

Comal County Environmental Health OSSF Inspection Sheet

Installer Name: VIRGINIA CASTRO OSSF Installer #: OS0028417
 1st Inspection Date: 2/14/2020 2nd Inspection Date: 03-04-2020 3rd Inspection Date: 05-20-2020
 Inspector Name: CONNOR Inspector Name: B. Olvera Inspector Name: B. Olvera

Permit#: 110267 Address: 2046 HORNSBY

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

TANK SET. LEVEL. NO LEAKS. OPERATIONAL. COVER. NEED REVISION FOR TANK TYPE.

03-04-2020 BMO: Operational, Ready for Cover

05-20-2020 BMO: No Structure 5/5/21 JC no house

11/8/23 Covered but not seeded, fail

4/25/24 JC drip field is fully vegetated

**Comal County Environmental Health
OSSF Inspection Sheet**

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
8	SEPTIC TANK Tank(s) Clearly Marked SEPTIC TANK If Single Tank, 2 Compartments Provided with Baffle SEPTIC TANK Inlet Flowline Greater than 3" and " T " Provided on Inlet and Outlet SEPTIC TANK Septic Tank(s) Meet Minimum Requirements		285.32(b)(1)(E) 285.91(2) 285.32(b)(1)(F) 285.32(b)(1)(E)(iii) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(I) 285.32(b)(1)(E)(i) 285.32(b)(1)(D) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C)(i) 285.32(b)(1)(B) 285.32(b)(1)(A) 285.32(b)(1)(E)(iv)				
9	ALL TANKS Installed on 4" Sand Cushion/ Proper Backfill Used	X	285.32(b)(1)(F) 285.32(b)(1)(G) 285.34(b)		X		
10	SEPTIC TANK Inspection / Clean Out Port & Risers Provided on Tanks Buried Greater than 12" Sealed and Capped		285.38(d)				
11	SEPTIC TANK Secondary restraint system provided SEPTIC TANK Riser permanently fastened to lid or cast into tank SEPTIC TANK Riser cap protected against unauthorized intrusions		285.38(d) 285.38(e)				
12	SEPTIC TANK Tank Volume Installed						
13	PUMP TANK Volume Installed						
14	AEROBIC TREATMENT UNIT Size Installed	X			X		
15	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number	X X		TEXAS AIRE	X X		
16	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
17	DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
18	DISPOSAL SYSTEM Evapo-transpirative		285.33(a)(3) 285.33(a)(4) 285.33(a)(1) 285.33(a)(2)				

**Comal County Environmental Health
OSSF Inspection Sheet**

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
19	DISPOSAL SYSTEM Drip Irrigation		285.33(c)(3)(A)-(F)			03-04-20	
20	DISPOSAL SYSTEM Soil Substitution		285.33(d)(4)				
21	DISPOSAL SYSTEM Pumped Effluent		285.33(a)(3) 285.33(a)(1) 285.33(a)(2)				
22	DISPOSAL SYSTEM Gravelless Pipe		285.33(a)(3) 285.33(a)(2) 285.33(a)(4) 285.33(a)(1)				
23	DISPOSAL SYSTEM Mound		285.33(a)(3) 285.33(a)(1) 285.33(a)(2) 285.33(a)(4)				
24	DISPOSAL SYSTEM Other (describe) (Approved Design)		285.33(d)(6) 285.33(c)(4)				
25	DRAINFIELD Absorptive Drainline 3" PVC or 4" PVC						
26	DRAINFIELD Area Installed						
27	DRAINFIELD Level to within 1 inch per 25 feet and within 3 inches over entire excavation		285.33(b)(1)(A)(v)				
28	DRAINFIELD Excavation Width DRAINFIELD Excavation Depth DRAINFIELD Excavation Separation DRAINFIELD Depth of Porous Media DRAINFIELD Type of Porous Media						
29	DRAINFIELD Pipe and Gravel - Geotextile Fabric in Place		285.33(b)(1)(E)				
30	DRAINFIELD Leaching Chambers DRAINFIELD Chambers - Open End Plates w/Splash Plate, Inspection Port & Closed End Plates in Place (per manufacturers spec.)		285.33(c)(2)				
31	LOW PRESSURE DISPOSAL SYSTEM Adequate Trench Length & Width, and Adequate Separation Distance between Trenches		285.33(d)(1)(C)(i)				

**Comal County Environmental Health
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No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
32	EFFLUENT DISPOSAL SYSTEM Utilized Only by Single Family Dwelling EFFLUENT DISPOSAL SYSTEM Topographic Slopes < 2.0% EFFLUENT DISPOSAL SYSTEM Adequate Length of Drain Field (1000 Linear ft. for 2 bedrooms or Less & an additional 400 ft. for each additional bedroom) EFFLUENT DISPOSAL SYSTEM Lateral Depth of 18 inches to 3 ft. & Vertical Separation of 1ft on bottom and 2 ft. to restrictive horizon and ground water respectfully EFFLUENT DISPOSAL SYSTEM Lateral Drain Pipe (1.25 - 1.5" dia.) & Pipe Holes (3/16 - 1/4" dia. Hole Size) 5 ft. Apart		285.33(b)(3)(A) 285.33(b)(3)(A) 285.33(b)(3)(B) 285.91(13) 285.33(b)(3)(D) 285.33(b)(3)(F)				
33	AEROBIC TREATMENT UNIT Is Aerobic Unit Installed According to Approved Guidelines.		285.32(c)(1)			03-04-20	
34	AEROBIC TREATMENT UNIT Inspection/Clean Out Port & Risers Provided AEROBIC TREATMENT UNIT Secondary restraint system provided AEROBIC TREATMENT UNIT Riser permanently fastened to lid or cast into tank AEROBIC TREATMENT UNIT Riser cap protected against unauthorized intrusions						
35	AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place.						
36	PUMP TANK Is the Pump Tank an approved concrete tank or other acceptable materials & construction PUMP TANK Sampling Port Provided in the Treated Effluent Line PUMP TANK Check Valve and/or Anti- Siphon Device Present When Required PUMP TANK Audible and Visual High Water Alarm Installed on Separate Circuit From Pump						
37	PUMP TANK Inspection/Clean Out Port & Risers Provided PUMP TANK Secondary restraint system provided PUMP TANK Riser permanently fastened to lid or cast into tank PUMP TANK Riser cap protected against unauthorized intrusions						
38	PUMP TANK Secondary restraint system provided						
39	PUMP TANK Electrical Connections in Approved Junction Boxes / Wiring Buried						

**Comal County Environmental Health
OSSF Inspection Sheet**

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
40	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple?		285.33(d)(2)(G)(iii)(II)285.33(d)(2)(G)(iii)(III)285.33(d)(2)(G)(v) 285.33(d)(2)(G)(iii) 285.33(d)(2)(G)(iv) 285.33(d)(2)(G)(i) 285.33(d)(2)(G)(ii) 285.33(d)(2)(G)(iii)(I)			03-04-20	
41	APPLICATION AREA Low Angle Nozzles Used / Pressure is as required APPLICATION AREA Acceptable Area, nothing within 10 ft of sprinkler heads? APPLICATION AREA The Landscape Plan is as Designed		285.33(d)(2)(G)(i) 285.33(d)(2)(A) 285.33(d)(2)(F)				
42	APPLICATION AREA Area Installed					I	
43	PUMP TANK Meets Minimum Reserve Capacity Requirements						
44	PUMP TANK Material Type & Manufacturer						
45	PUMP TANK Type/Size of Pump Installed						



COMAL COUNTY

ENGINEER'S OFFICE

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

Permit Number: 110267
Issued This Date: 02/04/2020
This permit is hereby given to: Fernando Rojo & Angilita Rojo

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

2046 HORNSBY
SPRING BRANCH, TX 78070

Subdivision: Cypress Cove
Unit: 2
Lot: 355
Block:
Acreage:

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.



COMAL COUNTY
ENGINEER'S OFFICE

OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

<i>Date Received</i>	<i>Initials</i>	<i>Permit Number</i>

RECEIVED

JAN 17 2020

COUNTY ENGINEER

Instructions:

Place a check mark next to all items that apply. For items that do not apply, place "N/A". This OSSF Development Application Checklist **must** accompany the completed application.

OSSF Permit

- Completed Application for Permit for Authorization to Construct an On-Site Sewage Facility and License to Operate
- Site/Soil Evaluation Completed by a Certified Site Evaluator or a Professional Engineer
- Planning Materials of the OSSF as Required by the TCEQ Rules for OSSF Chapter 285. Planning Materials shall consist of a scaled design and all system specifications.
- Required Permit Fee - See Attached Fee Schedule
- Copy of Recorded Deed
- Surface Application/Aerobic Treatment System
 - Recorded Certification of OSSF Requiring Maintenance/Affidavit to the Public
 - Signed Maintenance Contract with Effective Date as Issuance of License to Operate

I affirm that I have provided all information required for my OSSF Development Application and that this application constitutes a completed OSSF Development Application.

Fernando Biso Angelita Pop
Signature of Applicant

01-16-2020
Date

COMPLETE APPLICATION

Check No. _____ Receipt No. _____

INCOMPLETE APPLICATION
(Missing Items Circled, Application Refused)

*** COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH *
APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN
ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

REVISED
2:50 pm, Mar 03, 2020

Date 3/3/2020

Permit # 110267

Owner Name Fernando Rojo & Angelita Rojo
Mailing Address 1286 Grand Oaks Drive
City, State, Zip Spring Branch TX, 78070
Phone # 210.685.6628
Email Angelita_rojo@yahoo.com

Agent Name Virginia Castro
Agent Address 2970 Rolling Hills Rd.
City, State, Zip Blanco TX, 78606
Phone # 210.275.8523
Email vleedwards@yahoo.com

All correspondence should be sent to: Owner Agent Both Method: Mail Email

Subdivision Name Cypress Cove section 2 Unit [] Lot 355 Block []

Acreage/Legal [.1865 Acres]

Street Name/Address 2046 Hornsby Drive City Spring Branch Zip 78070

Type of Development:

Single Family Residential

Type of Construction (House, Mobile, RV, Etc.) House

Number of Bedrooms 3

Indicate Sq Ft of Living Area 1,216 s.f.

Non-Single Family Residential

(Planning materials must show adequate land area for doubling the required land needed for treatment units and disposal area)

Type of Facility _____

Offices, Factories, Churches, Schools, Parks, Etc. - Indicate Number Of Occupants _____

Restaurants, Lounges, Theaters - Indicate Number of Seats _____

Hotel, Motel, Hospital, Nursing Home - Indicate Number of Beds _____

Travel Trailer/RV Parks - Indicate Number of Spaces _____

Miscellaneous _____

Estimated Cost of Construction: \$ [150000] (Structure Only)

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

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

Source of Water Public Private Well

Are Water Saving Devices Being Utilized Within the Residence? Yes No

By signing this application, I certify that:

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

Fernando Rojo Angelita Rojo 03/03/2020
Signature of Owner Date

*** COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH ***
APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN
ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

REVISED
2:50 pm, Mar 03, 2020

Planning Materials & Site Evaluation as Required Completed By Virginia Castro

System Description Aerobic treatment/ with drip tubing

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

Tank Size(s) (Gallons) 600 gpd Absorption/Application Area (Sq Ft) 1,200 Required

Gallons Per Day (As Per TCEQ Table III) 240

(Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ.)

Is the property located over the Edwards Recharge Zone? Yes No

(If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.))

Is there an existing TCEQ approved WPAP for the property? Yes No

(If yes, the R.S. or P.E. shall certify that the OSSF design complies with all provisions of the existing WPAP.)

If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP? Yes No

(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)

Is the property located over the Edwards Contributing Zone? Yes No

Is there an existing TCEQ approval CZP for the property? Yes No

(If yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP.)

If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? Yes No


(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to Construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)

Is this property within an incorporated city? Yes No

If yes, indicate the city: _____

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

3/3/2020

Date

1/cb

AFFIDAVIT TO THE PUBLIC



202006002094 01/16/2020 03:49:07 PM 1/1

THE COUNTY OF COMAL
STATE OF TEXAS

CERTIFICATION OF OSSF REQUIRING MAINTENANCE

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JAN 17 2020

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

COUNTY ENGINEER

I

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 TCEQ 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 TCEQ, under the authority of the TWC and the Texas Health and Safety Code, requires owners to provide notice to the public that certain types of OSSFs are located on specific pieces of property. To achieve this notice, the TCEQ requires a deed recording. Additionally, the owner must provide proof of the recording to the OSSF permitting authority. This deed certification is not a representation or warranty by the TCEQ of the suitability of this OSSF, nor does it constitute any guarantee by the TCEQ 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):

Lot 355 Block _____ Subdivision Cypress Cove Unit/Phase Section 2

If not in Subdivision: _____ Acres _____ Survey _____

The property is owned by (insert owner's full name): Fernando Rojo And Angelita Rojo

This OSSF must be covered by a continuous maintenance contract for the first two years. After the initial two-year service policy, the owner of an aerobic treatment system for a single family residence shall either obtain a maintenance contract within 30 days or maintain the system personally.

Upon sale or transfer of the above-described property, the permit for the OSSF shall be transferred to the buyer or new owner. A copy of the planning materials for the OSSF can be obtained from the Comal County Engineer's Office.

Fernando Rojo
Owner Name

Angelita Rojo
Owner Signature

Owner Name

Owner Signature

This instrument was acknowledged before me on: 16 Day of January, 2020.

Sasha De Leon
Notary's Printed Name

Sasha De Leon
Notary Public, State of Texas

Commission Expires: 09-26-2023



Filed and Recorded
Official Public Records
Bobbie Koepf, County Clerk
Comal County, Texas
01/16/2020 03:49:07 PM
LAURA 1 Page(s)
202006002094



Bobbie Koepf

Affix Notary Stamp Above

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JAN 17 2020.

WASTEWATER TREATMENT FACILITY MONITORING AGREEMENT

Regulatory Authority
Block Creek Aerobic Services, LLC
444 A Old Hwy #9
Comfort, TX 78013
Off. (830) 995-3189
Fax. (830) 995-4051

Permit/License Number _____
Customer Fernando ; Angelita Rojo **COUNTY ENGINEER**
Site Address 2046 Hornsby
City Spring Branch Zip Tx 78070
Mailing Address 1286 Grand Oaks Drive
County Spring Branch Map # _____ **Comal County**
Phone 210.685.6628 **210.685.6628**
Email Angelita.rojo@yahoo.com

I. General: This Work for Hire Agreement (hereinafter referred to as "Agreement") is entered into by and between Fernando ; Angelita Rojo (hereinafter referred to as "Customer") and Block Creek Aerobic Services, LLC. By this agreement, Block Creek Aerobic Services, LLC and its employees (hereinafter inclusively referred to as "Contractor") agree to render services at the site address stated above, as described herein, and the Customer agrees to fulfill his/her/their responsibilities, as described herein.

II. Effective Date:
This Agreement commences on Issue date of license to operate and ends on 2 yrs from license to operate for a total of two (2) years (initial agreement) or one (1) year (thereafter). If this is an initial agreement (new installation), the Customer shall notify the Contractor within two (2) business days of the system's first use to establish the date of commencement. If no notification is received by Contractor within ninety (90) days after completion of installation or where county authority mandates, the date of commencement will be the date the "License to operate" (Notice of Approval) was issued by the permitting authority. This agreement may or may not commence at the same time as any warranty period of installed equipment, but in no case shall it extend the specified warranty.

III. Termination of Agreement:
This Agreement may be terminated by either party for any reason, including for example, substantial failure of either party to perform in accordance with the terms of this Agreement, without fault or liability of the terminating party. The terminating party must provide written notice to the non-terminating party thirty (30) days prior to the termination of this Agreement. If this Agreement is terminated, Contractor will be paid at the rate of \$75.00 per hour for any work performed and for which compensation has not been received. After the deduction of all outstanding charges, any remaining monies from prepayment for services will be refunded to customer within thirty (30) days of termination of this Agreement. Either party terminating this Agreement for any reason, including non-renewal, shall notify in writing the equipment manufacturer and the appropriate regulatory agency a minimum of thirty (30) days prior to the date of such termination. Nonpayment of any kind shall be considered breach of contract and a termination of contract.

IV. Services:
Contractor will:
a. Inspect and perform routine upkeep on the On-Site Sewage Facility (hereinafter referred to as OSSF) as recommended by the treatment system manufacturer, and required by state and/or local regulation, for a total of three visits to site per year. The list of items checked at each visit shall be the: control panel, Electrical circuits, timer, Aeration including compressor and diffusers, CFM/PSI measured, lids safety pans, pump, compressor, sludge levels, and anything else required as per the manufacturer.
b. Provide a written record of visits to the site by means of an inspection tag attached to or contained in the control panel.
c. Repair or replace, if Contractor has the necessary materials at site, any component of the OSSF found to be failing or inoperative during the course of a routine monitoring visit. If such services are not covered by warranty, and the service(s) cost less than \$100.00, Customer hereby authorizes Contractor to perform the service(s) and bill Customer for said service(s). When service costs are greater than \$100.00, or if contractor does not have the necessary supplies at the site, Contractor will notify Customer of the required service(s) and the associated cost(s). Customer must notify Contractor of arrangements to affect repair of system with in two (2) business days after said notification.
d. Provide sample collection and laboratory testing of TSS and BOD on a yearly basis (commercial systems only).
e. Forward copies of this Agreement and all reports to the regulatory agency and the Customer.
f. Visit site in response to Customer's request for unscheduled services within forty-eight (48) hours of the date of notification (weekends and holidays excluded) of said request. Unless otherwise covered by warranty, costs for such unscheduled responses will be billed to Customer.

V. Disinfection:
FR AR

BS

Not required; required. The responsibility to maintain the disinfection device(s) and provide any necessary chemicals is that of the Customer.

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JAN 17 2020

VI. Electronic Monitoring:

Electronic Monitoring is not included in this Agreement.

VII. Performance of Agreement:

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

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

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

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

COUNTY ENGINEER

VIII. Customer's Responsibilities:

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

a. Provide all necessary yard or lawn maintenance and removal of all obstacles, including but not limited to dogs and other animals, vehicles, trees, brush, trash, or debris, as needed to allow the OSSF to function properly, and to allow Contractor safe and easy access to all parts of the OSSF.

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

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

d. Notify Contractor immediately of any and all alarms, and/or any and all problems with, including failure of, the OSSF.

e. Provide, upon request by Contractor, water usage records for the OSSF so that the Contractor can perform a proper evaluation of the performance of the OSSF.

f. Allow for samples at both the inlet and outlet of the OSSF to be obtained by Contractor for the purpose of evaluating the OSSF's performance. If these samples are taken to a laboratory for testing, with the exception of the service provided under Section IV (d) above, Customer agrees to pay Contractor for the sample collection and transportation, portal to portal, at a rate of \$35.00 per hour, plus the associated fees for laboratory testing.

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

h. Prevent the condensation from air conditioning or refrigeration units, or the drains of icemakers, from hydraulically overloading the aerobic treatment units. Drain lines may discharge into the surface application pump tank if approved by system designer.

i. Provide for pumping and cleaning of tanks and treatment units, when and as recommended by Contractor, at Customer's expense.

j. Maintain site drainage to prevent adverse effects on the OSSF.

k. Pay promptly and fully, all Contractor's fees, bills, or invoices as described herein.

IX. Access by Contractor:

Contractor is hereby granted an easement to the OSSF for the purpose of performing services described herein.

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

X. Limit of Liability:

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

XI. Indemnification:

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

FR AR

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JAN 17 2020

COUNTY ENGINEER

THIS INDEMNIFICATION APPLIES EVEN IF SUCH LIABILITIES ARE CAUSED BY THE CONCURRENT OR CONTRIBUTORY NEGLIGENCE OR BY THE STRICT LIABILITY OF ANY INDEMNITEE.

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

XII. Severability:

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

XIII. Fee for Services:

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

XIV. Payment:

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

XV. Application or Transfer of payment:

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

XVI. Entire Agreement:

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

Brent S. Indestick

Block Creek Aerobic Services, LLC,
Contractor
MC# 0000042 and MC#0000002

Fernando 2020 Angelita Rocio 01-16-20
Customer Signature Date

FR AR

BS

OSSF SOIL EVALUATION REPORT**Date:** 3/3/2020**Applicant Information:****Name:** Fernando & Angelita Rojo**Address:** 1286 Grand Oaks Drive**City, State, & Zip Code:** Spring Branch TX, 78070**Phone:** 210.685.6628**Email:** Angelita_rojo@yahoo.com**Property Location:****Legal:** [Lot 355/Section 2] Subdivision: Cypress Cove**Street/Road Address:** 2046 Hornsby Drive**City:** Spring Branch, TX **Zip:** 78070**Additional Info:** Comal County**Site Evaluator Information:****Name:** Virginia E. Castro**Company:****Address:** 2970 Rolling Hills Dr.**City, State, & Zip:** Blanco TX, 78606**Phone:** 210.275.8523**Email:** vleedwards@yahoo.com**Installer Information:****Name:** Virginia Castro**Company:****Address:** 2970 Rolling Hills Dr.**City, State, & Zip:** Blanco TX, 78606**Email:** vleedwards@yahoo.com**Phone:** 210.275.8523

Depth	Texture Class	Soil Texture	Structure (for Class III- blocky, platy or massive)	Drainage	Restrictive Horizon	Observation
-------	---------------	--------------	---	----------	---------------------	-------------

Soil Boring #1 60"	III	0-12" Clay Loam 12"+ limestone	Blocky	<30% gravel		Bedrock
-----------------------	-----	-----------------------------------	--------	-------------	--	---------

Soil Boring #1 60"	III	Same as above				
-----------------------	-----	---------------	--	--	--	--

DESIGN SPECIFICATIONS

Application Rate (Ra): .2

OSSF is designed for: 3 BR home (1,216 Sq. Ft.)

Wastewater Usage: 240 gal./day

A aerobic treatment system/ with drip tubing is to be utilized based on the site evaluation

1,200 sq. ft. absorptive area required with 600 linear feet of drip tubing

600-gpd aerobic tank required

Calculations: Absorption Area: $Q/Ra = 240 \text{ gpd}/.2 = 1,200 \text{ sq. ft. min}$ /2 = 600 l.f. **min** of drip tubingActual: 1,512 s.f. of field available $\rightarrow 1512 \text{ s.f.}/2 \text{ l.f./s.f.} = 756 \text{ l.f.}$ to be installed**FEATURES OF SITE AREA**

Presence of 100-year flood zone: NO

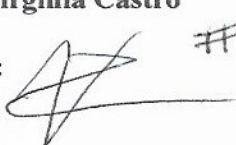
Existing or proposed water well in nearby area: NO

Presence of adjacent ponds, streams, water impoundments: NO

Presence of upper water shed: NO

Organized sewage service available to lot: NO

I certify that the findings of this report are based on my field observations and are accurate to the best of my ability. The site evaluation and OSSF design are subject to approval by the TCEQ or the local authorized agent. The planning materials and the OSSF design should not be considered final until a permit to construct has been issued.

Site Evaluator:**NAME:** Virginia Castro**License No.:****TDH:****Signature:**

 #12319

AEROBIC TREATMENT DRIP TUBING SYSTEM
DESIGNED FOR: FERNANDO ROJO & ANGELITA ROJO
SITE ADDRESS: 2046 HORNSBY DRIVE CYPRESS COVE, LOT 355 SECTION 2

LANSCAPING:

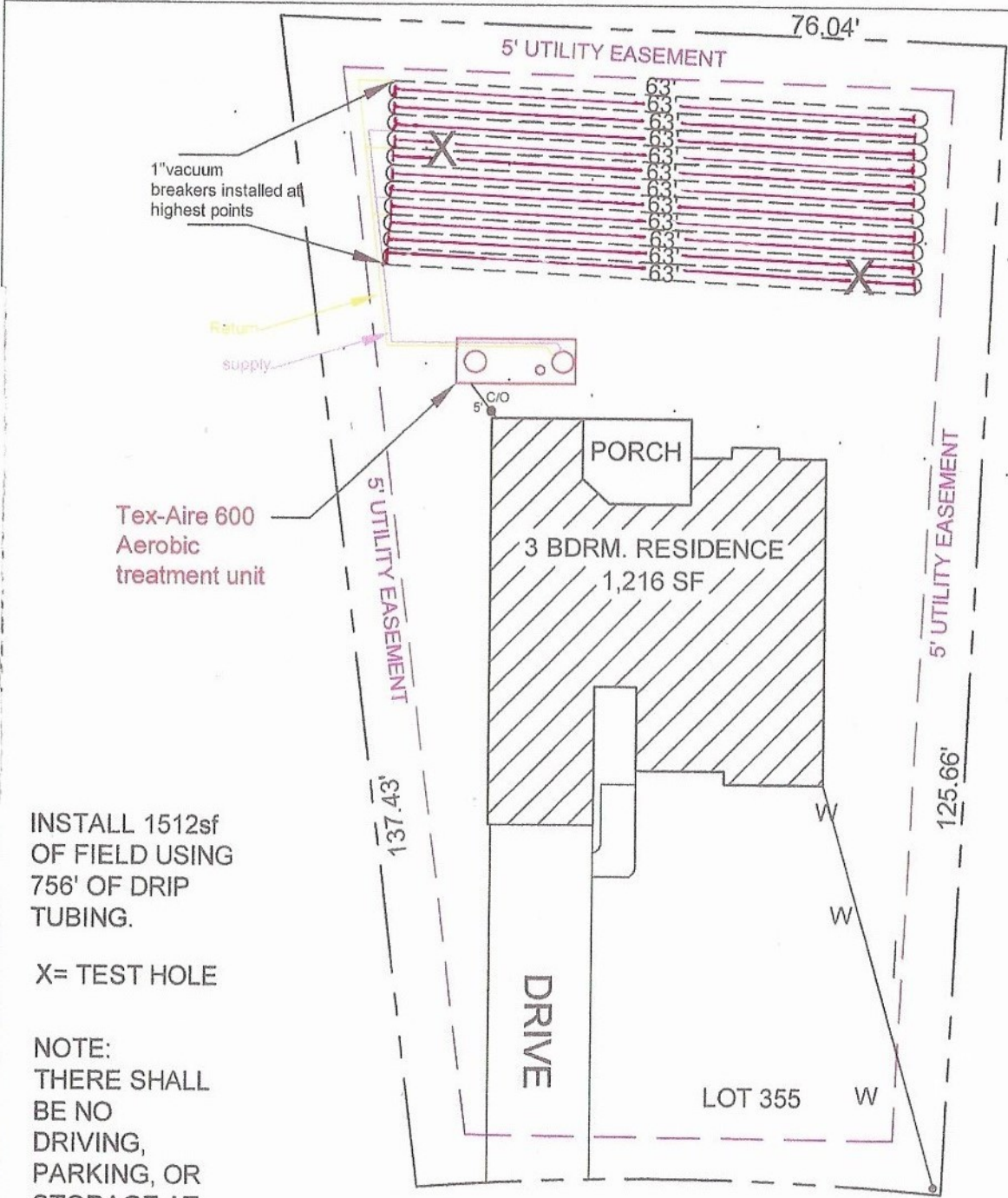
The site of installation located in Cypress Cove, Section 2, Lot 355, Comal County TX, will include a 3 bedroom (1,216 Sq.ft) residence to be treated by a proposed aerobic treatment plant utilizing drip irrigation tubing as the most suitable system for the underlying soil.

PROPOSED SYSTEM:

A 3" or 4" SCH 40 PVC pipe discharges from the residence into a Tex-Aire Model TX- 600 (600gpd) aerobic treatment plant containing a 400 gallon pretreatment tank and a 792 gallon pump chamber. The pump is activated by a time controller allowing the distribution 8 times per day with a 7 minute run time with the float set to pump 240 gallons per day. A high level audible and visual alarm will activate should the pump fail. Distribution from the pump is through a self flushing 100 Mesh Spin filter and subsequently through a 1" SCH 40 manifold allowing effluent distribution to 756 l.f. of drip tubing lines spaced 2ft. apart with .61 emitters set every two feet. A pressure guage will be installed on the pump tank side for both the supply manifold and flush line and shall maintain a pressure of at least 25 PSI. A 1" SCH 40 return line will flush each cycle back to the pump tank. Vacuum breakers will be installed at the two highest points of the drip field for the supply and flush manifold to prevent siphoning. Drip field will be scarified and built up with 6" of type II or type III soil before laying drip lines then covered with 6" of type II or III soil. Seeding will be added upon completion.



REVISED
2:50 pm, Mar 03, 2020



1" vacuum breakers installed at highest points

supply

Tex-Aire 600 Aerobic treatment unit

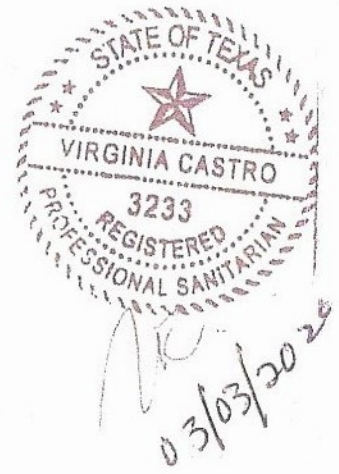
INSTALL 1512sf OF FIELD USING 756' OF DRIP TUBING.

X= TEST HOLE

NOTE: THERE SHALL BE NO DRIVING, PARKING, OR STORAGE AT ANYTIME FOR ANY REASON

HORNSBY DRIVE

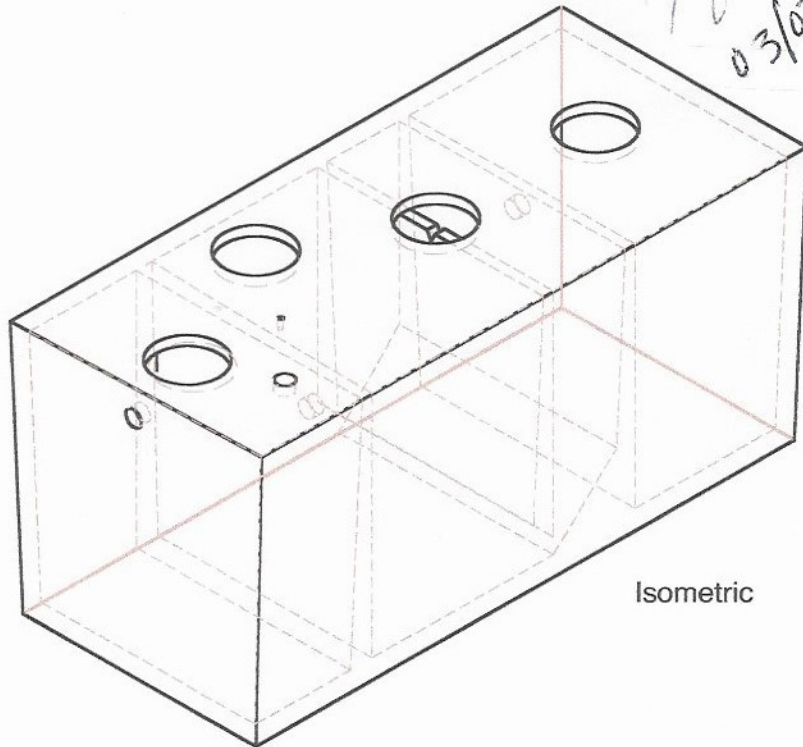
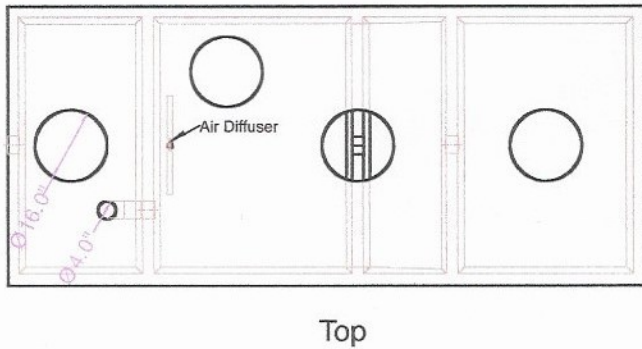
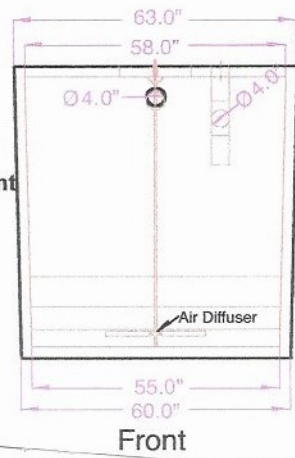
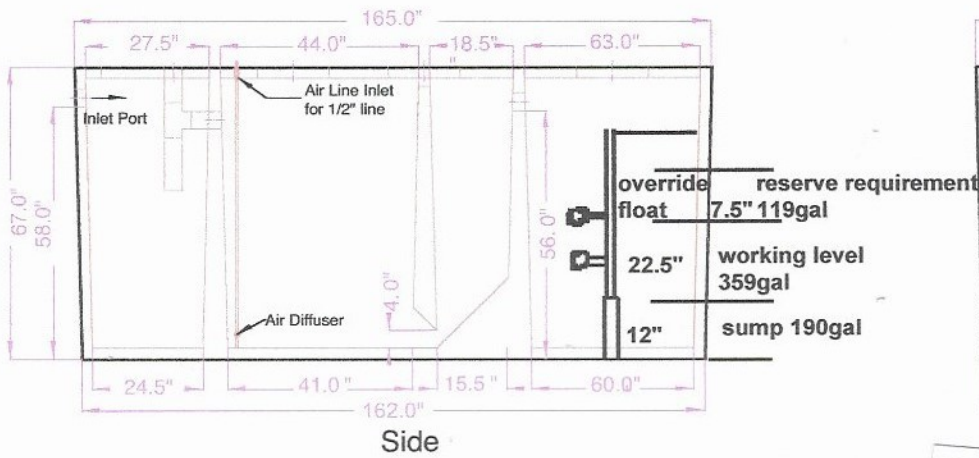
96'



OWNER: FERNANDO ROJO & ANGELITA ROJO		DATE: 1/13/2020	DRAWN BY: F.O.
STREET ADDRESS: 2046 HORNSBY DRIVE			SCALE: 1"=20'
LEGAL DESC: CYPRESS COVE	UNIT/SECTION/PHASE: 2	LOT: 355	PREPARED BY: VIRGINIA CASTRO

REVISED

2:50 pm, Mar 03, 2020



Tank Capacity

- Pretreatment Chamber: 400 Gal
- Aeration Chamber: 530 Gal
- Clarifier Chamber: 220 Gal
- Pump Chamber: 792 Gal



Tank Notes

- *Access at or above grade level must be secured against unauthorized access.
- *Tank is not rated for vehicular traffic loading
- *Primary dimensions are in inches
- *Minimum tank wall thickness is 2 1/2"
- *Labeling will include: manufacturer name, liquid capacity, date, and model number.
- *Concrete Strength Min. 3000psi

Tex Aire Brand

On Site Wastewater Treatment Systems
by Acquired Wastewater Technologies, LCC

Model: TX 600 S PT792		Material: Concrete	Diffuser: D100P
Class: I	Date: 08/30/10	Rated Capacity: 600GPD w/792 Gal pump tank	

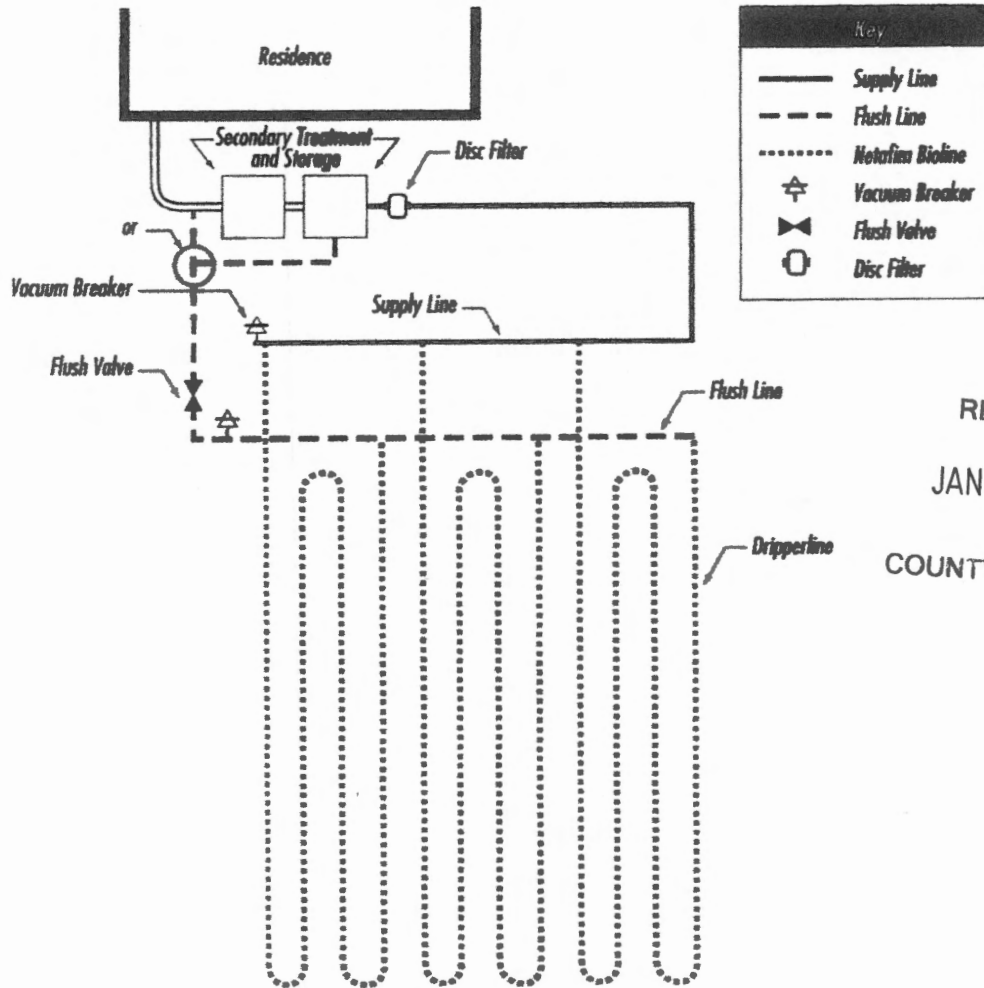
NETAFIM WASTEWATER DISPERSAL SYSTEM DESIGN GUIDE

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



RECEIVED
 JAN 17 2020
 COUNTY ENGINEER

CYPRESS COVE, SECTION 9
(VOL. 2, PG. 66)

LOT 652
TANGLEWOOD TRAIL
LOT 357R
FND. 1/2" I.R.

LOT A

N 64°24'18" E 76.04' (F.M.)
N 64°42'55" E 76.09' (PLAT)

FND. 1/2" I.R.

5' AERIAL ESMT. (VOL. 132, PG. 54)

WIRE FENCE

RECEIVED
JAN 17 2020

LOT 356
COUNTY ENGINEER

VACANT LOT
LOT 355
8140 SQ. FT.
0.19 ACRES

10 UTILITY ESMT. (PER PLAT)

6' PUBLIC UTILITY ESMT. (VOL. 132, PG. 54)

5' PUBLIC UTILITY ESMT. (VOL. 132, PG. 54)

S 28°47'43" E 125.66' (F.M.)
S 28°37'56" E 125.65' (PLAT)

5' BLDG. SETBACK (VOL. 132, PG. 54)

25' BLDG. SETBACK (PER PLAT)

WOOD FENCE

6' PUBLIC UTILITY ESMT. (VOL. 132, PG. 54)

N 39°48'52" W 137.43' (PLAT)
N 39°39'02" W 137.23' (F.M.)

5' AERIAL ESMT. (VOL. 132, PG. 54)

LOT 354

C1 (PLAT)
C2 (F.M.)

S 47°40'30" E 7.27'

FND. 1/2" I.R.

HORNSBY
(PER PLAT HILLCREST DRIVE-60' R.O.W.)
EDGE OF PVMT.

99.91'

LOT 353
LOT 352
FND. 1/2" I.R.

LOT 360











LOT 361

FND. 1/2" I.R.

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	260.00'	50.00'	49.92'	S 55°51'31" W	11°01'06"
C2	260.00'	50.00'	49.92'	S 55°41'47" W	11°01'06"

LEGEND

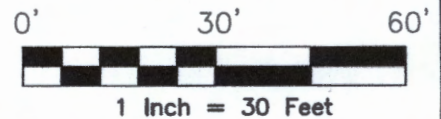
These standard symbols will be found in the drawing.

-  BOUNDARY LINE
-  EASEMENT LINE
-  BUILDING SETBACK LINE
-  WIRE FENCE
-  WOOD FENCE
-  SET IRON ROD
-  CALCULATED POINT
-  FOUND IRON ROD
-  (PLAT) RECORDED ON PLAT
-  (F.M.) FIELD MEASURED

RECEIVED
 JAN 17 2020
 COUNTY ENGINEER



GRAPHIC SCALE



SURVEYOR'S NOTE

BASIS OF BEARING, TEXAS SOUTH CENTRAL NAD 83.

At date of this survey, the property is in FEMA designated ZONE X as verified by FEMA map Panel No: 48091C 0090 F effective date of SEPTEMBER 02, 2009. Exact designations can only be determined by a Elevation Certificate. This information is subject to change as a result of future FEMA map revisions and/or amendments.

The survey is hereby accepted with the discrepancies, conflicts, or shortages in area or boundary lines, encroachments, protrusions, or overlapping of Improvements shown.

X _____
 X _____

I, ROY JOHN RONNFELDT, a Registered Professional Land Surveyor in the State of Texas, do hereby certify to TRINITY TITLE OF TEXAS, LLC

and that the above map is true and correct according to an actual field survey, made by me on the ground or under my supervision, of the property shown hereon or described by field notes accompanying this drawing. I further certify that all easements and rights-of-way of which I have been advised are shown hereon and that, except as shown, there are no visible encroachments, no visible overlapping of improvements and no apparent discrepancies or conflicts in the boundary lines, and no visible physical evidence of easements or rights-of-way as of the date of the field survey. I further certify that this survey meets or exceeds the minimum standards established by the Texas Board of Professional Land Surveying (Section 663.18).

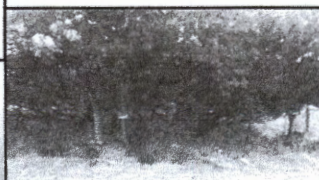
Borrower/Owner: FERNANDO ROJO AND ANGELITA ROJO
 Address: 2046 HORNSBY GF No. 3814NB

Legal Description of the Land:

Lot 355 of CYPRESS COVE, SECTION TWO, a subdivision in Comal County, Texas according to the plat recorded in Volume 1, Page 60 of the Map and Plat Records of Comal County, Texas.

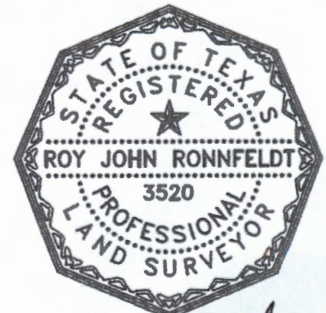
SUBJECT TO RESTRICTIVE COVENANTS AND/OR EASEMENTS RECORDED IN: VOLUME 1, PAGE 60, MAP AND PLAT RECORDS, COMAL COUNTY, TEXAS VOLUME 132, PAGE 54, DEED RECORDS, COMAL COUNTY, TEXAS

PROPERTY PHOTOGRAPH:



FINAL "BOUNDARY" SURVEY

JOB NO.:	1701042098	NO.	REVISION	DATE
DATE:	01/09/17			
DRAWN BY:	MN/TM/VT			
APPROVED BY:	RJR			



Roy Ronnfeldt

ROY JOHN RONNFELDT, R.P.L.S.
 Registered Professional Land Surveyor
 Registration No. 3520



AMERISURVEYORS, L.L.C.
 1100 NW Loop 410, Suite 546 San Antonio, Texas 78213
 Phone: (210) 572-1995 Fax: (210) 572-1993

Ritzen, Brenda

From: Ritzen, Brenda
Sent: Tuesday, March 3, 2020 9:39 AM
To: 'Virginia Edwards'
Cc: Frank Oranday
Subject: RE: 110267

Virginia,

Before I can continue processing the revised planning materials, or schedule further inspections, the following information is needed:

- ✓ 1. Dimension each drip line on the design.
- ✗ 2. Verify that there will be a minimum of 12 inches of suitable soil under the drip tubing located over the tank/ATU.
- ✓ 3. The amount of absorption area on the 2nd page of the permit application must be updated to match the revised area.
- ✓ 4. The remaining planning materials must be revised as needed to match the latest revised design.
- ✓ 5. The pump tank detail must be revised to include the height and location of all pump tank settings, and identify the minimum reserve capacity provided.
6. Revise as needed and resubmit.

Thank you,

Brenda Ritzen, OS0007722
Environmental Health Coordinator
Comal County Engineers Office
195 David Jonas Drive
New Braunfels, Texas 78132
830-608-2090
www.cceo.org

From: Virginia Edwards <vleedwards@yahoo.com>
Sent: Monday, March 2, 2020 4:47 PM
To: Ritzen, Brenda <rabbjr@co.comal.tx.us>
Cc: Frank Oranday <frankoranday@gmail.com>
Subject: 110267

**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

This job is now ready for inspection if you have received the corrected tank information. Can you schedule it for Wednesday? Thanks, Virginia

*** COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH
APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN
ON-SITE SEWAGE TREATMENT SYSTEM AND LICENSE TO OPERATE

REVISED

12:52 pm, Jan 27, 2020

VOID

Date 1/16/2020

Permit # 110267

Owner Name Fernando Rojo & Angelita Rojo
Mailing Address 1286 Grand Oaks Drive
City, State, Zip Spring Branch TX, 78070
Phone # 210.685.6628
Email Angelita_rojo@yahoo.com

Agent Name Virginia Castro
Agent Address 2970 Rolling Hills Rd.
City, State, Zip Blanco TX, 78606
Phone # 210.275.8523
Email vicedwards@yahoo.com

All correspondence should be sent to: Owner Agent Both Method: Mail Email

Subdivision Name Cypress Cove **SECTION 2** Unit [] Lot 355 Block []

Acreage/Legal [.1865 Acres]

Street Name/Address 2046 Homsby Drive City Spring Branch Zip 78070

Type of Development:

Single Family Residential

Type of Construction (House, Mobile, RV, Etc.) House

Number of Bedrooms 3

Indicate Sq Ft of Living Area 1,216 s.f.

Non-Single Family Residential

(Planning materials must show adequate land area for doubling the required land needed for treatment units and disposal area)

Type of Facility _____

Offices, Factories, Churches, Schools, Parks, Etc. - Indicate Number of Occupants _____

Restaurants, Lounges, Theaters - Indicate Number of _____

Hotel, Motel, Hospital, Nursing Home - Indicate Number of Beds _____

Travel Trailer/RV Parks - Indicate Number of Spaces _____

Miscellaneous _____

VOID

Estimated Cost of Construction: \$ [150000] (Structure Only)

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

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

Source of Water Public Private Well

Are Water Saving Devices Being Utilized Within the Residence? Yes No

By signing this application, I certify that:

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

Fernando Rojo Angelita Rojo
Signature of Owner

01.16.2020
Date

*** COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH ***
APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN
ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

VOID

Planning Materials & Site Evaluation as Required Completed By Virginia Castro

System Description Aerobic treatment/ with drip tubing

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

Tank Size(s) (Gallons) 600 gpd Absorption/Application Area (Sq Ft) 1,660 Required

Gallons Per Day (As Per TCEQ Table III) 240

(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.))

RECEIVED

JAN 17 2020

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.)

COUNTY ENGINEER

If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP? Yes No

(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)

Is the property located over the Edwards Contributing Zone? Yes No

Is there an existing TCEQ approval CZP for the property? Yes No

(If yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP.)

If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? Yes No


(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to Construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)

Is this property within an incorporated city? Yes No

If yes, indicate the city: _____

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

1/15/2020
Date

Page 2 of 2

OSSF SOIL EVALUATION REPORT

VOID

REVISED

8:17 am, Feb 04, 2020

Date: 2/3/2020

Applicant Information:

Name: Fernando & Angelita Rojo

Address: 1286 Grand Oaks Drive

City, State, & Zip Code: Spring Branch TX, 78070

Phone: 210.685.6628

Email: Angelita_rojo@yahoo.com

Property Location:

Legal: [Lot 355/Section 2] Subdivision: Cypress Cove

Street/Road Address: 2046 Hornsby Drive

City: Spring Branch, TX Zip: 78070

Additional Info: Comal County

Site Evaluator Information:

Name: Virginia E. Castro

Company:

Address: 2970 Rolling Hills Dr.

City, State, & Zip: Blanco TX, 78606

Phone: 210.275.8523

Email: vleedwards@yahoo.com

Installer Information:

Name: Virginia Castro

Company:

Address: 2970 Rolling Hills Dr.

City, State, & Zip: Blanco TX, 78606

Email: vleedwards@yahoo.com

Phone: 210.275.8523

Depth	Texture Class	Soil Texture	Structure (for Class III- blocky, platy or massive)	Drainage	Restrictive Horizon	Observation
Soil Boring #1 60"	III	012' Clay Loam + limestone	VOID	<30% gravel		-bedrock
Soil Boring #1 60"	III	Same as above				

DESIGN SPECIFICATIONS

Application Rate (Ra): .2

OSSF is designed for: 3 BR home (1,216 Sq. Ft.)

Wastewater Usage: 240 gal./day

A aerobic treatment system/ with drip tubing is to be utilized based on the site evaluation

1512 sq. ft. absorptive area required with 756 linear feet of drip tubing

600-gpd aerobic tank required

Calculations: Absorption Area: $Q/Ra = 240 \text{ gpd} / .2 = 1,200 \text{ sq. ft min} / 2 = 600 \text{ l.f. min}$ of drip tubing

Actual: 1512 s.f. of field available $\rightarrow 1512 \text{ s.f.} / 2 \text{ l.f./s.f.} = 756 \text{ l.f.}$

FEATURES OF SITE AREA

Presence of 100-year flood zone: NO

Existing or proposed water well in nearby area: NO

Presence of adjacent ponds, streams, water impoundments: NO

Presence of upper water shed: NO

Organized sewage service available to lot: NO

I certify that the findings of this report are based on my field observations and are accurate to the best of my ability. The site evaluation and OSSF design are subject to approval by the TCEQ or the local authorized agent. The planning materials and the OSSF design should not be considered final until a permit to construct has been issued.

Site Evaluator:

NAME: Virginia Castro

License No.:

TDH:

Signature:  #12319

VOID

AEROBIC TREATMENT DRIP TUBING SYSTEM
DESIGNED FOR: FERNANDO ROJO & ANGELITA ROJO
SITE ADDRESS: 2046 HORNSBY DRIVE CYPRESS COVE, LOT 355 SECTION 2

LANDSCAPING:

The site of installation located in Cypress Cove, Section 2, Lot 355, Comal County TX, will include a 3 bedroom (1,216 Sq.ft) residence to be treated by a proposed aerobic treatment plant utilizing drip irrigation tubing as the most suitable system for the underlying soil.

PROPOSED SYSTEM:

A 3" or 4" SCH 40 PVC pipe discharges from the residence into a Nu-water B-550 (600gpd) aerobic treatment plant containing a 353 gallon pretreatment tank and a 768 gallon pump chamber. The pump is activated by a time controller allowing the distribution 8 times per day with a 7-minute run time with the float set to pump 240 gallons per day. A high level audible and visual alarm will activate should the pump fail. Distribution from the pump is through a self flushing 100 Mesh Spin filter and subsequently through a 1" SCH 40 manifold allowing effluent distribution to 890 l.f. of drip tubing lines spaced 2 ft. apart with .61 emitters set every two feet. A pressure gauge will be installed on the pump tank side for both the supply manifold and flush line and shall maintain a pressure of at least 25 PSI. A 1" SCH 40 return line will flush each cycle back to the trash tank. Vacuum breakers will be installed at two of the highest points of the drip field for the supply and flush manifold to prevent siphoning. Drip field will be scarified and built up with 6" of type II or type III soil before the drip lines then will be covered with 6" of type II or type III soil. *Seeding will be added upon completion.*

VOID



REVISED
8:50 am, Mar 03, 2020

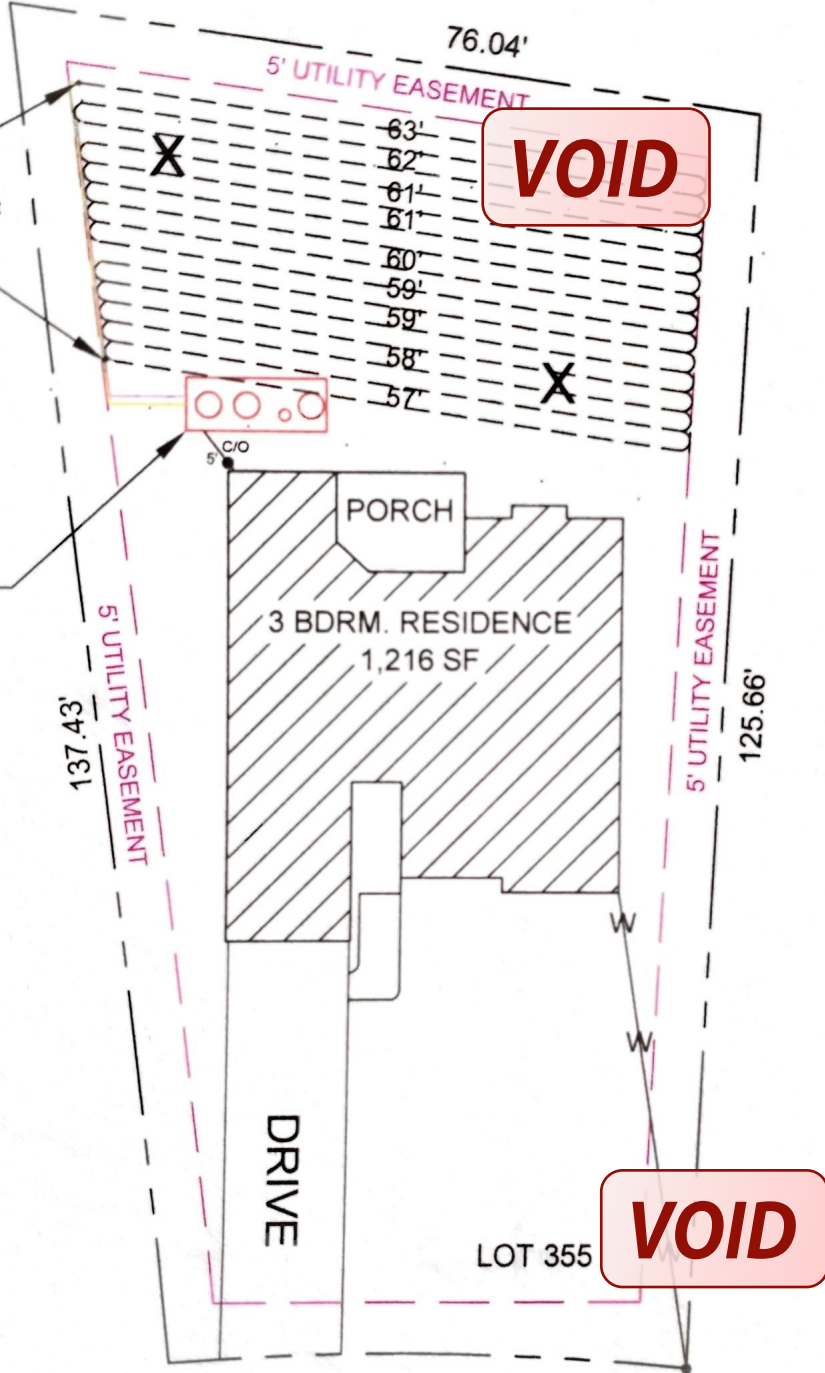
1" vacuum breakers installed at highest points

Tex-Aire 600 Aerobic treatment unit

INSTALL 1660sf OF FIELD USING 890' OF DRIP TUBING.

X= TEST HOLE

NOTE: THERE SHALL BE NO DRIVING, PARKING, OR STORAGE AT ANYTIME FOR ANY REASON

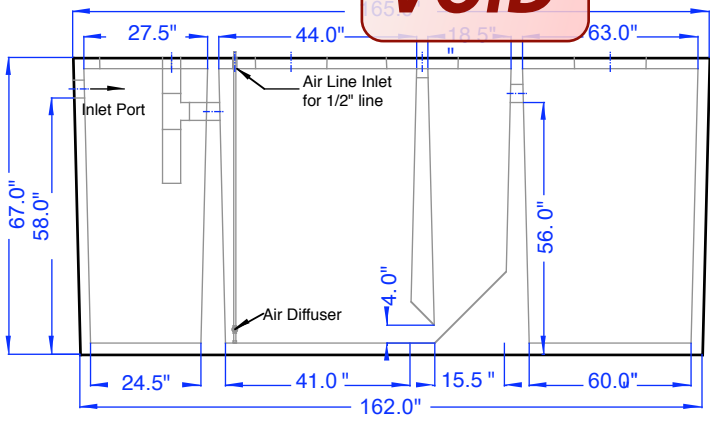


OWNER FERNANDO ROJO & ANGELITA ROJO		DATE 1/13/2020	DRAWN BY: F.O.
STREET ADDRESS 2046 HORNSBY DRIVE			SCALE 1"=20'
LEGAL DESC. CYPRESS COVE	UNIT/SECTION/PHASE 2	LOT 355	PREPARED BY: VIRGINIA CASTRO

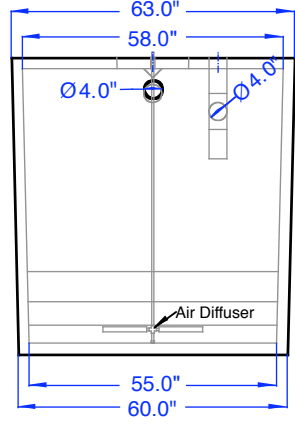
REVISED

8:46 am, Mar 03, 2020

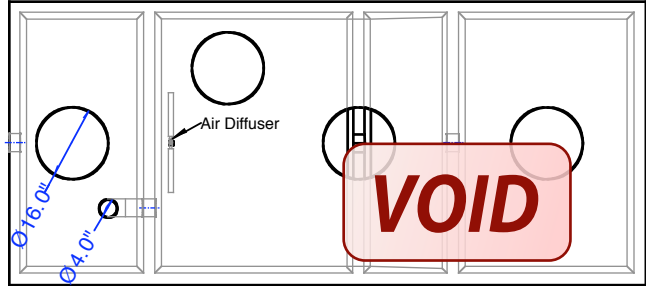
VOID



Side



Front



Top

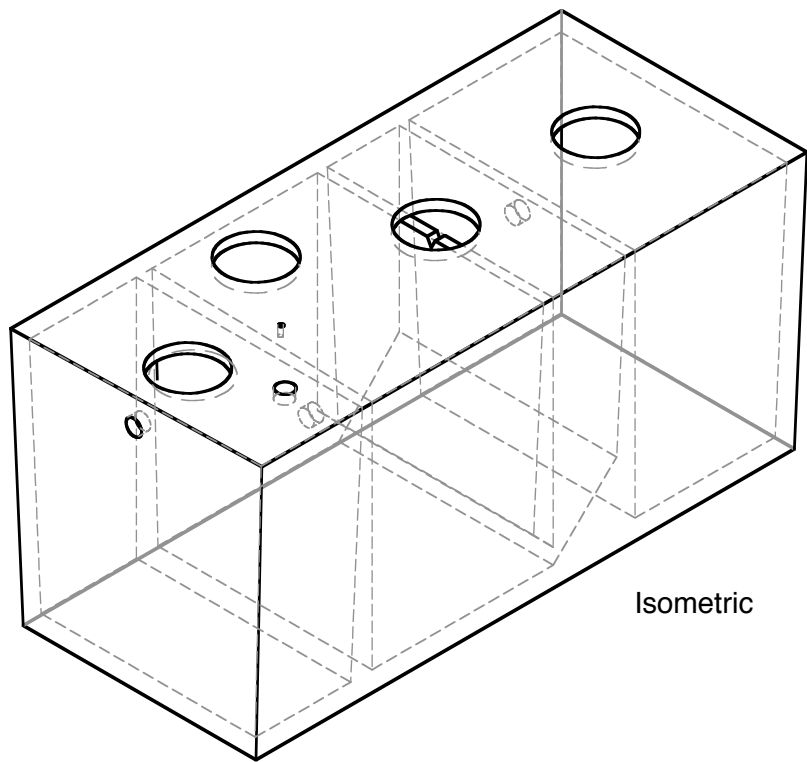
Tank Capacity

- Pretreatment Chamber: 400 Gal
- Aeration Chamber: 530 Gal
- Clarifier Chamber: 220 Gal
- Pump Chamber: 792 Gal



Tank Notes

- *Access at or above grade level must be secured against unauthorized access.
- *Tank is not rated for vehicular traffic loading
- *Primary dimensions are in inches
- *Minimum tank wall thickness is 2 1/2"
- *Labeling will include: manufacturer name, liquid capacity, date, and model number.
- *Concrete Strength Min. 3000psi



Isometric

Tex Aire Brand

On Site Wastewater Treatment Systems
by Acquired Wastewater Technologies, LCC

Model: TX 600 S PT792		Material: Concrete	Diffuser: D100P
Class: I	Date: 08/30/10	Rated Capacity: 600GPD w/792 Gal pump tank	

REVISED
8:17 am, Feb 04, 2020

VOID

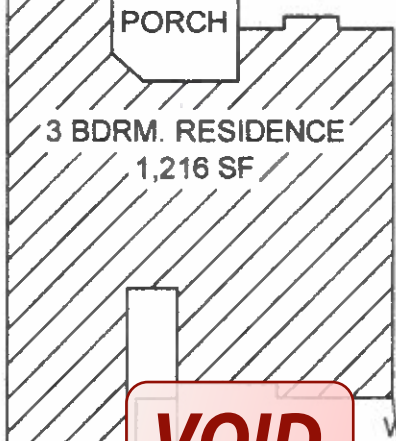
1" vacuum breakers installed at highest points

Return

SUPPLY

Nu-Water 800
Aerobic
treatment unit

137.43'
5' UTILITY EASEMENT



VOID

INSTALL 1512 sf
OF FIELD USING
756' OF DRIP
TUBING.

X= TEST HOLE

HORNSBY DRIVE

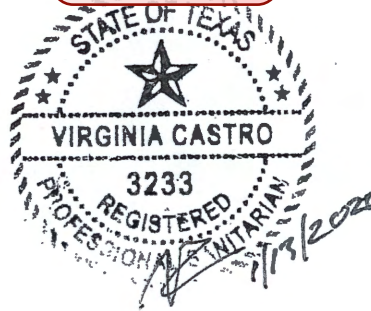
OWNER FERNANDO ROJO & ANGELITA ROJO		DATE 1/27/2020	DRAWN BY F.O.
STREET ADDRESS 2048 HORNSBY DRIVE		SCALE 1"=20'	
LEGAL DESC CYPRESS COVE	UNIT/SECTION/PHASE 2	LOT 355	PREPARED BY VIRGINIA CASTRO



Assembly Details

OSSF

VOID



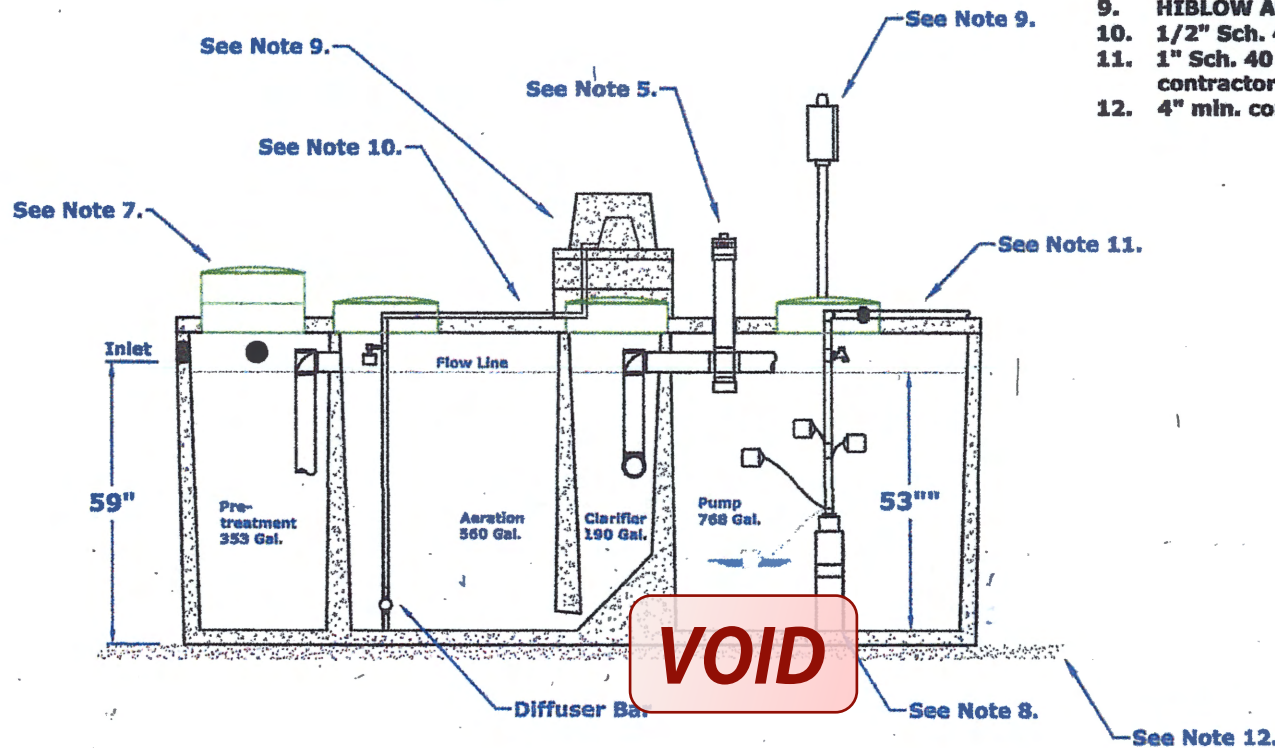
RECEIVED

JAN 17 2020

COUNTY ENGINEER

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.
4. Treatment capacity is 600 GPD. Pump compartment set-up for a 360 GPD Flow Rate (4 bedroom, < 4,000 sq/ft living area). Please specify for additional set-up requirements. BOD Loading = 1.62 lbs. per day.
5. Standard tablet chlorinator or Optional Liquid chlorinator. NSF approved chlorinators (tablet & liquid) available.
6. Bio-Robix B-550 Control Center w/ Timer for night spray application. Optional Micro Dose (min/sec) timer available for drip applications. Electrical Requirement to be 115 Volts, 60 Hz, Single Phase, 30 AMP, Grounded Receptacle.
7. 20" Ø access 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).
11. 1" Sch. 40 PVC pipe to distribution system provided by contractor.
12. 4" min. compacted sand or gravel pad by Contractor



44"-53" - Reserve - 130 Gal
 11"-44" - Working Level - 478 Gal
 8"-11" - On/Off Tether - 44 Gal
 0"-8" - Sump - 116 Gal

DIMENSIONS:

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

MINIMUM EXCAVATION DIMENSIONS:

Width: 76"
 Length: 176"

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

Model: B-550-PC-400PT

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

Scale:
 * All Dimensions subject to allowable specification tolerances.

Dwg. #: ADV-B550-3

Advantage
 Wastewater Solutions, Inc.

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

Ritzen, Brenda

From: Ritzen, Brenda
Sent: Monday, February 3, 2020 1:17 PM
To: 'Frank Oranday'
Cc: Virginia Edwards
Subject: RE: Revision submittal

Virginia,

I have reviewed the revised planning materials and have found the following information is needed:

- ✓ 1. The design specifications are contradicting. It indicates 1660 sq. ft. of absorption area is required, but the next line indicates 1200 sq. ft. required.
- ✓ 2. A minimum of 6 inches of cover is required over the drip tubing.
3. Revise as needed and resubmit.

Thank you,

Brenda Ritzen, OS0007722
Environmental Health Coordinator
Comal County Engineers Office
195 David Jonas Drive
New Braunfels, Texas 78132
830-608-2090
www.cceo.org

From: Frank Oranday <frankoranday@gmail.com>
Sent: Monday, February 3, 2020 12:36 PM
To: Ritzen, Brenda <rabbjr@co.comal.tx.us>
Cc: Virginia Edwards <vleedwards@yahoo.com>
Subject: Revision submittal

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 afternoon,

attached is the revision for 2046 Hornsby Drive.
permit # 110267

Thank you,
Frank Oranday

OSSF SOIL EVALUATION REPORT

VOID

Date: 2/3/2020

Applicant Information:

Name: Fernando & Angelita Rojo

Address: 1286 Grand Oaks Drive

City, State, & Zip Code: Spring Branch TX, 78070

Phone: 210.685.6628

Email: Angelita_rojo@yahoo.com

Property Location:

Legal: [Lot 355/Section 2] Subdivision: Cypress Cove

Street/Road Address: 2046 Hornsby Drive

City: Spring Branch, TX Zip: 78070

Additional Info: Comal County

Site Evaluator Information:

Name: Virginia E. Castro

Company:

Address: 2970 Rolling Hills Dr.

City, State, & Zip: Blanco TX, 78606

Phone: 210.275.8523

Email: vleedwards@yahoo.com

Installer Information:

Name: Virginia Castro

Company:

Address: 2970 Rolling Hills Dr.

City, State, & Zip: Blanco TX, 78606

Email: vleedwards@yahoo.com

Phone: 210.275.8523

Depth	Texture Class	Soil Texture	Structure (for Class III- blocky, platy or massive)	Drainage	Restrictive Horizon	Observation
Soil Boring #1 60"	III	012' Clay Loam + limestone	Blocky	<30% gravel		-Bedrock
Soil Boring #1 60"	III	Same as above				

VOID SPECIFICATIONS

Application Rate (Ra): .2

OSSF is designed for: 3 BR home (1,216 Sq. Ft.)

Wastewater Usage: 240 gal./day

A aerobic treatment system/ with drip tubing is to be utilized based on the site evaluation

1,660 sq. ft. absorptive area required with 890 linear feet of drip tubing

600-gpd aerobic tank required

Calculations: Absorption Area: $Q/Ra = 240 \text{ gpd} / .2 = 1,200 \text{ sq. ft min} / 2 = 600 \text{ l.f. min}$ of drip tubing

Actual: 1512 s.f. of field available $\rightarrow 1512 \text{ s.f.} / 2 \text{ l.f./s.f.} = 756 \text{ l.f.}$

FEATURES OF SITE AREA

Presence of 100-year flood zone: NO

Existing or proposed water well in nearby area: NO

Presence of adjacent ponds, streams, water impoundments: NO

Presence of upper water shed: NO

Organized sewage service available to lot: NO

I certify that the findings of this report are based on my field observations and are accurate to the best of my ability. The site evaluation and OSSF design are subject to approval by the TCEQ or the local authorized agent. The planning materials and the OSSF design should not be considered final until a permit to construct has been issued.

Site Evaluator:

NAME: Virginia Castro

License No.:

TDH:

Signature:  #12319

REVISED

1:01 pm, Feb 03, 2020

VOID

1" vacuum breakers installed at highest points

Return

SUPPLY

Nu-Water 600 Aerobic treatment unit

137.43'
5' UTILITY EASEMENT

PORCH

3 BDRM. RESIDENCE
1,216 SF

5' UTILITY EASEMENT
125.66'

DRIVE

VOID

355

HORNSBY DRIVE

INSTALL 1512sf OF FIELD USING 756' OF DRIP TUBING.

X= TEST HOLE



OWNER	FERNANDO ROJO & ANGELITA ROJO	DATE	10/2020	DRAWN BY	F.O.
STREET ADDRESS	2048 HORNSBY DRIVE			SCALE	1"=20'
LEGAL DESC	CYPRESS COVE	UNIT/SECTION/PHASE	2	LOT	355
				PREPARED BY	VIRGINIA CASTRO

VOID

REVISED
1:01 pm, Feb 03, 2020

AEROBIC TREATMENT DRIP TUBING SYSTEM
DESIGNED FOR: FERNANDO ROJO & ANGELITA ROJO
SITE ADDRESS: 2046 HORNSBY DRIVE CYPRESS COVE, LOT 355 SECTION 2

LANSCAPING:

The site of installation located in Cypress Cove, Section 2, Lot 355, Comal County TX, will include a 3 bedroom (1,216 Sq.ft) residence to be treated by a proposed aerobic treatment plant utilizing drip irrigation tubing as the most suitable system for the underlying soil.

PROPOSED SYSTEM:

A 3" or 4" SCH 40 PVC pipe discharges from the residence into a Nu-water B-550 (600gpd) aerobic treatment plant containing a 353 gallon pretreatment tank and a 768 gallon pump chamber. The pump is activated by a time controller allowing the distribution 8 times per day with a 7 minute run time with the float set to pump 240 gallons per day. A high level audible and visual alarm will activate should the pump fail. Distribution from the pump is through a self flushing 100 Mesh Spin filter and subsequently through a 1" SCH 40 manifold allowing effluent distribution to 890 l.f. of drip tubing lines spaced 2 ft. apart with .61 emitters set every two feet. A pressure gauge will be installed on the pump tank side for both the supply manifold and flush line and shall maintain a pressure of at least 25 PSI. A 1" SCH 40 return line will flush each cycle back to the trash tank. Vacuum breakers will be installed at two of the highest points of the drip field for the supply and flush manifold to prevent siphoning. Drip field will be scarified and built up with 6" of type II or type III soil before laying drip lines then will be covered with 3" of type II or type III soil. *Seeding will be added upon completion.*

VOID



Ritzen, Brenda

From: Ritzen, Brenda
Sent: Monday, January 27, 2020 1:05 PM
To: Virginia Edwards
Subject: Permit 110267

Re: Fernando & Angelita Rojo
Cypress Cove Section 2 Lot 355
Application for Permit for Authorization to Construct an On-Site Sewage Facility

Virginia,

I have reviewed your revised planning materials and have found the following information is still needed:

1. A minimum of 12 inches of soil is required below the drip tubing over the tank/ATU.
2. Revise planning materials accordingly and resubmit.

Thank you,

Brenda Ritzen, OS0007722
Environmental Health Coordinator
Comal County Engineers Office
195 David Jonas Drive
New Braunfels, Texas 78132
830-608-2090
www.cceo.org

OSSF SOIL EVALUATION REPORT

REVISED

12:52 pm, Jan 27, 2020

Date: 1/27/2020

Applicant Information:

Name: Fernando & Angelita Rojo

Address: 1286 Grand Oaks Drive

City, State, & Zip Code: Spring Branch TX, 78070

Phone: 210.685.6628

Email: Angelita_rojo@yahoo.com

Property Location:

Legal: [Lot 355/Section 2] Subdivision: Cypress Cove

Street/Road Address: 2046 Hornsby Drive

City: Spring Branch, TX Zip: 78070

Additional Info: Comal County

VOID

Site Evaluator Information:

Name: Virginia E. Castro

Company:

Address: 2970 Rolling Hills Dr.

City, State, & Zip: Blanco TX, 78606

Phone: 210.275.8523

Email: vleedwards@yahoo.com

Installer Information:

Name: Virginia Castro

Company:

Address: 2970 Rolling Hills Dr.

City, State, & Zip: Blanco TX, 78606

Email: vleedwards@yahoo.com

Phone: 210.275.8523

Depth	Texture Class	Soil Texture	Structure (for Class III- blocky, platy or massive)	Drainage	Restrictive Horizon	Observation
Soil Boring #1 60"	III	0-6" Clay Loam 6"+ limestone	Blocky	<30% gravel		-bedrock
Soil Boring #1 60"	III	Same as above				

DESIGN SPECIFICATIONS

Application Rate (Ra): .2

OSSF is designed for: 3 BR home (1,216 Sq. Ft.)

Wastewater Usage: 240 gal./day

A aerobic treatment system/ with drip tubing is to be utilized based on the site evaluation

1,660 sq. ft. absorptive area required with 890 linear feet of drip tubing

600-gpd aerobic tank required

Calculations: Absorption Area: $Q/Ra = 240 \text{ gpd}/.2 = 1,200 \text{ sq. ft min}/.2 = 600 \text{ l.f. min}$ of drip tubing

Actual: 1,660 s.f. of field available $\rightarrow 1660 \text{ s.f.}/2 \text{ l.f./s.f.} = 830 \text{ l.f.}$ to be installed

VOID

FEATURES OF SITE AREA

Presence of 100-year flood zone: NO

Existing or proposed water well in nearby area: NO

Presence of adjacent ponds, streams, water impoundments: NO

Presence of upper water shed: NO

Organized sewage service available to lot: NO

I certify that the findings of this report are based on my field observations and are accurate to the best of my ability. The site evaluation and OSSF design are subject to approval by the TCEQ or the local authorized agent. The planning materials and the OSSF design should not be considered final until a permit to construct has been issued.

Site Evaluator:

NAME: Virginia Castro

License No.:

TDH:

Signature:  # 12319

AEROBIC Drip Tubing System
DESIGNED FOR: ROJO & ANGELITA ROJO
SITE ADDRESS: 2046 HORNSBY DRIVE CYPRESS COVE, LOT 355 SECTION 2

VOID

LANDSCAPING:

The site of installation located in Cypress Cove, Section 2, Lot 355, Comal County TX, will include a 3 bedroom (1,216 Sq.ft) residence to be treated by a proposed aerobic treatment plant utilizing drip irrigation tubing as the most suitable system for the underlying soil.

PROPOSED SYSTEM:

A 3" or 4" SCH 40 PVC pipe discharges from the residence into a Nu-water B-550 (600gpd) aerobic treatment plant containing a 353 gallon pretreatment tank and a 768 gallon pump chamber. The pump is activated by a time controller allowing the distribution 8 times per day with a 7 minute run time with the float set to pump 240 gallons per day. A high level audible and visual alarm will activate should the pump fail. Distribution from the pump is through a self flushing 100 Mesh Spin filter and subsequently through a 1" SCH 40 manifold allowing effluent distribution to 890 l.f. of drip tubing lines spaced 2 ft. apart with .61 emitters set every two feet. A pressure gauge will be installed on the pump tank side for both the supply manifold and flush line and shall maintain a pressure of at least 25 PS. A 1" SCH 40 return line will flush each cycle back to the trash tank. Vacuum breakers will be installed at two of the highest points of the drip field for the supply and flush manifold to prevent siphoning. Drip field will be scarified and built up with 6" of type II or type III soil before laying drip lines then will be covered with 3" of type II or type III soil. *Seeding will be added upon completion.*

VOID



REVISED
12:52 pm, Jan 27, 2020

VOID

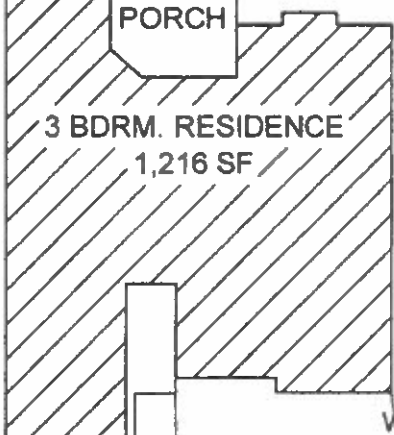
1" vacuum breakers installed at highest points

Return

SUPPLY

Nu-Water 600 Aerobic treatment unit

137.43' 5' UTILITY EASEMENT



VOID

INSTALL 1660sf OF FIELD USING 890' OF DRIP TUBING.

X= TEST HOLE

HORNSBY DRIVE

99'
96'



OWNER FERNANDO ROJO & ANGELITA ROJO		DATE 1/27/2020	DRAWN BY F.O.
STREET ADDRESS 2048 HORNSBY DRIVE		SCALE 1"=20'	
LEGAL DESC CYPRESS COVE	UNIT/SECTION/PHASE 2	LOT 355	PREPARED BY VIRGINIA CASTRO

Ritzen, Brenda

From: Ritzen, Brenda
Sent: Friday, January 24, 2020 2:46 PM
To: 'angelita_rojo@yahoo.com'
Cc: Virginia Edwards
Subject: Permit 110267

Mr. & Mrs. Rojo,

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

- ✓. Add the subdivision section number to the permit application.
2. With a .2 loading rate a minimum of 12 inches of soil is required below the drip lines. The planning materials call for only 8 inches of soil to be added on top of the 3 inches of existing soil, and indicate only 8 inches of soil below drip lines over the tank/ATU.
- ✓. Dimension each drip line on the design.
- ✓. Show the supply line from the tank/ATU to the drip field and the return line from the drip field to the tank/ATU.
5. Revise as needed and resubmit.

Thank you,

Brenda Ritzen, OS0007722
Environmental Health Coordinator
Comal County Engineers Office
195 David Jonas Drive
New Braunfels, Texas 78132
830-608-2090
www.cceo.org

*** COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH ***
APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN
ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

VOID

Date 1/16/2020

Permit # 110267

Owner Name Fernando Rojo & Angelita Rojo
Mailing Address 1286 Grand Oaks Drive
City, State, Zip Spring Branch TX, 78070
Phone # 210.685.6628
Email Angelita_rojo@yahoo.com

Agent Name Virginia Castro
Agent Address 2970 Rolling Hills Rd.
City, State, Zip Blanco TX, 78606
Phone # 210.275.8523
Email vleedwards@yahoo.com

All correspondence should be sent to: Owner Agent Both Method: Mail Email

Subdivision Name Cypress Cove Unit [] Lot 355 Block []

Acreage/Legal [.1865 Acres]

Street Name/Address 2046 Hornsby Drive City Spring Branch Zip 78070

RECEIVED

Type of Development:

Single Family Residential

JAN 17 2020

Type of Construction (House, Mobile, RV, Etc.) House

Number of Bedrooms 3

COUNTY ENGINEER

Indicate Sq Ft of Living Area 1,216 s.f.

Non-Single Family Residential

(Planning materials must show adequate land area for doubling the required land needed for treatment units and disposal area)

Type of Facility _____

Offices, Factories, Churches, Schools, Parks, Etc. Indicate Number Of Occupants _____

Restaurants, Lounges, Theaters - Indicate Number of Seats _____

Hotel, Motel, Hospital, Nursing Home - Indicate Number of Beds _____

Travel Trailer/RV Parks - Indicate Number of Spaces _____

Miscellaneous _____

Estimated Cost of Construction: \$ [150000] (Structure Only)

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

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

Source of Water Public Private Well

Are Water Saving Devices Being Utilized Within the Residence? Yes No

By signing this application, I certify that:

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

Fernando Rojo Angelita Rojo
Signature of Owner

01.16.2020
Date

OSSF SOIL EVALUATION REPORT

Date: 1/13/2020

Applicant Information:

Name: Fernando & Angelita Rojo

Address: 1286 Grand Oaks Drive
City, State, & Zip Code: Spring Branch TX, 78070

Phone: 210.685.6628

Email: Angelita_rojo@yahoo.com

Property Location:

Legal: [Lot 355/Section 2] Subdivision: Cypress Cove

Street/Road Address: 2046 Hornsby Drive

City: Spring Branch, TX **Zip:** 78070

Additional Info: Comal County

Site Evaluator Information:

Name: Virginia E. Castro

Company:

Address: 2970 Rolling Hills Dr.

City, State, & Zip: Blanco TX, 78606

Phone: 210.275.8523

Email: vleedwards@yahoo.com

Installer Information:

Name: Virginia Castro

Company:

Address: 2970 Rolling Hills Dr.

City, State, & Zip: Blanco TX, 78606

Email: vleedwards@yahoo.com

Phone: 210.275.8523

VOID

Depth	Texture Class	Soil Texture	Structure (for Class III- blocky, platy or massive)	Drainage	Restrictive Horizon	Observation
Soil Boring #1 60"	III	0-3" Clay Loam 4"+ limestone	Blocky	<30% gravel	RECEIVED See rock	
Soil Boring #1 60"	III	Same as above				

JAN 17 2020

COUNTY ENGINEER

DESIGN SPECIFICATIONS

Application Rate (Ra): .2

OSSF is designed for: 3 BR home (1,215 sq. ft.)

Wastewater Usage: 240 gal./day

A aerobic treatment system/ with drip tubing is to be utilized based on the site evaluation

VOID

1,660 sq. ft. absorptive area required with 890 linear feet of drip tubing
 600-gpd aerobic tank required

Calculations: Absorption Area: $Q/Ra = 240 \text{ gpd} / .2 = 1,200 \text{ sq. ft min} / 2 = 600 \text{ l.f. min}$ of drip tubing

Actual: 1,660 s.f. of field available $\rightarrow 1660 \text{ s.f.} / 2 \text{ l.f./s.f.} = 830 \text{ l.f.}$ to be installed

FEATURES OF SITE AREA

Presence of 100-year flood zone: NO

Existing or proposed water well in nearby area: NO

Presence of adjacent ponds, streams, water impoundments: NO

Presence of upper water shed: NO

Organized sewage service available to lot: NO

I certify that the findings of this report are based on my field observations and are accurate to the best of my ability. The site evaluation and OSSF design are subject to approval by the TCEQ or the local authorized agent. The planning materials and the OSSF design should not be considered final until a permit to construct has been issued.

Site Evaluator:

NAME: Virginia Castro

License No.:

TDH:

Signature:  # 12319

VOID

AEROBIC TREATMENT DRIP TUBING SYSTEM
DESIGNED FOR: FERNANDO ROJO & ANGELITA ROJO
SITE ADDRESS: 2046 HORNSBY DRIVE CYPRESS COVE, LOT 355 SECTION 2

LANSCAPING:

The site of installation located in Cypress Cove, Section 2, Lot 355, Comal County TX, will include a 3 bedroom (1,216 Sq.ft) residence to be treated by a proposed aerobic treatment plant utilizing drip irrigation tubing as the most suitable system for the underlying soil.

PROPOSED SYSTEM:

A 3" or 4" SCH 40 PVC pipe discharges from the residence into a Nu-water B-550 (600gpd) aerobic treatment plant containing a 353 gallon pretreatment tank and a 768 gallon pump chamber. The pump is activated by a time controller allowing the distribution 24 times per day with a 3 minute run time with the float set to pump 240 gallons per day. A high level audible and visual alarm will activate should the pump fail. Distribution from the pump is through a self flushing 100 Mesh Spin filter and subsequently through a 1" SCH 40 manifold allowing effluent distribution to 890 l.f. of drip tubing lines with .61 emitters set every two feet. A pressure gauge will be installed on the pump tank side for both the supply manifold and flush line and shall maintain a pressure of at least 25 PSI. A 1" SCH 40 return line will flush each cycle back to the trash tank. Vacuum breakers will be installed at two of the highest points of the drip field for the supply and flush manifold to prevent siphoning. Drip field will be scarified and built up will 8" of type II or type III soil before laying drip lines then will be covered with 6" of type II or type III soil.

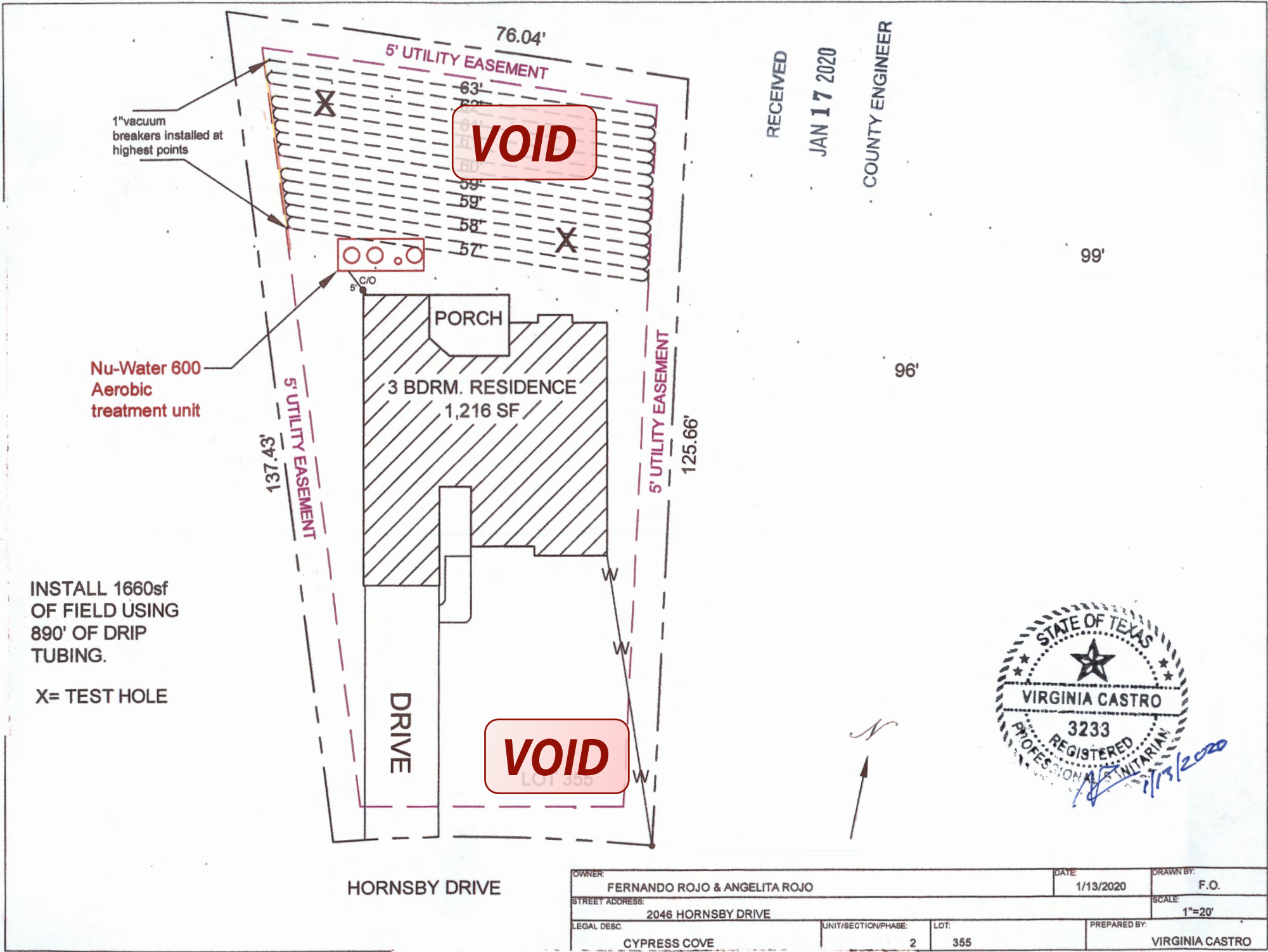
VOID

RECEIVED

JAN 17 2020

COUNTY ENGINEER





RECEIVED
 JAN 17 2020
 COUNTY ENGINEER

99'

96'



INSTALL 1660sf
 OF FIELD USING
 890' OF DRIP
 TUBING.

X= TEST HOLE

Nu-Water 600
 Aerobic
 treatment unit

1" vacuum
 breakers installed at
 highest points

HORNSBY DRIVE

OWNER: FERNANDO ROJO & ANGELITA ROJO		DATE: 1/13/2020	DRAWN BY: F.O.
STREET ADDRESS: 2046 HORNSBY DRIVE			SCALE: 1"=20'
LEGAL DESC. CYPRESS COVE	UNIT/SECTION/PHASE: 2	LOT: 355	PREPARED BY: VIRGINIA CASTRO

TTT/GF# 3814 / Closer MS/S
NB

RECEIVED
JAN 17 2020
COUNTY ENGINEER

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

STATE OF TEXAS §
COUNTY OF COMAL § KNOW ALL MEN BY THESE PRESENTS:

THAT **MICHAEL K. OTTEN**, a single person 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 **FERNANDO ROJO** and wife, **ANGELITA ROJO**, hereinafter called Grantee, the receipt and sufficiency of which is hereby acknowledged;

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

Lot 355 of CYPRESS COVE SECTION TWO, a subdivision in Comal County, Texas, according to the plat recorded in **Volume 1, page 60**, of the Map and Plat Records of Comal County, Texas.

This conveyance is made subject to, all and singular, the restrictions, conditions, easements and covenants, if any, applicable to and enforceable against the above

RECEIVED
JAN 17 2020
COUNTY ENGINEER

described property as reflected by the records of the County Clerk of Comal County, Texas.

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, executors, administrators, successors, or assigns forever.

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

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 any person whomsoever claiming or to claim the same or any part thereof.

DATED this the 17 day of **January, 2017**.

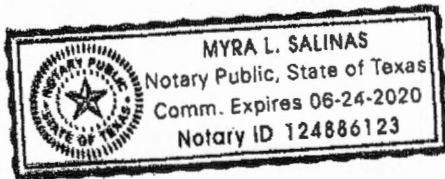
Michael K Otten
MICHAEL K. OTTEN, a single person


STATE OF TEXAS
COUNTY OF Comal

§
§

RECEIVED
JAN 17 2020
COUNTY ENGINEER

This instrument was acknowledged before me on this the 17th day of January, 2017 by **MICHAEL K. OTTEN, a single person.**





Notary Public, State of Texas

GRANTEE'S MAILING ADDRESS:

1286 Grand Oaks
Spring Branch, Tx 78070

7923.deeds
Trinity Title Co. (MS)
GF #3814NB

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
01/17/2017 02:27:05 PM
LAURA 3 Pages(s)
201706002557



Bobbie Koepp