



Comal County

OFFICE OF COMAL COUNTY ENGINEER

License to Operate On-site Sewage Treatment and Disposal Facility

Date Issued: 5/2/2006

Permit Number: 87948

Location Description: 896 Deer Run Pass, Canyon Lake, TX 78133

Lot 182R, Deer Meadows Unit 4 Subdivision

Type of System: Aerobic Treatment with Surface Irrigation Discharge

License issued to: Alexander Villegas

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

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

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


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

Licensing Authority

Comal County Environmental Health

OS8497


ENVIRONMENTAL HEALTH INSPECTOR


ENVIRONMENTAL HEALTH COORDINATOR

OS7722

System Profile

Printed: Monday, May 08, 2006

System is installed at:

896 Deer Run Pass
Canyon Lake, TX 78133
Comal County

Permit Number: 87948
System Name: Primary
Brand Name:
Model:
Serial Number:

Owner Information:

Alexander, Villegas
570 Burr Oak Lane
Canyon Lake, TX 78133
Home Phone: (830)227-5969

The original contract for installation was written on .

This system was installed by: .

The installation date was 5/2/2006.

This system is to be inspected every 4 months.

The most recent inspection for this system occurred on .

The next scheduled inspection for this system is due on 9/2/2006.

Permitting Agency:

Comal County Environmental Health
195 David Jonas Drive
New Braunfels, TX 78132-3760
Contact: Shelly Helmke, Secretary
Phone: (830) 608-2094
Fax: (830) 608-2078

Installation Company Info:

Koehn Construction
315 Ashley Ranch Rd
Seguin, TX 78155
Operator: Moris or Bode Koen
Phone: (830) 303-2560
Fax: (888) 417-4028

Maintenance Company Info:

S & K Services
4802 Sierra Madre Drive
San Antonio, TX 78233
Operator: Steven Orinick
Phone: (210) 656-2371
Fax: (210) 656-2371

Most Recent Visits and Results

Date Comp.	Visit Type	Description of Repairs
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Property Notes:

S1 - 4/27/06 , S3 - final - 5/02/06

System Notes:

Aquasafe 500 w/ 3 sprayheads @ 4056 sf. appl. area .

OSSF PERMIT INFORMATION SHEET

Date of Permit Application	Permit Number	Date of Permit Approval	Date of Flood Plain Approval
3.27.06	87948	4-25-06	3/29/06

LOCATION: Deer Meadows U.4 N. 182R

SYSTEM TYPE/DESCRIPTION: _____

INFORMATION FROM PRELIMINARY INSPECTION

DATE OF PRELIMINARY INSPECTION: _____

DESIGN MEETS TNRCC REQUIREMENTS: ☒

AFFIDAVIT RECEIVED: _____

LIST DEFICIENCIES IN PLANNING MATERIALS WHICH DO NOT MEET TNRCC RULES:

- 1- Specify that timer will spray between 8-30pm. Slope into tank grade 3x5.5. Midnight to 5 Am.
- 2- Application after 5a design.
- 3- Application does not match planning materials.

INSPECTOR COPY

INSTALLATION INSPECTION INFORMATION:

INSPECTED BY: MT

DATE OF S-1: 4/27/06 NOTES/RESULTS: Tanks set level operational & Ready For Cover.

DATE OF S-2: _____ NOTES/RESULTS: _____

DATE OF S-3: 5/2/06 NOTES/RESULTS: Covered, Ready For L.T.O.
DATE OF FINAL INSPECTION: _____ (SYSTEM COMPLETE)

INSTALLER: Keohn TANK: (SIZE & NAME) Aqua Klear

3 @ 4056 SQ. FT. ABSORPTION/APPLICATION AREA

SERVICE AGREEMENT RECEIVED: _____ (START DATE)

DATE ENTERED IN SUMMARY SHEET: _____

DATE ENTERED IN (CASST) AEROBIC DATABASE: _____

Contract Effective Date

From: _____

To: _____

ON-SITE SEWAGE FACILITIES
MAINTENANCE MONITORING CONTRACT**Initial 2 Year Contract**Permit# 87948

County _____

1. THIS AGREEMENT is made and entered into on this 27 day of MARCH-2006, by and between S & K Services, a Texas company and the home owner.

2. The Client is the owner(s) of a (n) Hydro Action Certified by Kyla Orinick, Steven Orinick, Wiley Cloud, on-site sewage disposal unit (MODEL NO. SeT & Go AP-500 SERIAL NO. _____)

3. At the signing of this contract a **\$235.00** per year fee for 2 year/s total of **\$470.00** will be due for the following services only. At least once every four (4) months, S & K Services or its authorized representative shall have full and unobstructed access to check for any adjustments needed for the mechanical, electrical and other applicable component parts to ensure proper function. This includes but not limited to, inspecting control panels, air filters, diffuser operation, and checking the chlorine residual. If access can not be gained due to locked gates, dogs, changed codes or any other reason. A rescheduling fee will be charged. An inspection report will be filed with the local permitting authority. Any additional work, samples and testing will be billed to the client, and shall be in accordance with Texas Administrative Code Section 285.91(4). We do not pump out tanks. This contract is renewable with both parties consent. Initials AV

4. The home owner will be responsible for maintaining the disinfections of the on-site sewage facilities. Initials AV

5. In the event that any component or components of the system become worn or otherwise defective or are damaged or broken, or in need of any repair or adjustments whether through the negligence of the Client or otherwise, S & K Services or its authorized representative shall repair or replace the component or components and restore the system to good working order, on an as needed basis. Any expenses incurred at this time will be billed to the client. No installer warranty, component warranty or manufacturer warranty is expressed or implied with this Agreement. Broken sprinklers or lines are not a warranty item. Cost of the parts not under warranty by the manufacturer or voided due to the negligence of the Client or otherwise, will be billed to the Client. A fee of \$50.00 per hour will be included in the charges. Initials AV

6. In the event of any failure in the operation of this system, S & K Services will be on call at 1-210-656-2371, and will respond within 48 hours. Service Call fee is \$50.00 per hour. If home owner allows anyone other than S&K Services to look at, work on, fix, change, or replace any component of the aerobic treatment unit or effluent distribution system this contract will be voided without refund. S & K Services will not be liable for any damages due to malfunction of system. Initials AV

7. Prior to expiration of this Agreement, either party may make termination with 30 days written notice, and upon the expiration of the 30-day time period, this Agreement shall be terminated. No portion of the fee will be refunded. Initials AV

8. In case any one or more of the provisions contained in this Agreement shall for any reason be held to be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not effect any other provision thereof and this Agreement shall be construed as if such invalid, illegal or unenforceable provisions had never been contained herein. Initials AV

9. This Agreement constitutes the sole and only agreement of the parties hereto and supersedes any prior understandings or written or oral agreements between the parties respecting them within the subject matter. Initials AV

In Accordance with State Laws and T.C.E.Q Owners of aerobic systems must maintain a service provider for the lifetime of the system. A signed contract must be in place 30 days prior to current contract expiration date. Initials AV

S & K Services4802 Sierra Madre Dr.
San Antonio TX 78233

Office: 210-656-2371

E-Mail: SnKServices@aol.com

www.SnKServices.net

RECEIVED

MAR 27 2006

COUNTY ENGINEER

EXECUTED AT on the day and year first written above.

Client Name

Address

Home Phone#

Alter ternate Phone #

E-Mail Address

Signature:

Client

Authorized Representatives,

Signature:

Kyla Orinick, #90420295, Steven Orinick #521024927, Wiley Cloud #7416

Contract Effective Date	
From	_____
To	_____



ON-SITE SEWAGE FACILITIES
MAINTENANCE MONITORING CONTRACT

Initial 2 Year Contract

Permit# 87948

County Comal

The effective date of this initial maintenance contract shall be the date the License to Operate is issued.

1. THIS AGREEMENT is made and entered into on this 27 day of MARCH-2006 by and between S & K Services, a Texas company and the home owner

2. The Client is the owner(s) of a (s) Hydro Action septic system by Kyla Orinick, Steven Orinick, Wiley Orinick, on-site sewage disposal unit

(MODEL NO SeT & Go AP500)

SERIAL NO _____

3. At the signing of this contract a \$235.00 per year fee for 2 year/s total of \$470.00 will be due for the following services only. At least once every four (4) months, S & K Services or its authorized representative shall have full and unobstructed access to check for any adjustments needed for the mechanical, electrical and other applicable component parts to ensure proper function. This includes but not limited to, inspecting control panels, air filters, diffuser operation, and checking the chlorine residual. If access can not be gained due to locked gates, dogs, charged codes or any other reason, A re-scheduling fee will be charged. An inspection report will be filed with the local permitting authority. Any additional work, samples and testing will be billed to the client and shall be in accordance with Texas Administrative Code Section 285.91(4). We do not pump out tanks. This contract is renewable with both parties consent. Initials AV

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5. In the event that any component or components of the system become worn or otherwise defective or are damaged or broken, or in need of any repair or adjustments whether through the negligence of the Client or otherwise, S & K Services or its authorized representative shall repair or replace the component or components and restore the system to good working order, or as needed basis. Any expenses incurred at this time will be billed to the client. No installer warranty, component warranty or manufacturer warranty is expressed or implied with this Agreement. Broken sprinklers or lines are not a warranty item. Cost of the parts not under warranty by the manufacturer or voided due to the negligence of the Client or otherwise will be billed to the Client. A fee of \$50.00 per hour will be included in the charges. Initials AV

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9. This Agreement constitutes the sole and only agreement of the parties hereto and supercedes any prior understandings or written or oral agreements between the parties respecting them within the subject matter. Initials AV

In Accordance with State Laws and T.C.E.C. A signed contract must be in place 30 days prior to current contract expiration date. Initials

S & K Services

4802 Sierra Madre Dr
San Antonio TX 78233
Office: 210-656-2371
E-Mail: S&KServices@comcast.net
www.S&KServices.net

EXECUTED AT _____ on the _____ day and year first by and between

Client Name Alexander Villegas
Address 896 DEER RUN PASS
CANYON LAKE, TX 78333

Home Phone# _____

Alternate Phone# 830-227-0969

E-Mail Address _____

Signature Alexander Villegas

Client

Signature

Kyla Orinick #560-50295, Steven Orinick #0800-24601, Wiley Orinick #7416



Comal County

OFFICE OF COMAL COUNTY ENGINEER

**PERMIT OF AUTHORIZATION TO CONSTRUCT
AN ON-SITE SEWAGE FACILITY
PERMIT VALID FOR ONE YEAR FROM DATE ISSUED**

Permit Number: 87948

Issued this date: April 25, 2006

This Permit is hereby given to: Alexander Villegas

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

896 Deer Run Pass, Canyon Lake, TX 78133
Lot 182R, Deer Meadows Unit 4 Subdivision

APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic Treatment with Surface Irrigation Discharge

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 Natural Resource Conservation Commission (TNRCC). Installation and inspection must comply with current TNRCC and Comal County requirements.

Call (830) 608-2094 to schedule inspections.

ALAMO SEPTIC DESIGNS, LLC
PO BOX 579
LA VERNIA, TEXAS 78121
(210) 416-2983, FAX (830) 779-5031

REVISED

ON SITE SEWAGE FACILITY TECHNICAL REPORT
AEROBIC WASTEWATER SYSTEM APPLICATION

DATE: MARCH 12, 2006
PROPERTY OWNER: ALEXANDER VILLEGAS
MAILING ADDRESS: 570 BURR OAK, CANYON LAKE, TEXAS 78133
TELEPHONE: 830-227-5969
HOME OWNER: SAME AS ABOVE
MAILING ADDRESS: SAME AS ABOVE
TELEPHONE: SAME AS ABOVE

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APR 21 2006

ENVIRONMENTAL HEALTH

SITE DESCRIPTION/EVALUATION

SITE ADDRESS: 896 DEER RUN PASS, CANYON LAKE, TEXAS 78133
LEGAL DESCRIPTION: DEER MEADOWS SUBDIVISION, PHASE FOUR, LOT 182R
ACREAGE: 0.696 COUNTY: COMAL
PRESENCE OF 100-YEAR FLOOD ZONE: ☐ YES ☒ NO
EXISTING OR PROPOSED WATER WELL NEARBY: ☐ YES ☒ NO
PRESENCE OF ADJACENT PONDS, STREAMS, WATER IMPOUNDMENTS: ☐ YES ☒ NO
PRESENCE OF UPPER WATERSHED: ☐ YES ☒ NO
ORGANIZED SEWER SERVICE AVAILABLE: ☐ YES ☒ NO

THIS SITE IS BEING PERMITTED FOR AN AEROBIC TREATMENT SYSTEM WITH SURFACE IRRIGATION. THE DRAINAGE ON THE LOT IS SUCH THAT IT WILL NOT ADVERSELY AFFECT THE PERFORMANCE OF THE ON SITE SEWAGE FACILITY. THE SIZING WAS DETERMINED AS SPECIFIED IN THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) ON SITE SEWAGE FACILITY - CHAPTER 285.33(C)(2). VEGETATION AT THE SITE CONSISTS OF NATURAL GRASSES AND NO RECHARGE FEATURES ARE LOCATED WITHIN THE AREA.

SYSEYM DESCRIPTION

THE ON-SITE SEWAGE FACILITY WILL UTILIZE A PROPRIETARY AEROBIC TREATMENT PLANT WITH SURFACE IRRIGATION. WASTEWATER WILL FLOW FROM STRUCTURE TO A TRASH TANK, THEN INTO A TREATMENT TANK. TREATED EFFLUENT WILL FLOW THRU A CHLORINATOR, WHICH WILL DISINFECT THE WASTEWATER PRIOR TO ENTERING THE PUMP TANK. WATER WILL BE PUMPED FROM THE PUMP TANK TO SPRINKLER HEADS.

DESIGN PARAMETERS

TYPE OF STRUCTURE: MANUFACTURED HOME
SIZE OF STRUCTURE: 2304 SQUARE FEET
NUMBER OF BEDROOMS: THREE
WATER SAVING DEVICES: ☒ YES ☐ NO
AVERAGE EXPECTED FLOW: 240 GALLONS/DAY
APPLICATION RATE: .064 GALLONS/SQUARE FOOT/DAY
APPLICATION AREA REQUIRED: (240 GALLONS/DAY)/(.064 GALLONS/SQUARE FOOT/DAY) = 3750 SQUARE FEET
APPLICATION AREA PROPOSED: 3961 SQUARE FEET
ELEVATION HEAD = 3 FEET/HEAD (ELEVATION FROM EFFLUENT PUMP TO SPRINKLER HEADS)
PRESSURE HEAD = 69.3 FEET/HEAD (30 PSI OPERATING PRESSURE X 2.31 PSI/FT)
FRICTION HEAD = $[1.2(6.88)/100] \times 192 = 15.85$ FEET/HEAD
TOTAL HEAD = 88.15 FEET/HEAD (ELEVATION HEAD + PRESSURE HEAD + FRICTION HEAD)
PUMP REQUIREMENTS: 1/2 HP 10.20 GPM @ 88.15 FEET OF HEAD
DOSING CYCLE: DOSED IN PREDAWN HOURS (BETWEEN MIDNIGHT AND 5 AM)

P# 87948
**REVISED
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APR 25 2006

EQUIPMENT

TREATMENT SYSTEM: HYDROACTION AEROBIC TREATMENT UNIT

PRETREATMENT TANK: 500 GALLONS

PUMP TANK: 500 GALLONS

SPRINKER: K-RAIN LOW ANGLE SPRINKLER

ALARMS: AUDIBLE & VISUAL HIGH WATER ALARM

1" SCHEDULE 40 PURPLE PVC PIPE NOT TO EXCEED 192'

SURFACE IRRIGATION: THREE (3) 180° 29' RADIUS IRRIGATION SITES USING LOW ANGLE K-RAIN SPRINKLER

HEAD WITH #4 NOZZLE OPERATING AT 30 PSI.

DISINFESTION: CHLORINE TABLET

ENVIRONMENTAL HEALTH

CONSTRUCTION / INSTALLATION

INSTALLER SHALL FOLLOW ALL MANUFACTURERS INSTRUCTION FOR THE INSTALLATION OF THE TREATMENT PLANT, CHLORINATOR, WIRING AND AERATOR. ALL REQUIRED SETBACKS ARE TO BE FOLLOWED BY INSTALLER. INSTALLER WILL FURNISH HOMEOWNER WITH OWNERS MANUAL AND THE REQUIREMENTS OF THE HOMEOWNER TO MAINTAIN THE AEROBIC TREATMENT UNIT.

ELECTRICAL

ELECTRICAL WIRING SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE NATIONAL ELECTRIC CODE. CONNECTIONS SHALL BE IN APPROVED JUNCTION BOXES AND ALL EXTERNAL POWER WIRING SHALL BE IN APPROVED ELECTRICAL CONDUIT, BURIED AND TERMINATED AT A MAIN CIRCUIT BREAKER PANEL OR SUB-PANEL.

LANDSCAPING

ANY TREES THAT OBSTRUCT APPLICATION WILL BE REMOVED OR TRIMMED TO ALLOW TREATED EFFLUENT TO REACH THE GROUND SURFACE FROM THE IRRIGATION AREAS DURING SITE PREPARATION. ANY BARE ROCK AREAS MUST BE COVERED WITH A SUITABLE AMOUNT OF MATERIAL ACCEPTABLE TO THE PERMITTING AUTHORITY. ANY ROCKY AREAS SHOULD ALSO BE BACKFILLED TO ALLOW VEGETATIVE GROWTH. AREAS THAT ARE BARE OR HAVE BEEN DISTURBED MUST BE SEED OR SODDED WITH A MIX OF RYE AND BERMUDA GRASSES PRIOR TO SYSTEM OPERATION. IT IS HIGHLY RECOMMENDED THAT A GOOD STANDING OF VEGETATION BE ESTABLISHED PRIOR TO SYSTEM OPERATION.

CERTIFICATION: I HEREBY CERTIFY THAT THE ON SITE SEWAGE SYSTEM DESIGN IS IN ACCORDANCE WITH TCEQ (TEXAS COMMISSION ON ENVIRONMENTAL QUALITY) RULES AND REGULATIONS FOR THE DESIGN OF PRIVATE SEWAGE SYSTEMS. THE SYSTEM PROPERLY INSTALLED AND MAINTAINED CAN BE EXPECTED TO FUNCTION WITHOUT CREATING A PUBLIC NUISANCE OR HEALTH HAZARD. THE PROPER PERFORMANCE OF THE OSSF CANNOT BE GUARANTEED EVEN THOUGH ALL PROVISIONS OF THE STANDARDS HAVE BEEN GENERALLY COMPLIED WITH. THE SITE EVALUATION AND SUBSEQUENT DESIGN ARE BASED UPON TECHNICAL INFORMATION CURRENTLY AVAILABLE.


GREGG R. TIEKEN, REGISTERED SANITARIAN 3561

PH 87948
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APR 25 2006

WASTEWATER USAGE RATE 240 GALLONS/DAY
 APPLICATION RATE 0.064 GAL/SQFT/DAY
 MINIMUM APPLICATION AREA 3750 SQUARE FEET
 PROPOSED APPLICATION AREA 3961 SQUARE FEET
 GALLONS/MINUTE 10.20 GPM
 PUMP TIME 23.53 MINUTES

ENVIRONMENTAL HEALTH

SPRINKLER HEAD #	RADIUS	ARC	GALLONS/MINUTE
SPRINKLER HEAD #1	29 FOOT RADIUS	180 ° ARC	3.4 GALLONS/MINUTE
SPRINKLER HEAD #2	29 FOOT RADIUS	180 ° ARC	3.4 GALLONS/MINUTE
SPRINKLER HEAD #3	29 FOOT RADIUS	180 ° ARC	3.4 GALLONS/MINUTE
SPRINKLER HEAD #4	FOOT RADIUS	360 ° ARC	GALLONS/MINUTE
SPRINKLER HEAD #5	FOOT RADIUS	360 ° ARC	GALLONS/MINUTE
SPRINKLER HEAD #6	FOOT RADIUS	360 ° ARC	GALLONS/MINUTE
SPRINKLER HEAD #7	FOOT RADIUS	360 ° ARC	GALLONS/MINUTE
SPRINKLER HEAD #8	FOOT RADIUS	360 ° ARC	GALLONS/MINUTE

RADIUS	ARC	APPLIACTION AREA	APPLICATION RATE
29 FEET	180 °	1320.37 SQUARE FEET	0.061 GAL/SQFT/DAY

RADIUS	ARC	APPLIACTION AREA	APPLICATION RATE
29 FEET	180 °	1320.37 SQUARE FEET	0.061 GAL/SQFT/DAY

RADIUS	ARC	APPLIACTION AREA	APPLICATION RATE
0 FEET	360 °	0.00 SQUARE FEET	#DIV/0! GAL/SQFT/DAY

RADIUS	ARC	APPLIACTION AREA	APPLICATION RATE
0 FEET	360 °	0.00 SQUARE FEET	#DIV/0! GAL/SQFT/DAY

OPERATING PRESSURE	LINEAR FEET OF PIPE	SIZE OF PIPE	DEPTH OF PUMP INTAKE	HIGHEST SPRINKLER ELEVATION	FRICITION LOSS
30 PSI	192 FEET	1 INCH	3 FEET	0 FEET	6.88 FEET HEAD / 100' PIPE

FRICITION HEAD	PRESSURE HEAD	ELEVATION HEAD	TOTAL HEAD
15.85152	69.3	3	88.15152

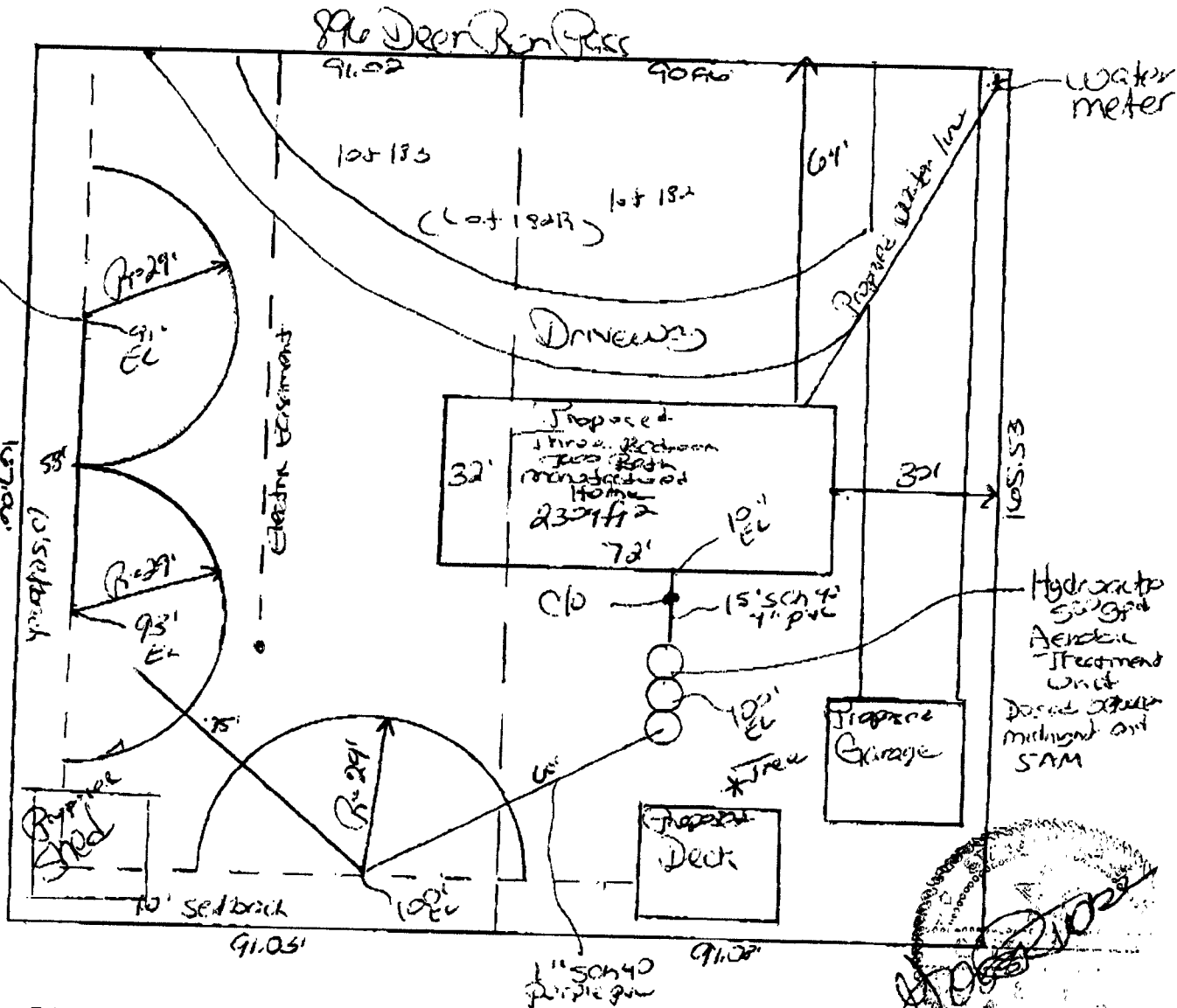
Septic System Design for Alexander Villegas

#87948
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APR 25 2006

ENVIRONMENTAL HEALTH

Three (3) 180° 29' radius
low angle K-Rain sprinkler
heads with 4 nozzles
operating @ 30 psi.



Scale 1" = 30'

87948

COMAL COUNTY OSSF SOIL EVALUATION FORM

Owners Name: Alexander Villegas

Physical Address: 9600 Box 300, Canyon Lake, TX 78133

Name of Site Evaluator: Gregg R. Wilcox

Date Performed: 3/12/06 Proposed Excavation Depth: NA

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COUNTY ENGINEER

Requirements:

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

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

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

SOIL BORING NUMBER <u>1</u>						
Depth (Feet)	Texture Class	Soil Texture	Structure (For Class III- blocky, platy or massive)	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0	<u>IX</u>	<u>Clay</u>		<u>NONE</u>	<u>NONE</u>	<u>NONE</u>
1		<u>Limestone mix w/ Caliche</u>			<u>Yes (limestone)</u>	
2						
3						
4						
5						

SOIL BORING NUMBER _____						
Depth (Feet)	Texture Class	Soil Texture	Structure (For Class III- blocky, platy or massive)	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0						
1						
2						
3						
4						
5						

FEATURES OF SITE AREA

Presence of 100 year flood zone YES NO ✓

Presence of adjacent ponds, streams, water impoundments YES NO ✓

Existing or proposed water well in nearby area YES NO ✓

Organized sewage available to lot or tract YES NO ✓

Recharge features within 150 feet YES NO ✓

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

Gregg R. Wilcox
Signature of Site Evaluator

3/12/06
Date

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COUNTY ENGINEER

OSSF SOIL EVALUATION REPORT INFORMATIONDATE: 3/12/06**Applicant Information:**

Name: Alexandra Villegas
 Address: 500 2nd St
 City: Canyon Lake State: TX
 Zip Code: 78133 Phone: 832-227-5906 Fax: _____

Site Evaluator Information:

Name: Greg R. Ilich
 Company: _____
 Address: P.O. Box 579
 City: La Vernia State: TX
 Zip Code: 78121 Phone: _____ Fax: _____
810-410-2983

Property Location:

Lot: 132R Block: _____ Subdivision: Deer Meadow
 Street/Road Address: 916 Deer Run Cross
 City: Canyon Lake Zip Code: 78133
 Additional Information: _____

Installer Information:

Name: Morris Koehn
 Company: _____
 Address: 616 Gloria Drive
 City: Seguin State: TX
 Zip Code: 78155 Phone: _____ Fax: _____
820-325-3932

SCHEMATIC of LOT of TRACT

Show:

North arrow, adjacent streets, property lines, dimensions, location of buildings, easements, swimming pools, water lines, and other structures where known.

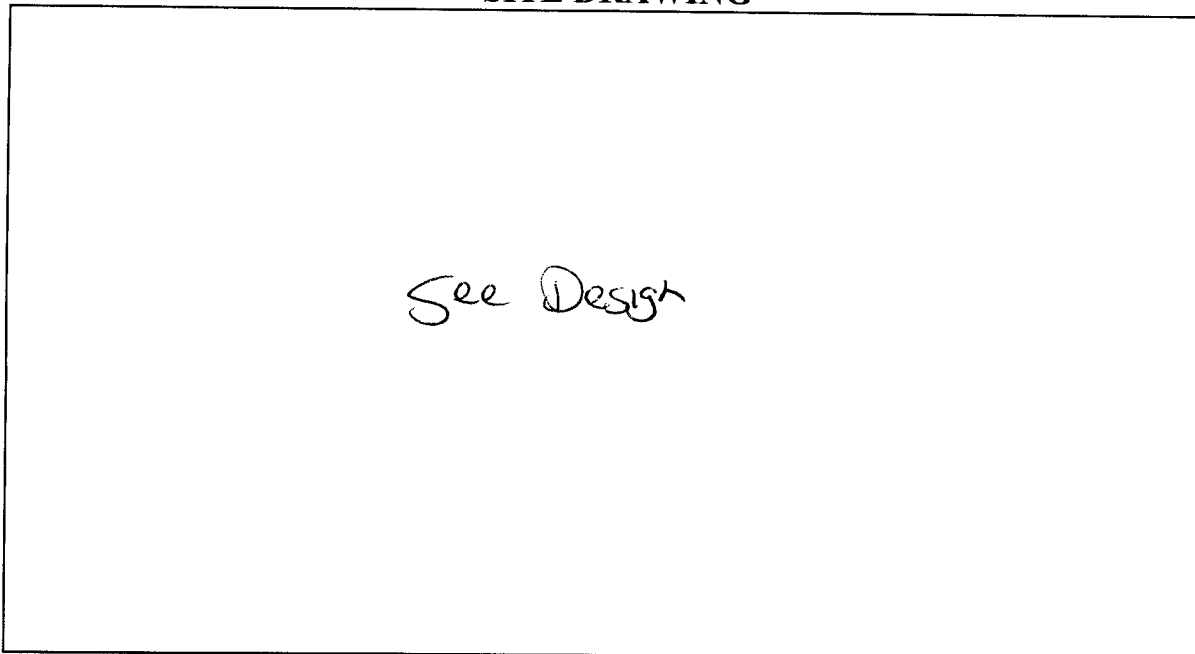
Location of existing or proposed water wells within 150 feet of property.

Indicate slope or provide contour lines from the structure to the farthest location for the proposed soil absorption or irrigation area.

Location of soil boring or dug pits (show with respect to a known reference point).

Location of drainage ways, water impoundment areas, cut or fill bank, sharp slopes and breaks.

Lot Size: 0.69 acres

SITE DRAWING**FEATURES OF SITE AREA**

Presence of 100 year flood zone	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Presence of upper water shed	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
Existing or proposed water well in nearby area	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Organized sewage service available to lot	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
Presence of adjacent ponds, streams, water impoundments YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			

Site Evaluator:

NAME: Greg R. Ilich Signature: [Signature] License No: 050011902

AFFIDAVIT TO THE PUBLIC

87948

Doc# 200606011020

THE COUNTY OF COMAL
STATE OF TEXAS

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CERTIFICATION OF OSSF REQUIRING MAINTENANCE

COUNTY ENGINEER

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.

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 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 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 TNRCC 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 (legal description as shown on recorded warranty deed): Deer Meadows, Phase 4, Lot 182R

The property is owned by (owner's full name as shown on recorded warranty deed):

Alexander Villalobos

This OSSF must be covered by a continuous maintenance contract. All maintenance on this OSSF must be performed by an approved maintenance company, and a signed maintenance contract must be submitted to Comal County Engineer's Office within 30 days after the property has been transferred.

The owner will, upon sale or transfer of the above described property, request a transfer of the permit for the OSSF 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.

WITNES BY HAND(S) ON THIS 20 DAY OF March, 2006

[Signature]

Owner(s) signature(s)

SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 20 DAY OF March, 2006

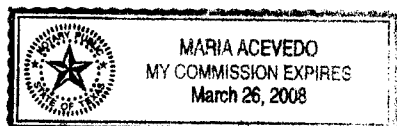
Maria Acevedo
Notary Public, State of Texas

Notary's Printed Name: MARIA Acevedo
My Commission Expires: 3/26/08

Doc# 200606011020
Pages 1
03/20/2006 3:54PM
Official Records of
COMAL COUNTY
JOY STREATER
COUNTY CLERK
Fees \$16.00



Joy Streater



Doc# 200606011020

ALAMO SEPTIC DESIGNS, LLC
PO BOX 579
LA VERNIA, TEXAS 78121
(210) 416-2983, FAX (830) 779-5031

P#87948
REVISED

ON SITE SEWAGE FACILITY TECHNICAL REPORT
AEROBIC WASTEWATER SYSTEM APPLICATION

DATE: MARCH 12, 2006
PROPERTY OWNER: ALEXANDER VILLEGAS
MAILING ADDRESS: 570 BURR OAK, CANYON LAKE, TEXAS 78133
TELEPHONE: 830-227-5969
HOME OWNER: SAME AS ABOVE
MAILING ADDRESS: SAME AS ABOVE
TELEPHONE: SAME AS ABOVE

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APR 25 2006
ENVIRONMENTAL HEALTH

SITE DESCRIPTION/EVALUATION

SITE ADDRESS: 896 DEER RUN PASS, CANYON LAKE, TEXAS 78133
LEGAL DESCRIPTION: DEER MEADOWS SUBDIVISION, PHASE FOUR, LOT 182R
ACREAGE: 0.696 COUNTY: COMAL
PRESENCE OF 100-YEAR FLOOD ZONE: ☐ YES ☒ NO
EXISTING OR PROPOSED WATER WELL NEARBY: ☐ YES ☒ NO
PRESENCE OF ADJACENT PONDS, STREAMS, WATER IMPOUNDMENTS: ☐ YES ☒ NO
PRESENCE OF UPPER WATERSHED: ☐ YES ☒ NO
ORGANIZED SEWER SERVICE AVAILABLE: ☐ YES ☒ NO

THIS SITE IS BEING PERMITTED FOR AN AEROBIC TREATMENT SYSTEM WITH SURFACE IRRIGATION. THE DRAINAGE ON THE LOT IS SUCH THAT IT WILL NOT ADVERSELY AFFECT THE PERFORMANCE OF THE ON SITE SEWAGE FACILITY. THE SIZING WAS DETERMINED AS SPECIFIED IN THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) ON SITE SEWAGE FACILITY - CHAPTER 285.33(C)(2). VEGETATION AT THE SITE CONSISTS OF NATURAL GRASSES AND NO RECHARGE FEATURES ARE LOCATED WITHIN THE AREA.

SYSTEM DESCRIPTION

THE ON-SITE SEWAGE FACILITY WILL UTILIZE A PROPRIETARY AEROBIC TREATMENT PLANT WITH SURFACE IRRIGATION. WASTEWATER WILL FLOW FROM STRUCTURE TO A TRASH TANK, THEN INTO A TREATMENT TANK. TREATED EFFLUENT WILL FLOW THRU A CHLORINATOR, WHICH WILL DISINFECT THE WASTEWATER PRIOR TO ENTERING THE PUMP TANK. WATER WILL BE PUMPED FROM THE PUMP TANK TO SPRINKLER HEADS.

DESIGN PARAMETERS

TYPE OF STRUCTURE: MANUFACTURED HOME
SIZE OF STRUCTURE: 2304 SQUARE FEET
NUMBER OF BEDROOMS: THREE
WATER SAVING DEVICES: ☒ YES ☐ NO
AVERAGE EXPECTED FLOW: 240 GALLONS/DAY
APPLICATION RATE: .064 GALLONS/SQUARE FOOT/DAY
APPLICATION AREA REQUIRED: (240 GALLONS/DAY)/(.064 GALLONS/SQUARE FOOT/DAY) = 3750 SQUARE FEET
APPLICATION AREA PROPOSED: 3961 SQUARE FEET
ELEVATION HEAD = 3 FEET/HEAD (ELEVATION FROM EFFLUENT PUMP TO SPRINKLER HEADS)
PRESSURE HEAD = 69.3 FEET/HEAD (30 PSI OPERATING PRESSURE X 2.31 PSI/FT)
FRICTION HEAD = $[1.2(6.88)/100] \times 192 = 15.85$ FEET/HEAD
TOTAL HEAD = 88.15 FEET/HEAD (ELEVATION HEAD + PRESSURE HEAD + FRICTION HEAD)
PUMP REQUIREMENTS: 1/2 HP 10.20 GPM @ 88.15 FEET OF HEAD
DOSING CYCLE: DOSED IN PREDAWN HOURS (BETWEEN MIDNIGHT AND 5 AM)

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COUNTY ENGINEER

PLASTIC PIPE: FRICTION LOSS (IN FEET OF HEAD) PER 100 FT.

GPM	GPH	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"
1	60	4.25	1.38	.356	.11								
2	120	15.13	4.83	1.21	.38	.10							
3	180	31.97	9.96	2.51	.77	.21	.10						
4	240	54.97	17.07	4.21	1.30	.35	.16						
5	300	84.41	25.76	6.33	1.92	.51	.24						
6	360		36.34	8.83	2.69	.71	.33	.10					
8	480		63.71	15.18	4.58	1.19	.55	.17					
10	600		97.52	25.98	6.88	1.78	.83	.25	.11				
15	900			49.68	14.63	3.75	1.74	.52	.22				
20	1,200			86.94	25.07	6.39	2.94	.86	.36	.13			
25	1,500				38.41	9.71	4.44	1.29	.54	.19			
30	1,800					13.62	6.26	1.81	.75	.26			
35	2,100					18.17	8.37	2.42	1.00	.35	.09		
40	2,400					23.55	10.70	3.11	1.28	.44	.12		
45	2,700					29.44	13.46	3.84	1.54	.55	.15		
50	3,000						16.45	4.67	1.93	.66	.17		
60	3,600						23.48	6.60	2.71	.93	.25		
70	4,200							8.83	3.66	1.24	.33		
80	4,800							11.43	4.67	1.58	.41		
90	5,400							14.26	5.82	1.98	.52		
100	6,000								7.11	2.42	.63	.08	
125	7,500								10.83	3.80	.95	.13	
150	9,000									5.15	1.33	.18	
175	10,500									6.90	1.78	.23	
200	12,000									8.90	2.27	.30	
250	15,000										3.36	.45	.12
300	18,000										4.85	.63	.17
350	21,000										6.53	.84	.22
400	24,000											1.08	.28
500	30,000											1.66	.42
550	33,000											1.98	.50
600	36,000											2.35	.59
700	42,000												.79
800	48,000												1.02
900	54,000												1.27
950	57,000												.46
1000	60,000												.50

Goulds Pumps



ITT Industries

87948
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 MAR 27 2006
 COUNTY ENGINEER

500 GALLON
 PRETREAT

AP-500 PLANT

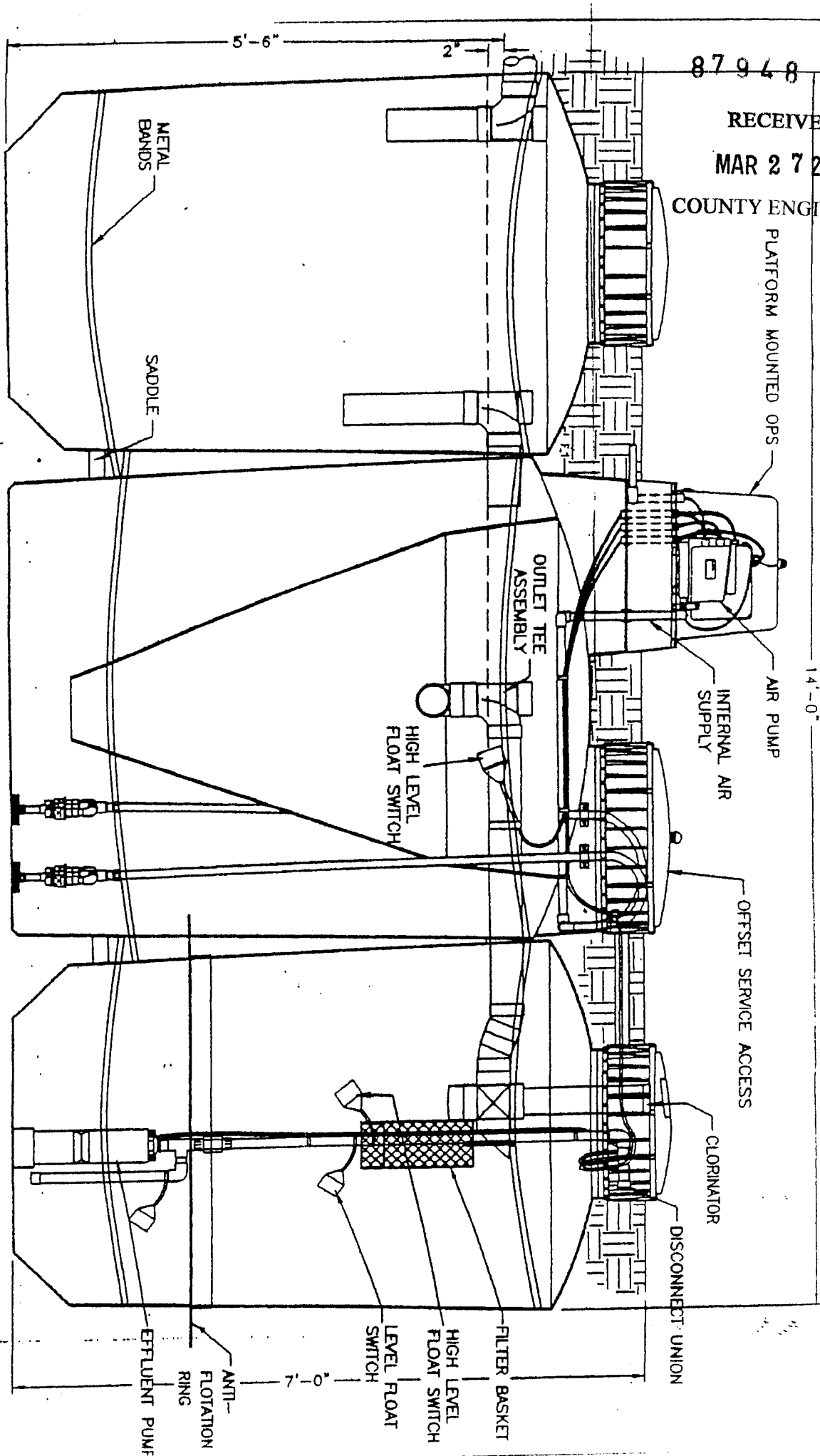
500 GALLON
 PUMP TANK

U.S. PATENT NOS.

6,096,203
 5,286,239
 6,106,704
 D423,638
 D424,859
 D426,886
 6,180,004

HYDRO-ACTION
 WATSON, TX
 AP-500 SET-N-GO UNIT
 WITH 500 GAL. PRETREAT
 AND 500 GAL. PUMP TANK

DRAWN BY	V. H.
APPROVED	J. M.
SCALE	N.T.S.
DATE	8-7-01
DRAWING NUMBER	500-500-500-N



HYDROMATIC®

HE8/HE12/HE20-51

High Head Filtered Effluent Pumps

HYDROMATIC® HIGH HEAD FILTERED EFFLUENT PUMPS ARE DESIGNED SPECIFICALLY FOR HIGH PRESSURE APPLICATIONS.

These high performance, high head pumps are proven to be cost effective solutions for pumping filtered effluent from processed wastewater systems.

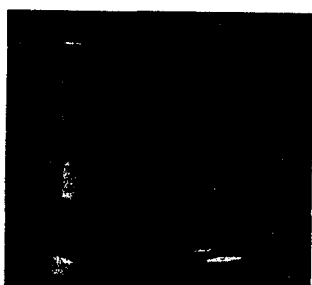
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MAR 27 2006

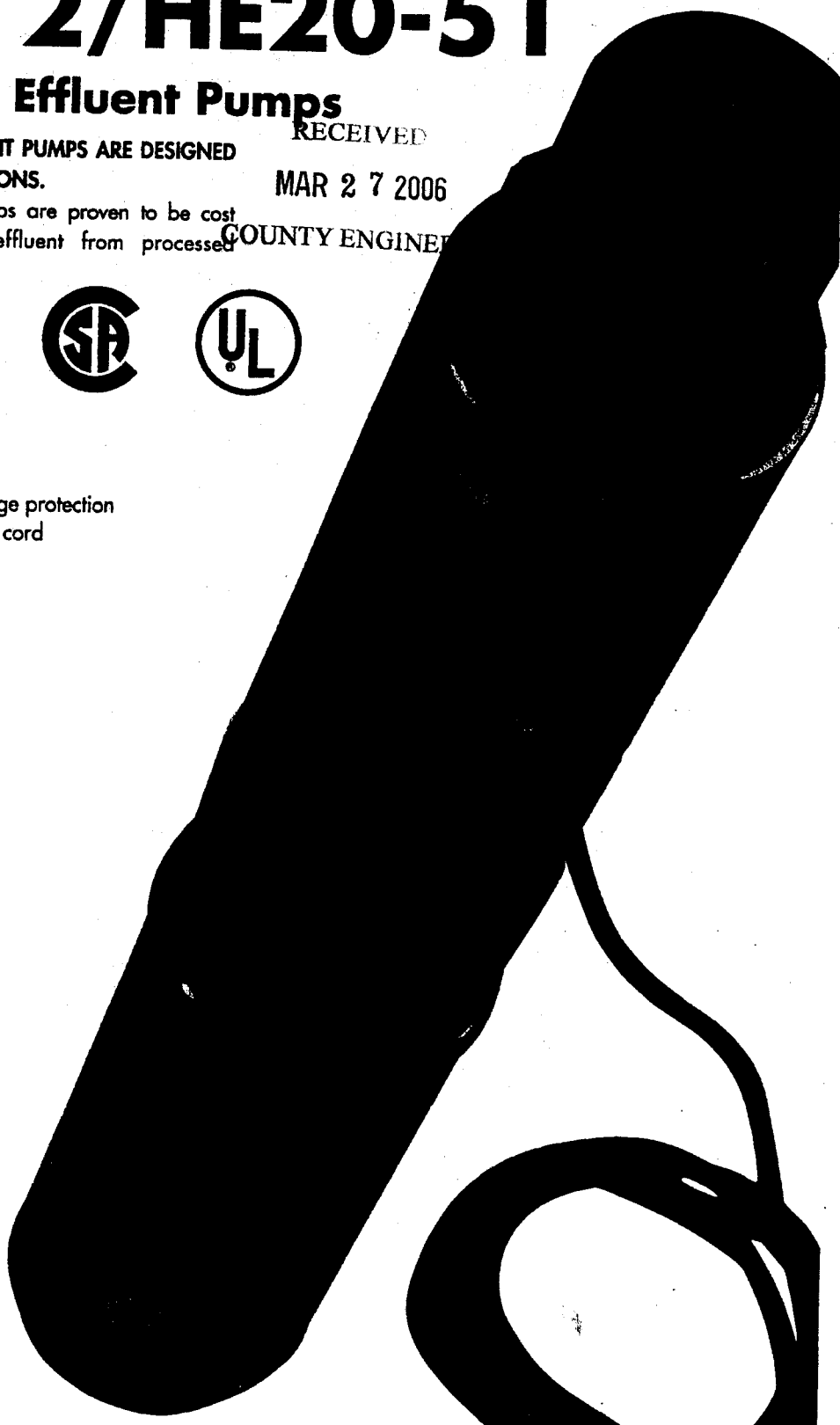
COUNTY ENGINEER

Product Features Include:

- High pressure capacity.
- Corrosion resistant design for long life.
- UL and CSA listed.
- Dependable field proven motor.
 - Stainless steel construction
 - Built-in overload and electric surge protection
 - Replaceable 10' jacketed power cord
 - Hermetically sealed windings
 - Continuous duty rating
- Frequent cycling capabilities.
 - 1/2 HP - 300 starts/24 hours
- Powerful, yet lightweight.
- Easy handling and installation.



Double Screened



HYDROMATIC®
Pentair Pump Group

HE8/HE12/HE20-51 - High Head Filtered Effluent Pumps

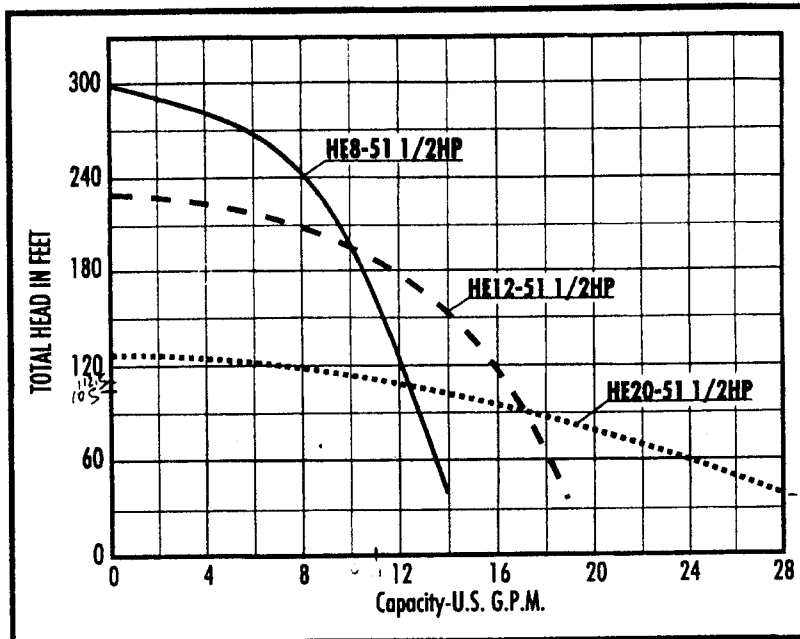
Details

87 9 4 8

Pump Characteristics

Pump/Motor Unit	High Head Filtered Effluent Pump
Capacities To	28 GPM
Heads To	290 Feet
Max. Spherical Solids	1/16" Diameter
Liquids Handling	Filtered Effluent
Max Liquid Temp.	122° F
Motor Electrical Data	1/2 HP, 115 volts, 1 ph. 60 Hz. 3450 RPM
Motor Rating	Continuous Duty
Max. Motor Starts/24 Hours	300 (1/2 HP)
Third Party Listings	UL, CSA
Specific Gravity	.9 - 1.1
Viscosity	28 - 35 SSU
Discharge, NPT	1-1/4" (8, 12, & 20 GPM)
Shell	300 Series SST
Shaft and Coupling	300 Series SST
Suction Bowl	Chemically Resistant Reinforced Nylon

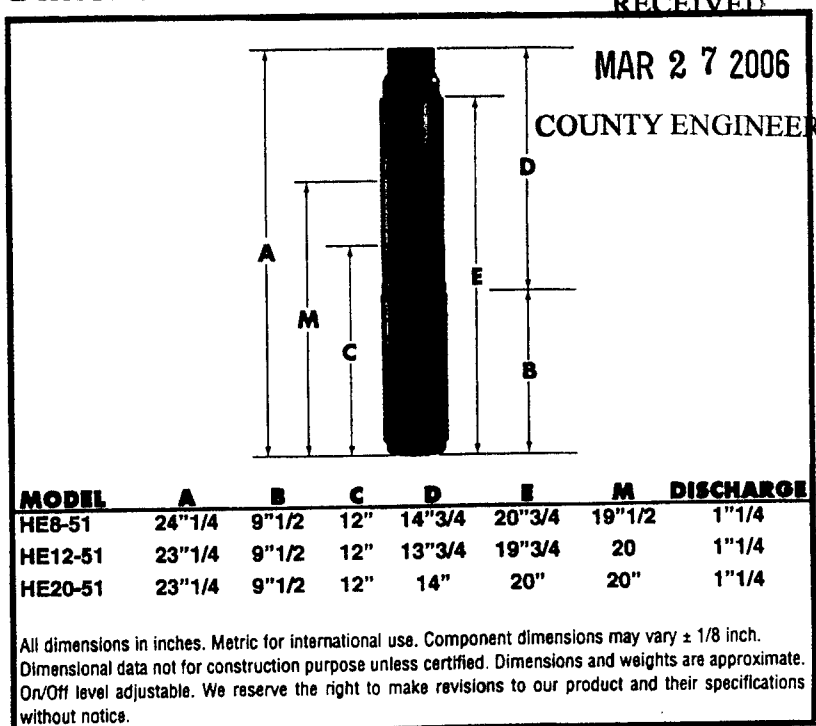
Performance Data



Materials of Construction

Discharge Bowl 8, 12, 20 GPM	Corrosion Resistant Reinforced Polycarbonate
Staging 8, 12, 20 GPM	Premier Teflon Reinforced Polyester
Built-in Check Valve 8, 12, 20 GPM	Premier Teflon Reinforced Polyester
Thrust Washer	Phenolic
Fasteners	300 Series SST
Impeller Wear Ring	300 Series SST
Shell and End Caps	SST
Spline Shaft	SST
Electrical Protection	Built-in Overload and Surge Arrestor
Third Party Listings	ULCSA
Replaceable Motor	14-3 Jacketed Type SJOW-A
Lead Wire Assembly	UL and CSA Recognized
Windings	Hermetically
Motor Mounting	NEMA

Dimensional Data



HYDROMATIC®

Pentair Pump Group

1840 Baney Road Ashland, Ohio 44805
Tel: 419-289-3042 Fax: 419-281-4087
www.hydromatic.com ISO 9001 Certified

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- Your Authorized Local Distributor -

Item #: W-02-6650 10/99 8M

TECHNICAL SPECIFICATIONS: K2+ PROFESSIONAL SERIES

COUNTY ENGINEER

FEATURES

- 5 Inch Riser Pop-Up Height
- NEW! Patented Easy Arc Set
- Standard Rubber Cover
- Advanced Riser Seal
- Multi-functional arc set and nozzle removal key
- Easily retrofit to any other system

SPECIFICATIONS

- 3/4" Threaded NPT Inlet
- Arc Adjustment Range 35° to 360°
- Flow Range 1 - 10 GPM
- Pressure Rating 7 - 70 PSI
- Precipitation rate: .02 to 1.7 inches per hour (depending on spacing and nozzle used)
- Overall height (popped down): 7 1/2 inches
- Spacing: 25 feet to 50 feet
- Radius: 14 feet to 50 feet
- Nozzle Trajectory:
 - Standard 27°
 - Low Angle 12°

MODELS

- Adjustable and Full Circle Models
- Optional Check Disk Available

STANDARD NOZZLE PERFORMANCE CHART

Nozzle	PSI	Radius	GPM
#1	30	33'	1.0
	40	35	1.3
	50	38	1.4
	60	38'	1.5
#2	30	38'	2.1
	40	39'	2.5
	50	40'	3.0
	60	41'	3.1
#3	30	41'	2.8
	40	42'	3.3
	50	45'	3.6
	60	46'	4.2
#4	30	43'	3.9
	40	45'	4.5
	50	47'	5.4
	60	52'	5.8
#6	40	49'	6.2
	50	51'	7.0
	60	54'	7.9
	70	55'	8.1
#8	40	47'	8.0
	50	51'	8.9
	60	53'	9.6
	70	55'	10.6

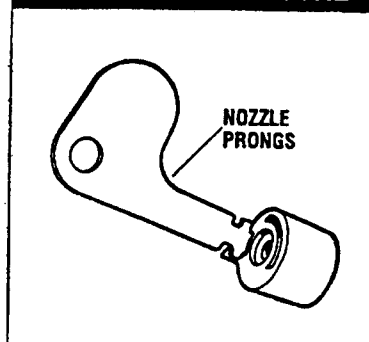
LOW ANGLE NOZZLE PERFORMANCE CHART

Nozzle	PSI	Radius	GPM
#1	30	22'	1.5
	40	24'	1.7
	50	26'	1.8
	60	28'	2.0
#3	30	29'	3.0
	40	32'	3.1
	50	35'	3.5
	60	37'	3.8
#4	30	31'	3.4
	40	34'	3.9
	50	37'	4.4
	60	38'	4.7
#6	40	38'	6.5
	50	40'	7.3
	60	42'	8.0
	70	44'	8.6

DATA REPRESENTS TEST RESULTS IN ZERO WIND. ADJUST FOR LOCAL CONDITIONS. RADIUS MAY BE REDUCED WITH NOZZLE RETENTION SCREW.

© 1996 K-Rain Mfg. Corp.

EASY NOZZLE REMOVAL



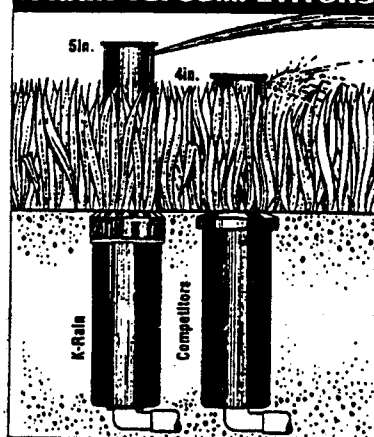
EASY ARC SETTING

ARC SELECTION 35° TO 360°



ADJUST FROM LEFT STOP

K-RAIN VS. COMPETITORS



K RAIN.

IDEAS IN IRRIGATION

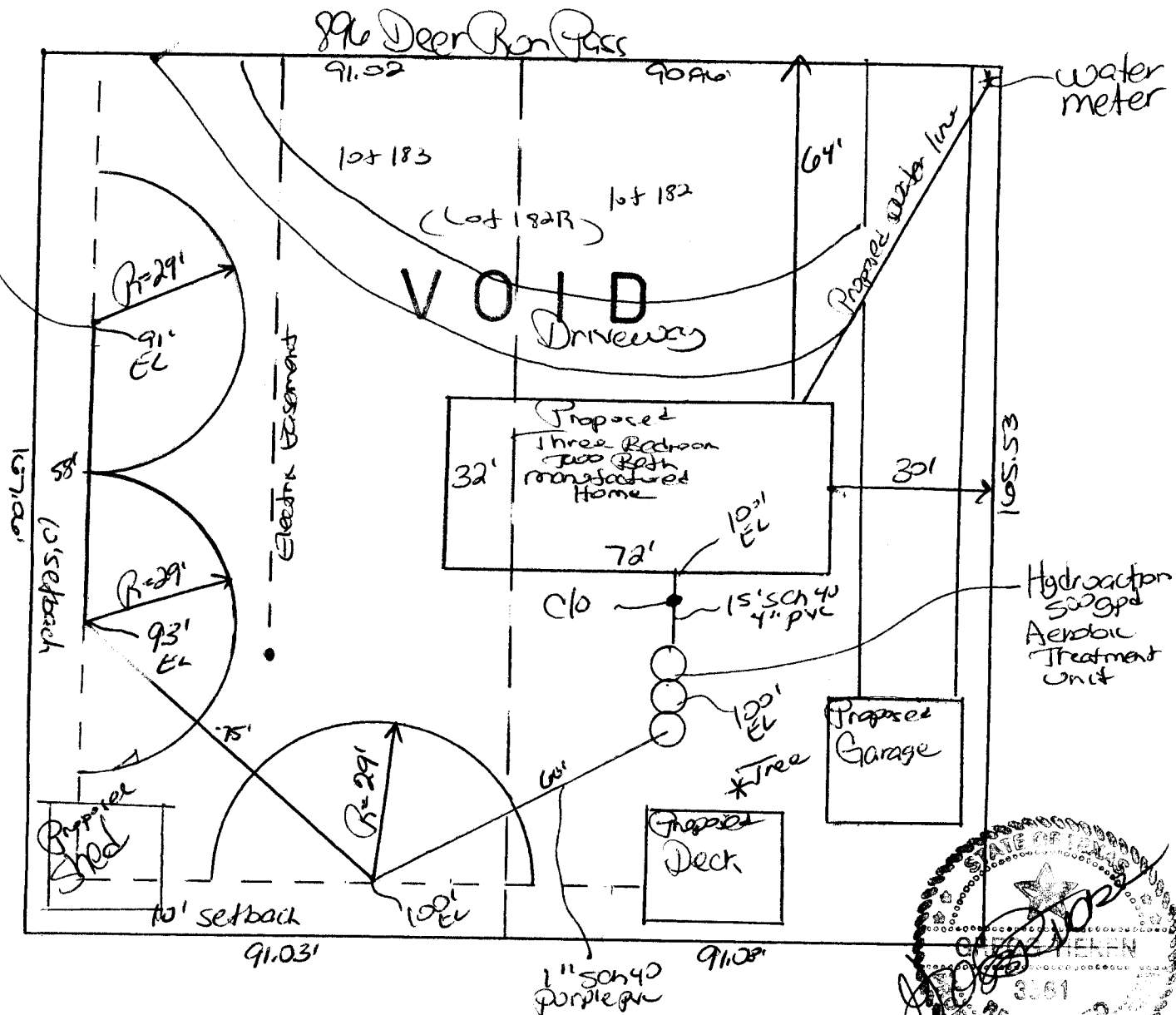
K-Rain Manufacturing Corp.
1640 Australian Avenue
Riviera Beach, FL 33404 USA
PH: 561 844-1002
FAX: 561 842-9493
EMAIL: krain@k-rain.com
WEB: http://www.k-rain.com

Septic System Design for Alexander Villegas

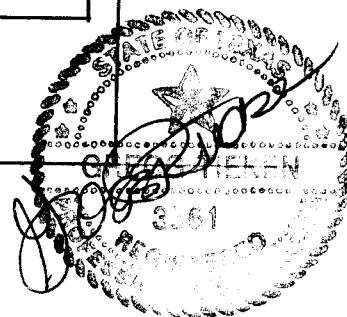
RECEIVED
MAR 27 2006
COUNTY ENGINEER

Three (3) 180° 29' radius
low angle K-Rain sprinkler
heads with 4 nozzles
operating @ 30 psi.

VOID



N
scale 1"=30'



MAR 27 2006

COUNTY ENGINEER

ALAMO SEPTIC DESIGNS, LLC
5463 FIRESTAR TRAIL
SAN ANTONIO, TEXAS 78222
(210) 648-7288, FAX (210) 648-9499

ON SITE SEWAGE FACILITY TECHNICAL REPORT
AEROBIC WASTEWATER SYSTEM APPLICATION

DATE: MARCH 12, 2006
PROPERTY OWNER: ALEXANDER VILLEGAS
MAILING ADDRESS: 570 BURR OAK, CANYON LAKE, TEXAS 78133
TELEPHONE: 830-227-5969
HOME OWNER: SAME AS ABOVE
MAILING ADDRESS: SAME AS ABOVE
TELEPHONE: SAME AS ABOVE

VOID

SITE DESCRIPTION/EVALUATION

SITE ADDRESS: 896 DEER RUN PASS, CANYON LAKE, TEXAS 78133
LEGAL DESCRIPTION: DEER MEADOWS SUBDIVISION, PHASE FOUR, LOT 182R
ACREAGE: 0.696 COUNTY: COMAL
PRESENCE OF 100-YEAR FLOOD ZONE: ☐ YES ☒ NO
EXISTING OR PROPOSED WATER WELL NEARBY: ☐ YES ☒ NO
PRESENCE OF ADJACENT PONDS, STREAMS, WATER IMPOUNDMENTS: ☐ YES ☒ NO
PRESENCE OF UPPER WATERSHED: ☐ YES ☒ NO
ORGANIZED SEWER SERVICE AVAILABLE: ☐ YES ☒ NO

THIS SITE IS BEING PERMITTED FOR AN AEROBIC TREATMENT SYSTEM WITH SURFACE IRRIGATION. THE DRAINAGE ON THE LOT IS SUCH THAT IT WILL NOT ADVERSELY AFFECT THE PERFORMANCE OF THE ON SITE SEWAGE FACILITY. THE SIZING WAS DETERMINED AS SPECIFIED IN THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) ON SITE SEWAGE FACILITY - CHAPTER 285.33(C)(2). VEGETATION AT THE SITE CONSISTS OF NATURAL GRASSES AND NO RECHARGE FEATURES ARE LOCATED WITHIN THE AREA.

SYSTEM DESCRIPTION

THE ON-SITE SEWAGE FACILITY WILL UTILIZE A PROPRIETARY AEROBIC TREATMENT PLANT WITH SURFACE IRRIGATION. WASTEWATER WILL FLOW FROM STRUCTURE TO A TRASH TANK, THEN INTO A TREATMENT TANK. TREATED EFFLUENT WILL FLOW THRU A CHLORINATOR, WHICH WILL DISINFECT THE WASTEWATER PRIOR TO ENTERING THE PUMP TANK. WATER WILL BE PUMPED FROM THE PUMP TANK TO SPRINKLER HEADS.

DESIGN PARAMETERS

TYPE OF STRUCTURE: MANUFACTURED HOME
SIZE OF STRUCTURE: 2368 SQUARE FEET
NUMBER OF BEDROOMS: THREE
WATER SAVING DEVICES: ☒ YES ☐ NO
AVERAGE EXPECTED FLOW: 240 GALLONS/DAY
APPLICATION RATE: .064 GALLONS/SQUARE FOOT/DAY
APPLICATION AREA REQUIRED: (240 GALLONS/DAY)/(.064 GALLONS/SQUARE FOOT/DAY) = 3750 SQUARE FEET
APPLICATION AREA PROPOSED: 4054 SQUARE FEET
ELEVATION HEAD = 3 FEET/HEAD (ELEVATION FROM EFFLUENT PUMP TO SPRINKLER HEADS)
PRESSURE HEAD = 69.3 FEET/HEAD (30 PSI OPERATING PRESSURE X 2.31 PSI/FT)
FRICTION HEAD = $[1.2(6.88)/100] \times 192 = 15.85$ FEET/HEAD
TOTAL HEAD = 88.15 FEET/HEAD (ELEVATION HEAD + PRESSURE HEAD + FRICTION HEAD)
PUMP REQUIREMENTS: 1/2 HP 10.20 GPM @ 88.15 FEET OF HEAD
DOSING CYCLE: DOSED IN PREDAWN HOURS

EQUIPMENT

TREATMENT SYSTEM: HYDROACTION AEROBIC TREATMENT UNIT
 PRETREATMENT TANK: 500 GALLONS
 PUMP TANK: 500 GALLONS
 SPRINKER: K-RAIN LOW ANGLE SPRINKLER
 ALARMS: AUDIBLE & VISUAL HIGH WATER ALARM
 1" SCHEDULE 40 PURPLE PVC PIPE NOT TO EXCEED 192'
 SURFACE IRRIGATION: THREE (3) 180° 29' RADIUS IRRIGATION SITES USING LOW ANGLE K-RAIN SPRINKLER HEAD WITH #4 NOZZLE OPERATING AT 30 PSI.
 DISINFESTION: CHLORINE TABLET

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MAR 27 2006

COUNTY ENGINEER

CONSTRUCTION / INSTALLATION

INSTALLER SHALL FOLLOW ALL MANUFACTURERS INSTRUCTION FOR THE INSTALLATION OF THE TREATMENT PLANT, CHLORINATOR, WIRING AND AERATOR. ALL REQUIRED SETBACKS ARE TO BE FOLLOWED BY INSTALLER. INSTALLER WILL FURNISH HOMEOWNER WITH OWNERS MANUAL AND THE REQUIREMENTS OF THE HOMEOWNER TO MAINTAIN THE AEROBIC TREATMENT UNIT.

ELECTRICAL

ELECTRICAL WIRING SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE NATIONAL ELECTRIC CODE. CONNECTIONS SHALL BE IN APPROVED JUNCTION BOXES AND ALL EXTERNAL POWER WIRING SHALL BE IN APPROVED ELECTRICAL CONDUIT, BURIED AND TERMINATED AT A MAIN CIRCUIT BREAKER PANEL OR SUB-PANEL.

LANDSCAPING

ANY TREES THAT OBSTRUCT APPLICATION WILL BE REMOVED OR TRIMMED TO ALLOW TREATED EFFLUENT TO REACH THE GROUND SURFACE FROM THE IRRIGATION AREAS DURING SITE PREPARATION. ANY BARE ROCK AREAS MUST BE COVERED WITH A SUITABLE AMOUNT OF MATERIAL ACCEPTABLE TO THE PERMITTING AUTHORITY. ANY ROCKY AREAS SHOULD ALSO BE BACKFILLED TO ALLOW VEGETATIVE GROWTH. AREAS THAT ARE BARE OR HAVE BEEN DISTURBED MUST BE SEEDED OR SODDED WITH A MIX OF RYE AND BERMUDA GRASSES PRIOR TO SYSTEM OPERATION. IT IS HIGHLY RECOMMENDED THAT A GOOD STANDING OF VEGETATION BE ESTABLISHED PRIOR TO SYSTEM OPERATION.

CERTIFICATION: I HEREBY CERTIFY THAT THE ON SITE SEWAGE SYSTEM DESIGN IS IN ACCORDANCE WITH TCEQ (TEXAS COMMISSION ON ENVIRONMENTAL QUALITY) RULES AND REGULATIONS FOR THE DESIGN OF PRIVATE SEWAGE SYSTEMS. THE SYSTEM PROPERLY INSTALLED AND MAINTAINED CAN BE EXPECTED TO FUNCTION WITHOUT CREATING A PUBLIC NUISANCE OR HEALTH HAZARD. THE PROPER PERFORMANCE OF THE OSSF CANNOT BE GUARANTEED EVEN THOUGH ALL PROVISIONS OF THE STANDARDS HAVE BEEN GENERALLY COMPLIED WITH. THE SITE EVALUATION AND SUBSEQUENT DESIGN ARE BASED UPON TECHNICAL INFORMATION CURRENTLY AVAILABLE.

VOID


 GREGG R. HEKEN, REGISTERED SANITARIAN 3561

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MAR 27 2006

COUNTY ENGINEER

WASTEWATER USAGE RATE	240 GALLONS/DAY
APPLICATION RATE	0.064 GAL/SQFT/DAY
MINIMUM APPLICATION AREA	3750 SQUARE FEET
PROPOSED APPLICATION AREA	4054 SQUARE FEET
GALLONS/MINUTE	10.20 GPM
PUMP TIME	23.53 MINUTES

SPRINKLER HEAD #1	30 FOOT RADIUS	180 ° ARC	3.4 GALLONS/MINUTE
SPRINKLER HEAD #2	29 FOOT RADIUS	180 ° ARC	3.4 GALLONS/MINUTE
SPRINKLER HEAD #3	29 FOOT RADIUS	180 ° ARC	3.4 GALLONS/MINUTE
SPRINKLER HEAD #4	FOOT RADIUS	360 ° ARC	GALLONS/MINUTE
SPRINKLER HEAD #5	FOOT RADIUS	360 ° ARC	GALLONS/MINUTE
SPRINKLER HEAD #6	FOOT RADIUS	360 ° ARC	GALLONS/MINUTE
SPRINKLER HEAD #7	FOOT RADIUS	360 ° ARC	GALLONS/MINUTE
SPRINKLER HEAD #8	FOOT RADIUS	360 ° ARC	GALLONS/MINUTE

VOID

SPRINKLER #1		SPRINKLER #2	
RADIUS	30 FEET	RADIUS	29 FEET
ARC	180 °	ARC	180 °
APPLIACTION AREA	1413.00 SQUARE FEET	APPLIACTION AREA	1320.37 SQUARE FEET
APPLICATION RATE	0.057 GAL/SQFT/DAY	APPLICATION RATE	0.061 GAL/SQFT/DAY

SPRINKLER #3		SPRINKLER #4	
RADIUS	29 FEET	RADIUS	0 FEET
ARC	180 °	ARC	360 °
APPLIACTION AREA	1320.37 SQUARE FEET	APPLIACTION AREA	0.00 SQUARE FEET
APPLICATION RATE	0.061 GAL/SQFT/DAY	APPLICATION RATE	#DIV/0! GAL/SQFT/DAY

SPRINKLER #5		SPRINKLER #6	
RADIUS	0 FEET	RADIUS	0 FEET
ARC	360 °	ARC	360 °
APPLIACTION AREA	0.00 SQUARE FEET	APPLIACTION AREA	0.00 SQUARE FEET
APPLICATION RATE	#DIV/0! GAL/SQFT/DAY	APPLICATION RATE	#DIV/0! GAL/SQFT/DAY

SPRINKLER #7		SPRINKLER #8	
RADIUS	0 FEET	RADIUS	0 FEET
ARC	360 °	ARC	360 °
APPLIACTION AREA	0.00 SQUARE FEET	APPLIACTION AREA	0.00 SQUARE FEET
APPLICATION RATE	#DIV/0! GAL/SQFT/DAY	APPLICATION RATE	#DIV/0! GAL/SQFT/DAY

VOID

SPECIFICATIONS		HEAD PRESSURES	
OPERATING PRESSURE	30 PSI	FRICTION HEAD	15.85152
LINEAR FEET OF PIPE	192 FEET	PRESSURE HEAD	69.3
SIZE OF PIPE	1 INCH	ELEVATION HEAD	3
DEPTH OF PUMP INTAKE	3 FEET	TOTAL HEAD	88.15152
HIGHEST SPRINKLER ELEVATION	0 FEET		
FRICTION LOSS	6.88 FEET HEAD / 100' PIPE		

Scale: One Inch equals 2200 ft.

354

A

B

1

P

and margins.



i. 2

3



5

10

7.

8

12 DEMI JOHN BEND RD

SMITH RANCH

BENDEL RANCH RD

Old Dutchman Rd

RECEIVED

MAR 27 2006

COUNTY ENGINEER

78133

COUNTY

CANYON LAKE
MOBILE HOME
ESTATES 832

ROARING HILLS

TOM CREEK
ACRES

SCALE IN MILES

CONTINUED ON MAP 386

SCALE IN FEET

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LOT 184

87948

(BEARING BASIS)

(N 47°48'00" E 166.91')
N 47°48'00" E 167.06'

5' P.U.E. (PLAT)

10' B.S.L. 336/677

SCALE 1" = 30'

RECEIVED

MAR 27 2006

COUNTY ENGINEER

DEER RUN PASS
(60' R.O.W.)LOT 183
0.348 ACRE
(0.348 ACRE)

E E E

50' B.S.L. (PLAT)

25' B.S.L. 336/677
SEE NOTE 4

5' P.U.E. (PLAT)

(S 42°12'00" E 91.00')
S 42°11'19" E 91.02'

10' B.S.L. 336/677

5' P.U.E. (PLAT)

S 47°47'58" W 166.05'

5' P.U.E. (PLAT)

(S 47°48'04" W 166.14')

10' B.S.L. 336/677

LOT 182
0.348 ACRE
(0.347 ACRE)

50' B.S.L. (PLAT)

25' B.S.L. 336/677
SEE NOTE 4

5' P.U.E. (PLAT)

(S 42°12'00" E 91.50')
S 42°21'37" E 90.96'

10' B.S.L. 336/677

5' P.U.E. (PLAT)

S 47°45'22" W 165.53'
(S 47°48'00" W 165.36')

LOT 181

LEGEND

- IRON ROD FOUND
- IRON ROD WITH CAP SET
- ⊞ WATER METER
- WIRE FENCE
- P.U.E. PUBLIC UTILITY EASEMENT
- D.E. DRAINAGE ESMT.
- B.S.L. BUILDING SETBACK LINE
- ⊙ POWER POLE
- E OVERHEAD ELEC. LINE
- (—) DOWN GUY
- (BRG.-DIST.) RECORD CALL

NOTES:

1) THESE LOTS ARE SUBJECT TO THE RESTRICTIONS RECORDED IN VOLUME 336, PAGE 677 AND COUNTY CLERK FILE NO. 414094, DEED RECORDS, VOLUME 586, PAGE 248, OFFICIAL RECORDS, BOTH OF COMAL COUNTY, TEXAS.

2) THESE LOTS ARE SUBJECT TO A BLANKET UTILITY EASEMENT GRANTED TO PEDERNALES ELECTRIC COOPERATIVE, INC., RECORDED IN VOLUME 334, PAGE 517, DEED RECORDS, COMAL COUNTY, TEXAS.

3) ACCORDING TO THE NATIONAL FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 4854830040 D, DATED JUNE, 13, 1988, THIS LOT IS LOCATED IN ZONE "X", WHICH IS AN AREA OUTSIDE THE 100-YEAR FLOODPLAIN.

4) THESE LOTS ARE SUBJECT TO A 25 FOOT GARAGE, DECKS, AND CARPORT BUILDING SETBACK LINE.

BOUNDARY AND IMPROVEMENT SURVEY OF:

LOTS 182 & 183 DEER MEADOWS, PHASE FOUR, COMAL COUNTY, TEXAS, AS RECORDED IN VOLUME 7, PAGE 24, OF THE PLAT RECORDS OF COMAL COUNTY, TEXAS.

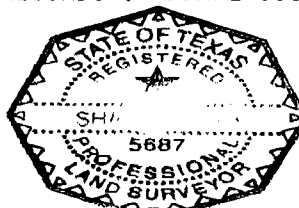
TO:

PURCHASER: ALEXANDER VILLEGAS
TITLE CO: ALAMO TITLE COMPANY
GF NO: 05-1300502D
ADDRESS: DEER RUN PASS

I, SHAWN T. ASH, DO HEREBY CERTIFY THAT THIS PLAT OF THE PROPERTY SHOWN HEREON, WAS PREPARED FROM A SURVEY PERFORMED UNDER MY DIRECTION AND SUPERVISION DURING AUGUST 2005, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND EXCEPT AS SHOWN OR NOTED HEREON, THERE ARE NO VISIBLE DISCREPANCIES, ENCROACHMENTS, OVERLAPPING OF IMPROVEMENTS, VISIBLE UTILITY LINES OR ROADWAYS, AND THAT SAID PROPERTY HAS ACCESS TO AND FROM A PUBLIC RIGHT OF WAY.

SHAWN T. ASH, R.P.L.S.
REGISTERED PROFESSIONAL LAND SURVEYOR
NUMBER 5687 STATE OF TEXAS

©ASH & ASSOCIATES, L.L.C.

08/08/05
DATE

ASH
&
ASSOCIATES
surveying and mapping
515 W. HOPKINS ST. SUITE A
SAN MARCOS, TEXAS 78666
(512) 392-1719
FAX (512) 392-1928

JOB NO. 05-0873 DRAWN BY: BAM

AMENDMENT TO PLAT

OWNER: Alexander Villegas
 OWNER'S ADDRESS (Including County): 570 Burr Oak
Canyon Lake, TX 78133

LEGAL DESCRIPTION OF PROPERTY:

RECEIVED

DEC 8 2005

NAME OF RECORDED SUBDIVISION PLAT AND UNIT NUMBER, if any:

Deer Meadows, Phase Four

COUNTY ENGINEER

COMAL COUNTY MAP AND PLAT RECORDS VOLUME 7PAGE 24LOTS OR TRACTS TO BE COMBINED: 182 and 183RESULTING LOT NUMBER: 182R

The signatures affixed below will certify that the owner of the described property does hereby amend the plat of the property so as to combine the referenced lots or tracts into a single lot or tract. The property owner acknowledges that this Amendment to Plat will not dissolve or alter any existing easements or other property interests that may exist within the boundaries of this property and that obtaining releases or permission from any owner or beneficiary of easements or other property interests affected by this process shall be the responsibility of the property owner. The owner also certifies that any and all lienholders have acknowledged this Amendment to Plat as per the attached Lienholder's Acknowledgment(s), if applicable.

(OWNER'S SIGNATURE)

(OWNER'S SIGNATURE)

Alexander Villegas

(NAME PRINTED)

RECEIVED

(NAME PRINTED)

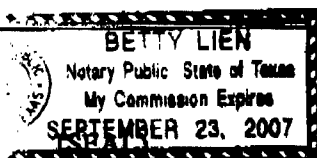
MAR 27 2006

COUNTY ENGINEER

STATE OF TEXAS

COUNTY OF ComalSWORN TO AND SUBSCRIBED before me by Alexander Villegas

of the

day of December, 2005.

NOTARY PUBLIC

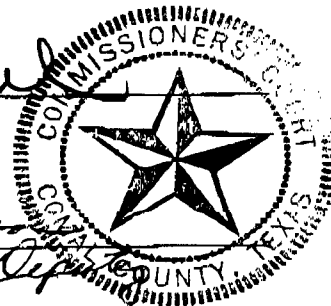
APPROVED BY COMMISSIONERS' COURT ON

THE 15 DAY OF December, 2005.

Danny Scheel
 COUNTY JUDGE

ATTEST:

Donna J. Jorgensen
 COUNTY CLERK



FOR RECORDING PURPOSES ONLY

Doc# 200506047920

Pages 5

12/16/2005 3:47PM

Official Records of

COMAL COUNTY

JOY STREATER

COUNTY CLERK

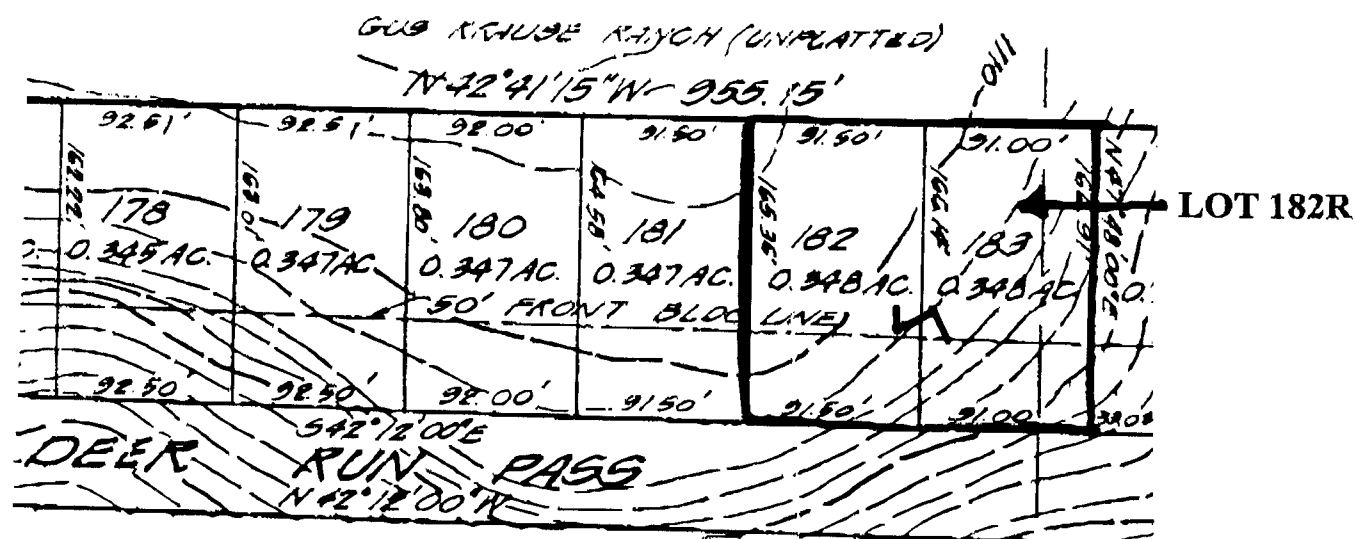
Fees \$69.00

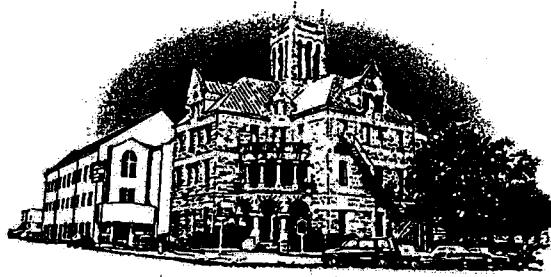


Joy Streater
 Rev 12/99

Doc# 200506047920

RECEIVED
MAR 27 2006
COUNTY ENGINEER





Comal County
OFFICE OF COMAL COUNTY ENGINEER

April 17, 2006

Alexander Villegas
570 Burr Oak Lane
Canyon Lake, Texas 78133

Re: Deer Meadows Unit 4 Lot 182R, Permit #87948
Application for Permit of Authorization to Construct On-Site Sewage Facility and
License to Operate

Dear property owner,

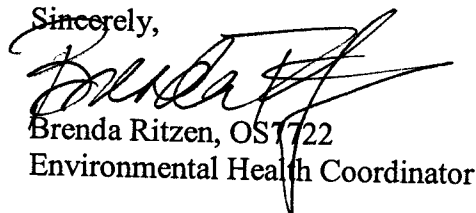
We received planning materials for the referenced permit application on March 27, 2006 and found those planning materials to be deficient.

The following items are required by the Texas Commission on Environmental Quality (TCEQ) Regulations and should have been included in the original design. We are requesting that your site evaluator/designer review the TCEQ Regulations and include these items on your design. These items are as follows:

1. Specify that timer will spray between midnight and 5 a.m.
2. Application area on design does not match planning materials.

We realize this permit is important to you, to help speed up the process the above information may be faxed. Thank you for your patience and assistance.

Sincerely,

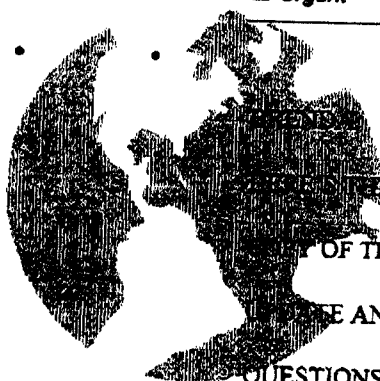

Brenda Ritzen, OS1722
Environmental Health Coordinator

cc: Gregg Tieken, R.S.

ALAMO SEPTIC DESIGNS LLC
PO BOX 579
LA VERNIA, TEXAS 78121
(210) 416-2983, FAX (830) 779-5031

Facsimile Transmittal

To: BRENDA Fax: 830-608-2009
From: GREGG Date: 4/21/2006
Re: PERMIT #87948 Pages: 7
CC: NA
☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle



THE REQUESTED REVISIONS FOR REFERENCED PERMIT. I DO NOT HAVE A
OF THE APPLICATION TO UPDATE. I WILL NOTIFY MORRIS KOEHN TO
AND FORWARD AT HIS EARLIEST CONVENIENCE. IF YOU HAVE ANY
QUESTIONS OR NEED ADDITIONAL INFORMATION PLEASE GIVE ME A CALL AT
210-416-2983.

*** TX REPORT ***

TRANSMISSION OK

TX/RX NO 0357
DESTINATION TEL # 18306082009
DESTINATION ID
ST. TIME 04/21 06:07
TIME USE 02:57
PAGES SENT 6
RESULT OK

RECEIVED

APR 25 2006

ENVIRONMENTAL HEALTH

ALAMO SEPTIC DESIGNS LLC
PO BOX 579
LA VERNIA, TEXAS 78121
(210) 416-2983, FAX (830) 779-5031

Facsimile Transmittal

To: BRENDA	Fax: 830-608-2009
From: GREGG	Date: 4/21/2006
Re: PERMIT #87948	Pages: 6
CC: NA	
<input type="checkbox"/> Urgent	<input type="checkbox"/> For Review
<input type="checkbox"/> Please Comment	<input type="checkbox"/> Please Reply
<input type="checkbox"/> Please Recycle	

THE REQUESTED REVISIONS FOR REFERENCED PERMIT. I DO NOT HAVE A
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AND FORWARD AT HIS EARLIEST CONVENIENCE. IF YOU HAVE ANY
QUESTIONS OR NEED ADDITIONAL INFORMATION PLEASE GIVE ME A CALL AT
210-416-2983.

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

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

PRINT CLEARLY COMPLETING ALL INFORMATION

DATE: 3-20-03

PERMIT#: 87948

PROPERTY OWNERS NAME: Alexander V. Vargas

MAILING ADDRESS

570 Buena Vista Ln.

CITY, STATE, ZIP CODE: Canyon Lake, Tx. 78133

PHONE #: 830-227-5969

RECEIVED

MAR 27 2006

COUNTY ENGINEER

LEGAL DESCRIPTION OF PROPERTY:

SUBDIVISION NAME: Deer Meadows

UNIT: 4 LOT: 182R BLOCK: _____ ACREAGE/LEGAL: _____

STREET NAME/ADDRESS: 896 Deer Run Pass CITY: Canyon Lake ZIP: 78133

PROPERTY MUST BE MARKED ON-SITE WITH THE STREET ADDRESS, LOT# & OWNERS NAME. A
LOCATION MAP TO THE PROPERTY MUST BE ATTACHED WITH THIS APPLICATION ALONG WITH
PROOF OF OWNERSHIP.

IS PROPERTY LOCATED OVER THE EDWARDS RECHARGE ZONE? YES _____ NO ☒ IF YES, SITE EVALUATION &
PLANNING MATERIALS MUST BE COMPLETED BY A REGISTERED SANITARIAN OR PROFESSIONAL ENGINEER.

TYPE OF DEVELOPMENT:

☒ SINGLE FAMILY RESIDENCE 2304 TOTAL SQR. FT. OF DWELLING 240 GALLONS PER DAY

_____ COMMERCIAL TYPE OF BUSINESS/INSTITUTION: _____

☒ NUMBER OF OCCUPANTS 240 GALLONS PER DAY

SITES GENERATING MORE THAN 5000 GALLONS PER DAY ARE REQUIRED TO OBTAIN
PERMITTING THROUGH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY.

SOURCE OF WATER: PUBLIC ☒ PRIVATE WELL _____

PLANNING MATERIALS & SITE EVALUATION AS REQUIRED COMPLETED BY: Gregg Ticken

SYSTEM DESCRIPTION: Aerobic (Sprinklers)

SIZE OF SEPTIC SYSTEM REQUIRED BASED ON PLANNING MATERIALS & SITE EVALUATION:

TANK SIZE(S) 500 GPD GALLONS ABSORPTION/APPLICATION AREA 4054 SQR. FT.

ARE WATER SAVING DEVICES BEING UTILIZED WITHIN THE RESIDENCE? ☒ YES _____ NO

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 ALSO UNDERSTAND THAT A PERMIT OF AUTHORIZATION TO CONSTRUCT WILL NOT BE
ISSUED UNTIL THE FLOOD PLAIN ADMINISTRATOR HAS APPROVED AND RELEASED THE DEVELOPMENT PERMIT FOR THIS PROPERTY.

SIGNATURE OF OWNER

Doc# 200606000348

RECEIVED

MAR 27 2006

RELEASE OF EASEMENT

COUNTY ENGINEER

STATE OF TEXAS

§

KNOW ALL MEN BY THESE PRESENTS:

§

COUNTY OF COMAL

§

WHEREAS, Deer Meadows, Inc. By: Lee R. Roper, President, as previous Owners of all lots in Deer Meadows, Phase 4 a subdivision in Comal County, Texas according to the map, plat and/or instrument thereof, heretofore granted certain easements to Pedernales Electric Cooperative, Inc., a corporation for public utility purposes covering property situated within Deer Meadows, Phase 4 Subdivision, said easement being filed and recorded in Volume 7, Page 24 of the Plat Records of Comal County, Texas, and;

WHEREAS, said dedicated easements referred to hereinabove include and are comprised in part by a strip of land five feet (5') in width along the side lot line of all lots within Deer Meadows, Phase 4 Subdivision, in Comal County, Texas; and,

WHEREAS, Alexander Villegas, as Owner of Lots 182 and 183 in Deer Meadows, Phase 4 Subdivision, desires that the said five feet (5') public utility easement as it pertains to and being along the common side boundary line of Lots 182 and 183 in Deer Meadows, Phase 4 Subdivision, be abandoned and released in full; and

WHEREAS, Pedernales Electric Cooperative, Inc. provides electric service to the aforementioned area and will continue to have an adequate easement to said property;

NOW, THEREFORE, be it known that Pedernales Electric Cooperative, Inc., a corporation whose post office address is Johnson City, Texas, for and in consideration of One Dollar (\$1.00), does hereby release the said five feet (5') public utility easement, being along the common side boundary line of Lots 182 and 183 in Deer Meadows, Phase 4 Subdivision, in Comal County, Texas, and referred to hereinabove.

EXECUTED: December 15, 2005

PEDERNALES ELECTRIC COOPERATIVE, INC.

BY:

Bob DiFonzo

District Manager

Doc# 200606000348

Pages 1
01/04/2006 2:42PM
Official Records of
COMAL COUNTY
JOY STREATER
COUNTY CLERK
Fees \$16.48

THE STATE OF TEXAS §

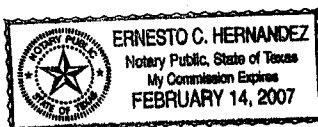
§

COUNTY OF COMAL §

§

BEFORE ME, the undersigned authority, on this day personally appeared Bob DiFonzo, District Manager of Pedernales Electric Cooperative, Inc., a corporation, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, in the capacity therein stated and as the act and deed of said corporation.

GIVEN UNDER MY HAND AND SEAL OF OFFICE December 15, 2005.



Notary Public in and for
The State of Texas

Doc# 200606000348

1/c
RELEASE OF EASEMENT

87948

RECEIVED

MAR 27 2006

Doc# 200606000349

COUNTY ENGINEER

STATE OF TEXAS

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF COMAL

WHEREAS, Deer Meadows, Inc., as previous owner of all lots in Deer Meadows Subdivision, Phase 4, a subdivision in Comal County, Texas according to the map or plat thereof, heretofore granted certain easements to GUADALUPE VALLEY TELEPHONE COOPERATIVE, INC., a corporation for public utility purposes covering property situated within Deer Meadows Subdivision, Phase 4, said easements being recorded in Volume 7, Page 24 of the Map And Plat Records of Comal County, Texas, and;

WHEREAS, said dedicated easement referred to hereinabove include and are comprised in part by a strip of land of five (5) feet in width along all lot lines of all lots in Deer Meadows Subdivision, Phase 4, in Comal County, Texas; and,

WHEREAS, Alexander Villegas, as owner of Lots 182 and 183, in Deer Meadows Subdivision, Phase 4, desires that the five (5) foot public utility easements along the common boundary line of Lots 182 and 183, in Deer Meadows Subdivision, Phase 4, be abandoned and released in full; and,

WHEREAS, GUADALUPE VALLEY TELEPHONE COOPERATIVE, INC., provides telephone service to the aforementioned area and will continue to have an adequate easement to said property;

NOW, THEREFORE, be it known that GUADALUPE VALLEY TELEPHONE COOPERATIVE, INC., a corporation, whose address is 36101 FM 3159, NEW BRAUNFELS, TEXAS 78132-5900, for and in consideration of One Dollar (\$1.00), does hereby release the said five (5) foot public utility easements along the common boundary line of Lots 182 and 183, in Deer Meadows Subdivision, Phase 4, in Comal County, Texas, and referred to hereinabove.

EXECUTED this the 17 th day of November, 2005.

GUADALUPE VALLEY TELEPHONE COOPERATIVE, INC.

Terry M. Rust

BY: Terry M. Rust, SR/WA

TITLE: Right-of-Way Agent

Doc# 200606000349

Pages 1
01/04/2006 2:42PM
Official Records of
COMAL COUNTY
JOY STREATER
COUNTY CLERK
Fees \$16.48



Joy Streater

THE STATE OF TEXAS
COUNTY OF COMAL

BEFORE ME, the undersigned authority, on this day personally appeared Terry M. Rust, Right-of-Way Agent, of Guadalupe Valley Telephone Cooperative, Inc., a corporation, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, in the capacity therein stated and as the act and deed of said corporation.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS THE 17 th day of November, 2005.



Linda S. Thatcher
Notary Public In and For The
State of Texas
Linda S. Thatcher
Printed/Typed Name of Notary

Doc# 200606000349

RECEIVED

MAR 27 2006

GF# 13005020 & 13005021

ATC-SULVERDE

**WARRANTY DEED
WITH VENDOR'S LIEN**

COUNTY ENGINEER

3/1
NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM THIS INSTRUMENT BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

Date: AUGUST 26, 2005

Grantor: CARL D. CHRISTOPHERSON AND SPOUSE, WINNIE L. CHRISTOPHERSON (PARCEL #1)

Grantor's Mailing Address: 6202 INVARAY, SAN ANTONIO, TEXAS 78244

Grantor: STANLEY P. WEILNAU AND SPOUSE, KATHRYN WEILNAU (PARCEL #2)

Grantor's Mailing Address: 10201 KATIE BIRD LANE, VIENNA, VIRGINIA 22181

Grantee: ALEXANDER VILLEGAS, A SINGLE PERSON

Grantee's Mailing Address: 570 BURR OAK, CANYON LAKE, TEXAS 78133

Consideration: TEN AND NO/100-----(\$10.00)-----DOLLARS and other good and valuable consideration, the receipt of which is hereby acknowledged and confessed;

AND THE FURTHER CONSIDERATION OF THE EXECUTION AND DELIVERY of a Note of even date that is in the principal amount of \$16,000.00 executed by Grantee, payable to the order of SAN ANTONIO CITY EMPLOYEES FEDERAL CREDIT UNION. The Note is secured by a Vendor's Lien retained in favor of SAN ANTONIO CITY EMPLOYEES FEDERAL CREDIT UNION in this Deed and by a Deed of Trust of even date from Grantee to ROBERT P. SIMS, TRUSTEE(S).

Property (including any improvements):

PARCEL 1: LOT 182, DEER MEADOWS, PHASE 4, COMAL COUNTY, TEXAS, ACCORDING TO PLAT THEREOF RECORDED IN VOLUME 7, PAGE 24, MAP AND PLAT RECORDS OF COMAL COUNTY, TEXAS.

PARCEL 2: LOT 183, DEER MEADOWS, PHASE 4, COMAL COUNTY, TEXAS, ACCORDING TO PLAT THEREOF RECORDED IN VOLUME 7, PAGE 24, MAP AND PLAT RECORDS OF COMAL COUNTY, TEXAS.

Reservations from and Exceptions to Conveyance and Warranty:

THIS CONVEYANCE IS EXECUTED, DELIVERED AND ACCEPTED SUBJECT TO AD VALOREM TAXES FOR THE CURRENT YEAR, ROLLBACK TAXES DUE TO THIS CONVEYANCE OR GRANTEE'S USE OF THE SUBJECT PROPERTY, MAINTENANCE FUND LIENS, ZONING ORDINANCES, UTILITY DISTRICT ASSESSMENTS AND STANDBY FEES, IF ANY, ANY AND ALL VALID UTILITY EASEMENTS CREATED BY THE DEDICATION DEED OR PLAT OF THE SUBDIVISION IN WHICH SAID REAL PROPERTY IS LOCATED, RECORDED EASEMENTS, RESERVATIONS, MINERAL RESERVATIONS AND LEASES, RESTRICTIONS, COVENANTS, CONDITIONS, RIGHTS OF WAY EASEMENTS, IF ANY, AFFECTING THE HEREIN DESCRIBED PROPERTY.

Grantor, for the consideration and subject to the reservations from and exceptions to conveyance and warranty, grants, sells, and conveys to Grantee the property, together with all and singular the rights and appurtenances thereto in any wise belonging, to have and hold it to Grantee, Grantee's heirs, executors, administrators, successors, or assigns forever. Grantor hereby binds Grantor and Grantor's heirs, executors, administrators, and successors to warrant and forever defend all and singular the property to Grantee and Grantee's heirs, executors, administrators, successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, except as to the reservations from and exceptions to warranty.



Comal County

OFFICE OF COMAL COUNTY ENGINEER

EXEMPTION CERTIFICATE

COMAL COUNTY FLOODPLAIN DEVELOPMENT PERMIT

PERMIT # 87948

PROJECT
LOCATION:

Deer Meadows, Unit 4

FIRM Panel No.

Lot: **182R**
0040D

Dated: **June 14, 1988**

THIS APPLICATION HAS BEEN REVIEWED BY THE COMAL COUNTY ENGINEERS OFFICE,
AND IT IS THEIR DETERMINATION THAT THE PROPOSED DEVELOPMENT IS:

Located within Zone C, and is NOT located within a Special Flood Hazard Area (SFHA)

THE COUNTY ADMINISTRATOR HAS REVIEWED THE PLANS AND MAKES THE
FOLLOWING COMMENTS:

THIS CERTIFICATE EXEMPTS THE APPLICANT FROM DEVELOPMENT STANDARDS
REQUIRED BY THE COMAL COUNTY FLOOD DAMAGE PREVENTION ORDER. WORK IS
HEREBY AUTHORIZED TO PROCEED.

SIGNED

Kathy Giffi

DATE:

3-29-06

SEPTIC MAINTENCE CONTRACT

RECEIVED
MAY 01 2007
COUNTY ENGINEER

Our Company Dennis Roth will operate and maintain the Aerobic System located at
896 Deer Run Pass Canyon Lake, Tx. 78133 (legal description
only) Permit # 87948, for the period of 1 years beginning 4/19/07 and
ending 4/19/08.

This contract will provide for all required inspection, testing and service of your Aerobic Treatment System. The policy will include the following.

1) 3 inspections a year/service calls (at least one every 4 months), for a total of 3 over the 1 year period including inspections, adjustment and servicing of the mechanical, electrical and other applicable component parts to ensure proper function. This includes inspection control panel, air pumps, air filter, diffuser operation, replacing or repairing any component not sound to be functioning correctly.

2) An effluent quality inspection consisting of a visual check for color, turbidity, scum overflow and examination for odors. A test for chlorine residual and pH will be taken and reported as necessary.

3) If any improper operation is observed which cannot at the time of the service visit, you will be notified immediately in writing of the conditions and estimated date of correction.

4) We will add necessary chlorine tablets and charge the customer for them. If the customer wishes to be responsible for the chlorine tablets, they must be filled before or during the service visit. If not, the service representative will add them and you will be charged.

Initials of installer D.R. Initials of Homeowner A.V.

5) Any additional visits, inspections or sample collections required by specific Municipalities, Water/ River Authorities, County Agencies the TNRCC or any other authorized regulatory agency in your jurisdiction will be covered by this policy.

At the conclusion of the initial service policy, our company will make available, for purchase on an Annual basis, continuing service policies to cover labor for normal inspection, maintenance and repair. According to state law, all owners of aerobic systems must maintain a factory authorized service provider for the lifetime of the system.

The Homeowners Manual must be strictly followed or warranties are subject to invalidation. Pumping of sludge build-up, for reasons other than due to warranted mechanical failure, is not covered by this policy and will result in additional charges. By signing this form, both Installer and Homeowner agree that the Homeowner has received a copy of the Homeowners Manual and the Installer has made a reasonable effort to explain all pertinent information to the Homeowner.

By signing this Service Policy, both the Home Owner and the Service Provider agree to the terms of this policy. The manufacture is not responsible for service; it is the service provider indicated below.

HOME OWNER

Alexandra Villagas
Name

896 Deer Run Pass
Address

Canyon Lake, Tx 78133
City

Alexandra Villagas
Signature of Home Owner

SERVICE PROVIDER

Dennis Roth
Name of Service Company Representative

24199 N. Cranes Mill Rd
Address

Canyon Lake, Tx. 78133
City

Dennis Roth (830-906-2060)
Signature of Service Provider and
License # 355607494

THIS BOX MUST BE COMPLETED BY THE SERVICE PROVIDER

Model #	Blower Panel Serial #	Model #
---------	--------------------------	---------

87948

RECEIVED
AUG 20 2007
COUNTY ENGINEER

This testing and reporting shall be completed, signed and dated after each inspection. One copy shall be retained by the maintenance company. The second copy is sent to the local permitting authority and the third copy is sent to the system owner along with an invoice for services by the maintenance company.

1. Actual Date of Visit:

8-13-07

2. System Inspection of

Owner:

Alex Villegas

Address:

896 Deer Run Pass

City, St., Zip: Canyon Lk. Tx 78133

Inspected Items:

Operational Inoperative

Not Applicable

Aerator.....
Aeration Plumbing.....
Air Filter.....
Effluent Pump.....
Chlorinator.....
OK System Light.....
Probe.....
Sprinkler Operation.....
Photocell Test.....
Battery.....

☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☐ ☐

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☒ ☒

Battery must be replaced once each year. Air Filter must be cleaned each service visit. Operation of effluent disposal system must be made each visit, including chlorine residual test, effluent pump operation and sprinkler operation.

3. Repairs to system (list all components replaced):

4. Tests Required and Results:

Test	Required	Results	Test Method
BOD (Grab)	<input type="checkbox"/>		
TSS (Grab)	<input type="checkbox"/>		
Fecal Coliform	<input type="checkbox"/>		
Chlorine Residual	<input checked="" type="checkbox"/>	10	Chlor Res

5. Comments:

Signature of Inspector:

Anna Rother

Installer II or WW Lic #

355607494

87948

RECEIVED
DEC 17 2007
COUNTY ENGINEER

This testing and reporting shall be completed, signed and dated after each inspection. One copy shall be retained by the maintenance company. The second copy is sent to the local permitting authority and the third copy is sent to the system owner along with an invoice for services by the maintenance company.

1. Actual Date of Visit:
2. System Inspection of

Owner: Alex Villegas
Address: 346 Deer Run Pass
City, St., Zip: Canyon Lake TX 78133

Inspected Items:

	Operational	Inoperative	Not Applicable
Aerator.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aeration Plumbing.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Filter.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Effluent Pump.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chlorinator.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OK System Light.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Probe.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sprinkler Operation.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Photocell Test.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Battery.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Battery must be replaced once each year. Air Filter must be cleaned each service visit. Operation of effluent disposal system must be made each visit, including chlorine residual test, effluent pump operation and sprinkler operation.

3. Repairs to system (list all components replaced):

4. Tests Required and Results:

Test	Required	Results	Test Method
BOD (Grab)	<input type="checkbox"/>		
TSS (Grab)	<input type="checkbox"/>		
Fecal Coliform	<input type="checkbox"/>		
Chlorine Residual	<input checked="" type="checkbox"/>	.10	Chlor Res

5. Comments:

Signature of Inspector: Dennis Roth Installer II or WW Lic # 355607499