From: Ritzen, Brenda

To: dakota@aerobicservices.com

Olvera, Brandon Cc: Subject: RE: 196 granite rd

Date: Tuesday, June 18, 2024 8:29:00 AM

Attachments: image001.png

Dakota,

You may proceed as indicated under the existing Permit 113012. Be sure to contact our office for the appropriate inspections of the corrected installation.

Thank you,



Brenda Ritzen

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

From: Olvera, Brandon < Olverb@co.comal.tx.us>

Sent: Tuesday, June 18, 2024 8:09 AM To: Ritzen, Brenda <rabbjr@co.comal.tx.us>

Subject: FW: 196 granite rd

Brenda, See below

Thank You,

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: <u>olverb@co.comal.tx.us</u>

From: Dakota Burnes < <u>dakota@aerobicservices.com</u>>

Sent: Tuesday, June 18, 2024 7:37 AM

To: Olvera, Brandon < Olverb@co.comal.tx.us>

Subject: 196 granite rd

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

Good morning I was emailing you for a proposed drain field fix for address 196 Granite rd. What I was thinking we can do is expose the ends of the drip tube loops and cutting the excess drip lines and reattach matching design. Look forward to hearing back, thank you.

--

Dakota Burnes 830.237.5722

OS0036951 / MT0002243

Aerobic Services



Olvera, Brandon

From: Olvera, Brandon

Sent: Tuesday, June 18, 2024 8:18 AM

To: Dakota Burnes **Subject:** RE: 196 granite rd

Good Morning,

We have reviewed the plan and find it acceptable. However, an operational inspection and a final cover inspection will be necessary.

Thank You,

| 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 |

From: Dakota Burnes <dakota@aerobicservices.com>

Sent: Tuesday, June 18, 2024 7:37 AM

To: Olvera, Brandon < Olverb@co.comal.tx.us>

Subject: 196 granite rd

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

Good morning I was emailing you for a proposed drain field fix for address 196 Granite rd. What I was thinking we can do is expose the ends of the drip tube loops and cutting the excess drip lines and reattach matching design. Look forward to hearing back, thank you.

Dakota Burnes 830.237.5722

OS0036951 / MT0002243

Aerobic Services



RECEIVED

By Brenda Ritzen at 2:00 pm, Jun 17, 2024

Greg W. Johnson, P.E.

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

June 17, 2024

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

RE: Septic Design - #113012

196 Granite Road

Cypress Cove, Section 9, Lot 608

AAID Construction

Brandon:

A portion of the drip field was installed and inspected by Comal County Environmental Health and permit to operate issued that has now been determined to be partially across the property line and needs adjustment. My recommendation is to adjust the field to the original design parameters and call CCEO for an inspection prior to cover up.

If I can be of further assistance please contact me.

Respectfully yours,

Greg W. Johnson, P.E.

Firm #2585



License to Operate On-Site Sewage Treatment and Disposal Facility

Issued This Date:

12/27/2022

Permit Number:

113012

Location Description:

196 GRANITE RD

SPRING BRANCH, TX 78070

Subdivision:

CYPRESS COVE

Unit:

9

Lot:

608

Block: Acreage:

0.0000

Type of System:

Aerobic

Drip Irrigation

Issued to:

AAID CONSTRUCTION, LLC

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

VIRONMENTAL HEALTH INSPECTOR

ENVIRONMENTAL HEALTH COORDINATOR

OS0032485

OS0007722

nstaller 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)						
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)(G)(i) 285.32(b)(1)(C)(ii) 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)						

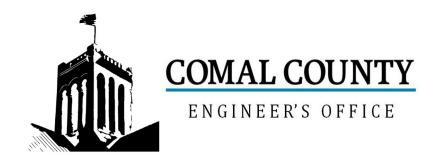
Inspector Notes:

AL.	Di-si	Δ	Citation	N-4	1,41,	2	2
No.	Description SEPTIC TANK Tank(s) Clearly	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
8	Marked SEPTIC TANK If SingleTank, 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) (D)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)				
9	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)				
11	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						
12	Installed						
	PUMP TANK Volume Installed						
13	AEROBIC TREATMENT UNIT Size						
14							
15	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number						
16	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
17	DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
18	DISPOSAL SYSTEM Evapo- transpirative		285.33(a)(3) 285.33(a)(4) 285.33(a)(1) 285.33(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)						
	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)						
	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								
27	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)						
31	LOW PRESSURE DISPOSAL SYSTEM Adequate Trench Length & Width, and Adequate Separation Distance between Trenches		285.33(d)(1)(C)(i)						

No.	Docorintian	Answer	Citations	Notes	1ct lease	2nd Inco	2rd Inco
NO.	Description EFFLUENT DISPOSAL SYSTEM Utilized	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
32	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						
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						

	1						
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
40	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple?		285.33(d)(2)(G)(iii)(II) 285.33(d)(2)(G)(iii)(III) 285.33(d)(2)(G)(iii) 285.33(d)(2)(G)(iii) 285.33(d)(2)(G)(iv) 285.33(d)(2)(G)(ii) 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)				
41	ADDUCATION ADDA Average tradellar						
42	APPLICATION AREA Area Installed						
43	PUMP TANK Meets Minimum Reserve Capacity Requirements						
44	PUMP TANK Material Type & Manufacturer						
45	PUMP TANK Type/Size of Pump Installed						



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

Permit Number: 113012

Issued This Date: 07/28/2021

This permit is hereby given to: AAID CONSTRUCTION, LLC

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

196 GRANITE RD

SPRING BRANCH, TX 78070

Subdivision: CYPRESS COVE

Unit: 9

Lot: 608

Block: 0

Acreage: 0.0000

APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic

Drip Irrigation

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

Call (830) 608-2090 to schedule inspections.

RECEIVED By KG at 10:58 am, Jul 27, 2021



ı

OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

			113012
	Date Receive	d Initials	Permit Number
Instructions: Place a check mark next to all items that apply. For item Checklist <u>must</u> accompany the completed application.	is that do not apply,	place "N/A". This	s OSSF Development Application
OSSF Permit			
Completed Application for Permit for Authorization	to Construct an On-	Site Sewage Fac	cility and License to Operate
Site/Soil Evaluation Completed by a Certified Site	Evaluator or a Profe	ssional Engineer	
Planning Materials of the OSSF as Required by the of a scaled design and all system specifications.	e TCEQ Rules for O	SSF Chapter 28	5. 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 M	aintenance/Affidavit	to the Public	
Signed Maintenance Contract with Effective	Date as Issuance of	f License to Oper	rate
I affirm that I have provided all information required constitutes a completed OSSF Development Applica		elopment Applic	ation and that this application
Signature of Applicant	<u> </u>	07/27/	<u>201)</u> Date
COMPLETE APPLICATION Check No Receipt No			LETE APPLICATION circled, Application Refeused)
<u> </u>	J		

Revised: September 2019

RECEIVEDBy KG at 10:58 am, Jul 27, 2021

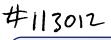


ON-SITE SEWAGE FACILITY APPLICATION

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

WWW.CCEO.ORG

Date				Permit Nu	mber	11	3012	
1. APPLICANT /	AGENT INFORMATION							
Owner Name	AAID CONSTRUCTION LLC	Agent Na	me	C	GREG JO	HNSO	N, P.E.	
Mailing Address	9330 CORPORATE DRIVE # 103	No. 10-20-00-00-00-00-00-00-00-00-00-00-00-00			170 HO	LLOW	OAK	
	SELMA TEXAS 78154			NEW I				78132
Phone #	210-391-7158	Phone #			5.7-571440	905-27		
Email	cindy@wagner-holak.com	Email		gre	gjohnsor	npe@ya	hoo.cor	m
2. LOCATION	,0							
Subdivision Nam	ne CYPRESS COVE		Uı	nit 9	Lot	608	Bloc	ck
	Abstract Number					reage		
	196 GRANITE ROAD			BRANCH		TX	Zip	78070
3. TYPE OF DEV		_ /					_	
Single Fam								
_	onstruction (House, Mobile, RV, Etc.)	HOU	ISE					
	f Bedrooms 3							
	q Ft of Living Area 1395							
	e Family Residential							
	naterials must show adequate land area for doubling	g the required lar	nd need	led for treatme	ent units a	and disp	osal are	ea)
	acility							
	actories, Churches, Schools, Parks, Etc Indi	30- 1	of Occu	nants				
	ts, Lounges, Theaters - Indicate Number of Se							
	el, Hospital, Nursing Home - Indicate Number							
	iler/RV Parks - Indicate Number of Spaces	•						
	eous							
Estimated Cos	st of Construction: \$ 185,000	(Structure Or	alv)					
	of the proposed OSSF located in the United S		,,	Engineers (I	ISACE) I	flowage	easen	nent?
222.00	No (If yes, owner must provide approval from USACE f	1.50			1,50			
Source of Wate		er Collection	iiipiov	ements within t	ne oonot	- nowage	Cascino	siit)
4. SIGNATURE		o donedion						
	olication, I certify that:							
- The completed ar	oplication and all additional information submitted dat I am the property owner or I possess the appropr	loes not contain	any fals	e information	and does	not cor	nceal an	y material
property.						1000		
 Authorization is h site/soil evaluatio 	ereby given to the permitting authority and designate and inspection of private sewage facilities	ated agents to en	ter upo	n the above de	escribed	property	for the	purpose of
- I understand that	a permit of authorization to construct will not be issunty. Flood-Damage Prevention Order.	sued until the Flo	odplain	Administrator	has perf	ormed ti	he revie	ws required
- I affirmatively con	unty Flood Damage Prevention Order. sent to the online posting/public release of my e-m	ail address asso	ciated v	vith this permi	applicati	ion, as a	applicab	le.
4		7-	-21	-21				
Signature of O	wner	Date				-		Page 1 of 2



CYPRESS COVE, SECTION 9, LOT 608

REVISED8:06 am, Aug 10, 2022

* COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH * * *

APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

Planning Materials & Site Evaluation as Required Completed By GREG W. JOHNSON, P.E.
System Description PROPRIETARY; AEROBIC TREATMENT AND DRIP TUBING
Size of Septic System Required Based on Planning Materials & Soil Evaluation
Tank Size(s) (Gallons) NUWATER B550PC Absorption/Application Area (Sq Ft) 2000
Gallons Per Day (As Per TCEQ Table III)
is the property located over the Edwards Recharge Zone? Yes No (If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.))
Is there an existing TCEQ approved WPAP for the property? Yes No
(if yes, the R. S. or P. E. shall certify that the OSSF design complies with all provisions of the existing WPAP.)
If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP? Yes No (If yes, the R.S. or P. E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)
is the property located over the Edwards Contributing Zone? 🖾 Yes 🔲 No
is there an existing TCEQ approval CZP for the property? Yes No
(if yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP)
If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? Yes No (if yes, the P.E. or R.S. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to construct will) not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)
is this property within an incorporated city? Yes No
If yes, Indicate the city: GREG W. JOHNSON 67587 67587 FIRM #2585
By signing this application, I certify that: - The information provided above is true and correct to the best of my knowledge. - I affirmatively consent to the optine posting/public release of my e-mail address associated with this permit application, as applicable July 12, 2021

AFFIDAVIT

THE COUNTY OF COMAL STATE OF TEXAS

CERTIFICATION OF OSSF REQUIRING MAINTENANCE

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

T

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

II

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

9_	_ UNIT/PHASE/RECTION	BLOCK	688	_LOT	CYPRESS COVE	SUBDIVISION
ip:	NOT IN SUBDIVISION:	ACREAGE				SURVEY
	The property is owned by (a Texas limited liability comp	pany			AAID CONSTRUCTION, LLC	
	the initial two-year service	noticy, the OWI	er of 8	n Berobic tre	entract for the first two years. After eatment system for a single family 80 days or maintain the system	
	transferred to the buyer or obtained from the Comal (new owner. A County Engineer	copy o 's Offic	of the planni co. /	ermit for the OSSF shall be ng materials for the OSSF can be	
	WITNESS BY HAND(S) O	N THIS	DAY 0 	Juli	,20_21_	_
	Owner(s) signature(s)				In Torres - Manager 1) Printed name (8)	-
	John Torres		ORN 1	ro and sui	BSCRIBED BEFORE ME ON THIS	<u></u> DAY OF
	Cimbial	20_21			Filed and Recorded Official Public Records Bobbie Koepp, County	_
ļ	CYNTHIA AUTR CYNTHIA AUTR Notary Public, State of Comm. Expires 01-1	IEY of Taxes			Comal County, Texas 07/26/2021 11:24:31 A CHRISTY 1 Pages(s)	M
	Notary ID 11797	8-2024 885			202106039476	•

Bobble Koepp

Countryside Construction, Inc.

300 Chapman Parkway, Canyon Lake, TX. 78133

Phone: 830-899-2615 or 1-888-379-3721 Fax: 830-899-6662

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

Name: AAID CONSTRUCTION, LLC	Address: 196 GRANITE ROAD
Sub-Div./County: CYPRESS COVE / COMAL	City, State, Zip Code SPRING BRANCH, TX 78070
Downit #	ARSTREAM 600NC3T Serial #:
	AROTHERWOODINGST CONTAINS
Phone: 210-391-7158	
(X) Initial Two Year Service & Two Year Limite	d Warranty
CYPRESS COVE, SECTION 9, LOT 608,	COMAL COUNTY TEXAS
Legal Description:	OOM 12 00 011111, 127110
The effective date of the initial maintenance contract shall	pe the date the License to Operate is issued.
This contract will be in effect FROM: LTO TO:	
Countryside Construction, Inc. will provide the following	ng:
	On this set the second of the
An inspection every (4) four months which will includ	e: Servicing of the mechanical & electrical components as necessary to
insure system is functioning as engineer designed, p	ulling and cleaning the Norweco Brand aerator shaft, cleaning , conduct solids test to determine if system should be pumped, back
flushing tubing for drip irrigation fields and checking	enrinklers on above ground systems
ilusting tubing for drip irrigation fields and checking s	sprinkers on above ground systems.
1) The property owner is responsible for "purchasing an	d keeping chlorine" in the chlorinator, (if applicable).
If the chlorine test reveals "No Chlorine" in the system, the	e property owner may incur an additional cost.
2) If any improper operation is observed (which cannot be co	orrected at that time) the property owner will be
notified immediately of the conditions and the estimated of	cost.
 ANY PARTS, WARRANTY OR NON-WARRANTY, FRE 	IGHT CHARGES, LABOR OR SERVICE CALLS NOT PAID IN FULL
AT THE END OF (30) DAYS SHALL REMAIN THE PRO	PERTY OF COUNTRYSIDE CONSTRUCTION AND AUTHORIZES
CONTRACTOR TO REMOVE AND REPOSSESS ANY F	PARTS INSTALLED. CLIENT FURTHER AGREES TO PAY ANY
LABOR COST OF THE INSTALLATION AND REASON	ABLE COST OF REMOVAL OF SAID PARTS.
4) THE SIGNING OF THIS SERVICE AGREEMENT AUTH PROPERTY TO EXECUTE ALL TERMS OF THIS CONT	ORIZES COUNTRYSIDE CONSTRUCTION TO ENTER THE
PROPERTY TO EXECUTE ALL TERMS OF THIS CONT	RACI.
Countryside Construction Inc. will warranty installation of t	he septic system to be according to state and county regulations and the
designs approved by the county, HOMEOWNER WILL BE RE	ESPONSIBLE FOR SERVICE CALLS, LABOR AND SHIPPING COSTS
ON ANY "WARRANTIED PARTS" EXCHANGED DURING \	NARRANTY. All other components will be according to manufacturer's
warranties.	
Important: As Countryside Construction, Inc. cannot contro	what or how much effluent goes into this septic system, we cannot
	as installarly instructions for augustions on contic operation If

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

an additional cost. Chlorine, filters, or parts that are out of warranty are as	vailable at a reasonable cost.
This contract does not include the pumping of a tank or of any compar	tment of a tank, or settlement of soil on or around any
part of the system regardless of reason:	
Violations of the warranty also include: disconnecting the alarm, restrict rated capacity; or flooding by external means. Rodent, insect or fire ant of A renewal service contract should be "activated" (30) thirty days before owner prior to expiration of existing contract.	lamage or any other form of unusual abuse is a violation.
Serviced by: Countryside (Walker Chapman – Installer's Licensee #0S0002929-OSSF	Construction Inc. Maintenance Provider Licensee #MP0000035
(X) Print Name (X)	
Property Owner Signature	
(X) Walks Clupman Date: 7/21/21	_ Authorized Service Representative (revised 08/13/2020)

ON-SITE SEWERAGE FACILITY SOIL EVALUATION REPORT INFORMATION

Date Soil Survey Performed:	July 09, 2021	_
Site Location:		CYPRESS COVE, SECTION 9, LOT 608
Proposed Excavation Depth:	N/A	
		ormed on the site, at opposite ends of the proposed disposal area. e shown on the site drawing.

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

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

(Feet)	Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
4"	ш	CLAY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 4"	BROWN
3						

SOIL BORING	NUMBER SUR	FACE EVALUAT	ION			
Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0 1 2	SAME		AS		ABOVE	
3						
5						

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

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

01/09/2021

OSSF SOIL EVALUATION REPORT INFORMATION

Date: July 12, 2021	
Applicant Information:	Site Evaluator Information:
Name: AAID CONSTRUCTION, LLC.	Name: Greg W. Johnson, P.E., R.S, S.E. 11561
Address: 9330 CORPORATE DRIVE #103	Address: 170 Hollow Oak
City: SELMA State: TEXAS	City: New Braunfels State: Texas
Zip Code: 78154 Phone: (210) 391-7158	Zip Code: 78132 Phone & Fax (830)905-2778
Property Location:	Installer Information:
Lot 608 Unit 9 Blk Subd. CYPRESS COVE	
Street Address: 196 GRANITE ROAD	Company:
City: SPRING BRANCH Zip Code: 78070	Address:
Additional Info.:	City: State:
	Zip Code:Phone
Copography: Slope within proposed disposal area:	3 %
Presence of 100 yr. Flood Zone:	YESNO_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	YES NO_X
Organized sewage service available to lot	TITO
organized sewage service available to lot	YESNO_X

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. 67587 - S.E. 11561

01/12/2020

GREG W. JOHNSON

67587

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DRIP TUBING SYSTEM

DESIGNED FOR: AAID CONSTRUCTION, LLC 9330 CORPORATE DRIVE, #103 SELMA, TX 78154

SITE DESCRIPTION:

Located in a Replat & Extension of Cypress Cove, Section 9, Lot 608 at 196 Granite Road, the proposed system will serve a three bedroom residence (1395sf.) situated in an area with shallow Type-III soil as described in the Soil Evaluation Report. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this lot.

PROPOSED SYSTEM:

A 3-inch SCH-40 pipe discharges from the residence into a NuWater B550-400PT 600 gpd aerobic plant containing a 353-gallon pretreatment tank, an aerobic treatment plant, and a 768-gallon pump chamber containing a submersible (Franklin C1 20XC1-05P4-W115) well pump. The well pump is activated by a time controller allowing the distribution ten times per day with an 8 minute run time with float setting at 240 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron disc filter (Arkal) then through a 1" SCH-40 manifold to a 2000 sf. drip tubing field, with Netifim Bioline drip lines set approximately two feet apart with 0.61 gph emitters set every two feet, as per the attached schematic. A pressure regulator PMR-MF 30psi installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. A 1" SCH-40 return line is installed to periodically flush the system by cycling a 1" ball valve. Solids caught in the spin filter are flushed each cycle back to the trash tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Field area will be scarified and built up with 8" of Type II or Type III soil, then the drip tubing will be laid and capped with 6" of Type II or Type III soil (NOT) **SAND**). The field area will be sodded with grass prior to system startup. Tank must have at grade risers on each opening with watertight caps that must be at least 65# or have a padlock or can only be removed with tools. A secondary plug, cap, or suitable restraint must be provided below riser cap to prevent tank entry should the cap be damaged or removed, in compliance with Chapter §285.38.

DESIGN SPECIFICATIONS:

Daily waste flow: 240 GPD Table III Pretreatment tank size: 353 Gal

Plant Size: NuWater B550-400PT 600gpd (TCEQ Approved)

Pump tank size: 768 Gal



Reserve capacity after High Level: 80 Gal (1/3 day Req'd)

Application Rate: Ra = 0.2 gal/sf

Total absorption area: Q/Ra = 240 GPD/0.20 = 1200 sf. (Actual 2000 sf.) Total linear feet drip tubing: 1000' *Netifim Bioline* drip tubing .61 GPH Pump requirement: 500 emitters @ .61 gph @ 30 psi = 5.0833 gpm

Pump Requirement (cont.)(Franklin C1 20XC1-05P4-W115)

Dosing volume: 50-70 gal.

Pump Tank Calculations: 768 Gal (14.5 gal/in.)

Volume below working level = 15"= 218 gal

Working level = 240 gal = 17"

Reserve Requirement = 1/3 day = 80 gal. = 6"

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

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

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

 $MSV = 2(3.14159((.55/12)\uparrow 2)/4)*7.48*60$

MSV = 1.5 gpm MIN FLOW RATE x 3 = 4.5 gpm

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

 $MSV = 2 FPS (\Pi d \uparrow 2)/4*7.48 gal/cf*60 sec/min$

MSV = 2(3.14159((1.049/12)†2)/4)*7.48*60

MSV = 5.4 GPM

PIPE AND FITTINGS:

All pipes and fittings in this drip tubing system shall be 1" schedule 40 PVC. All joints shall be sealed with approved solvent-type PVC cement. Clipper type cutters are recommended to prevent PVC burrs during cutting of pipes causing possible plugging. Drip tubing 0.61 gph drip tubing to be used in field.

Designed in accordance with Chapter 285, Subchapter D, §285.30 and §285.40 Texas

Commission on Environmental Quality (Effective December 29, 2016)

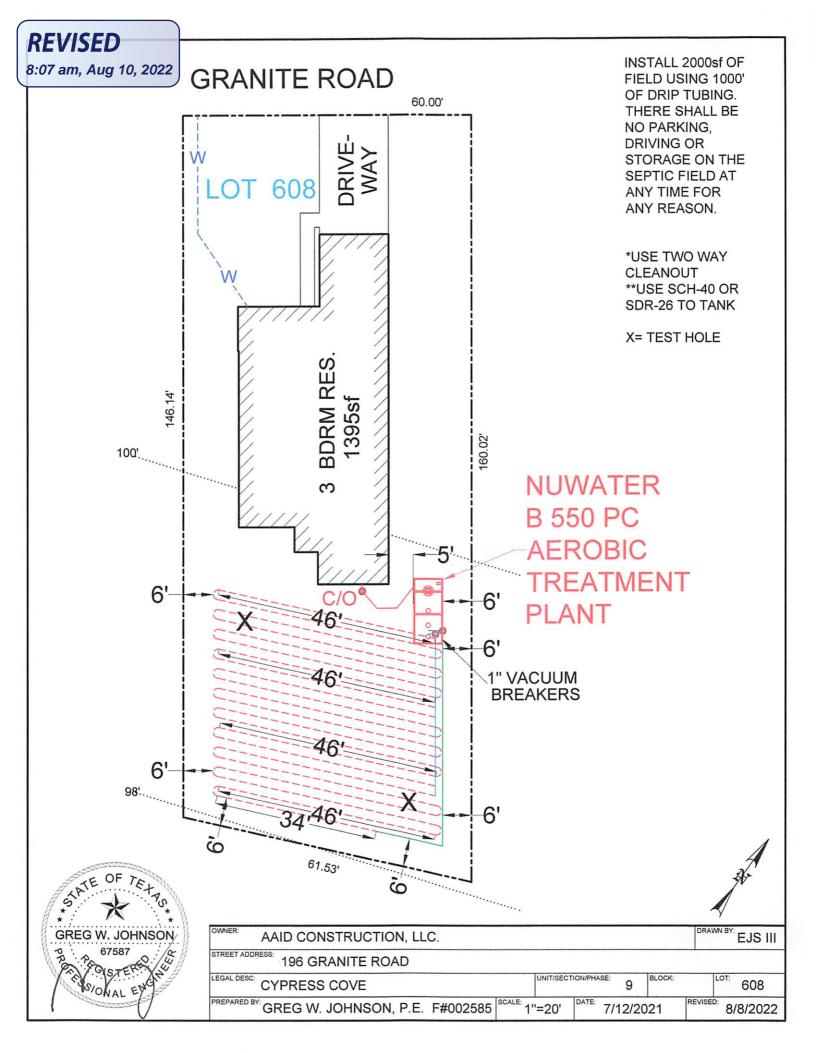
Greg W. Johnson, P.E.

No. 67587 - F-2585

170 Hollow Oak

New Braunfels, Texas 78132

830/905-2778



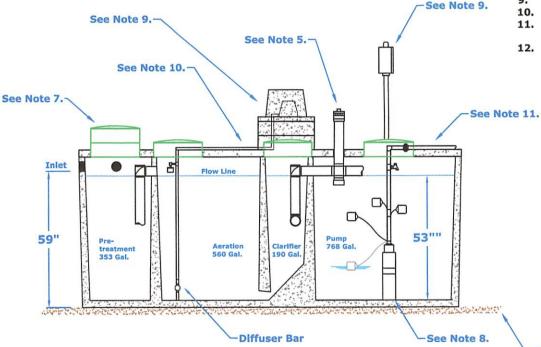
Assembly Details

OSSF

REVISED

8:07 am, Aug 10, 2022





GENERAL NOTES:

- 1. Plant structure material to be precast concrete and steel.
- 2. Maximum burial depth is 30" from slab top to grade.
- 3. 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.
- 8. 20 GPM 1/2 HP, high head effluent pump.
- 9. HIBLOW Air Compressor w/ concrete housing.
- 10. 1/2" Sch. 40 PVC Air Line (Max. 50 Lft from Plant).
- 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 12.

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

Model: B-550-PC-400PT

Scale:

By: A.S.

 All Dimensions subject to allowable specification tolerances.

Dwg. #: ADV-B550-3

March, 2012 - Rev 1



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



TANK NOTES:

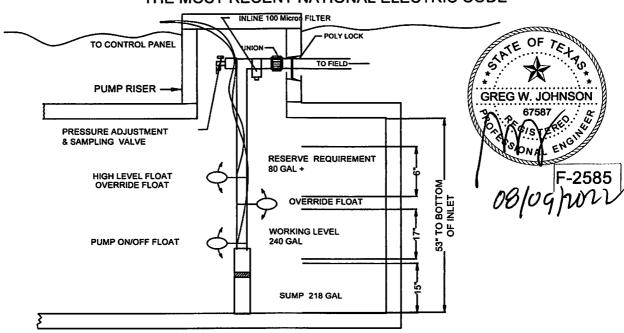
Tanks must be set to allow a minimum of 1/8" per foot fall from the residence.

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 NU-WATER 550PC -400PT 768 GAL PUMP TANK

* * * COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH * * *

APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

Planning Materials & Site Evaluation as Required Completed By <u>GREG W. JOHNSON, P.E.</u>	<u></u>
System Description PROPRIETARY; AEROBIC TREATMENT AND DRIP TUBING	_
Size of Septic System Required Based on Planning Materials & Soil Evaluation	
Tank Size(s) (Gallons)CLEARSTREAM 600NC3TAbsorption/Application Area (Sq Ft)	
Gallons Per Day (As Per TCEQ Table III) 240 (Sites generating place than 5000 gallons per day are required to obtain a permit through TCEQ)	
Is the proper y located over the Edwards Recharge Zone? Yes No (If yes, the plaining materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.)) Is there an existing TCEQ approved WP over the poerty? Yes (if yes, the R. or P. E. shall constitute that the SF development by the provided of the uting WPAP. If there is no existing WPAP, we see the OSSF of a will compare the all approved AP? Yes No (If yes, the R.S. or P. E. shall cell to be defended by the proposed Order of the proposed Or	
Is the properly located over the Edwards Contributing Zone? Yes No Is there an existing TCEQ approval CZP for the property? Yes No (if yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP) If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? Yes No (if yes, the P.E. or R.S. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to construct will) not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)	
Is this property within an incorporated city? Yes No If yes, indicate the city: GREG W. JOHNSON	
FIRM #2585	
By signing this application, I certify that: - The information provided above is true and correct to the best of my knowledge. - I affirmatively consent to the optine posting/public release of my e-mail address associated with this permit application, as applicable	
Signature of Designer	~f ^
Sighature of Designer Date Page 2 of	л Z

DRIP TUBING SYSTEM

DESIGNED FOR: AAID CONSTRUCTION, LLC 9330 CORPORATE DRIVE, #103 SELMA, TX 78154

SITE DESCRIPTION:

Located in a Replat & Extension of Cypress Cove, Section 9, Lot 608 at 196 Granite Road, the proposed system will serve a three bedroom residence (1395sf.) situated in an area with shallow Type-III soil as described in the Soil Evaluation Report. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this l

PROPOSED SYSTEM:

into Clearstream NC3T 600 gr Α -inch SCH-40 pipe discharges from the residence aer bic plant c 70 -gallon pum l pump. The we es per day w A high lev tim audible and visu flu hing 100 mic tub ng field, with apart with 0.61 gp em tters set every two feet, as per the attached schematic. A pressure regulator PMR-M 30 si installed in the pump tank on the manifold to the field will maintain pressure at 30 SCH-40 return line is installed to periodically flush the system by cycling a cuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Field area will be scarified and built up with 8" of Type II or Type III soil, then the drip tubing will be laid and capped with 6" of Type II or Type III soil (NOT SAND). The field area will be sodded with grass prior to system startup. Tank must have at grade risers on each opening with watertight caps that must be at least 65# or have a padlock or can only be removed with tools. A secondary plug, cap, or suitable restraint must be provided below riser cap to prevent tank entry should the cap be damaged or removed, in compliance with Chapter §285.38.

DESIGN SPECIFICATIONS:

Daily waste flow: 240 GPD Table III Pretreatment tank size: 428Gal

Plant Size: Clearstream NC3T 600gpd (TCEQ Approved)

Pump tank size: 700 Gal

Reserve capacity after High Level: 80 Gal (1/3 day Req'd)

Application Rate: Ra = 0.2 gal/sf

Total absorption area: Q/Ra = 240 GPD/0.20 = 1200 sf. (Actual 2000 sf.) Total linear feet drip tubing: 1000' *Netifim Bioline* drip tubing .61 GPH Pump requirement: 500 emitters @ .61 gph @ 30 psi = 5.0833 gpm Pump Requirement (cont.): (0.5 HP Clearstream P-20 pump or equiv.)

Dosing volume: 50-70 gal.

Pump Tank Calculations: 700 Gal (14.5 gal/in.)

Volume below working level = 15"= 148 gal

Working level = 240 gal = 20"

Reserve Requirement = 1/3 day = 80 gal. = 6.5"

MINIMUM SCOUT VELOCITY (MOY) - 2 FDS

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

 $MSV = 2 FPS (\Pi d \uparrow 2)/4*7.48 gal/cf*60 sec/min$

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

RETURN N IIFOV N/Y A. DIA. "III

 $MSV = \frac{1}{2} \frac{1}{4} \frac{1}{4$

MSV = 4

PIPE AND FITTINGS:

IN

Altoipes and fittings in this drip tubing system shall be 1" schedule 40 PVC. All joints shall be solved with approved solvent-type PVC cement. Clipper type cutters are recommended to prevent PVC burns during cutting or pipes causing possible plugging. Drip tubing 0.61 gph drip tubing to be used in field.

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

Greg W. Johnson, P.E.

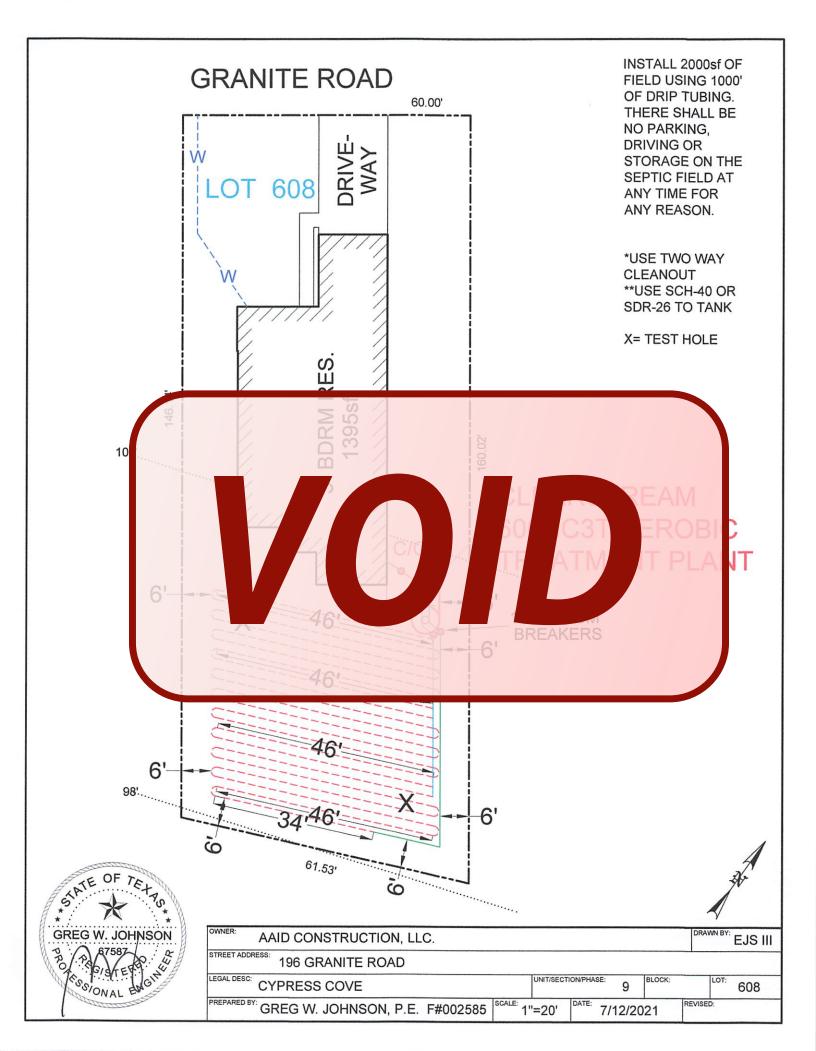
No. 67587 - F-2585

170 Hollow Oak

New Braunfels, Texas 78132

830/905-2778





TANK NOTES:

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

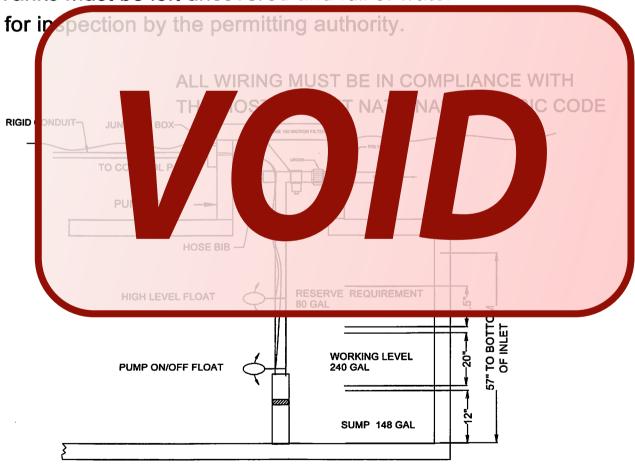
Tightlines to the tank shall be SCH-40 PVC.

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

Tanks must be left uncovered and full of water



TYPICAL PUMP TANK CONFIGURATION
CLEARSTREAM 600NC3T W/ 700 GAL PUMP TANK

Arkal 1" Super Filter

Catalog No. 1102 0___

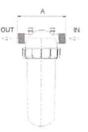
Features

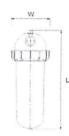
- A "T" shaped filter with two 1" male threads.
- A "T" volume filter for in-line installation on 1" pipelines.
- The filter prevents clogging due to its enlarged filtering area that collects sediments and particles.
- Manufactured entirely from fiber reinforced plastic.
- · A cylindrical column of grooved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



Technical Data

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





Filtration Grades

Blue (400 micron / 40 mesh)

Yellow (200 micron / 80 mesh)

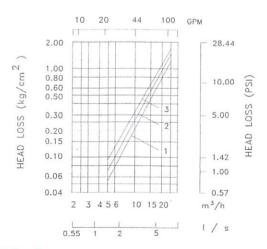
Red (130 micron / 120 mesh)

(100 micron /140 mesh)

Green (55 micron)

Black

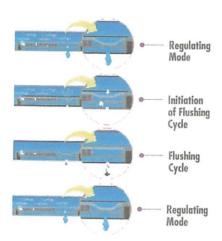
Head Loss Chart



NETAFIM

Bioline® Dripperline

Pressure Compensating Dripperline for Wastewater



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

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



Product Advantages

The Proven Performer

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

Quality Manufacturing with Specifications Designed to Meet Your Needs

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

Long-Term Reliability

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

Cross Section of Bioline Dripperline



Root Safe

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



Applications

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

Specifications

Wall thickness (mil): 45*

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

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

Recommended filtration: 120 mesh

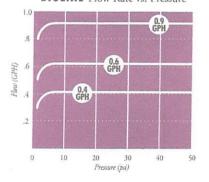
Inside diameter: .570*

Color: Purple tubing indicates non-potable

source

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

BIOLINE Flow Rate vs. Pressure





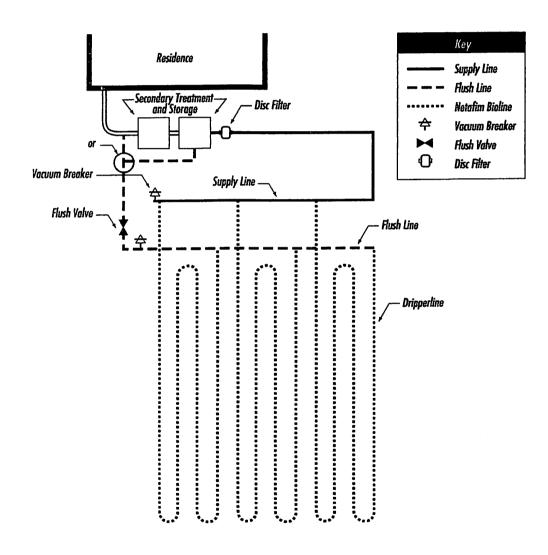
NETAFIM USA 5470 E. Home Ave. • Fresno, CA 93727 888.638.2346 • 559.453.6800 FAX 800.695.4753 www.netafimusa.com

SAMPLE DESIGNS

SINGLE TRENCH LAYOUT

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

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



OKOVORALIPLYX ACIOSALATIL AS

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

GENERAL WARRANTY DEED RESERVING VENDOR'S LIEN IN FAVOR OF THIRD PARTY

THE STATE OF TEXAS

§ KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF COMAL

THAT BES STRATEGIC INVESTMENTS, LLC, hereinafter called Grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS (\$10.00) cash and other good and valuable consideration in hand paid by AAID CONSTRUCTION LLC, a Texas limited liability company, hereinafter called Grantee, the receipt and sufficiency of which is hereby acknowledged and confessed, and the further consideration of the execution and delivery by Grantee of one certain Promissory Note of even date herewith in the principal sum of ONE HUNDRED NINETY-ONE THOUSAND, TWO HUNDRED AND NO/100 (\$191,200.00) DOLLARS, payable to the order of JEFFERSON BANK, hereinafter called Mortgagee, said Note being payable as therein provided, bearing interest at the rate therein specified, providing for attorney's fees and acceleration of maturity at the rate and in the events therein set forth, and payment of said Note being secured by a vendor's lien and superior title retained herein in favor of said Mortgagee and by Deed of Trust of even date herewith from Grantee to DANNY B. BUTLER, Trustee, to which reference is hereby made for all purposes; and,

WHEREAS, Mortgagee has, at the special instance and request of said Grantee herein, paid to Grantor herein \$191,200.00 of the purchase money for the property hereinafter described as represented by the above described Note, said Note, together with the vendor's lien and Deed of Trust Lien against said property securing the payment of said Note is, without recourse upon the Grantor herein, hereby assigned, transferred and delivered to Mortgagee, the Grantor hereby conveying to the said Mortgagee the said superior title to said property, and subrogating the said Mortgagee unto all the rights and remedies of Grantor in the premises by virtue of said Note and liens; the indebtedness evidenced by said Note being due and payable as therein provided, both principal and interest being due and payable at the office of JEFFERSON BANK;

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

Lot 608 of CYPRESS COVE SECTION NINE, a subdivision in Comal County, Texas according to the plat recorded in Volume 2, Page 66 of the Map and Plat Records of Comal County, Texas.

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

It is expressly agreed and stipulated that a vendor's lien is retained in favor of the payee in said Note against the above described property, premises and improvements, until said Note, and all interest thereon, is fully paid according to the face and tenor, effect and reading thereof, when this deed shall become absolute.

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

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

Grantor does hereby bind Grantor, Grantor's heirs, executors, administrators and successors to warrant and forever defend, all and singular, the said premises unto the said

Grantee, Grantee's heirs, executors, administrators, successors and assigns, against every person whomsoever claiming or to claim the same or any part thereof.

DATED this the 21st day of March, 2021...

BES STRATEGIC INVESTMENTS, LLC

BY:

ERIK SAENGERHAUSEN, Member

STATE OF TEXAS
COUNTY OF COMA

§ §

This instrument was acknowledged before me on the Alay of March, 2021, by ERIK SAENGERHAUSEN, Member of BES STRATEGIC INVESTMENTS, LLC.

Notary Public in a

and for the State of Texas

GRANTEE'S MAILING ADDRESS:

1975 Incociato

New Brownsels TX 78132

103,DEEDS Old Republic Title Co. (AH) GF #11448nb ANGIE HEIDRICH HICKS
My Notary ID # 124642994
Expires October 17, 2021

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
06/01/2021 04:13:57 PM
CSCHUL 3 Pages(s)
202106029437



A B C D E F

W E Feet Page 27

Produced by the Comal County Engineer's Office - 7/1/2021