Comal County Environmental Health OSSF Inspection Sheet

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)(A) 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:

Comal County Environmental Health OSSF Inspection Sheet

	B	A	C't at a		4	2-11	211.
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
8	SEPTIC TANK Tank(s) Clearly 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)(C) (i)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)				
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 Installed						
	PUMP TANK Volume Installed						
13	AEROBIC TREATMENT UNIT Size Installed						
14	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)				
	DISPOSAL SYSTEM Drip Irrigation		285.33(c)(3)(A)-(F)				
18							

Comal County Environmental Health OSSF Inspection Sheet

	B		6 11.11		4.11	2.11	0.11
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
32	EFFLUENT DISPOSAL SYSTEM Utilized Only by Single Family Dwelling EFFLUENT DISPOSAL SYSTEM Topographic Slopes < 2.0% EFFLUENT DISPOSAL SYSTEM Adequate Length of Drain Field (1000 Linear ft. for 2 bedrooms or Less & an additional 400 ft. for each additional bedroom) EFFLUENT DISPOSAL SYSTEM Lateral Depth of 18 inches to 3 ft. & Vertical Separation of 1ft on bottom and 2 ft. to restrictive horizon and ground water respectfully EFFLUENT DISPOSAL SYSTEM Lateral Drain Pipe (1.25 - 1.5" dia.) & Pipe Holes (3/16 - 1/4" dia. Hole Size) 5 ft. Apart		285.33(b)(3)(A) 285.33(b)(3)(A) 285.33(b)(3) (B)285.91(13) 285.33(b)(3)(D) 285.33(b)(3)(F)				
	AEROBIC TREATMENT UNIT IS Aerobic Unit Installed According to Approved Guidelines.		285.32(c)(1)				
	AEROBIC TREATMENT UNIT Inspection/Clean Out Port & Risers Provided AEROBIC TREATMENT UNIT Secondary restraint system provided AEROBIC TREATMENT UNIT Riser permanently fastened to lid or cast into tank AEROBIC TREATMENT UNIT Riser cap protected against unauthorized intrusions						
	AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place.						
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						

Comal County Environmental Health OSSF Inspection Sheet

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: 118593

Issued This Date: 05/19/2025

This permit is hereby given to: TALEM HOMES, LLC

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

328 COMPASS ROSE

CANYON LAKE, TX 78133

Subdivision: THE SUMMIT NORTH

Unit: 4

Lot: 183

Block: 0

Acreage: 0.6500

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.

Preliminary Field Check For Drip Systems





ON-SITE SEWAGE FACILITY APPLICATION

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

MAN CCTO OBO

DateFeb	niary 18, 2025		Permit N	118593
	AGENT INFORMATION			
Owner Name				
Owner Name	TALEM HOMES, LLC	Agent Name _		GREG JOHNSON, P.E.
Mailing Address	5000 PLAZA ON THE LAKE # 180			170 HOLLOW OAK
City, State, Zip	AUSTIN TEXAS 78746	City, State, Zip _	NEW	V BRAUNFELS TEXAS 78132
Phone #	512-524-6560	Phone #		830-905-2778
Email	crissty.talemhomes@gmail.com	Email		gregjohnsonpe@yahoo.com
2. LOCATION Subdivision Name	e THE SUMMIT NORTH	FU	- ,	Let 192 Block
			4	Lot 183 Block
	bstract Number			Acreage
3. TYPE OF DEV	328 COMPASS ROSE	City CANYON	LAKE	StateTXZip78133
Single Fam				
	enstruction (House, Mobile, RV, Etc.)	HOUSE		
Number of		110000		
	Ft of Living Area 2912			
	Family Residential			
_	aterials must show adequate land area for doubling	the required land neede	d for treat	ment units and disposal area)
	cility			,
	actories, Churches, Schools, Parks, Etc Indica		ants	
	ts, Lounges, Theaters - Indicate Number of Sea		_	
	el, Hospital, Nursing Home - Indicate Number o			
	iler/RV Parks - Indicate Number of Spaces			
Miscellane				
Estimated Cos	t of Construction: \$	(Structure Only)		
Is any portion (of the proposed OSSF located in the United Sta	ates Army Corps of E	ngineers	(USACE) flowage easement?
Yes 🔀	No (If yes, owner must provide approval from USACE for	proposed OSSF improve	ments withi	in the USACE flowage easement)
Source of Wate	er 🔀 Public 🗌 Private Well 🔲 Rainwater	Collection		
4. SIGNATURE	OF OWNER			
 The completed ap facts. I certify that 	lication, I certify that: plication and all additional information submitted do t I am the property owner or I possess the appropria	es not contain any false te land rights necessary	information to make t	on and does not conceal any material the permitted improvements on said
site/soil evaluation I understand that if by the Comal Cou	ereby given to the permitting authority and designate in and inspection of private sewage facilities in permit of authorization to construct will not be issu- unty Flood Damage Prevention Order.	ed until the Floodplain	Administra	ator has performed the reviews required
10	Contract to the contract of th			The second secon
		41/2	175	-



ON-SITE SEWAGE FACILITY APPLICATION

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

Planning Materials & Site Evaluation as Required Completed By GREG W. JOHNSON, P.E
System Description PROPRIETARY; AEROBIC TREATMENT AND DRIP TUBING
Size of Septic System Required Based on Planning Materials & Soil Evaluation
Tank Size(s) (Gallons) SOLAR AIR SA600LP Absorption/Application Area (Sq Ft)
Gallons Per Day (As Per TCEQ Table III)300 (Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ)
Is the property located over the Edwards Recharge Zone? Yes No (If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.))
Is there an existing TCEQ approved WPAP for the property? Yes No
(if yes, the R. S. or P. E. shall certify that the OSSF design complies with all provisions of the existing WPAP.)
Is there at least one acre per single family dwelling as per 285.40(c)(1)? Tyes No
If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP? Yes No
(If yes, the R.S. or P. E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)
Is the property located over the Edwards Contributing Zone? 🛛 Yes 🔲 No
Is there an existing TCEQ approval CZP for the property?
(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 approved by th
Is this property within an incorporated city? Yes No
If yes, indicate the city: GREG W. JOHNSON OF GREG W. JOHNSON OF GREG W. JOHNSON OF 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 online posting/public release of my e-mail address associated with this permit application, as applicable
Signature of Designer Page 2 of 2

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.

1

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.

11

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):

4	_UNITEHASE SECTION	BLOCKi	B3	_LOT	THE SUMMIT NORTH	SUBDIVISION
IF !	NOT IN SUBDIVISION:	ACREAGE _				SURVEY
	The property is owned by ((insert owner's fa	ll ea	me):	ALEM HOMES, LLC, a Texas limited	liability company
	the initial two-year service	policy, the owner	of a	ın aerobic i	contract for the first two years, Aft treatment system for a single family a 30 days or maintain the system	
	Upon sale or transfer of the transferred to the buyer or obtained from the Comai C	new owner. A co	py c	of the plan	permit for the OSSF shall be ning materials for the OSSF can be	,
	WITNESS BY HAND(S) O	ON THIS <u>22</u> DA	YO	APR	,20 <u>25</u>	
	x SS		-		Juan Ofaz - MANA	GER
	Owner(s) signature(s)			Ovna	(s) Printed name (s)	
-	JUAN DIAZ		RN'	TO AND S	UBSCRIBED BEFORE ME ON TH	IS_22_DAY OF
	APRIL Notary Public Sign GREG W. Hotary Public, Comm. Expire Notary ID 1	JOHNSON State of Texas e 05-17-2020		Off Bol Cor 04/2 TA	ed and Recorded icial Public Records obie Koepp, County Cle mal County, Texas 23/2025 08:28:18 AM MMY 1 Pages(s) 506011600	rk
					Bobbie 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 the	s service contract, we will abide	by and agree to its terms and conditions
-------------------------------------	-----------------------------------	--

Name: TALEM HOMES, LLC	Address: 328 COMPASS ROSE
Sub-Div./County: THE SUMMITH NORTH / COMAL	City, State, Zip Code CANYON LAKE, TX 78133
Permit #: TYPE, Model# & SIZE: SOLA	R AIR SA600LP Serial #:
Phone: 512-524-6560	
Advancement of the control of the co	
(X) Initial Two Year Service & Two Year Limited	Warranty
Legal Description: LOT 183, THE SUMMITH NORTH, PHASE	4, COMAL COUNTY
The effective date of the initial maintaness and their hell by	a the data the Liganos to Operate is insued
The effective date of the initial maintenance contract shall be This contract will be in effect FROM: LTO TO:	e the date the License to Operate is issued.
Countryside Construction, Inc. will provide the following	1:
insure system is functioning as engineer designed, pul	Servicing of the mechanical & electrical components as necessary to lling and cleaning the Norweco Brand aerator shaft, cleaning conduct solids test to determine if system should be pumped, back
nashing tabing for any imgation lields and checking sp	minimiers of above ground systems.
1) The property owner is responsible for "purchasing and	keeping chlorine" in the chlorinator, (if applicable).
If the chlorine test reveals "No Chlorine" in the system, the	
 If any improper operation is observed (which cannot be connotified immediately of the conditions and the estimated connotified immediately). 	
3) ANY PARTS, WARRANTY OR NON-WARRANTY, FREIG	SHT CHARGES, LABOR OR SERVICE CALLS NOT PAID IN FULL
AT THE END OF (30) DAYS SHALL REMAIN THE PROP CONTRACTOR TO REMOVE AND REPOSSESS ANY PA	ERTY OF COUNTRYSIDE CONSTRUCTION AND AUTHORIZES ARTS INSTALLED. CLIENT FURTHER AGREES TO PAY ANY
LABOR COST OF THE INSTALLATION AND REASONAL	BLE COST OF REMOVAL OF SAID PARTS. RIZES COUNTRYSIDE CONSTRUCTION TO ENTER THE
4) THE SIGNING OF THIS SERVICE AGREEMENT AUTHO PROPERTY TO EXECUTE ALL TERMS OF THIS CONTR	
	NAMES NO.
designs approved by the county. HOMEOWNER WILL BE RES ON ANY "WARRANTIED PARTS" EXCHANGED DURING WA	e septic system to be according to state and county regulations and the SPONSIBLE FOR SERVICE CALLS, LABOR AND SHIPPING COSTS ARRANTY. All other components will be according to manufacturer's
warranties.	what or how much effluent goes into this septic system, we cannot
warranty how the system will function. Refer to manufacturers necessary, between inspections, it is the property owner's responservice agreement does not cover the cost of "service calls, late to maintain electrical power to the system, sprinklers that are liftows exceeding the hydraulic/organic design capabilities and the etc.), or any usage contrary to the requirements as advised by an additional cost. Chlorine, filters, or parts that are out of warrantees.	or installer's instructions, for suggestions on septic operation. If onsibility to clean the micron filters on drip irrigation systems. This abor or materials that are required or parts out of warranty, the failure broken, leaking, stopped-up or otherwise mal-functioning; or sewage he input of non-biodegradable materials (solvents, grease, oil, paints, authorized service representative. Laboratory test work is available at anty are available at a reasonable cost.
This contract does not include the <u>pumping of a tank</u> or of any part of the system regardless of reason:	y compartment of a tank, or settlement of soil on or around any
Violations of the warranty also include: disconnecting the alar rated capacity; or flooding by external means. Rodent, insect or	rm, restricting ventilation to the aerator, overloading the system above its r fire ant damage or any other form of unusual abuse is a violation. ays before expiration of existing contract. We will contact property
Serviced by: Co.	untryside Construction Inc.
	-OSSF Maintenance Provider Licensee #MP0000035

Print Name (X) Dugu Dic7 Date: 418/25

Authorized Service Representative (revised 08/13/2020)

Property Owner Signature

ON-SITE SEWERAGE FACILITY SOIL EVALUATION REPORT INFORMATION

Date Soil Survey Performed:	February 18, 2025	
Site Location:	The SUMMIT	NORTH, PHASE 4, LOT 183
Proposed Excavation Depth:	N/A	
Locations of soil boring	or dug pits must be shown on the si	at opposite ends of the proposed disposal area. te drawing. 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
12"	Ш	CLAY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 12"	BROWN
8						
·						

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

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

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

Date

OSSF SOIL EVALUATION REPORT INFORMATION

Applicant Information: Site Evaluator Information: Name: TALEM HOMES, LLC. Name: Greg W. Johnson, P.E., R.S., S.E. 11561 Address: 5000 PLAZA ON THE LAKE SUITE 180 Address: 170 Hollow Oak City: AUSTIN TEXAS State: City:_New Braunfels State: Texas 78746 Phone: (512) 524-6560 Zip Code: ___ Zip Code: 78132 Phone & Fax (830)905-2778 **Property Location:** Installer Information: Lot 183 Unit 4 Blk Subd. The SUMMIT NORTH Name: Street Address: **328 COMPASS ROSE** Company: CANYON LAKE Zip Code: 78133 City: Address: Additional Info.: City:_____ State: Zip Code: _____ Phone Topography: Slope within proposed disposal area: REGRADE TO 20 % Presence of 100 vr. Flood Zone: YES NOXExisting 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 YES NO 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

Date: February 19, 2025

02/19/25 DATE GREG W. JOHNSON

80 PEGISTERED

10 P

FIRM #2585

AEROBIC TREATMENT DRIP TUBING SYSTEM

DESIGNED FOR: TALEM HOMES, LLC 3188 RUSTLER CANYON LAKE, TEXAS 78133

SITE DESCRIPTION:

Located in The Summit North, Phase 4, Lot 183, at 328 Compass Rose, the septic system will serve a four bedroom residence (2912 sf.) situated in an area with shallow Type III soil as described in the Soil Evaluation Report. Native grasses and oak trees were found throughout this property. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this lot.

PROPOSED SYSTEM:

A 3 or 4-inch SCH-40 pipe discharges from the residence into a Solar Air SA600LP 600gpd aerobic treatment plant containing a 376 gal. pretreatment chamber and a 778 gal. pump chamber. The effluent after processing gravity feeds into the pump chamber. The pump chamber contains a 0.5 HP submersible 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 300 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 2400 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 40psi installed in the pump tank on the manifold to the field will maintain pressure at 40 psi. A 1" SCH-40 return line is installed to continuously flush the system by throttling a 1" ball valve to the pump tank. Solids caught in the Arkal disc filter are flushed each cycle back to the trash tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Prior to installing the dripfield the field area must be regraded to approximately twenty percent slope. Field area will then be scarified and built up with 2" 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). A minimum of 12" soil required between rock and drip tubing. The field area will be covered with Curlex erosion control blankets and heavily seeded or sodded with grass prior to system startup. Risers are required on tank inspection ports as per 30 TAC 285.38 (9/1/2023). This includes access limitation (<65lbs lid or hardware secured lid), inspection and cleanout ports shall have risers over the port openings which extend to a minimum of two inches above grade. A secondary plug, cap, or other suitable restraint system shall be provided below the riser cap to prevent tank entry if the cap is unknowingly damaged or removed.

DESIGN SPECIFICATIONS:

Daily waste flow: 300 GPD Table III Pretreatment tank size: 376 Gal

Plant Size: Solar Air SA-600LP 600gpd ATU (TCEQ Approved)

Pump tank size: 778Gal

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

Application Rate: Ra = 0.2 gal/sf

Total absorption area: Q/Ra = 300 GPD/0.20 = 1500 sf. (Actual 2400 sf.) Total linear feet drip tubing: 1200' *Netifim Bioline* drip tubing .61 GPH

Pump requirement: 600 emitters @ .61 gph @ 30 psi =6.1gpm

Pump: 0.5 HP FPS E-Series 20FE05P4-2W115 submersible pump or equivalent

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

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

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

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

MSV = 1.5 gpm PER LINE * 4 LINES = 6 GPM MIN FLOW RATE

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.

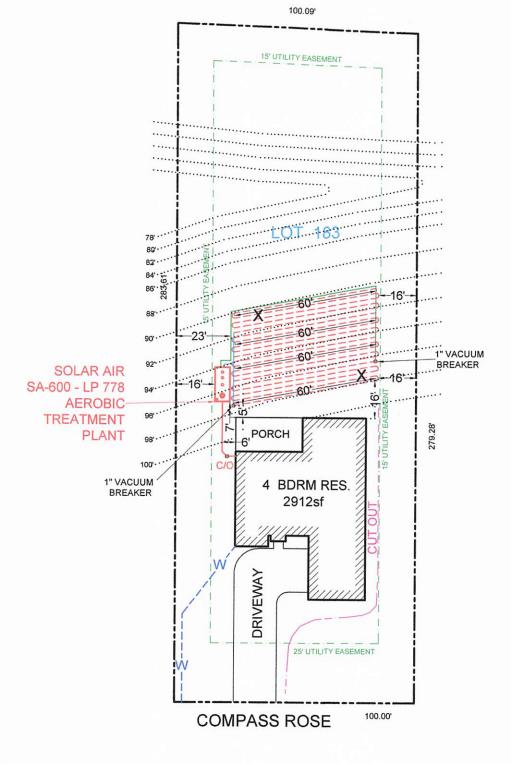
Designed in accordance with Chapter 285, Subchapter D, §285.30 and §285.40 Texas Commission On Environmental Quality. (Effective December 29, 2016)

Greg W. Johnson, L.E. No. 67587 / F-25

170 Hollow Oak

New Braunfels, Texas 78132

830/905-2778



INSTALL 2400sf OF FIELD USING 1200' OF DRIP TUBING. THERE SHALL BE NO PARKING, DRIVING OR STORAGE ON THE SEPTIC FIELD AT ANY TIME FOR ANY REASON.

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

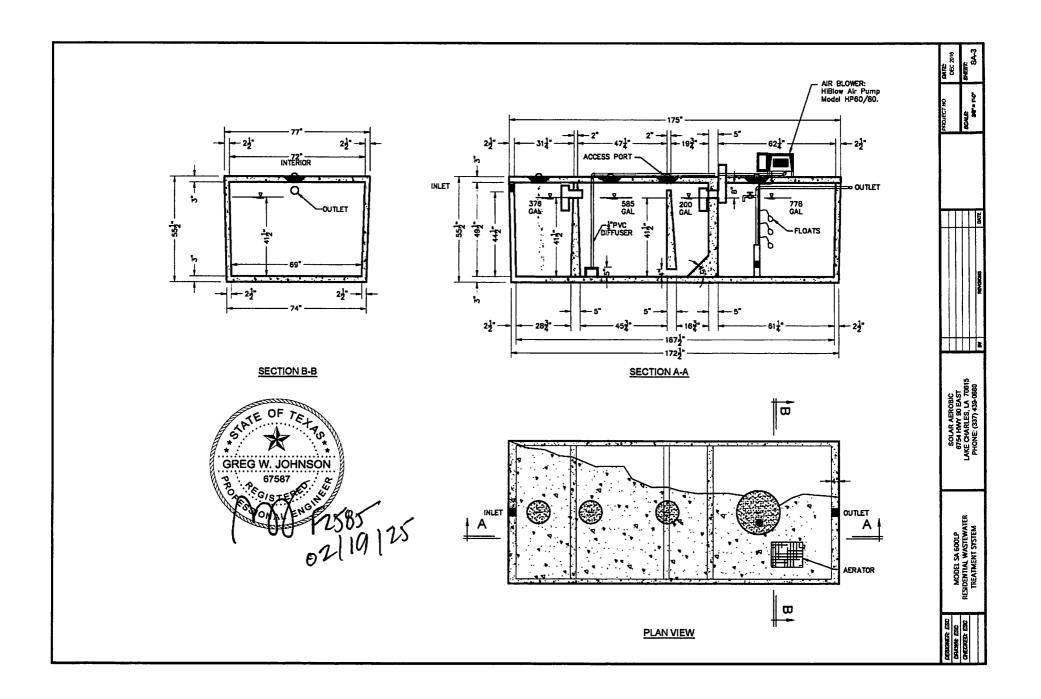
X= TEST HOLE

NOTE: REGRADE SEPTIC FIELD AREA TO 20%.



OWNER: TALEM HOMES, LLC.			DRAWN BY: EJS III
328 COMPASS ROSE			
LEGAL DESC: The SUMMIT NORTH	UNIT/SECTION/PHASE:	BLOCK:	^{LOТ:} 183
PREPARED BY: GREG W. JOHNSON, P.E. F#002585	1"=40' DATE: 2/19/2	2025	REVISED:





TANK NOTES:

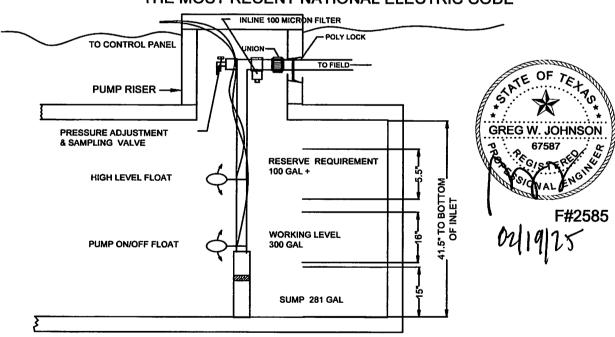
Tanks must be set to allow a minimum of 1/8" per foot fall from the residence.

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

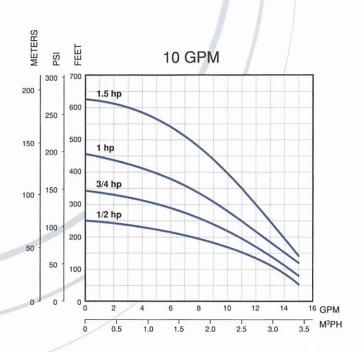
ALL WIRING MUST BE IN COMPLIANCE WITH THE MOST RECENT NATIONAL ELECTRIC CODE



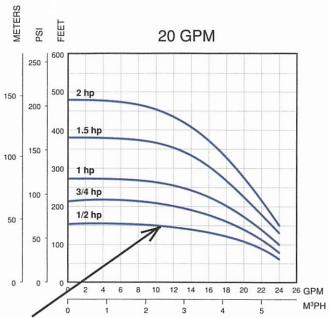
TYPICAL PUMP TANK CONFIGURATION SOLAR-AIR SA-600 LP 778 GAL PUMP TANK

Environmental Series Pumps

FP5



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

Arkal 1" Super Filter

Catalog No. 1102 0___

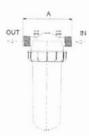
Features

- 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

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





Filtration Grades

Blue (400 micron / 40 mesh)

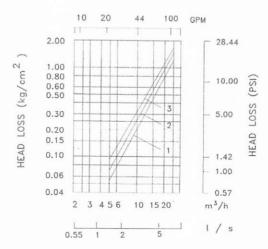
Yellow (200 micron / 80 mesh)

Red (130 micron / 120 mesh)

Black (100 micron /140 mesh)

Green (55 micron)

Head Loss Chart





PMR-MF

PRESSURE-MASTER REGULATOR - MEDIUM FLOW

Specifications

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

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

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

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

Outlet

3/4-inch Female National Pipe Thread (FNPT) 1-inch Female National Pipe Thread (FNPT)

1-inch Female British Standard Pipe Thread (FBSPT) 1-inch Female British Standard Pipe Thread (FBSPT)

34-inch Female National Pipe Thread (FNPT)

1-inch Female National Pipe Thread (FNPT)

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

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

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

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

Physical

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

Overall Length 5.2 inches (13.1 cm)

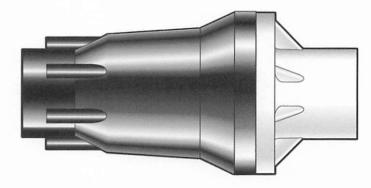
Overall Width 2.5 inches (6.4 cm)

1" FNPT x 1" FNPT model

1" FBSPT x 1" FBSPT model

5.8 inches (14.6 cm) Overall Length

Overall Width 2.5 inches (6.4 cm)



Please consult factory for applications outside of recommended guidelines.



PMR-MF

PRESSURE-MASTER REGULATOR - MEDIUM FLOW

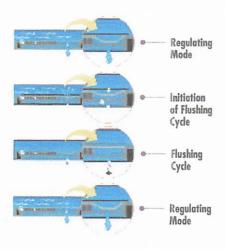
Model Numbers

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



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



KECHFILTE.

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

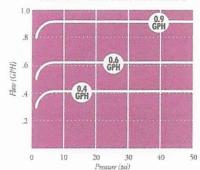
Inside diameter: .570*

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





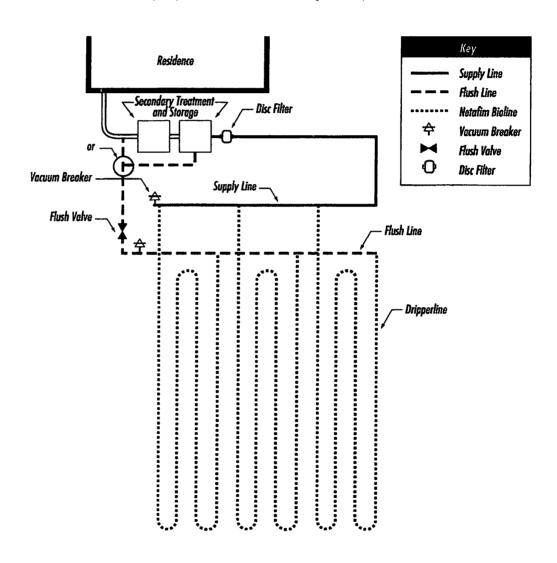
NETAFIM USA 5470 E. Home Ave. • Fresno, CA 93727 888.638.2346 • 559.453.6800 FAX 800.695.4753 www.netafimusa.com

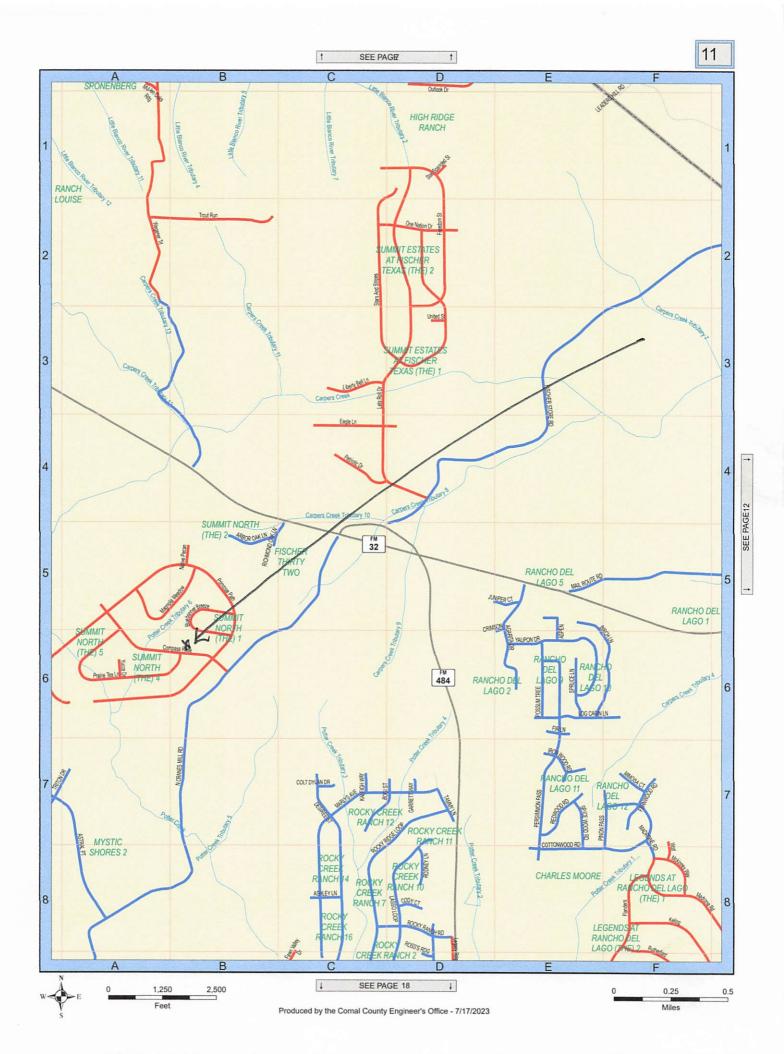
SAMPLE DESIGNS

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







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

2429183-BKW ITC/JKC

WARRANTY DEED WITH VENDOR'S LIEN

Effective Date: December 16, 2024

Grantor: LOAN RANGER CAPITAL INVESTMENTS, LLC

Grantor's Address: 5000 Plaza on the Lake, Ste. 180

Austin, Texas 78746

Grantee: TALEM HOMES, LLC, a Texas limited liability company

Grantee's Address: 3380 Catalina Cove

Round Rock, Texas 78665

Consideration: Ten and No/100 Dollars and other good and valuable consideration the receipt of which is hereby acknowledged and a note of even date that is in the principal amount of \$708,319.00 and is executed by Grantee, payable to the order of LOAN RANGER CAPITAL INVESTMENTS REIT, LLC ("Lender"). The note is secured by a vendor's lien retained in favor of the Lender in this deed and by a deed of trust, of even date from Grantee to BENJAMIN K. WILLIAMS or BENJAMIN H. HA, Trustee.

Property (including any improvements):

Lot 183, THE SUMMIT NORTH, PHASE 4, situated in Comal County, Texas, according to the map or plat thereof, recorded in Volume 13, Pages 150-153, Map and Plat Records, Comal County, Texas.

Reservations from Conveyance: None

Exceptions to Conveyance and Warranty:

Liens described as part of the Consideration and any other liens described in this deed as

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Page 1 of 3

being either assumed or subject to which title is taken; validly existing easements, rights-of-way, and prescriptive rights, whether of record or not; validly existing restrictive covenants common to the subdivision in which the Property is located; all presently recorded and validly existing reservations, conditions, oil and gas leases, mineral interests, and water interests outstanding in persons other than Grantor, and other instruments, other than conveyances of the surface fee estate, that affect the Property; validly existing rights of adjoining owners in any walls and fences situated on a common boundary; any discrepancies, conflicts, or shortages in area or boundary lines; any encroachments or overlapping of improvements; and standby fees, taxes, and assessments by any taxing authority for the year 2024, which Grantee assumes and agrees to pay.

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 wise belonging, to have and hold it to Grantee, Grantee's heirs, executors, administrators, successors, and assigns forever. Grantor binds Grantor and Grantor's heirs, executors, administrators, and successors to warrant and forever defend all and singular the Property to Grantee and Grantee's heirs, executors, administrators, successors, and assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof, except as to the Reservations from Conveyance and 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 shall become absolute.

Lender, 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 described. The vendor's lien and superior title to the property are retained for the benefit of the Lender and are transferred to that party without recourse on Grantor.

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

[SIGNATURE PAGE TO FOLLOW]

GRANTOR:

LOAN RANGER CAPITAL INVESTMENTS LLC, a Texas limited liability company

By: ZACHARY LOFTON, Managing Member

Florida

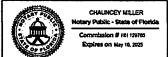
STATE OF PRESKAS CM

CM :

COUNTY OF TRACKIS

Hillsborough

This instrument was acknowledged before me on the 16th day of December, 2024, by ZACHARY LOFTON, Managing Member of LOAN RANGER CAPITAL INVESTMENTS, LLC, a Texas limited liability company, on behalf of said limited liability company.



ID Produced Driver License

Uttourcey Miller

Notary Public, State of Texas Chauncey Miller

Florida

Notarized remotely online using communication technology via Proof.

PREPARED BY: Law Office of Ben Williams, PLLC

10119 Lake Creek Parkway, Ste 201 Austin, Texas 78729

0623-141 LOBW/FeeOffice/WDVL/328CompassRose BKW/kjd After Recording Return to:

FeeOffice/2024/WDVL/328CompassRose

Page 3 of 3

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
12/17/2024 03:09:27 PM
TRACY 3 Pages(s)
202406038381







OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

			118593
	Date Received	Initials	Permit Number
Instructions: Place a check mark next to all items that apply. For items Checklist must accompany the completed application.	s that do not apply, place	e "N/A". This	OSSF Development Application
OSSF Permit			
Completed Application for Permit for Authorization to	o Construct an On-Site	Sewage Fac	ility and License to Operate
Site/Soil Evaluation Completed by a Certified Site E	valuator or a Profession	al Engineer	
Planning Materials of the OSSF as Required by the of a scaled design and all system specifications.	TCEQ Rules for OSSF	Chapter 285	i. Planning Materials shall consist
Required Permit Fee - See Attached Fee Schedule			
Copy of Recorded Deed			
Surface Application/Aerobic Treatment System			
Recorded Certification of OSSF Requiring Ma	nintenance/Affidavit to th	e Public	
Signed Maintenance Contract with Effective D	Date as Issuance of Lice	nse to Opera	ate
I affirm that I have provided all information required f	for my OSSF Developn	nent Applic	ation and that this application
constitutes a completed OSSF Development Application	-		
188	04	/24/2	025
Signature of Applicant			Date
COMPLETE APPLICATION Check No Receipt No	(Mis		LETE APPLICATION ircled, Application Refeused)
		÷.	Revised: September 2019