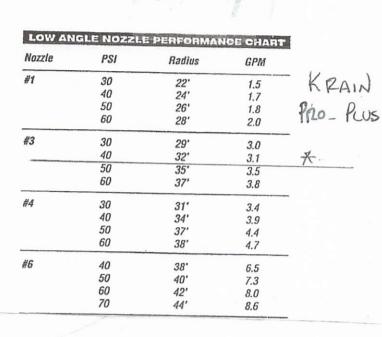
TYPICAL PUMP TANK CONFIGURATION PRO-FLO 768 GAL PUMP TANK

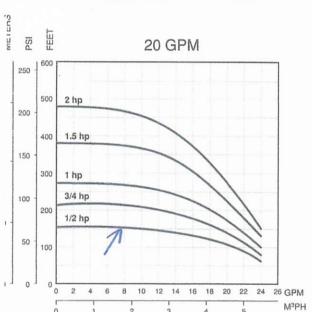
# **RECEIVED**

By Brandon Olvera at 9:10 am, Apr 30, 2025

# Environmental Series Pumps

## **Thermoplastic Performance**





## **Thermoplastic Units Ordering Information**

	1/2 - 1.5 HP Single-Phase Units								
Order No.	Model	GPM	HP	Volt	Wire	Wt.			
94741005	10FE05P4-2W115	10	1/2	115	2	24			
94741010	10FE05P4-2W230	10	1/2	230	2	24			
94741015	10FE07P4-2W230	10	3/4	230	2	28			
94741020	10FE1P4-2W230	10	1	230	2	31			
94741025	_ 10FE15P4-2W230	10	1.5	230	2	46			
94742005	20FE05P4-2W115	20	1/2	115	2	25			
94742010	20FE05P4-2W230	20	1/2	230	2	25			
94742015	20FE07P4-2W230	20	3/4	230	2	28			
94742020	20FE1P4-2W230	20	1	230	2	31			
94742025	20FE15P4-2W230	20	1.5	230	2	40			

Thermoplastic 1/2 - 2 HP Pump Ends							
Order No.	Model	GPM	HP	Volt	Wire	Wt.	
94751005	10FE05P4-PE	10	1/2	N/A	N/A	6	
94751010	10FE07P4-PE	10	3/4	N/A	N/A	7	
94751015	10FE1P4-PE	10	1	N/A	N/A	8	
94751020	10FE15P4-PE	10	1.5	N/A	N/A	12	
94752005	20FE05P4-PE	20	1/2	N/A	N/A	6	
94752010	20FE07P4-PE	20	3/4	N/A	N/A	7	
94752015	20FE1P4-PE	20	1	N/A	N/A	8	
94752020	20FE15P4-PE	20	1.5	N/A	N/A	10	
94752025	20FE2P4-PE	20	2	N/A	N/A	11	

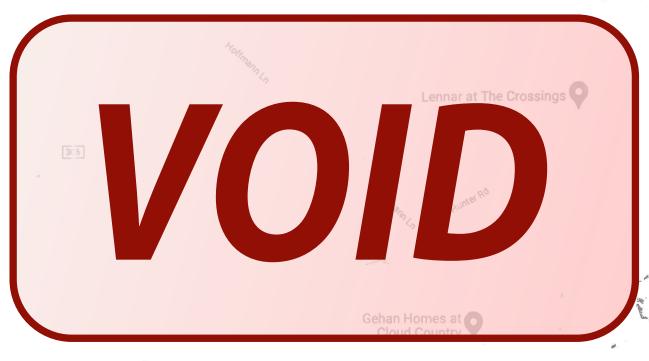
306





306

Lazy J Cajun 🕡



Texa

1102

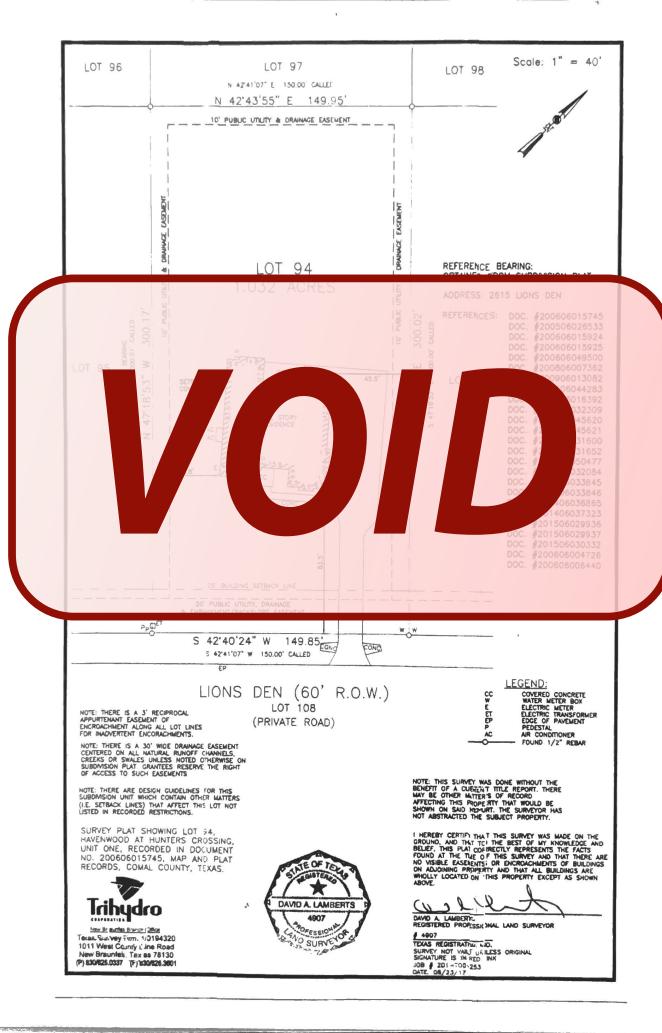
306

Gehan Homes at Gruenefield

TA Travel Center

TA Travel Center

Map data @2022 2000 ft





(//www.fema.gov/)

Navigation

Search

Languages

MSC Home (/portal/)

MSC Search by Address (/portal/search)

MSC Search of Products (/portal/ vanceSearch)

/s rad/resources/productsandtools

ortal/res

ortani esoprites/nazus)

MC Batch Files (portal/resources/lomc)

ortal/productAvailability

MSC requently Asked Question (FAC (/portal/resources/faq)

MSC mail Subscriptions (/por al/subscriptionHome)

Contact MSC Help (/por pl/resources/contact

# FEMA Flood Map Service Center: Search By Address

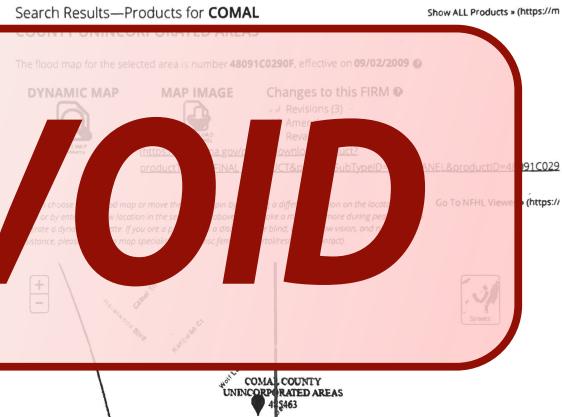
Enter an address, place, or coordinates: (2)

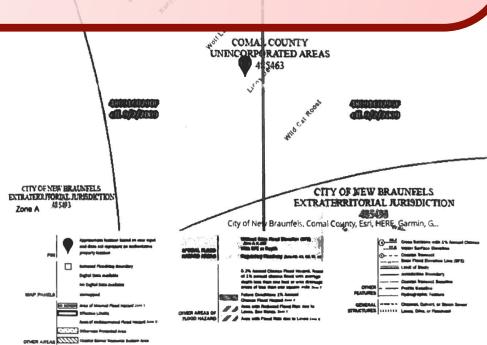
2615 Lions Den, New Braunfels, TX 78132

Search

Whether you are in a high risk zone or not, you may need <u>flood insurance. (fittos //www.fema.gov/national-flood-insurance.orgram</u>) because most homeowners insurance doesn't cover flood damage. If you live in an area with low or moderate flood risk, you are 5 times more likely to experience flood than a fire in your home over the next 30 years. For many, a National Flood insurance Policy could cost less than \$400 per year. Call your insurance agent today and protect what you've built.

Learn more about steps you can take (https://www.fema.gov/what-mitigation) to reduce flood risk damage.





Home (//www.fema.gov/) Download Plug-ins (//www.fema.gov/download-plug-ins) About Us
(//www.fema.gov/about-agency) Privacy Policy (//www.fema.gov/privacy-policy) FOIA (//www.fema.gov/foia)
Office of the Inspector General (//www.oig.dhs.gov/) Strategic Plan (//www.fema.gov/fema-strategic-plan)
Whitehouse.gov (//www.whitehouse.gov) DHS.gov (//www.dhs.gov) Réady.gov (//www.ready.gov) USA.gov
(//www.usa.gov) DisasterAssistance.gov (//www.disasterassistance.gov/)



Mis Official website of the Department of Homeland Security



# E-SERIES

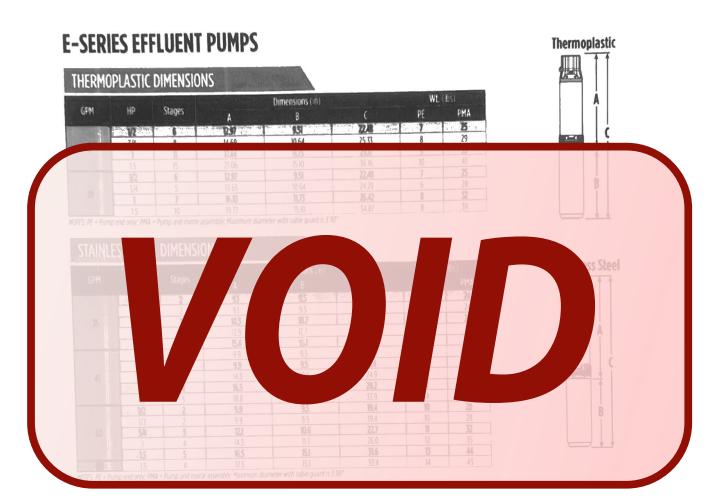
CEELLIENT DUMDO

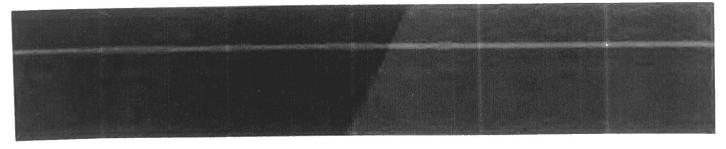
Ideal for filtered effluent service, aeration, and ornamental fountains and waterfalls, equipped with the power, performance, and reliability you expect from Franklin Electric.



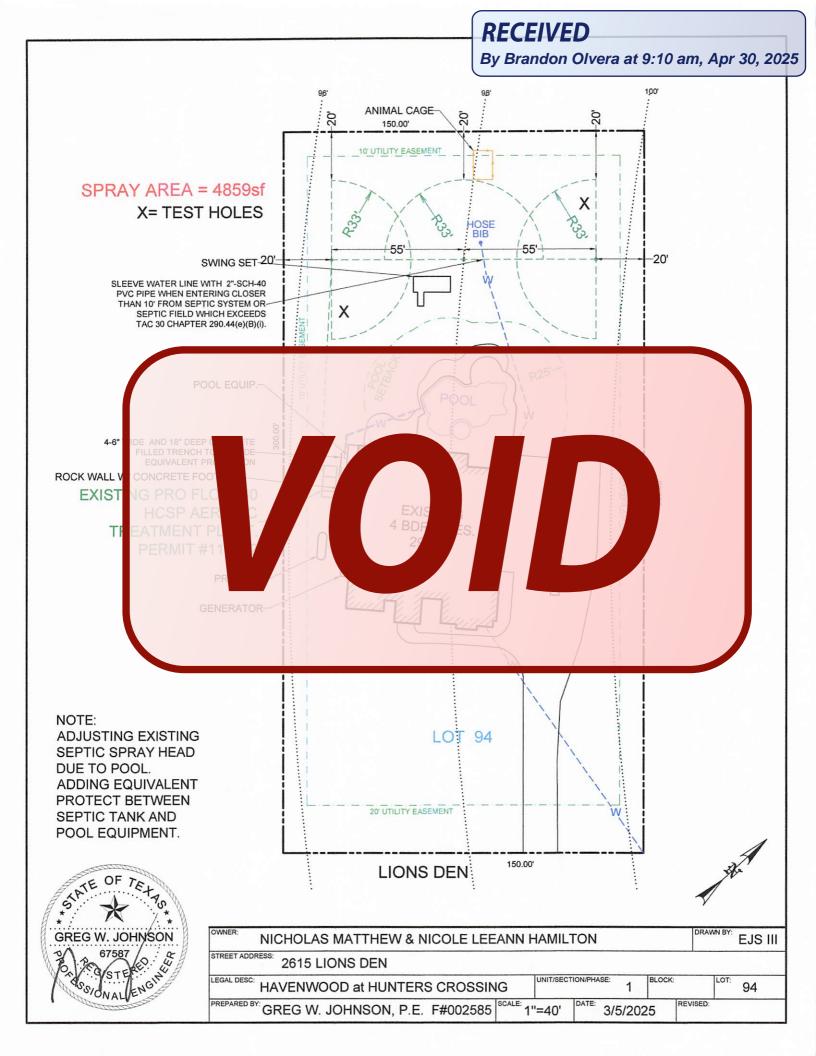
franklinwater.com



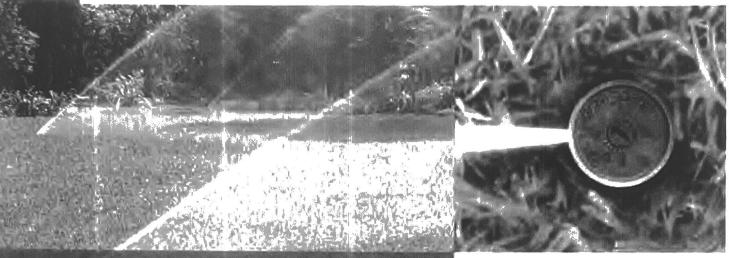








# PROPLUS™



Packed with features that ensure reliability, saving the installer time and money on every job.

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



K-Rain Manufacturing Corp. 1640 Australian Avenue Riviera Beach, FL 33404 USA +1 561 844-1002 FAX: +1 561 842-9493

1.800.735.7246 | www.krain.com



## **Easy Arc Setting**

Arc Selection 40° to Continuous 360° Adjust From Left Start



### Models

11003

ProPlus

11003-HP

ProPlus 12" High Pop

11003-SH ProPlus Shrub Head

### OTHER OPTIONS: ADD TO PART NUMBER

-CV

Check Valve

-LA

Low Angle Nozzle

-NN

No Nozzle

-RCW

ProPlus for Reclaimed Water

w/Low Angle Nozzle

## How to Specify

Model Number

Description

-RCW

## **Specifications**

■ Inlet: 3/4" Threaded NPT

■ Arc Adjustment Range: 40° to Continuous 360°

■ Flow Range: .5 - 10.0 GPM

Pressure Rating: 20 - 70 PSI

 Precipitation Rate: .06 to .50 Inches Per Hour (Depending on Spacing and Nozzle Used)

Overall Height (Popped Down): 7 1/2" (17" for High Pop Model)

■ Recommended Spacing: 28' to 44'

Radius: 22' to 50'

■ Nozzle Trajectory: 26°

■ Low Angle Nozzle Trajectory: 12°

■ Standard and Low Angle Nozzle: Included

Riser Height: 5"

### **Performance Data**

NOZZLE	PRE	SSURE	Ē	RAD	IUS		V RATE		PREC	IP in/hr		IP mm/h
	PSI	kPa	Bars	Ft.	M.	GPM	L/M	M³/H	10	<b>A</b>		<b>A</b>
#0.5	30	207	2.1	28	8.5	0.5	1.9	0.11	0.12	0.14	3	4
	40	276	2.8	29	8.8	0.6	2.3	0.14	0.14	0.16	3	4
	50	345	3.5	29	8.8	0.7	2.7	0.16	0.16	0.19	4	5
	60	414	4.1	30	9,1	8.0	3.0	0.18	0.17	0.20	4	5
90.75	30	207	2.1	29	8.8	0.7	2.7	0.16	0.16	0.19	4	5
	40	275	2.8	30	9.1	8.0	3.0	0.18	0.17	0.20	4	5 5
	50	344	3.4	31	9.4	0.9	3.4	0.20	0.18	0.21	5	6
	80	413	4.1	32	9,8	1.0	3.8	0.23	. 0.19	0.22	5.	
#1.0	30	207	2.1	32	9.8	1.3	4.9	0.30	0.24	0.28	6	7
	40	275	2.8	33	10.1	1.5	5.7	0.34	0.27	0.31	7 <b>7</b>	8
	50	344	3.4	34	10.4	1.6	6.1	0.36	0.27	0.31	7	8
	60	413	4.1	35	10.7	1.8	6.8	0.41	0.28		91	
#2.0	30	207	2.1	37	11.3	2.4	9.1	0.55	0.34	0.39	8	10
	40	275	2.8	40	12.2	2.5	9.5	0.57	0.30	0.35	8	10
	50	344	3.4	42	12.8 13.1	3.0	11.4 11.4	0.68	0.34	0.36	8	9
	60	413	4.1				9.5	0.57	0.33	0.38	8	10
2.5 Pre-installed	30	207	2.1	38	11.6	2.5	10.6	0.64	0.35	0.30	9	10
Pre-installed	40	275 344	2.8 3.4	39 <b>40</b>	12.2	3.2	12.1	0.73	0.39	0.44	10	11
	50	413	4.1	41	12.5	3.5	13.3	0.80	0.40	0.46	10	12
***	60			38	11.6	3.6	13.6	0.82	0.48	0.55	12	14
#3.0	30	207 275	2.1 2.8	39	11.9	4.2	15.9	0.96	0.53	0.61	14	16
	50	344	3.4	41	12.5	4.6	17.4	1.05	0.53	0.61	13	15
	60	413	4.1	. 42	12.8	5.0	19.0	1,14	0.55	0.83	14	18
#4.0	30	207	2.1	43	13.1	4.4	16.7	1.00	0.48	0.53	12	13
#4.0	40	275	2.8	44	13.4	5.1	19.3	1.16	0.51	0.59	13	15
	50	344	3.4	46	14.0	5.6	21.2	1.27	0.51	0.59	13	15
	60	413	4.1	49	14.9	5.9	22.4	1.34	0.47	0.55	12	14
#6.0	40	276	2.8	45	13.7	5.9	22.4	1.34	0.56	0.65	14	16
20.0	50	344	3.4	46	14.0	6.0	22.7	1.36	0.55	0.63	14	16
	60	413	4.1	48	14.6	6.3	23.9	1,43	0.53	0.61	13	15
	70	482	4.8	49	14.9	6.7	25.4	1.52	0.54	0.62	14	16
#8.0	40	276	2.8	42	12.8	8.0	30.3	1.82	0.87	1.01	22	26
#0.0	50	344	3.4	45	13.7	8.5	32.2	1.93	0.81	0.93	21	24
	60	413	4.1	49	14.9	9.5	36.0	2.16	0.76	0.88	19	22
	70	482	4.8	50	15.2	10.0	37.9	2.27	0.77	0.89	20	23

# Low Angle Performance Data

NOZZLE	PRE	SSURE	=	RAD	RADIUS FLOW RATE		PREC	IP in/hr	PREC	IP mm/hr		
	PSI	kPa	Bars	Ft.	M.	GPM	L/M	M³/H	-	_ A		<u>A</u>
#1.0	30	207	2.1	22	6.7	1.2	4.5	.27	0.48	0.55	12	14
	40	276	2.8	24	7.3	1.7	6.4	.39	0.57	0.66	14	17
	50	345	3.4	26	7.9	1.8	6.8	.41	0.51	0.59	13	15
	60	414	4.1	28	8.5	2.0	7.6	.45	0.49	0.57	12	14
#3.0	30	207	2.1	29	8.8	3.0	11,4	.68	0.69	0.79	17	20
	450	276	2.8	600	9.8	1	11.7	.70	0.58	0.67	15	17
	50	345	3.4	35	10.7	3.5	13.2	.80	0.55	0.84	14	16
	60	414	4.1	37	11.3	3.8	14.4	.86	0.53	0.62	14,	16
#4.0	30	207	2.1	31	9.4	3.4	12.9	.77	0.68	0.79	17	20
0 110	60	276	2.8	-	10.4	(8233)	14.8	.89	0.65	0.75	17	19
	50	345	3.4	37	11.3	4.4	16.7	1.00	0.62	0.71	16	18
	60	414	4.1	38	11.6	4.7	17.8	1.07	0.63	0.72	15	18
#6.0	1 40	275	2.8	38	11.6	6.5	24.6	1.48	. 0.87	1.00	12	25
2010	50	344	3.4	40	12.2	7.3	27.7	1.66	0.88	1.01	12	26
	60	413	4.1	42	12.8	8.0	30.3	1.82	0.87	1.01	12	26
	1 70	482	4.8	1 44	13.4	8.6	32.6	1.98	0.86	0.99	12	25





# Comal County

OFFICE OF COMAL COUNTY ENGINEER

## License to Operate On-Site Sewage Treatment and Disposal Facility

Issued This Date:

07/07/2017

Permit Number:

105509

Location Description:

2615 LIONS DEN

**NEW BRAUNFELS, TX 78132** 

Subdivision:

Havenwood at Hunters Crossing

Unit:

1

Lot:

94

Block:

Acreage:

Type of System:

Aerobic

Surface Irrigation

Issued to:

Nicholas Matthew & Nicole Leeann Hamilton

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

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

Alterations to this permit including, but not limited to:

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

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

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

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

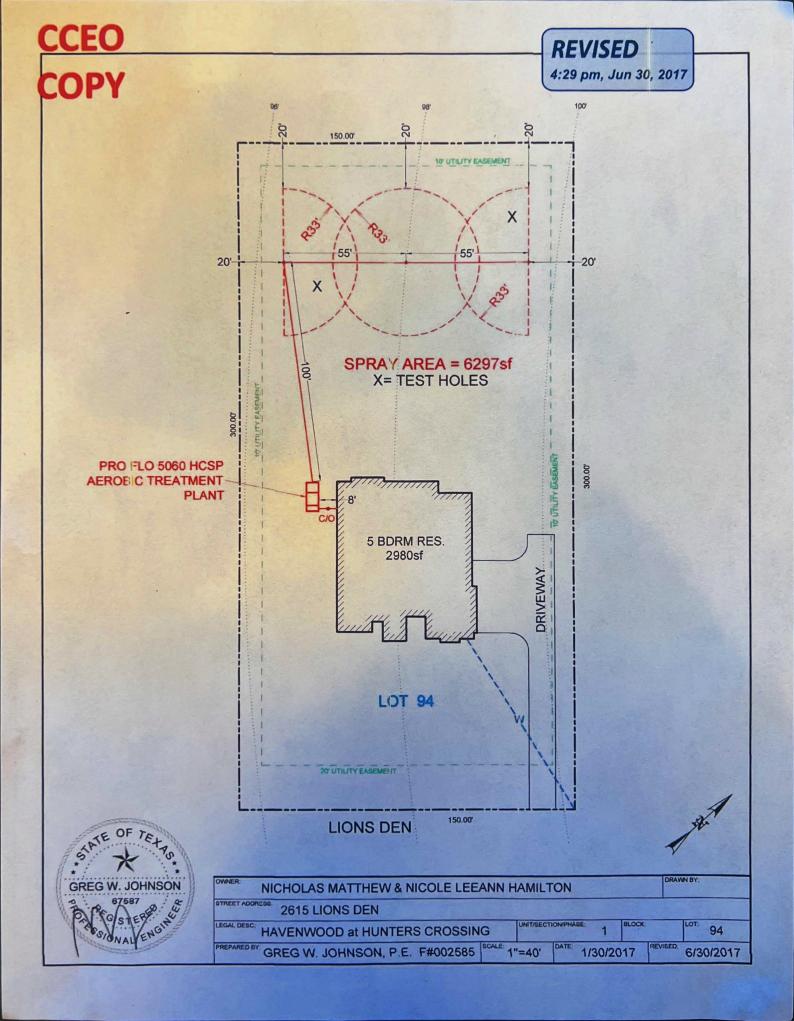
Licensing Authority

Comal County Environmental Health

lichard lays 038497

ENVIRONMENTAL HEALTH INSPECTOR

ENVIRONMENTAL HEALTH COORDINATOR







# ON-SITE SEWAGE FACILITY APPLICATION

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

Revised January 2021

Date January 6	6, 2022		Permit Number	
1. APPLICANT	T / AGENT INFORMATION			116772
Owner Name	Nicholas Matthew & Nicole LeeAnr	Hamilton Agent Name	Thomas Unruh	
Mailing Addres	ss 2615 Lions Den		ss 27806 Cazador Trail	
	New Braunfels, TX 78132		ip San Antonio, TX 7826	0
Phone #	512-262-8688	Phone #	210-464-7831	
Email	nicolelm.hamilton@gmail.com	Email	U2eng@yahoo.com	
2. LOCAT				
Sul Livision Na	ame Havenwood At H	unters Crossing	Unit 1 Lot 9	Block
S rvey Name	/ Abstract Number		Acre	eage 1.03 Acres
ddress	2615 Lions Den	City New B	Braunfels State 1	TX Zip 78132
TYPE OF D	EVELOPMENT			
Single Fa	amily dential			
Type of	Cons n (Hous lile, F	) House		
Number	of Be is 5			
Indicate	Sq Ft ing 2,980			
Non-Sing	gle Fan es al			
(Planning	materia w adequate i	for double equire in	eede eatment v	disposal area)
Type of				
	Factories, Churches, Schools, Parks			
	ants, Lounges, Theaters - Indicate No			
	otel, Hospital, Nursing Home - Indica			
aval Ti	railer/RV Parks - Indicate Number of	Spaces		
Miscellar	neous			
		<u> </u>		
	ost of Construction: \$ N/A			
	n of the proposed OSSF located in th			
	No (If yes, owner must provide approval	from USACE for proposed OSSF in	nprovements within the USACE	flowage easement)
Source of Wa	ater Public Private Well			
4. SIGNATURE				
- The completed	pplication, I certify that: application and all additional information	submitted does not contain any	false information and does r	not conceal any material
facts. I certify the property.	hat I am the property owner or I possess	the appropriate land rights neces	ssary to make the permitted	improvements on said
- Authorization is	hereby given to the permitting authority	and designated agents to enter t	upon the above described pr	operty for the purpose of
- I understand the	tion and inspection of private sewage fact at a permit of authorization to construct w	ill not be issued until the Floodp	lain Administrator has perfor	med the reviews required
by the Comal C	county Flood Damage Prevention Order.  consent to the online posting/public release	e of my e-mail address associate	ed with this permit application	n, as applicable.
N I	Lineh	1	19171	of appropriet
Signature of C	Owner	Date	11160	Page 1 of 2

## Olvera, Brandon

From: Olvera, Brandon

**Sent:** Thursday, November 2, 2023 1:15 PM

To: U2 Engineering; nicolem.hamilton@gmail.com

**Subject:** 116772



re we can proceed with the permit to construct, submit the application with new signature and redated.

Thank You,

Note: Beginning January 1, 2024 our reinspection fees will be changing to \$150.00. Permit fee includes 3 inspections, \$150 each additional inspection

Brandon Olvera | Designated Representative OS0034792 | Comal County | www.cceo.org

195 David Jonas Dr, New Braunfels, TX-78132 | t: 830-608-2090 | f: 830-608-2078 | e: olverb@co.comal.tx.us



# ON-SITE SEWAGE FACILITY APPLICATION

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

Date January 6,	2022		Permit Number 11413 116772
1. APPLICANT	AGENT INFORMATION		
Owner Name	Nicholas Matthew & Nicole LeeAnn Hamilton	Agent Name	Thomas Unruh
Mailing Address	s 2615 Lions Den		27806 Cazador Trail
City, State, Zip	New Braunfels, TX 78132	City, State, Zip	San Antonio, TX 78260
Phone #	512-262-8688	Phone #	210-464-7831
Email	nicolalm.hamilton@amail.com	Email	U2eng@yahoo.com
COCATION			let 1 Lot 94 Block
Subdivision Na			OTHE
Survey Name	/ Abstract Number		7:- 70400
Address	2615 Lions Den	City New Br	aunfels State TX Zip 78132
3. TYPE OF D	DPMENT		
Single F	tesidential		
Type of	uction (t Mobi etc.) Ho		
Number	rooms		
	f Lip ea 2		
Non-Sin			treatment (disposal area)
	show adeq. sarea for do	e required indine	disposal area)
Type of			
	Factories, Churches, Schools, India		
	rants, Lounges, Theaters - Indicate Number of Se		
	Motel, Hospital, Nursing Home - Indicate Number		
Travel	Trailer/RV Parks - Indicate Number of Spaces		
,			
	C NIA	(Structure Only)	v*
Estimated (	Cost of Construction: \$ N/A	,	of Engineers (LISACE) flowage easement?
Is any porti	ion of the proposed OSSF located in the United S  No (If yes, owner must provide approval from USACE	for amposed OSSE im	incovernants within the USACE flowage easement)
		tion proposed OSSF int	proventaria minima dio octore nontago ecconically
	Vater Public Private Well		
	RE OF OWNER		
<ul> <li>The complete facts. I certify</li> </ul>	application, I certify that: ed application and all additional information submitted of that I am the property owner or I possess the appropri	nate land rights nece	ssary to make the permittee improvements on sele
site/soil evalu	is hereby given to the permitting authority and designation and inspection of private sewage facilities that a permit of authorization to concret will not be is		
- I affirmatively	y consent to the online posting/public release of my e-r	ilali audiess associat	7 17174
/	ramed	Date	Page 1
Signature	ot Owner	046	Revised January



# ON-SITE SEWAGE FACILITY APPLICATION

195 DAVID JONAS DR NEW BRAUNFELS, TX 78132 (830) 608-2090 <u>www.cceo.org</u>

Planning Materials & Site Evaluation as Required Completed By Thomas L. Unruh, P.E.									
System Description	Proprietary Aerobic Treatm	ent Unit with Surfa	ce Irrigation						
Size of Septic System Required Based on Planning Materials & Soil Evaluation									
Tank Size(s) (Gallons)	Pro Flo 5060HCSP, 600	GPD At	sorption/Appl	lication Area	(Sq Ft)	5793			
Garons Per Day (As Per Sites generating more than		360 required to obtain a	permit through	h TCEQ.)					
s there an existing If yes, the R.S. or P.I. If there is no existing If yes, the R.S. or P.E. De issued for the propo	AP for a certify and by a certify and certification and cert	n complies with development a vn will comply to has bouting Zone?	r (R.S.) or  vision  required by  Yes X No.	existi CEQ : f the popropri	AP.) ed WPAP d WPAP. A	? es No			
If there is no existing CZ (If yes, the R.S. or P.E. sha issued for the proposed OS Is this property within an If yes, indicate the city:	Ill certify that the OSSF det SF until the CZP has been incorporated city?	evelopment activities will comply with approved by the activities approximate app	ty require a 1 h all provisions appropriate regi	CEQ approv	red CZP? [	Yes No	not be		
	to the online posting/public			sociated with	this permit ap	plication, as applicable	<b>).</b>		
Signature of Designer			2/28/20 Date	022					

U2 Engineering, LLC

### **OSSF SITE EVALUATION REPORT**

Owner: Nicholas & Nicole Hamilton

Date:

December 11, 2021

Address: 261
Legal: Har

2615 Lions Den, New Braunfels, TX 78132

Havenwood at Hunters Crossing 1, LOT 94

### **REQUIREMENTS:**

 A minimum of two soil excavations must be performed at opposite ends of the proposed disposal area. Locations must be clearly identified on the site drawing per §285.5(a).

· For subsurface disposal, borings or backhoe pits shall either be excavated to a depth of two feet

<ul> <li>Describe eac</li> </ul>	h soil horizon and		y restrictive fea	atures and depths	located.
----------------------------------	--------------------	--	-------------------	-------------------	----------

(Feet)	Texture Class	Gravel Analysis	Restrictive Horizon	Drainage (Mottles /	Observations
0   s 1   2   3   4   5	IV		LIMES	SERVE	BROWN
Soil Bor	Number: #2		TION		
Depth (Feet)	Texture Class	Gravel Analysis	Restrictive Horizon	Drainage (Mottles / Water Table)	Observations
0 7"	IV	< 30%	LIMESTONE @ 7"	NONE OBSERVED	BROWN
2					
3					

FEATURES OF SITE:		
Slope within proposed area:	_1%_ (surfa	ice < 15%)
Presence of 100-year flood zone:	Yes	X_ No
Presence of adjacent ponds, streams or water impounds:	Yes	X_ No
Existing or proposed water well in nearby area:	Yes	X_ No
Organized sewage available to lot or tract:	Yes	X_ No
Recharge features within 150 feet:	Yes	X_ No

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

THOMAS L. UNRUH, P.E. 100046-F21891, S.E. 35485

2/28/2022

DATE



Firm #21891



### **OSSF TECHNICAL DESIGN**

U2eng a yahoo com

### OWNER

Nicholas & Nicole Hamilton 2615 Lions Den New Braunfels, TX 78132 512-262-8688 nicolelm.hamilton@gmail.com

### **PROPERTY**

Havenwood at Hunters Crossing 1, LOT 94
2615 Lions Den
New Braunfels, TX 78132
Type = House 5 BDR / 2 Bath
Living Area = 2,980 Square Feet
Existing Permit #105509

### **ENGINEER**

Thomas L. Unruh, P.E. U2 Engineering, LLC 27806 Cazador Trail San Antonio, TX 78260 210-464-7831 U2eng@yahoo.com

### **PROJECT OVERVIEW**

The purpose of the project is to adjust the existing aerobic spray application area to accommodate a new

#### DESIGN NARRATIVE

New schedule 40 PVC purple distribution piping shall connect to the existing 600 GDP aerobic treatment unit pump tank and extend as shown on the drawing for the spray application. A pump capable of 10.9 GPM at 118 ft of total head pressure shall be connected to a timer setup to administer spray application through 3 spray heads between midnight and 5:00am. The pump float switches shall be set to pump 360 gallons are with an all store and the inlet to the plank. Apply area.

### DESIGN

ATU: xistir DR Ho 360 GPD

250 As (min septic tank vo A ed Aero Ing = 600 GP mun four mand < 4. A Treatment acity = 600 Ref Exist sidential V \$105509

DISTRIB

Allowable
Required Application Area Utilized (calculated by CAD) = 5,793 Square Feet
Spray Heads: Three K-Rain ProPlus RCW w/Low Angle nozzles at 30 psi
Flow Rate: 10.9 GPM

TOTAL HEAD

TDH = Elevation + Pressure + Friction = 118 ft

= 10 1( + (40 psi x 2.51 lupsi) + 10 lt

[111 - 22511+2070 Intaligs, 1 1 VO]

PUMP SELECTION:

10.9 GPM @ 118 ft of head (Franklin E-Series 20 GPM or equal)

TANK:

Alarms: Audible & Visual High-Water Alarm & Visual Air Pump malfunction

Chlorinator: Liquid

THE ABOVE DESIGN WAS BASED ON THE BEST AVAILABLE INFORMATION AND IN ACCORDANCE WITH CHAPTER 285, SUBCHAPTER D, 285.30 AND 285.40 (REGARDING RECHARGE FEATURES). THE SYSTEM SHOULD FUNCTION PROPERLY UNDER NORMAL OPERATIONS. OSSF DESIGN COMPLIES WITH EXISTING WPAP.

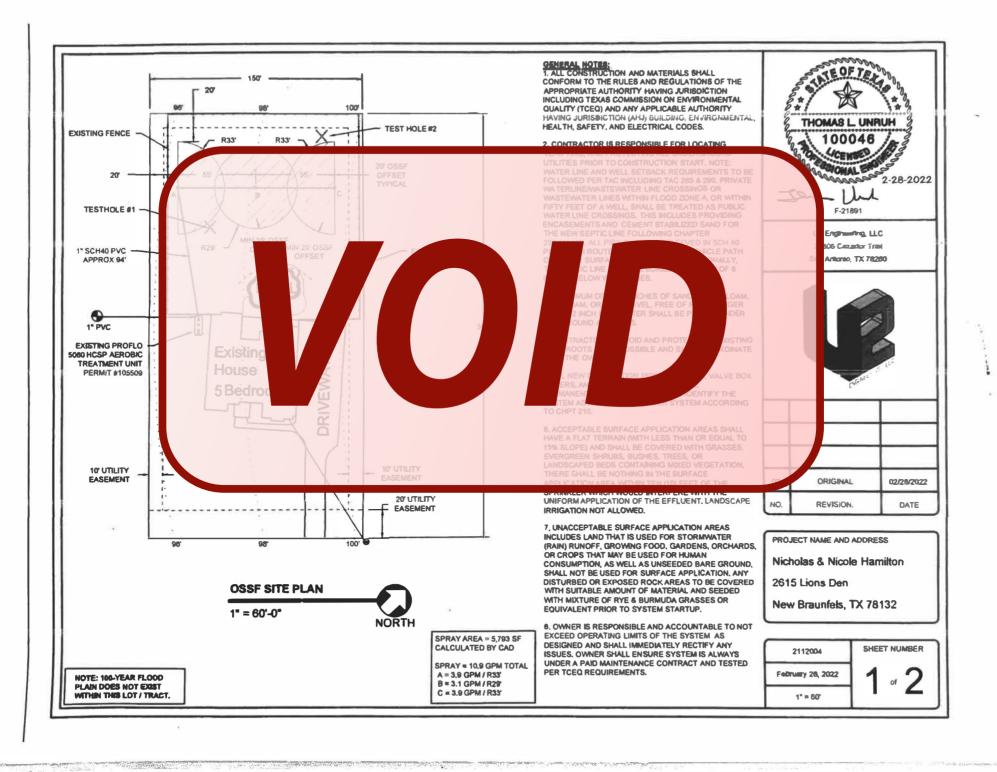
Jan Uhl

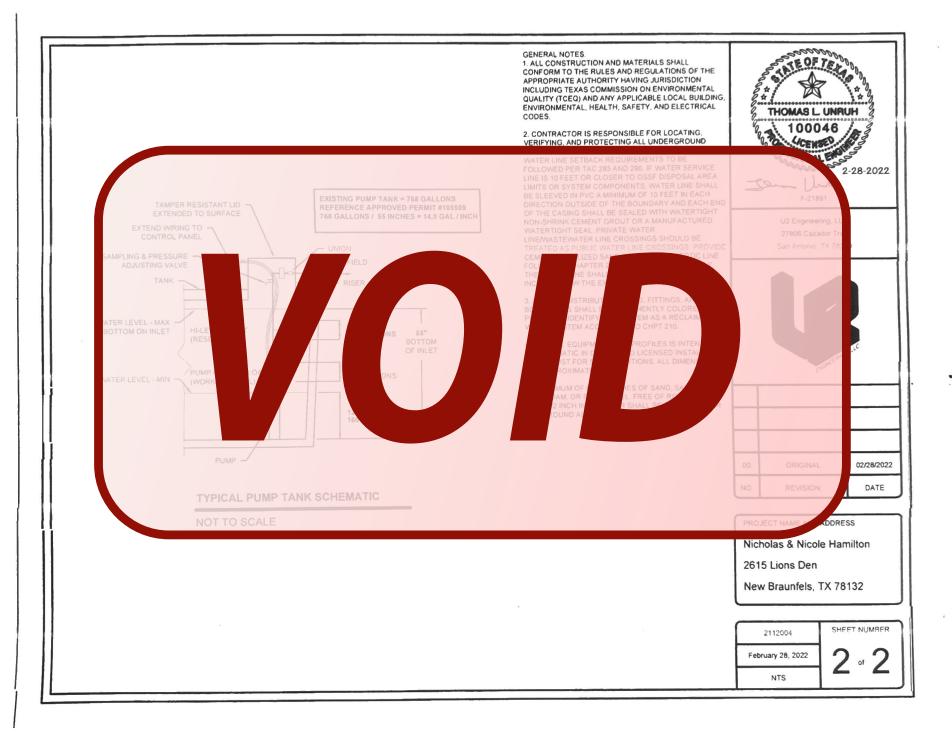
2/28/2022

THOMAS L. UNRUH, P.E. 100046-F21891

DATE

FIRM #21891

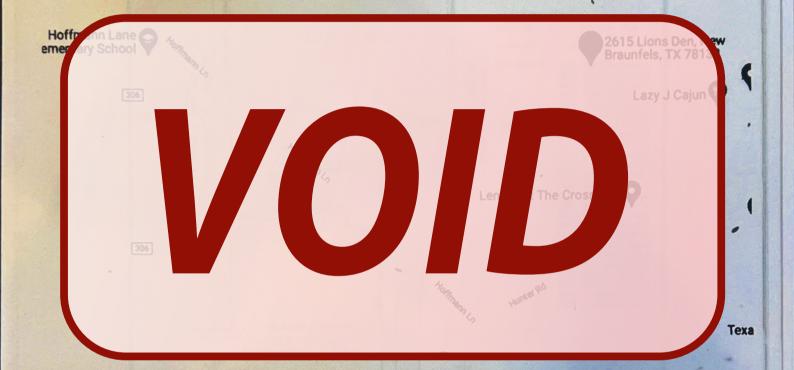


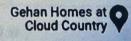


Google Maps 2615 Lions Den

Hunt

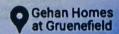
306





1102

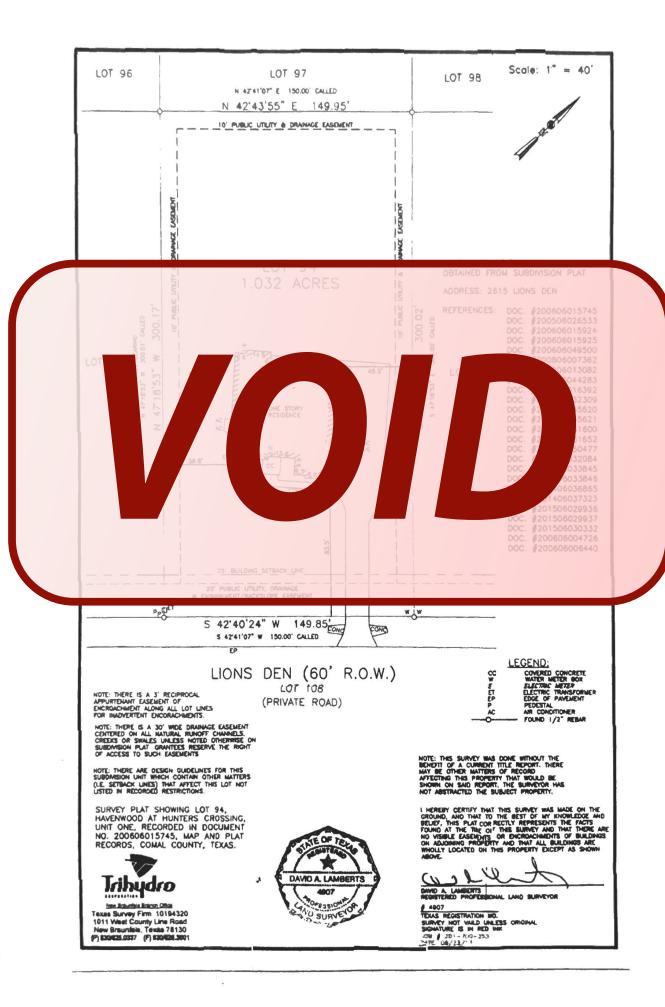
306



Google



Map data ©2022 2000 ft





#### FEMA Flood Map Service Center: Search By Address

(//www.fema.gov/)

Navigation

Enter an address, place, or coordinates: 20 2615 Lions Den, New Braunfels, TX 78132

Search

Search

Languages

Whether you are in a high risk zone or not, you may need <u>flood insurance (https://www.fema.gov/national-flood-insurance-program)</u> because most homeowners insurance doesn't cover flood damage. If you live in an area with low or moderate flood risk you are 5 times more likely to experience flood than a fire in your home over the next 30 years. For many, a National Flood Insurance Program's flood insurance policy could cost less than \$400 per year. Call your insurance agent today and protect what you've built

Learn more about stens you can take (https://www.fema.gov/what-mitigation) to reduce flood risk damage MSC Home (/portal/) ts » (https://m MSC Sea (/por The flood map for the selected area is number 48091C0290F, effective on 09/02/2009 Changes to this FIRM • MAP IMAGE 1C029 IEL&productID=480 https:// COMA COUNTY
UNINCORPORATED AREAS
45463 10.000 CITY OF NEW BRAUNEELS EXTRATERRITORIAL AURIDICTION CTIV OF SHIT BUILDINGS EXTRATERING BUILDINGS OF THE City of New Braunfels, Comal County, Esri, HERE, Garmin, G.

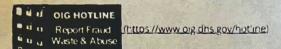
Come (//www.fema.gov/) Download Piugins (//www.fema.gov/download-piugins) About Us

(//www.fema.gov/about-agency) Privacy Policy (//www.fema.gov/privacy-policy) = OiA (//www.fema.gov/foia)

Office of the Inspector General (//www.org.dhs.gov/) Strategic Plan (//www.fema.gov/fema-strategic plan)

Whitehouse.gov (//www.whitehouse.gov) DHS.gov (//www.dhs.gov) Ready.gov (//www.ready.gov) USA.gov

(//www.usa.gov) DisasterAssistance.gov (//www.disasterassistance.gov/)



SOfficial webs te of the Department of Homeland Security



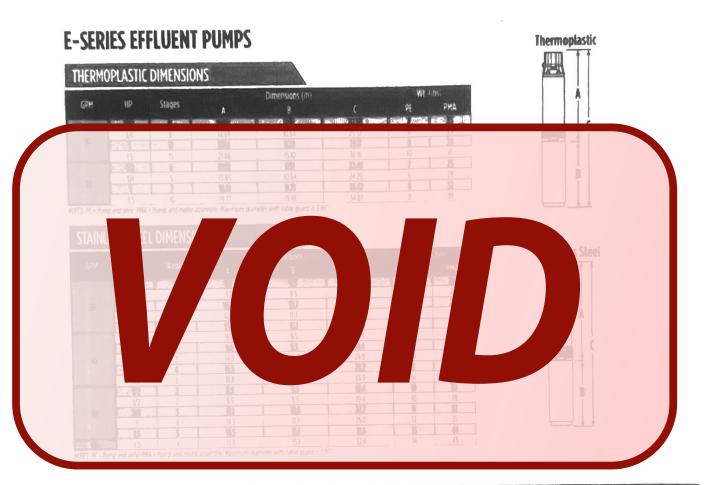
# 

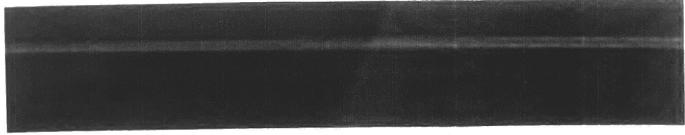
ELLINEINI LOLILA

Ideal for filtered effluent service, aeration, and ornamental fountains and waterfalls, equipped with the power, performance, and reliability you expect from Franklin Electric.











### PROPLUS™

## ed wif urer ensure religion of the liter and money in the liter and

- y Paten y Arc Set y Ard an Arct or dry a Arct in second
- Perfect for gi
- 3/4" Injet Replaces all standard rotors
- 2N1 Adjustable or Continuous Rotation Provides a full range adjustment from 40° to a continuous full circle.
- Patented Arc Set Degree Markings Clearly indicates the
- Arc Memory Clutch Prevents internal gear damage and returns rotor to its prior setting automatically if nozzle turret is forced past its stop.
- Time Proven Patented Reversing Mechanism Assures continuous reverse and return...over a 20 year history.
- Ratcheting Riser Allows for easy adjustment of your left starting position with a simple turn of the riser.
- Rubber Cover Seals out dirt, increases product durability.
- Wide Selection of Nozzles Including standard and low angle, provides flexibility in system design.
- Optional Check Valve Prevents low head drainage.



K-Rain Manufacturing Corp. 1640 Australian Avenue Riviera Beach, FL 33404 USA +1 561 844-1002 FAX: +1 561 842-9493

1.800.735.7246 | www.krain.com



#### **Easy Arc Setting**

Arc Selection 40° to Continuous 360° Adjust From Left Start

# K PO

#### Models

11003 ProPlus

11003-HP ProPlus 12" High Pop 11003-SH ProPlus Shrub Head

#### OTHER OPTIONS: ADD TO PART NUMBER

-CV Check Valve
-LA Low Angle Nozzle

-NN No Nozzle

DeaDlyn for Panlaimed Water

w/I ow Angle Nazzie

#### How to Specify

Model Number

Description

#### **Specifications**

■ Inlet: 3/4\* Threaded NPT

■ Arc Adjustment Range: 40° to Continuous 360°

■ Flow Range: .5 - 10.0 GPM

Pressure Rating: 20 - 70 PSI

Precipitation Rate: .06 to .50 Inches Per Hour (Depending on Spacing and Nozzle Used)

Overall Height (Popped Down): 7 1/2\* (17\* for High Pop Model)

■ Recommended Spacing: 28' to 44'

Radius: 22' to 50'

#### = NOZZIO TRAJOUTUTY.

Low Angle Nozzle Trajectory: 12°

Standard and Low Angle Nozzle: Included

Riser Height: 5"

PRESS PSI  January  J
PSI   bits   M*/H   A   A   A   A   A   A   A   A   A
PSI   Brs   B.5   O.5   O.11   O.14   4   4   4   4   4   4   4   4   4
PSI
PSI
No.
PSI
PSI
PSI
PSI
No.
PSI
PSI Are M7/H A A A A A A A A A A A A A A A A A A A
PSI
PALSA POL
PRESS.
PRESS.
PRES.
PALS.
PALS.
PALS.
PALS.
DOI: CO
DDESS in/hr
rmance

	50	344	3.4	41	12.5	4.6	17.4	1.05	0.53	0.61	13	15
	1 80	413	4.1	. 42	12.8	18.0	19.0	1.14	0.55	0.63	14	16
#4.0	30	207	2.1	43	13.1	4.4	16.7	1.00	0.46	0.53	12	13
	40	275	2.8	44	13.4	5.1	19.3	1.16	0 51	0.59	13	15
	50	344	3.4	46	140	5.6	21.2	1.27	0.51	0.59	13	15
	60	413	4.1	49	14.9	5.9	22.4	1.34	0.47	0.55	12	14
66.0	40	276	2.8	48	13.7	5.9	22.4	1.34	0.56	0.88	14	16
20.0	50	344	3.4	46	14.0	6.0	22.7	1.36	0.55	0.63	14	16
	60	413	4.1	48	14.6	6.3	23.9	1.43	0.53	0.61	13	15
	70	482	4.8	, 49	14.9	6.7	25.4	1.52	10.84	0.82	14	16
88.0	40	276	2.8	42	12.8	8.0	30.3	1.82	0.87	1.01	22	26
20.0	50	344	3.4	45	13.7	8.5	32.2	1.93	0.81	0.93	21	24
	60	413	4.1	49	14.9	9.5	36.0	2.16	0.78	0.88	19	22
	70	482	4.8	50	15.2	10.0	37.9	2.27	0.77	0.89	20	23

#### Low Angle Performance Data

NOZZLE	PRESSURE			RADIUS		FLOW RATE			PRECIP in/hr		PRECIP mm/hr	
	PSI	kPa	Bara	Ft.	M.	GPM	LM	M³/H	10	A	-	<b>A</b>
01.0	30	207	2.1	22	6.7	1.2	4.5	.27	0.48	0.55	12	14
-1.0	40	276	2.8	24	7.3	1.7	6.4	.39	0.57	0.66	14	17
	50	345	3.4	26	7.9	1.8	6.8	.41	0.51	0 59	13	15
	60	414	4.1	28	8.5	2.0	7.6	.45	0 49	0.57	12	14
Ø3.0	30	207	2.1	29	8.8	3.0	11.4	.68	0.69	0.79	17	20
	-	276	2.8	600	9.8	696560	11.7	.70	0.58	0.87	15	17
	50	345	3.4	35	10.7	3.5	13.2	.80	0.55	0.64	14	16
	60	414	4.1	1 37	11.3	3.8	14.4	.86	0.53	0.62	14	16
64.0	30	207	21	31	94	3.4	12.9	.77	0.68	0.79	17	20
		276	2.8	60	10.4	<b>CONTRACT</b>	14.8	89	0.65	0.75	17	19
	50	345	3 4	37	11.3	44	16.7	1.00	0.62	0.71	16	18
	60	414	4.1	38	11.6	4.7	17.8	1.07	0.63	0.72	1,9	18
66.0	40	275	2.8	38	11.8	6.5	24.6	1,48	0.87	1.00	22	25
	50	344	3.4	40	12.2	7.3	27.7	1.66	0.88	1.01	21	26
	60	413	4.1	42	12.8	8.0	30.3	1.82	0.87	1.01	22	26
	70	482	4.8	144	13.4	8.6	32.6	1.98	0.86	0.99	22	25

\*All precipitation rates calculated for 180° operation. For the precipitation rate for a 360° aprinkler, divide by 2



© K-Rain Manufacturing Corporation AN ISO 9001-2008 CERTIFIED COMPANY





\_\_\_\_\_

RE: 2615 Lions Den

Havenwood at Hunters Crossing 1 Lot 94

Dear Property Owner & Agent,

Thank you for your submission. We have reviewed the planning materials for the referenced permit application, and unfortunately, they are insufficient. To proceed with processing this permit, we require the following:



285.91(10) There is a 5 ft separation distance from tank to surface improvements.



285.91(10) There is a 5 ft separation distance from sewer pipe with watertight joints and building foundations.



285.9(10) There is a 10 ft separation distance from waterlines (pool lines) and OSSF components.

- a. Does the concrete trench comply with Chapter 290? If not,
- b. You may consider requesting a variance to Chapter 285.
  - i. Our office will discuss the variance if you choose to request one.



Our office has a concern with the hose bib in the application area.

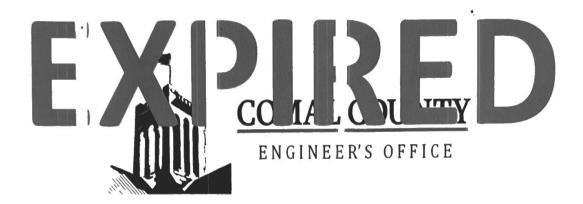
- a. What equivalent protection are you purposing for the hose bib?
- 5. Revise accordingly and resubmit.

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

Thank You,

Brandon Olvera | Designated Representative OS0034792 |

Comal County www.cceo.org f: 830-608-2078 e: olverb@co.comal.tx.us



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

Permit Number:

114133

Issued This Date:

03/04/2022

This permit is hereby given to:

Nicholas Matthew & Nicole LeeAnn Hamilton

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

2615 LIONS DEN

NEW BRAUNFELS, TX 78132

Subdivision:

Havenwood at Hunters Crossing

Unit:

1

Lot:

94

Block:

N/A

Acreage:

1.0300

APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

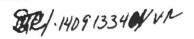
Type of System:

Aerobic

Surface Irrigation

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

Call (830) 608-2090 to schedule inspections.





201406038109

10/29/2014 08 14 47 AR 1/2



Warranty Deed with Vendor's Lien

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

Date: October 27, 2014

Grantor: ROBERT SHAWN DOYLE and CATHERINE CONKLIN DOYLE

Grantee: NICHOLAS MATTHEW HAMILTON and NICOLE LEEANN HAMILTON, busband and wife

Grantee's Mailing Address: 214 Grove Place, Cibolo, TX 78108

Consideration: Cash and a note of even date executed by Grantee and payable to the order of SOUTHTRUST BANK, N.A., in the principal amount of FORTY-TWO THOUSAND FIVE HUNDRED AND NO\100 DOLLARS(\$42,500.00). The note is secured by a first and superior vendor's lien and superior title retained in this deed and by a first-lien deed of trust of even date from Grantee to DWAYNE McWILLIAMS, Trustee.

Property (including any improvements):

Lot 94, HAVENWOOD AT HUNTERS CROSSING, UNIT ONE, Comal County, RECEIVED Texas, according to Map or Plat thereof recorded in Document No. 200606015745, FEB 0 3 2017 Map and Plat Records of Comal County, Texas;

Reservations from Conveyance: NONE.

COUNTY ENGINEER

Exceptions to Conveyance and Warranty. Any and all restrictions, covenants, conditions, reservations, leases, interests, agreements and easements, shown of record in the hereinabove mentioned County and State and to all zoning laws, regulations and ordinances of municipal and/or governmental authorities, if any, but only to the extent that they are still in effect relating to the hereinabove described property, and further subject to all stand by fees, taxes and assessments by any taxing authority for the current and subsequent years, and subsequent taxes and assessments for prior years due to changes in land usage or ownership and all matters reflected on the hereinabove mentioned plat.

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

The vendor's lien against and superior title to the Property are retained until each note described is fully paid according to its terms, at which time this deed will become absolute.

SOUTHTRUST BANK, N.A., at Grantee's request, has paid in cash to Grantor that portion of the purchase price of the Property that is evidenced by the note. The first and superior vendor's lien against and superior title to the Property are retained for the benefit of SOUTHTRUST BANK, N.A., and are transferred to SOUTHTRUST BANK, N.A., without recourse against Grantor.

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

ROBERT SHAWN DOYLE

CATHERINE CONKLIN DOYLE

**ACKNOWLEDGMENT** 

STATE OF TEXAS

COUNTY OF COMAL

This instrument was acknowledged before me on the 28 day of October, 2014, by ROBERT SHAWN DOYLE and CATHERINE CONKLIN DOYLE.

JOYCE C. KILLIAN
Notary Public
STATE OF TEXAS
My Comm. Exp. 03-05-2017

Notary Fublic in and for the State of Texas

#### AFTER RECORDING RETURN TO:

NICOLE LEEANN HAMILTON NICHOLAS MATTHEW HAMILTON 214 Grove Place Cibolo, TX 78108

#### PREPARED IN THE LAW OFFICES OF:

THE HOUGHAM LAW FIRM 3700 Fredericksburg Road, Suite 237 San Antonio, Texas 78201 Telephone No. (210) 375-7570

RECEIVED

FEB 03 2017

**COUNTY ENGINEER** 

Filed and Recorded Official Public Records Joy Streater. County Clerk Comal County, Texas 10/29/2014 08 14 47 AM CASHONE 2 Page(m) 201406038109

Jy Streater