

John Hall, *Chairman*  
Pam Reed, *Commissioner*  
Peggy Garner, *Commissioner*  
Anthony Grigsby, *Executive Director*



## TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

*Protecting Texas by Reducing and Preventing Pollution*

January 24, 1994

Ms. Penelope Church  
154S. Seguin Ave.  
New Braunfels, Texas 78130

Re: Edwards Aquifer, Comal County  
PROJECT: Doherty Lot #1, 1418 Hueco Springs Loop Road, New Braunfels, Texas.  
TYPE: Request for Approval of Water Pollution Abatement Plan (WPAP); 31 Texas Administrative Code (TAC) §313.4; Edwards Aquifer Protection Program.

Dear Ms. Church:

The Texas Natural Resource Conservation Commission (TNRCC) has completed their review of the WPAP application for the referenced project that you submitted to the Region 13 Office on January 12, 1994.

### PROJECT DESCRIPTION

The proposed Doherty Lot #1 is to be developed as a residential project and will consist of one 1.151 acre lot with one single-family residence. This 1.151 acres is to be subdivided from a 20.025 acre tract. The site is located within the Comal County, and will conform with applicable codes and requirements of Comal County. Potable water will be supplied by a private on-site water well.

The normal population of the development is estimated to be one person. 300 gallons per day of domestic wastewater is to be generated by this project. Wastewater for each residence will be treated by a private on-site septic system. According to a Comal County License to Operate a Private Sewage Facility form (Lic. #73373) signed by Monica Wallace, Comal County Sanitarian, permission by Comal County is granted to operate a private sewage facility located on 20 acres at 1442 Hueco Springs Loop Road.

The proposed impervious cover for the development, approximately 0.028 acres (1220 square feet or 2.4%), includes single family dwelling roof tops, driveways, sidewalks, and streets. Stormwater runoff will be typical of a residential site.

REPLY TO: REGION 13 • 140 HEIMER RD., SUITE 360 • SAN ANTONIO, TEXAS 78232-5028 • AREA CODE 210/490-3096

P.O. Box 13087 • Austin, Texas 78711-3087 • 512/908-1000

printed on recycled paper using soy-based ink

### GEOLOGY ON SITE

No geologic assessment is required for residential subdivisions of 25 or less single-family residences. The Region 13 site inspection of January 13, 1994, revealed soil cover with no recharge features observed.

### POLLUTION ABATEMENT

#### I. During Construction:

The following measures will be taken to prevent pollution of stormwater originating on-site or up-gradient from the project site and potentially flowing across and off the site during construction:

- A. Stabilized construction entrances shall be installed at all sites of ingress and egress prior to initiation of any other regulated activity.
- B. Temporary erosion and sedimentation controls (silt fences and rock berms) shall be installed prior to initiation of any other regulated activity.

#### II. After Construction:

The following measures will be taken to prevent pollution of stormwater originating on-site or up-gradient from the project site and potentially flowing across and off the site after construction:

- A. Vegetative ground cover shall be maintained.

#### III. Recharge Features:

The following measures will be taken to prevent pollutants from entering recharge features while maintaining or enhancing the quantity of water entering the recharge features identified in the geologic assessment.

- A. No recharge features were observed on the project site.

### APPROVAL

The plan for this project has been reviewed for compliance with 31 TAC §313.4 which sets forth pollution abatement criteria for any development on the recharge zone of the Edwards Aquifer. The proposed water pollution abatement plan is in general agreement with 31 TAC §313.4; therefore, approval of the plan is hereby granted subject to the specific conditions listed below.

**Failure to comply** with any of the following conditions, the deed recordation requirement, or any other specific conditions of approval is a violation of these rules. Pursuant to §26.136 of the Texas Water Code, any violations of the Edwards Aquifer Rules may result in administrative **penalties of up to \$10,000 for each act of violation and for each day of violation.**

SPECIAL CONDITIONS

1. Lot #2 (1.010 acres) noted on the site plan shall require a separate WPAP application prior to construction of any regulated development or activity pursuant to 30 TAC §313. Potential purchasers should be notified of this requirement.

STANDARD CONDITIONS OF APPROVAL

1. Please be reminded that 31 TAC §313.4(c) requires the owner/developer to: (1) record in the county deed records that this property is subject to the approved WPAP; and (2) submit to the Executive Director through the Region 13 Office, within 30 days of receiving this written notice of approval of the water pollution abatement plan and prior to commencing construction, proof of application for recordation of notice in the county deed records. Enclosed is a suggested format you may be used to deed record your approved WPAP.
2. Prior to commencing construction, the applicant/agent shall submit to the Region 13 Office copies of any changes made to the plans and specifications for this project which have been required by the TNRCC review and/or all other permitting authorities.
3. Please note, following this approval of the regulated activities described in the referenced WPAP submittal, any amendment to these activities required by some other regulating authority or desired by the applicant will require the submittal of a WPAP application to amend this approval. And, as indicated in 31 TAC §313.4 and 31 TAC §313.27, an application to amend any approved regulated activity shall include payment of appropriate fees and all information necessary for its review and Executive Director approval.
4. Additionally, all contractors conducting regulated activities associated with this proposed regulated project shall be provided with copies of this approval letter and the entire contents of the submitted WPAP so as to convey to the contractors the specific conditions of this approval. During the course of these regulated activities, the contractors

shall be required to keep on-site copies of the WPAP and this approval letter.

5. The temporary erosion and sedimentation (E&S) controls for the entire project shall be installed prior to beginning any other construction work on this project.

**During residential construction on the individual lots in this development, temporary E&S controls shall be installed. The E&S controls shall be inspected periodically during construction and following any significant rainfall occurrences. Necessary repairs to the E&S controls shall be made as soon as possible.**

6. The appropriate E&S control(s) that shall be used during the construction of the project should be determined as follows: (1) **Silt fences** should be used when the drainage area is less than 2 acres and the slope is less than 10%. (2) **Rock berms with filtration** should be used when the drainage areas are greater than two acres or when the slopes are in excess of 10%. The bottom edge of the filter fabric must be buried a minimum of 6 inches below grade.
7. The TNRCC may monitor stormwater discharges from the site to evaluate the adequacy of the temporary erosion and sedimentation control measures. Additional protection may be necessary if excessive solids are being discharged from the site.
8. Also, 31 TAC §313.4(d)(2) requires that if any significant recharge features, such as solution openings or sinkholes, are discovered during construction, all regulated activities near the significant recharge feature must be suspended immediately and may not be resumed until the Executive Director has reviewed and approved the methods proposed to protect the aquifer from any potential adverse impacts. Upon discovery of the significant recharge features, the developer shall immediately notify the Region 13 office.
9. Upon completion of the project, the applicant shall reseed or sod all areas disturbed during construction.
10. If any abandoned wells exist on the site or are found during construction of the proposed development, they shall be plugged in accordance with the local underground water conservation district's plugging procedures, if applicable, or 31 TAC §287.50(a) of this title (relating to Standards for Plugging Wells that Penetrate Undesirable Water Zones), or an equivalent method, as approved by the Executive Director. Pursuant to 31 TAC §287.48(e), the person that plugs such a

well shall, within 30 days after plugging is complete, submit a Water Well Completion and Plugging Report to the Executive Director, through the Region 13 Office and to the Edwards Underground Water District.

Any drill holes resulting from core sampling on-site or down-gradient of the site shall be plugged with cement slurry, from the bottom of the hole to the top of the hole, so as to not allow water or contaminants to enter the subsurface environment.

11. No waste-disposal wells, new confined animal feeding operations, land disposal of Class I wastes, or use of sewage holding tanks as parts of organized collection systems shall be allowed on the recharge zone of this regulated development.
12. During the course of the construction related to the referenced regulated project, the owner/developer shall comply with all applicable provisions of 31 TAC §313.4. Construction which is initiated and abandoned, or not completed, shall be returned to a permanent condition such that groundwater in the Edwards Aquifer is protected from potential contamination. Additionally, Ms. Penelope Church, applicant, shall remain responsible for the provisions and special conditions of this approval until such responsibility is legally transferred to another person or entity, upon which that person or entity shall assume responsibility for all provisions and specific conditions of this approval.
13. Pursuant to 31 TAC §313.4(d)(1) and prior to commencing regulated activities, the applicant must provide the Region 13 Office with the date on which the regulated activity will commence.
14. Please note that 31 TAC §313.4(g) states that this approval expires two years from this date unless, prior to the expiration date, construction has commenced on the regulated project.
15. Approval of the design of the sewage collection system for this proposed subdivision shall be obtained from the Texas Natural Resources Conservation Commission prior to the commencement of construction of any sewage collection system, the design of which shall be in accordance with 31 TAC §313.5 and 31 TAC §317.
16. The developer shall ensure that construction debris, such as but not limited to scrap wood, bricks, paint, adhesives, containers, paper, etc. is disposed of properly at an authorized landfill off of the Edwards Aquifer Recharge Zone.

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17. If asphaltic materials such as "seal coat", emulsion or other asphaltic products used for paving, roofing, etc. wash off or leave the project site the developer shall notify the Texas Natural Resource Conservation Commission immediately and commence clean-up.

If you have any questions or require additional information, please contact a representative of the Edwards Aquifer Protection Program at the Region 13 Office (210) 490-3096.

Sincerely,



J. Richard Garcia,  
Regional Manager, for

Tony Grigsby  
Executive Director

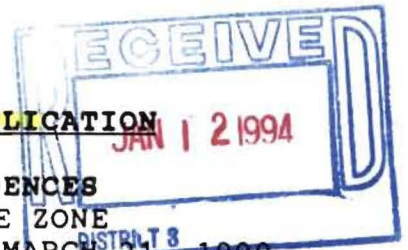
JRG/JKM-jkm

Enclosures

cc: Carter Casteel, County Judge, Comal County  
Monica M. Wallace, Comal County Office of Environmental Health  
Sharron Timmermann, Comal County Subdivision Coordinator  
Rick Illgner, Edwards Underground Water District  
John Mauser, Region 13 Office, TNRCC  
TNRCC - Central Records (with attachment)

*continued*

**WATER POLLUTION ABATEMENT PLAN APPLICATION**  
FOR CONSTRUCTION OF  
**TWO OR LESS SINGLE-FAMILY RESIDENCES**  
ON THE EDWARDS AQUIFER RECHARGE ZONE  
AND RELATING TO 31 TAC §313.4 EFFECTIVE MARCH 21, 1990



EDWARDS AQUIFER, COMAL County  
PROJECT NAME: DOHERTY ESTATES, LOT 1  
TYPE: Water Pollution Abatement Plan (WPAP), 30  
Texas Administrative Code (TAC) 313.4

Do not write in this box. TNRCC use only.	
Received by Region (Day 1)	
Fee Due:	\$
Payment Verified	
Inspection Date:	
Judged administratively ____ complete ____ incomplete (Day 60)	
Written Comments Received From City/County: UWCD within 30 Days:	____ Yes ____ No ____ Yes ____ No
____ Approved (Day 150) ____ Incomplete & Returned	

RECEIVED  
JAN 13 1994  
COUNTY ROAD DEPT.

Do not write in shaded areas. For use only.

SB NA SB = Submitted NA = Not Applicable

After 11/1/94 contact the appropriate regional office of the Texas Natural Resource Conservation Commission to obtain the latest version of this APPLICATION for TWO OR LESS SINGLE-FAMILY RESIDENCES.

1. Enter Site Address (if assigned), County, City:

Street (If assigned) 1418  
City  
State  
Zip

If form is not on computer disk  
attach answers directly behind this page.

12/1/93  
Page 1

Do not write in shaded areas. For use only.

SB NA

SB = Submitted NA = Not Applicable

After 12/1/94 contact the appropriate regional office of the Texas Natural Resource Conservation Commission to obtain the latest version of this APPLICATION for TWO OR LESS SINGLE-FAMILY RESIDENCES.

1. Enter Site Address (if assigned), County, City:

Street (If assigned) 1418 Hueco Springs Loop Rd.  
City, State, Zip New Braunfels TX 78132

☐ This project is inside the city limits of the City of \_\_\_\_\_.

☒ This project is outside the city limits but inside the City of New Braunfels ETJ (extra-territorial jurisdiction).

☐ This project is outside the city limits, outside the city's ETJ but in \_\_\_\_\_ County.

2. The location of the project site is described below (Example: "NE corner of Bitters & Heimer Roads", "On east side of Heimer Road, 1/4 mile north of Bitters Road").

1/2 mile east of Whispering Woods Way on the south side of Hueco Springs Loop Rd.

3. Applicant:

Contact Person:

PENELOPE CHURCH

Entity:

Mailing Address

154 S. SEQUIN AVE.

City, State:

NEW BRAUNFELS TX

Zip:

78130

Telephone:

210/625-4870 (H) 210/608-2100 (O)

If form is not on computer disk  
attach answers directly behind this page.

1/10/94

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- ☐ ☐ 4. Check the name of the Underground Water Conservation District in the area (if one exists).

☐ Barton Springs/Edwards Aquifer  
☒ Edwards Underground  
☐ Medina County  
☐ Uvalde County  
☐ Site is not within an UWCD

- ☐ ☐ 5. ☒ A Road Map is attached behind this sheet showing the location of project site and route/mileage from an existing known site or intersection.

- ☐ ☐ 6. ☒ A copy of the official 7½ minute USGS quadrangle map(s) of the Edwards Recharge Zone is attached behind this sheet. Maps are available from:

Accugraphics 512/459-4929  
Barton Springs/Edwards Aquifer District 512/282-8441  
Edwards Underground Water District 210/222-2204  
Furgeson Map Company 210/341-6277

The map(s) should clearly show:

- ☐ ☐ 1. Project site.  
☐ ☐ 2. USGS Quadrangle Name(s),  
☐ ☐ 3. Boundaries of the Recharge Zone (and Transition Zone, if applicable),  
☐ ☐ 4. Drainage path from the project to the boundary of the Recharge Zone.

- ☐ ☐ 7. Is your house located within an existing subdivision?

☐ Yes, Name of Subdivision: \_\_\_\_\_

☐ Does the existing subdivision have approval pursuant to 30 TAC §313.4 for a water pollution abatement plan?

☐ YES, a copy of the approval letter is attached.

☐ NO

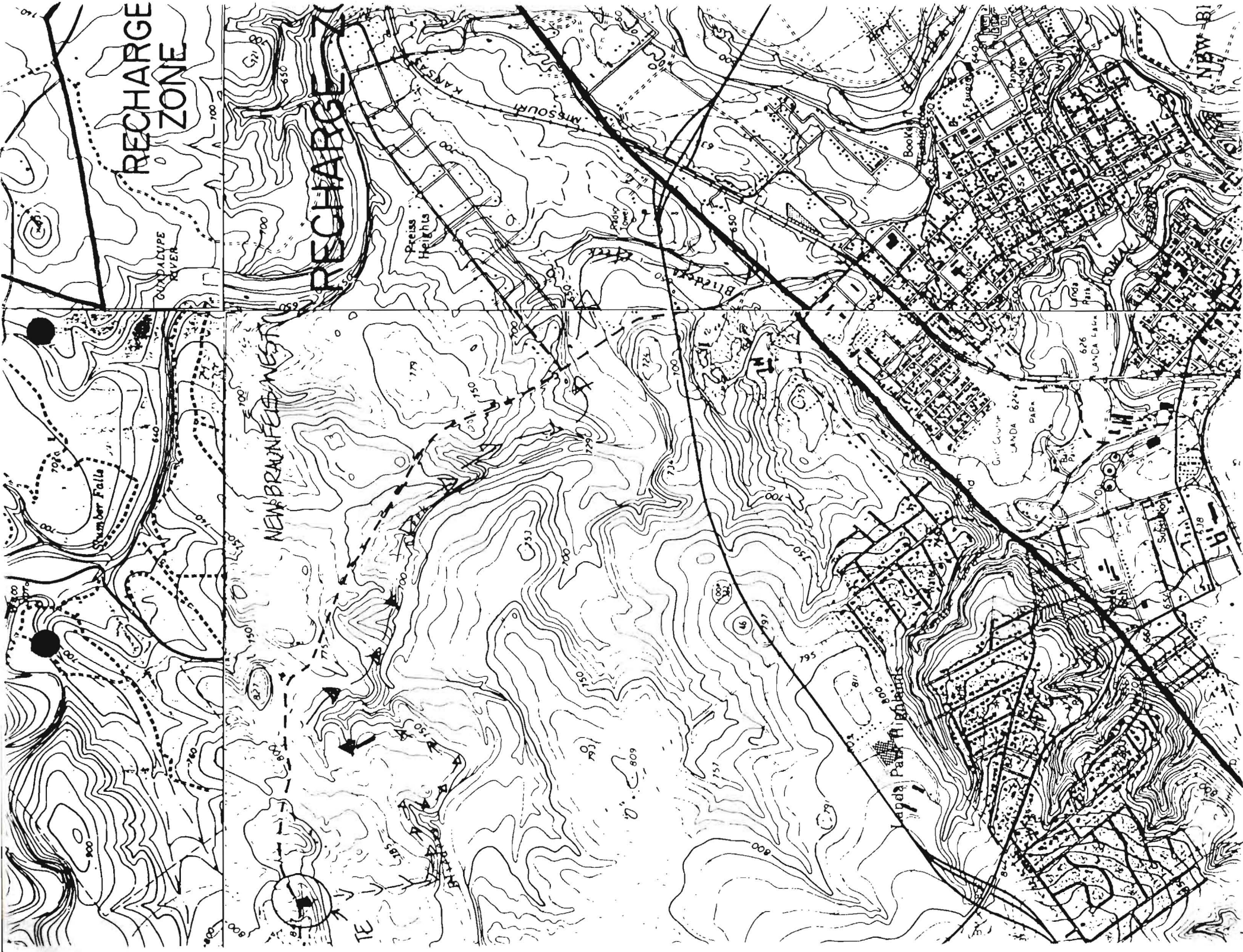
☒ No, the proposed house will not be located within an existing subdivision.

- ☐ ☐ 8A. ☒ This application is for the construction of 1 single-family residence(s).

If form is not on computer disk  
attach answers directly behind this page.

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Page 3



☐ 8B. Size of Lot #1: 1.151  
 Size of Lot #2: —  
 Total acres: 1.151

☐ 8C. Fee Due:..... \$ 350.00

☐ 8D. Projected population:..... 1

☐ 8E. Source of potable water is:
 

- ☐ City of Austin
- ☐ City of Georgetown
- ☐ City of Round Rock
- ☐ City of San Marcos
- ☐ New Braunfels Utilities
- ☒ Private on-site water well(s)
- ☐ San Antonio Water System
- ☐ Water purveyor: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

9.	Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
	Structures/Rooftops	1220	÷ 43,560 =	<del>0.028</del> 0.028
	Parking/Paved Surfaces <sup>none - base gravel driveway</sup>		÷ 43,560 =	
	Other: _____		÷ 43,560 =	
	Total:		÷ 43,560 =	
	("Total Impervious Cover") ÷ ("Total Acreage") x 100 = % Impervious Cover =			2.4 %

☐ 10A. The existing conditions on project site are noted below.

The project site is:

☐ Existing commercial site  
☐ Existing industrial site  
☒ Existing residential site  
☐ Existing paved &/or unpaved roads  
☐ Undeveloped (Cleared)  
☐ Undeveloped (With woods & meadows)  
☐ Other: \_\_\_\_\_

If form is not on computer disk  
 attach answers directly behind this page.

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**10B. Municipal solid waste, and/or hazardous waste:**

There are areas of trash, debris or other municipal solid waste or hazardous waste on this property which will be disposed of properly at an authorized landfill prior to commencing construction. Other (Described on following page under "ITEM #10B"):

✓ There are no areas of trash, debris or other municipal solid waste or hazardous waste existing on this property.

Other waste (Described on following page under "ITEM #10B"):

**11. Wastewater to be generated by proposed project [30 TAC §313.4(b)(A)(ii)].**

Wastewater to be generated by proposed project:	
Character	Volume
___ % Domestic	_____ gallons/day
___ % Industrial	_____ gallons/day
___ % Commingled	_____ gallons/day
TOTAL	_____ gallons/day

**12. The Method of Wastewater Disposal is:**

**12A. ✓ On-Site Sewage Treatment (Septic Tank):**

On-site septic tanks will be used to treat and dispose of wastewater. The **appropriate licensing authority's letter is attached directly behind this page.** It states that the land is suitable for the use of a septic tank or identifies areas that are not suitable.

Furthermore, I am aware that the minimum lot size for a septic tank on the Recharge Zone is one (1) acre. Each lot in this project/development is at least one (1) acre in size and the on-site treatment facility will be designed and installed by a licensed sanitarian or engineer.

**If form is not on computer disk  
attach answers directly behind this page.**

**1/10/94**

**Page 5**

COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH

**PERMIT TO CONSTRUCT**

MINIMUM REQUIRED SIZES FOR SYSTEM

CALL 964-3338 TO SCHEDULE INSPECTIONS

VALID FOR ONE YEAR

DATE: 10/11/93

XX SINGLE FAMILY RESIDENCE

\_\_\_\_\_ INSTITUTION LESS THAN 500 GALLONS PER DAY

\_\_\_\_\_ INSTITUTION GREATER THAN 500 GALLONS PER DAY PER ENGINEER OR SANITARIAN DESIGN

\_\_\_\_\_ ALTERNATIVE SYSTEMS PER ENGINEER OR SANITARIAN DESIGN

PERMIT # 73373 OWNER DR. MIKE DOHERTY LOT \_\_\_\_\_

SUBDIVISION 20 ACRES STREET 1442 HUECO SPRINGS LOOP

APPROVED MINIMUM SIZES:

750 GALLON TANK \_\_\_\_\_ SQ. FT. DRAINFIELDS OR 381 SQ. FT. TRENCH (18"-36" WIDE)

\_\_\_\_\_ SPECIAL CONDITIONS \_\_\_\_\_

White - ORIGINAL

Pink - FILE

DATE 11/9/93LICENSE NO. 73373

# Comal County

OFFICE OF ENVIRONMENTAL HEALTH

## LICENSE TO OPERATE A PRIVATE SEWAGE FACILITY

OWNER DR. MIKE DOHERTYPROPERTY LOCATION 20 ACRESSTREET 1442 HUECO SPRINGS LOOP UNIT \_\_\_\_\_ BLOCK \_\_\_\_\_ LOT \_\_\_\_\_

THIS LICENSE IS AUTHORIZATION FOR THE OWNER TO OPERATE AND MAINTAIN A PRIVATE FACILITY AT THE LOCATION DESCRIBED IN ACCORDANCE TO THE RULES OF COMAL COUNTY, TEXAS, FOR PRIVATE SEWAGE FACILITIES (RULES).

THE LICENSE GRANTS PERMISSION TO OPERATE THE FACILITY. IT DOES NOT GUARANTEE SUCCESSFUL OPERATION OR SATISFACTORY SERVICE. 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 A NUISANCE, OR TO PROTECT THE PUBLIC HEALTH.

THIS LICENSE TO OPERATE ISSUED UNDER THE AUTHORITY OF THESE RULES IS FOR AN INDEFINITE PERIOD. IT SHALL BE TRANSFERRED TO A SUCCEEDING OWNER. THE LICENSE SHALL BE TRANSFERRED UPON THE REQUEST OF THE NEW OWNER, PROVIDED THE FACILITY HAS NOT BEEN SUBSTANTIALLY MODIFIED.

### THE FACILITY IS LICENSED FOR:

XX \_\_\_\_\_ SINGLE FAMILY RESIDENCE WITH 2 BEDROOMS AND 1000 SQUARE FEET.  
\_\_\_\_\_ INSTITUTION \_\_\_\_\_ ( ) Less than 500 gallons per day  
\_\_\_\_\_ INSTITUTION \_\_\_\_\_ ( ) Greater than 500 gallons per day  
\_\_\_\_\_ OTHER ALTERNATIVE SYSTEMS \_\_\_\_\_

### THE FACILITY CONSISTS OF:

750 \_\_\_\_\_ Gallon Tank Switching Valve \_\_\_\_\_ Yes XX No  
Drainfield Size 384 Sq. Ft. XX Trench \_\_\_\_\_ Bed

Special Conditions: \_\_\_\_\_

Pat Kriss  
Inspector

Monica M. Wallace  
Sanitarian

Date dug & wet: 9/4/93Date: 9/25/93By: DRDPerc Test: DRDOwner's Name: DR. MIKE DOHERTY

Installer: \_\_\_\_\_

Mailing Add: 1442 HUECO SPRINGS LOOP.

Add: \_\_\_\_\_

NB TX 78132Phone: (210) 629 2163

Phone: \_\_\_\_\_

Job Location: 1442 HUECO SPRINGS LOOPUnit No. \_\_\_\_\_ Blk No. \_\_\_\_\_ LOT: \_\_\_\_\_ Acreage: 20Over Edwards Aquifer Recharge Zone: Yes ☒ No: \_\_\_\_\_Test Holes

Size or Dia.	#1 <u>12"</u>	#2 <u>12"</u>	#3 <u>6"</u>	#4 <u>6"</u>
Depth	<u>20"</u>	<u>20"</u>	<u>18"</u>	<u>18"</u>
Time Saturated	<u>24hr</u>	_____	_____	_____
24 Hr. Condition	<u>EMPTY</u>	_____	_____	_____
Filled to 12"	<u>12"</u>	_____	_____	_____
1st 30 Min. Absorp.	_____	_____	_____	_____
2nd 30 Min. Absorp.	<u>2 1/2"</u>	<u>3 1/2"</u>	<u>3"</u>	<u>2 1/2"</u>
Min./In Absorb.	<u>12</u>	<u>8</u>	<u>10</u>	<u>12</u>
Avg. Min/In.	<u>11</u>	<u>15 min/in DESIGN RATE</u>		

Land Slope in Septic System: \_\_\_\_\_

Type Soils 0-12" GR BRN STONY CLAY LOAM  
 (BROWNE) 12"-36" GRAV CALICHE & WEAK Limestone LAYERS

No. of bedrooms the septic system is sized for: 2 Total sq. ft. of living area <1000381 sq. ft. Trench bottom area required.750 Gal. compartmented septic tank required.

Calculations: \_\_\_\_\_

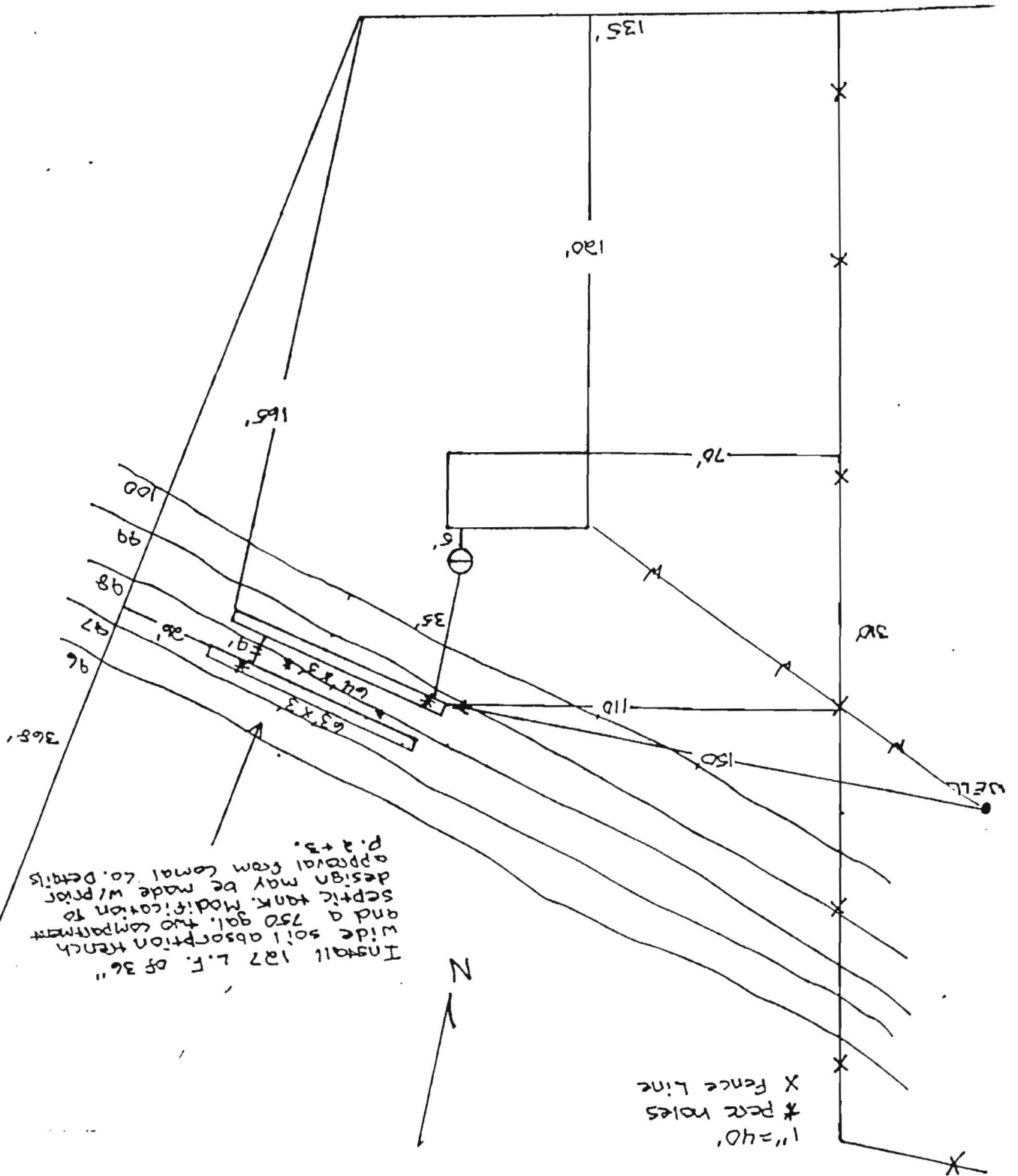
DO NOT use excavated material for backfill over drainfield gravel. Use sand and sandy loam.Location of Test Holes: SEE SITE PLAN

IN MY OPINION THE LIMESTONE AT THIS SITE AT DEPTHS < 4'  
IS SUITABLE FOR SOIL ABSORPTION TRENCHES.

DRD

Douglas R. Doherty R.S. TDA#2432  
 Signature and Registration No. of P.E./Sanitarian/ Geologist

Hueco Springs



12B. On-site Sewage Collection System (Sewer Lines):

— This project will connect to an existing sewage collection system with a private service lateral line to convey wastewater from each residence off the Recharge Zone for treatment and disposal at the EXISTING / PROPOSED (circle one) \_\_\_\_\_

\_\_\_\_\_ Sewage Treatment Plant (S.T.P.).

~~All~~ private service laterals will be inspected as required in 30 TAC 313.5(c)(9) by:

Entity Name: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_

— A proposed organized sewage collection system (SCS) will convey wastewater from these residences to an existing wastewater line for conveyance off the Recharge Zone for treatment and disposal at the EXISTING / PROPOSED (circle one) \_\_\_\_\_

\_\_\_\_\_ Sewage Treatment Plant (S.T.P.).

Furthermore, I am aware that an on-site sewage collection system application is required by 30 TAC 313.5 and must be submitted to the TNRCC for review and approval consideration.

13. A **Site Plan** is required. It shall have a minimum scale of 1" = 400'.

Site Plan Scale: 1" = 100 feet.

14. The Site Plan shall include the following:

14A. **100-year floodplain's boundaries** which are within the site and 200 feet downgradient.

✓ The attached letter from the Comal County floodplain coordinator states that **no part** of this project is located within the 100-year floodplain.

— The attached letter from the \_\_\_\_\_ County floodplain coordinator states that **some part(s)** of this project is located within the 100-year floodplain, and it is labeled on the site plan.

If form is not on computer disk  
attach answers directly behind this page.

1/10/94

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*Spoke with  
Sherman Thompson  
on 1-12-94. Site  
is outside of  
100-year floodplain  
J. Maurer  
1-12-94*

\_\_\_\_\_ The attached letter from \_\_\_\_\_ Engineering Company states that a site specific engineering study, performed by them in \_\_\_\_\_ (year), determined that **no part** of this project is located within the 100-year floodplain and it is labeled on the site plan.

\_\_\_\_\_ The attached letter from \_\_\_\_\_ Engineering Company states that a site specific engineering study, performed by them in \_\_\_\_\_ (year), determined that **some part(s)** of this project is located within the 100-year floodplain and it is labeled on the site plan.

☒ 14B. ☒ **Layout of the development** (Location of lots, buildings, roads, etc.) is shown on the site plan.

☒ 14C. ☒ **Existing topographic contours** are shown on the site plan. The contour interval is \_\_\_\_\_ feet (are not greater than 5 feet). The contour lines are clearly labeled on the site plan.

☐ 14D. \_\_\_\_\_ **Finished topographic contours** are shown on the site plan. The contour interval is \_\_\_\_\_ feet (are not greater than 5 feet). The contour lines are clearly labeled on the site plan.

\_\_\_\_\_ Finished topographic contours will not be changed from the existing topographic configuration and are not shown on the site plan.

☐ 14E. \_\_\_\_\_ The locations of **all known wells** (oil, water, unplugged, capped and/or abandoned, test holes, etc.).

\_\_\_\_\_ There are no wells or test holes of any kind known to exist on this project site.

☒   1   (#) wells are present on the project site and their locations are labeled on the Site Plan.

\_\_\_\_\_ The wells are not in use and have been properly abandoned.

\_\_\_\_\_ The wells are not in use and will be properly abandoned.

☒ The wells are in use and comply with 30 TAC §287.50(a).

If form is not on computer disk  
attach answers directly behind this page.

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**14F. Temporary stockpile areas:**

— Temporary **stockpile** areas are **shown** on the site plan. Appropriate erosion & sedimentation controls are labeled.

✓ — There are **no stockpile** areas anticipated for this project. However, any unanticipated temporary stockpile areas shall have erosion and sedimentation controls placed appropriately.

— Spoil materials will be disposed of on the Recharge Zone at the site identified on following page under "ITEM #14F".

— All spoil materials will be disposed of off the Recharge Zone at the site identified on following page under "ITEM #14F".

**14G. Point(s) of access to construction site.**

— A Stabilized Construction Entrance (SCE) shall be provided at each entrance labeled on the Site Plan Sheet. A design for the entrance is shown on the Site Plan Sheet. *Minor disturbance*

**14H. Recharge features** (caves, sinkholes, fractured rock, etc.) which are located within the development or within 200 feet downgradient of the site.

— An inspection of the project site did reveal potential recharge features which are **labeled** on the site plan.

✓ — An inspection of the project site did not reveal potential recharge features on the site plan.

**15. Other Activities:**

**15A. Will there be any temporary hydrocarbons or hazardous substance storage associated with this project?**

— Yes, and I am aware that a separate application for Aboveground or Underground hydrocarbon or hazardous substance storage must be submitted pursuant to 30 TAC §313.10/313.11.

✓ — No

**If form is not on computer disk  
attach answers directly behind this page.**

**1/10/94**

**Page 8**

☐ 15B. Will there be any permanent hydrocarbons or hazardous substance storage associated with this project?

☐ Yes, and I am aware that a separate application for Aboveground or Underground hydrocarbon or hazardous substance storage must be submitted pursuant to 30 TAC §313.10/313.11.

☒ No, there will be no permanent hydrocarbons or hazardous substance storage on this project site.

☐ 15C. Will there be any sewage holding tanks or cesspools? (Do not include septic tanks.)

☐ Yes  
☒ No

☐ 15D. A feedlot/concentrated animal feeding operation is defined in 30 TAC §321.32 to be "A concentrated, confined livestock or poultry facility operated for meat, milk, or egg production, growing, stabling, or housing, in pens or houses wherein livestock or poultry are fed at the place of confinement and crop or forage growth or production of feed is not sustained in the area of confinement."

Will there be any new feedlot/concentrated animal feeding operations associated with this project?

☐ Yes  
☒ No

☐ 15E. Will there be any waste disposal wells regulated under 30 TAC §331 of this title relating to Underground Injection Control?

☐ Yes  
☒ No

☐ 15F. Will there be any land disposal of Class I wastes, as defined in 30 TAC §335.1?

☐ Yes  
☒ No

If form is not on computer disk  
attach answers directly behind this page.

1/10/94

Page 9

☐ 15G. Will there be any land disposal of Municipal Solid Waste as defined in 30 TAC §330?

☒ Yes  
☐ No

☐ 16. This form, with original signatures, and three (3) copies of the completed application shall be submitted to the appropriate Regional Office for distribution by the TNRCC to the local municipality or county, underground water conservation district, and the TNRCC's Central Office.

☒ The proposed project is located in Bexar, Comal, Kinney, Medina, or Uvalde County and is being submitted to the **SAN ANTONIO** Regional Office.

☐ The proposed project is located in Hays, Travis or Williamson County and is being submitted to the **AUSTIN** Regional Office.

☒ 17. Pursuant to 30 TAC 313.25, application fees are due and payable at the time the application is filed. The fee has been sent to the commission's Austin headquarters, accompanied by an Edwards Aquifer Fee Application Form. I understand that if the correct fee is not submitted the TNRCC is not required to consider the application until the correct fee is submitted.

☐ 18. The blank spaces I have marked above signify that the information required is hereby provided and that, to the best of my knowledge, it accurately reflects the proposed project. This WPAP application was prepared by:

PENELOPE CHURCH

(Print Name of Applicant/Owner/Agent, etc.)

Penelope Church

(Signature of Applicant/Owner/Agent, etc.)

1/12/94

(Date)

Please list any comments or suggestions you may have to improve this application. They will be considered for inclusion in the next edition of this form.

If form is not on computer disk  
attach answers directly behind this page.

1/10/94

Page 10

**EXCEPTION REQUEST**  
**Application Fee for One (1) Single-Family Residence WPAP**

As owner of the property listed below I am requesting an exception to the application fee requirements of a water pollution abatement plan (WPAP) for one single-family residence located on the Recharge Zone of the Edwards Aquifer at:

Address: 1418 Hueco Springs Loop Rd.  
New Braunfels, Texas 78132

The exception to the application fee is based on the acreages listed in the table below. The subject property is 1.151 acres and the appropriate application fee is \$350. A copy of the receipt from TNRCC's Fiscal Services Section is attached.

*Penelope Church*  
 Signature

PENELOPE CHURCH  
 Printed Name

1/12/94  
 Date

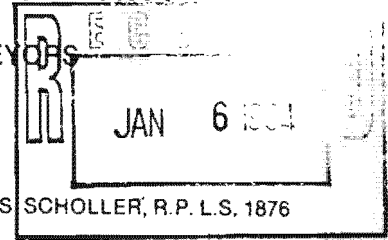
Edwards Aquifer Protection Program Suggested WPAP Fee Exceptions for One Single Family Residence on 5 Acres or Less						
Type	Acres					
	1 <sup>2</sup>	≤2	≤3	≤4	≤5	> 5.0
One (1) Single-Family Residence <sup>1</sup>	*\$300	*\$350	*\$400	*\$450	*\$500	Not Regulated.  No Application Fee.
* Note - This reduced fee requires an exception request and approval. 1 - More than 1 house constitutes residential subdivision. 2 - Minimum lot size serviced by on-site sewage treatment is one (1) acre.						

All fees must be submitted to the TNRCC at the following address:

Texas Natural Resource Conservation Commission  
 Fiscal Services Section  
 P.O. Box 13087  
 Austin, Texas 78711-3087

**WILLIAM J. KOLODZIE SURVEYING COMPANY**

REGISTERED PROFESSIONAL LAND SURVEYORS  
197 EAST MILL STREET  
NEW BRAUNFELS, TEXAS 78130  
210-625-6484 FAX 210-620-6484



WILLIAM J. KOLODZIE, R.P.L.S. 1462

GERARD S. SCHOLLER, R.P. L.S. 1876

January 5, 1994

TEXAS NATURAL RESOURCES AND CONSERVATION COMMISSION  
Attn: John Mauser  
140 Heimer Road, Suite 360  
San Antonio, TX 78232-5042

Dear Mr. Mauser,

Please find enclosed a copy of the Master Plan of Doherty Estates and a copy of Doherty Estates a proposed 2 lot subdivision which received approval from the Planning and Zoning Commission of the City of New Braunfels, Comal County, Texas last night, January 4, 1994.

Please review the Master Plan and the 2 lot subdivision and send to me your letter of development activity over the Edwards Aquifer Recharge Zone covering the 2 lots. I will forward the development plan to Mr. Michael Doherty and to the Road Department of Comal County.

If further information is needed, please call.

Very truly yours,

*William J. Kolodzie*  
William J. Kolodzie

cc: Penelope Church  
City of New Braunfels  
P.O. Box 311-747  
New Braunfels, TX 78131-1747

Diagram illustrating a line with a break symbol (zigzag line) and a scale bar indicating 1" = 100'.

SURVEYOR - WILLIAM J. KOLODZIE , R.P.L.S. 1462  
WILLIAM J. KOLODZIE SURVEYING CO.  
197 E. MILL ST.  
NEW BRAUNFELS, TEXAS 78130  
210-625-6484



CADWALLADER DEVELOPMENT CORPORATION  
TO  
FRANCISCO COLL & WIFE, MARY A. COLL  
57.527 ACRE TRACT  
APRIL 20, 1977 VOL. 252 P. 65-68

HUECO SPRINGS LOOP ROAD

LOT 1  
1.151 ACRES

HOUSE

LOT 2  
1.010 ACRES

HOUSE

POOL

ELECTRIC LINE EASEMENT

REMAINDER OF 20.025 ACRE TRACT VOL. 923, P. 12-16

FUTURE DEVELOPMENT

790

800

810

820

830

1, 113.42'

136.96'  
N 70° 25' 45" E  
0.115 AC.  
S 70° 25' 45" W  
149.94'  
367.41'  
330.24'  
371.17'  
131.50'  
N 65° 22' 00" E  
175.34'  
S 65° 02' 00" W  
165.91'  
28.05'  
N 09° 44' 20" W  
140.06'  
97.92'  
S 55° 02' 30" W  
28.05'  
N 65° 02' 00" E  
0.244 AC.  
S 65° 02' 00" W  
274.21'  
26.07'  
N 74° 39' 55" E  
151.14'  
N 74° 39' 55" E  
125.07'  
S 74° 39' 55" W  
144.33'  
N 79° 13' 57" E  
145.7'  
S 79° 13' 57" W  
141.56'  
0.352 AC.  
N 88° 12' 03" E  
168.35'  
S 88° 12' 03" W  
150.74'  
38.02'  
628.45'  
666.47'

366.69'  
N 66° 59' 50" E  
584.95'  
N 00° 06' 22" E  
N 00° 06' 22" E  
S 48° 00' 40" W  
285.41'

584.95'  
N 37° 00' W  
S 49° 47' 08" W

136.96'  
N 70° 25' 45" E  
0.115 AC.  
S 70° 25' 45" W  
149.94'  
367.41'  
330.24'  
371.17'  
131.50'  
N 65° 22' 00" E  
175.34'  
S 65° 02' 00" W  
165.91'  
28.05'  
N 09° 44' 20" W  
140.06'  
97.92'  
S 55° 02' 30" W  
28.05'  
N 65° 02' 00" E  
0.244 AC.  
S 65° 02' 00" W  
274.21'  
26.07'  
N 74° 39' 55" E  
151.14'  
N 74° 39' 55" E  
125.07'  
S 74° 39' 55" W  
144.33'  
N 79° 13' 57" E  
145.7'  
S 79° 13' 57" W  
141.56'  
0.352 AC.  
N 88° 12' 03" E  
168.35'  
S 88° 12' 03" W  
150.74'  
38.02'  
628.45'  
666.47'

REVISED: JAN. 5, 1994

Correct: 12-7-93

WILLIAM J. KOŁODZIE  
R.P.S. 1462

**PLAT - SHOWING**

DESIGN
RB
DRAWN
CHECKED

**WILLIAM J. KOLODZIE SURVEYING CO.**  
197 East Mill Street  
New Braunfels, Texas

DATE	
JOB NO.	
SHEET	

# DOHERTY ESTATES

BEING 1.151 ACRE LOT 1 AND 1.010 ACRE LOT 2 OUT OF THE J. M. VERAMENDI TWO LEAGUE SURVEY NO. 2, COMAL COUNTY, TEXAS, AND BEING OUT OF AND A PART OF THAT CERTAIN TRACT I OF 1.342 ACRES AND THAT CERTAIN TRACT II OF 18.68 ACRES CONVEYED BY SPECIAL WARRANTY DEED OF ASSUMPTION RETAINING A VENDOR'S LIEN FROM CALUDETTE DOHERTY TO MICHAEL A. DOHERTY DATED OCTOBER 15, 1993 AND RECORDED IN VOLUME 923 ON PAGES 12-16 OF THE OFFICIAL PUBLIC RECORDS OF COMAL COUNTY, TEXAS.

STATE OF TEXAS:  
COUNTY OF COMAL: THE OWNER OF THE LAND SHOWN ON THIS PLAT AND WHOSE NAME IS SUBSCRIBED HERETO, AND IN PERSON OR THROUGH A DULY AUTHORIZED AGENT, HEREBY DEDICATES TO THE USE OF THE PUBLIC FOREVER ALL STREETS, ALLEYS, PARKS, WATER COURSES, DRAINS, EASEMENTS, AND PUBLIC PLACES THEREON SHOWN FOR THE PURPOSES AND CONSIDERATIONS THEREIN EXPRESSED. THERE IS ALSO DEDICATED FOR UTILITIES AN AERIAL EASEMENT 5 FEET ON EACH SIDE OF ALL EASEMENTS AND STREETS AND EXTENDING VERTICALLY AS REQUIRED.

*Michael A. Doherty*  
MICHAEL A. DOHERTY  
1442 HUECO SPRINGS LOOP ROAD  
NEW BRAUNFELS, TEXAS 78132  
210-629-2163

STATE OF TEXAS:  
COUNTY OF COMAL: BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED MICHAEL A. DOHERTY, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT, AND ACKNOWLEDGES TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS THEREIN EXPRESSED AND IN THE CAPACITY THEREIN STATED.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS 8th DAY OF December, A.D. 1993.

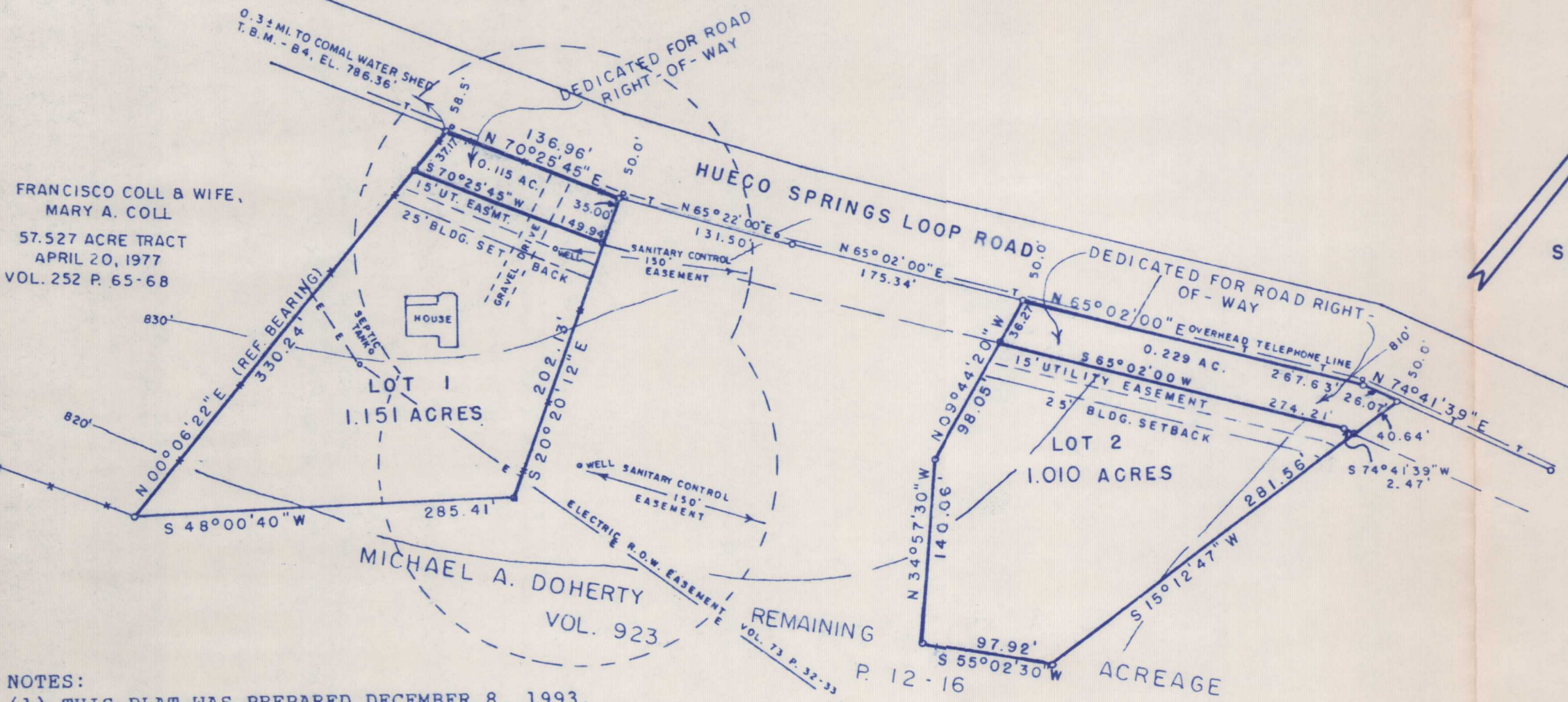
*Kathy Brown*  
NOTARY PUBLIC, STATE OF TEXAS

STATE OF TEXAS :  
COUNTY OF COMAL: I HEREBY CERTIFY THAT THIS PLAT IS TRUE AND CORRECT AND WAS PREPARED FROM AN ACTUAL SURVEY OF THE PROPERTY MADE UNDER MY SUPERVISION ON THE GROUND.

*William J. Kolodzie*  
WILLIAM J. KOLODZIE  
R.P.L.S. 1462

SWORN TO AND SUBSCRIBED BEFORE ME THIS THE 8th DAY OF December A.D. 1993.

*Kathy Brown*  
NOTARY PUBLIC, STATE OF TEXAS



- NOTES:
- (1) THIS PLAT WAS PREPARED DECEMBER 8, 1993.
  - (2) THIS PROPERTY WILL BE SERVICED BY PRIVATE WATER SYSTEM.
  - (3) ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP, COMMUNITY-PANEL NO. 485463 0105 C, AS REVISED SEPT. 29, 1986, THIS PROPERTY LIES IN ZONE "C", AREAS OF MINIMAL HAZARDS.
  - (4) THIS PROPERTY DOES LIE OVER THE EDWARDS UNDERGROUND AQUIFER RECHARGE ZONE.
  - (5) THIS PROPERTY LIES IN THE NEW BRAUNFELS INDEPENDENT SCHOOL DISTRICT.
  - (6) ALL IRON PINS SET.
  - (7) CONTOURS SCALED FROM A COPY OF U.S.G.S. QUADRANGLE MAP "NEW BRAUNFELS WEST", TEXAS.
  - (8) BEARINGS ARE ORIENTED TO DEED CALL.
  - (9) PROPERTY OWNERS ARE ADVISED THAT THEY ARE RESPONSIBLE FOR MAINTENANCE OF DEDICATED EASEMENTS ON THEIR PROPERTY AND MAY NOT UTILIZE THESE EASEMENTS FOR ANY PURPOSE DETRIMENTAL TO THEIR INTENDED USE ( i.e. NO STRUCTURES, SEPTIC TANK FIELDS, ETC.). GRANTEES OF SAID DEDICATED EASEMENTS RESERVE THE RIGHT OF ACCESS TO SUCH EASEMENTS."
  - (10) ELECTRIC SERVICE PROVIDED BY NEW BRAUNFELS UTILITIES.
  - (11) IMPROVEMENTS EXIST ON THIS PROPERTY AS SHOWN.
  - (12) THIS PROPERTY WILL BE SERVICED BY PRIVATE SEWAGE FACILITIES.
  - (13) THIS PROPERTY IS SUBJECT TO BUILDING SETBACK LINES AND UTILITY EASEMENTS.
  - (14) THIS PROPERTY LIES IN THE EXTRA TERRITORIAL JURISDICTION OF THE CITY OF NEW BRAUNFELS.
  - (15) SHOWING A 35 FOOT WIDE, 0.115 OF AN ACRE TRACT AND A 35 FOOT WIDE 0.229 OF AN ACRE TRACT DEDICATED TO WIDEN HUECO SPRINGS LOOP ROAD.

THIS PLAT OF DOHERTY ESTATES HAS BEEN SUBMITTED TO AND CONSIDERED BY THE COMMISSIONERS COURT OF COMAL COUNTY, TEXAS AND IS HEREBY APPROVED FOR FILING BY SAID COURT THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, A.D. 1994.

ATTEST:  
CARTER CASTEEL, COUNTY JUDGE,  
COMAL COUNTY, TEXAS  
JOY STREATER, COUNTY CLERK,  
COMAL COUNTY, TEXAS

STATE OF TEXAS :  
COUNTY OF COMAL: I, JOY STREATER, COUNTY CLERK OF SAID COUNTY, DO HEREBY CERTIFY THAT THE FOREGOING INSTRUMENT OF WRITING, WITH ITS CERTIFICATE OF AUTHENTICATION, WAS FILED FOR RECORD IN MY OFFICE ON THE \_\_\_\_\_ DAY OF \_\_\_\_\_, A.D. 1994 AT \_\_\_\_\_ AND DULY RECORDED THE \_\_\_\_\_ DAY OF \_\_\_\_\_

\_\_\_\_\_, A.D. 1994 AT \_\_\_\_\_ IN THE MAP & PLAT RECORDS OF SAID COUNTY IN BOOK/VOLUME \_\_\_\_\_

ON PAGE \_\_\_\_\_. IN TESTIMONY THEREOF, WITNESS MY HAND AND OFFICIAL SEAL OF OFFICE

THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, A.D. 1994.

JOY STREATER, COUNTY CLERK,  
COMAL COUNTY, TEXAS

APPROVED THIS THE \_\_\_\_\_ DAY OF \_\_\_\_\_, A.D. 1994 BY THE PLANNING AND ZONING COMMISSION OF THE CITY OF NEW BRAUNFELS, TEXAS.

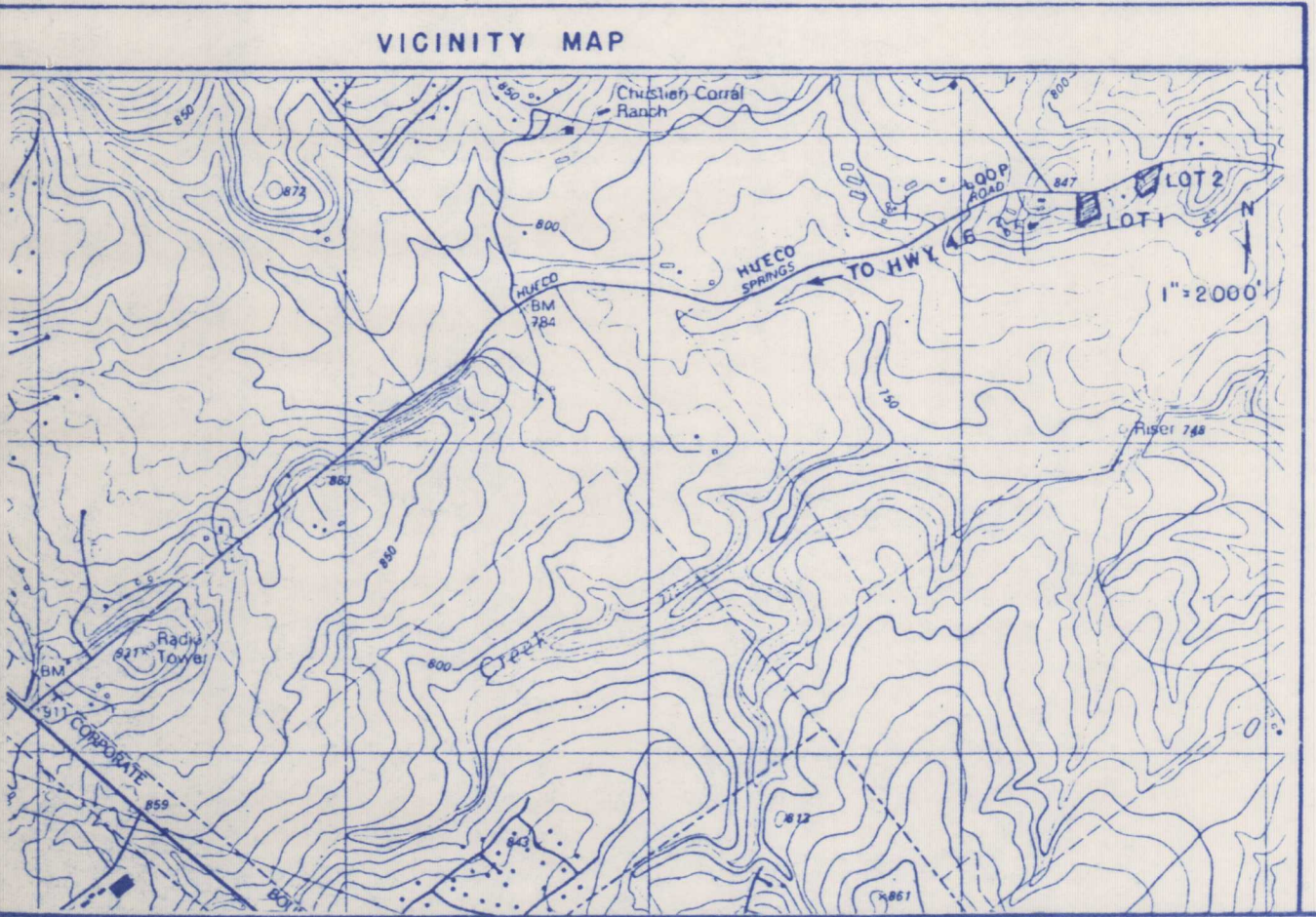
CHAIRMAN:

APPROVED FOR ACCEPTANCE:

DATE: \_\_\_\_\_, \_\_\_\_\_  
DIRECTOR OF PLANNING

DATE: \_\_\_\_\_, \_\_\_\_\_  
CITY ENGINEER

DATE: \_\_\_\_\_, \_\_\_\_\_  
GENERAL MANAGER,  
NEW BRAUNFELS UTILITIES



Correct: 12-08-1993		PLAT - SHOWING	
WILLIAM J. KOLODZIE R.P.S. 1462		DOHERTY ESTATES COMAL COUNTY, TEXAS	
DESIGN	DATE	WILLIAM J. KOLODZIE SURVEYING CO. 197 East Mill Street New Braunfels, Texas	JOB NO. SHEET OF
GS DRAWN			
CHECKED			

RECEIVED

OCT 17 1994

COUNTY ROAD DEPT.

**WATER POLLUTION ABATEMENT PLAN APPLICATION**  
FOR CONSTRUCTION OF  
**ONE SINGLE-FAMILY RESIDENCE**

or

**TWO CONTIGUOUS SINGLE-FAMILY RESIDENCES**

ON THE EDWARDS AQUIFER RECHARGE ZONE

AND RELATING TO 31 TAC §313.4 EFFECTIVE MARCH 21, 1990



**EDWARDS AQUIFER,**

COMAL

County

PROJECT NAME:

DOHERTY ESTATES, LOT 2

TYPE:

Water Pollution Abatement Plan (WPAP), 30 Texas  
Administrative Code (TAC) 313.4

Do not write in this box. TNRCC use only.	
Received by Region (Day 1)	
Fee Due:	\$
Payment Verified	
Inspection Date:	
Judged administratively ____ complete ____ incomplete (Day 60)	
Written Comments Received From City/County: UWCD within 30 Days:	____ Yes ____ No ____ Yes ____ No
____ Approved (Day 150) ____ Incomplete & Returned	

12-16-94 1st trans. (14 +)

Post-It™ brand fax transmittal memo 7671 # of pages 6

To <u>Kalodzie Survey.</u>	From <u>Betty</u>
Co.	Co. <u>Comal City Road</u>
Dept.	Phone #
Fax # <u>620-6484</u>	Fax #

If form is not on computer disk  
attach answers directly behind this page.

2/1/94

Page 1

Do not write in shaded areas. For use only.

SB NA SB = Submitted NA = Not Applicable

After 1/1/95 contact the appropriate regional office of the Texas Natural Resource Conservation Commission to obtain the latest version of this APPLICATION for TWO OR LESS SINGLE-FAMILY RESIDENCES.

1. Enter Site Address (if assigned), County, City:

Street (If assigned) 1416 HUECO SPRINGS LOOP  
City, State, Zip NEW BRAUNFELS, TX

\_\_\_\_\_ This project is inside the city limits of the City of \_\_\_\_\_.

☒ This project is outside the city limits but inside the City of NEW BRAUNFELS ETJ (extra-territorial jurisdiction).

\_\_\_\_\_ This project is outside the city limits, outside the city's ETJ but in \_\_\_\_\_ County.

2. The location of the project site is described below (Example: "NE corner of Bitters & Heimer Roads", "On east side of Heimer Road, 1/4 mile north of Bitters Road").

1/2 MILE EAST OF WHISPERING WOODS WAY  
ON THE SOUTH SIDE OF HUECO SPRINGS LOOP RD.

3. Applicant:

Contact Person: RICK C. REED  
Entity: \_\_\_\_\_  
Mailing Address 352 LANDA STREET  
City, State: NEW BRAUNFELS, TEXAS  
Zip: 78130  
Telephone: (210) 625-8068-WK# (210) 625-5323-HM#

If form is not on computer disk  
attach answers directly behind this page.

2/1/94

Page 2

4. Check the name of the Underground Water Conservation District in the area (if one exists).

☐ Barton Springs/Edwards Aquifer  
☒ Edwards Underground  
☐ Medina County  
☐ Uvalde County  
☐ Site is not within an UWCD

5. ☒ A Road Map is attached behind this sheet showing the location of project site and route/mileage from an existing known site or intersection.

6. ☒ A copy of the official 7½ minute USGS quadrangle map(s) of the Edwards Recharge Zone is attached behind this sheet. Maps are available from:

Accugraphics 512/459-4929  
Barton Springs/Edwards Aquifer District 512/282-8441  
Edwards Underground Water District 210/222-2204  
Furgeson Map Company 210/341-6277

The map(s) should clearly show:

1. Project site.
2. USGS Quadrangle Name(s),
3. Boundaries of the Recharge Zone (and Transition Zone, if applicable),
4. Drainage path from the project to the boundary of the Recharge Zone.

7. Is your house located within an existing subdivision?

☐ Yes, Name of Subdivision: \_\_\_\_\_

☐ Does the existing subdivision have approval pursuant to 30 TAC §313.4 for a water pollution abatement plan?

☐ YES, a copy of the approval letter is attached.

☐ NO

☒ No, the proposed house will not be located within an existing subdivision.

- 8A. ☒ This application is for the construction of 1 single-family residence(s).

If form is not on computer disk  
attach answers directly behind this page.

2/1/94

Page 3

☐ 8B. Size of Lot #1: 1.010  
 Size of Lot #2: \_\_\_\_\_  
 Total acres: 1.010

☐ 8C. Fee Due:..... \$ 300

☐ 8D. Projected population:..... 2

☐ 8E. Source of potable water is:
 

- \_\_\_\_\_ City of Austin
- \_\_\_\_\_ City of Georgetown
- \_\_\_\_\_ City of Round Rock
- \_\_\_\_\_ City of San Marcos
- \_\_\_\_\_ New Braunfels Utilities
- ☒ Private on-site water well(s)
- \_\_\_\_\_ San Antonio Water System
- \_\_\_\_\_ Water purveyor: \_\_\_\_\_
- \_\_\_\_\_ Other: \_\_\_\_\_

9.	Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
	Structures/Rooftops	3987	÷ 43,560 =	.092
	Parking/Paved Surfaces	3000	÷ 43,560 =	.069
	Other: _____		÷ 43,560 =	
	Total:	6987	÷ 43,560 =	.161
	("Total Impervious Cover") ÷ ("Total Acreage") x 100 = % Impervious Cover =			16.1 %

☐ 10A. The existing conditions on project site are noted below.

The project site is:

☐ Existing commercial site  
☐ Existing industrial site  
☐ Existing residential site  
☐ Existing paved &/or unpaved roads  
☐ Undeveloped (Cleared)  
☒ Undeveloped (With woods & meadows)  
☐ Other: \_\_\_\_\_

If form is not on computer disk  
 attach answers directly behind this page.

☐ 10B. Municipal solid waste, and/or hazardous waste:

— There are areas of trash, debris or other municipal solid waste or hazardous waste on this property which will be disposed of properly at an authorized landfill prior to commencing construction. Other (Described on following page under "ITEM #10B"):

☒ There are no areas of trash, debris or other municipal solid waste or hazardous waste existing on this property.

— Other waste (Described on following page under "ITEM #10B"):

☐ 11. Wastewater to be generated by proposed project [30 TAC §313.4(b)(A)(ii)].

*2 ADULTS - ASSUME 100 GAL./DAY EACH*

Wastewater to be generated by proposed project:	
Character	Volume
<input checked="" type="checkbox"/> % Domestic	<u>200</u> gallons/day
<input type="checkbox"/> % Industrial	<u>          </u> gallons/day
TOTAL	<u>200</u> gallons/day

12. The Method of Wastewater Disposal is:

☐ 12A. ☒ On-Site Sewage Treatment (Septic Tank):

On-site septic tanks will be used to treat and dispose of wastewater. The appropriate licensing authority's letter is attached directly behind this page. It states that the land is suitable for the use of a septic tank or identifies areas that are not suitable.

Furthermore, I am aware that the minimum lot size for a septic tank on the Recharge Zone is one (1) acre. Each lot in this project/development is at least one (1) acre in size and the on-site treatment facility will be designed and installed by a licensed sanitarian or engineer.

If form is not on computer disk  
attach answers directly behind this page.

2/1/94

Page 5

**12B. On-site Sewage Collection System (Sewer Lines):**

\_\_\_\_\_ This project will connect to an existing sewage collection system with a private service lateral line to convey wastewater from each residence off the Recharge Zone for treatment and disposal at the EXISTING / PROPOSED (circle one) \_\_\_\_\_ Sewage Treatment Plant (S.T.P.). All private service laterals will be inspected as required in 30 TAC 313.5(c)(9) by:

Entity Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Telephone: \_\_\_\_\_

\_\_\_\_\_ A proposed organized sewage collection system (SCS) will convey wastewater from these residences to an existing wastewater line for conveyance off the Recharge Zone for treatment and disposal at the EXISTING / PROPOSED (circle one) \_\_\_\_\_ Sewage Treatment Plant (S.T.P.). Furthermore, I am aware that an on-site sewage collection system application is required by 30 TAC 313.5 and must be submitted to the TNRCC for review and approval consideration. All private service laterals will be inspected as required in 30 TAC 313.5(c)(9) by:

Entity Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Telephone: \_\_\_\_\_

**13. A Site Plan is required. It shall have a minimum scale of 1" = 400'.**

Site Plan Scale: 1" = 30 feet.

**14. The Site Plan shall include the following:**

**14A. 100-year floodplain's boundaries which are within the site and 200 feet downgradient.**

*SEE COPY OF FLOOD MAP FROM APPENDIXAL REPORT*

\_\_\_\_\_ The attached letter from the \_\_\_\_\_ County floodplain coordinator states that no part of this project is located within the 100-year floodplain.

*NO PART IN FLOODPLAIN*

**If form is not on computer disk  
attach answers directly behind this page.**

**2/1/94**

**Page 6**

\_\_\_\_\_ The attached letter from the \_\_\_\_\_ County floodplain coordinator states that **some part(s)** of this project is located within the 100-year floodplain, and it is labeled on the site plan.

\_\_\_\_\_ The attached letter from \_\_\_\_\_ Engineering Company states that a site specific engineering study, performed by them in \_\_\_\_\_ (year), determined that **no part** of this project is located within the 100-year floodplain and it is labeled on the site plan.

\_\_\_\_\_ The attached letter from \_\_\_\_\_ Engineering Company states that a site specific engineering study, performed by them in \_\_\_\_\_ (year), determined that **some part(s)** of this project is located within the 100-year floodplain and it is labeled on the site plan.

☒ 14B. ☒ Layout of the development (Location of lots, buildings, roads, etc.) is shown on the site plan.

☐ 14C. \_\_\_\_\_ Existing topographic contours are shown on the site plan. The contour interval is \_\_\_\_\_ feet (are not greater than 5 feet). The contour lines are clearly labeled on the site plan.

☐ 14D. The locations of **all known wells** (oil, water, unplugged, capped and/or abandoned, test holes, etc.).

☒ There are no wells or test holes of any kind known to exist on this project site.

\_\_\_\_\_ (#) wells are present on the project site and their locations are labeled on the Site Plan.

\_\_\_\_\_ The wells are not in use and have been properly abandoned.

\_\_\_\_\_ The wells are not in use and will be properly abandoned.

\_\_\_\_\_ The wells are in use and comply with 30 TAC §287.50(a).

☐ 14E. Temporary stockpile areas (soil, sand, gravel, excavated material, etc.):

If form is not on computer disk  
attach answers directly behind this page.

2/1/94

Page 7

— Temporary **stockpile** areas are **shown** on the site plan. Appropriate erosion & sedimentation controls are labeled.

✓ — There are **no stockpile** areas anticipated for this project. However, any unanticipated temporary stockpile areas shall have erosion and sedimentation controls placed appropriately.

— Spoil materials will be disposed of on the Recharge Zone at the site identified on following page under "ITEM #14F".

— All spoil materials will be disposed of off the Recharge Zone at the site identified on following page under "ITEM #14F".

■ ■ 14F. **Point(s) of exit** from construction site.

✓ — A Stabilized Construction Exit (SCE) shall be provided at each exit labeled on the Site Plan Sheet. A design for the entrance is shown on the Site Plan Sheet.

■ ■ 14G. **Recharge features** (caves, sinkholes, fractured rock, etc.) which are located within the development or within 200 feet downgradient of the site.

— An inspection of the project site did reveal potential recharge features which are **labeled** on the site plan.

✓ — An inspection of the project site did not reveal potential recharge features on the site plan.

#### 15. Other Activities:

■ ■ 15A. Will there be any temporary hydrocarbons or hazardous substance storage associated with this project?

— Yes, and I am aware that a separate application for Aboveground or Underground hydrocarbon or hazardous substance storage must be submitted pursuant to 30 TAC §313.10/313.11.

✓ — No

■ ■ 15B. Will there be any permanent hydrocarbons or hazardous substance storage associated with this project?

**If form is not on computer disk  
attach answers directly behind this page.**

2/1/94

Page 8

\_\_\_\_ Yes, and I am aware that a separate application for Aboveground or Underground hydrocarbon or hazardous substance storage must be submitted pursuant to 30 TAC §313.10/313.11.

\_\_\_\_ No, there will be no permanent hydrocarbons or hazardous substance storage on this project site.

☐ ☐ 15C. Will there be any sewage holding tanks or cesspools? (Do not include septic tanks.)

☐ Yes  
☒ No

☐ ☐ 15D. A feedlot/concentrated animal feeding operation is defined in 30 TAC §321.32 to be "A concentrated, confined livestock or poultry facility operated for meat, milk, or egg production, growing, stabling, or housing, in pens or houses wherein livestock or poultry are fed at the place of confinement and crop or forage growth or production of feed is not sustained in the area of confinement."

Will there be any new feedlot/concentrated animal feeding operations associated with this project?

☐ Yes  
☒ No

☐ ☐ 15E. Will there be any waste disposal wells regulated under 30 TAC §331 of this title relating to Underground Injection Control?

☐ Yes  
☒ No

☐ ☐ 15F. Will there be any land disposal of Class I wastes, as defined in 30 TAC §335.1?

☐ Yes  
☒ No

☐ ☐ 15G. Will there be any land disposal of Municipal Solid Waste as defined in 30 TAC §330?

☐ Yes  
☒ No

If form is not on computer disk  
attach answers directly behind this page.

2/1/94

Page 9

- ☒ 16. ☒ This form, with original signatures, and three (3) copies of this completed application shall be submitted to the appropriate Regional Office for distribution by the TNRCC to the local municipality or county, underground water conservation district, and the TNRCC's Central Office.
- ☒ 17. ☒ The proposed project is located in Bexar, Comal, Kinney, Medina, or Uvalde County and is being submitted to the **SAN ANTONIO** Regional Office.
- \_\_\_\_\_ The proposed project is located in Hays, Travis or Williamson County and is being submitted to the **AUSTIN** Regional Office.
- ☒ 18. \_\_\_\_\_ Pursuant to 30 TAC 313.25, application fees are due and payable at the time the application is filed. The fee has been sent to the commission's Austin headquarters, accompanied by an Edwards Aquifer Fee Application Form. I understand that if the correct fee is not submitted the TNRCC is not required to consider the application until the correct fee is submitted.
- ☒ 19. The blank spaces I have marked above signify that the information required is hereby provided and that, to the best of my knowledge, it accurately reflects the proposed project. This WPAP application was prepared by:

RICK C. REED  
(Print Name of Applicant/Owner/Agent, etc.)

*[Signature]*  
(Signature of Applicant/Owner/Agent, etc.)

9/29/94  
(Date)

If form is not on computer disk  
attach answers directly behind this page.

As owner of the property listed below I am requesting an exception to the application fee requirements of a water pollution abatement plan for one single-family residence (or two contiguous single-family residences) located on the Recharge Zone of the Edwards Aquifer at:

Address: 1476 HUECO SPRINGS LOOP RD. &  
NEW BRAUNFELS, Texas 78132 &, Texas \_\_\_\_\_

The exception to the application fee is based on the acreages listed in the table below.

Edwards Aquifer Protection Program Suggested WPAP Fee Exceptions for One Single Family Residence on 5 Acres or Less						
Type	Acres					
	1 <sup>2</sup>	≤2	≤3	≤4	≤5	> 5.0
One (1) Single-Family Residence <sup>1</sup>	*\$300	*\$350	*\$400	*\$450	*\$500	Not Regulated.  No Application Fee.
* Note - This reduced fee requires an exception request and approval. 1 - More than 1 house constitutes residential subdivision. 2 - Minimum lot size serviced by on-site sewage treatment is one (1) acre.						

All fees must be submitted to the TNRCC at the address listed below and a copy of the receipt from TNRCC's Fiscal Services Section is attached.

TNRCC - CASHIER

FINANCIAL ADMINISTRATION SECTION

P.O. BOX 13088

AUSTIN, TEXAS 78711-3088

12100 PARK 35 CIRCLE

BUILDING A, 3rd FLOOR

AUSTIN, TEXAS 78758

	Lot #1	Lot #2	Total
Acreage	1.01		
Fee due	\$300		

Signature

RICK C. REED

Printed Name

9/23/94

Date

If form is not on computer disk  
attach answers directly behind this page.

2/1/94

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Please list any comments or suggestions you may have to improve this application. They will be considered for inclusion in the next edition of this form.

If form is not on computer disk  
attach answers directly behind this page.

2/1/94  
Page 12

COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH

**PERMIT TO CONSTRUCT**

MINIMUM REQUIRED SIZES FOR SYSTEM

CALL 964-3338 TO SCHEDULE INSPECTIONS

VALID FOR ONE YEAR

DATE: 6/29/94

XXX SINGLE FAMILY RESIDENCE

\_\_\_\_\_ INSTITUTION LESS THAN 500 GALLONS PER DAY

\_\_\_\_\_ INSTITUTION GREATER THAN 500 GALLONS PER DAY PER ENGINEER OR SANITARIAN DESIGN

\_\_\_\_\_ ALTERNATIVE SYSTEMS PER ENGINEER OR SANITARIAN DESIGN

PERMIT # 74274 OWNER RICK REED LOT 2

SUBDIVISION DOHERTY ESTATES STREET HUECO SPRINGS LOOP ROAD

APPROVED MINIMUM SIZES:

1250 GALLON TANK \_\_\_\_\_ SQ. FT.. DRAINFIELDS OR 900 SQ. FT. TRENCH (18"-36" WIDE)

\_\_\_\_\_ SPECIAL CONDITIONS \_\_\_\_\_

White - ORIGINAL

Pink - FILE

## ON-SITE SEWERAGE FACILITY DESIGN

FOR: Rick Reed  
214 Elmwood  
New Braunfels, Texas 78130  
Phone # 625-5323

LOCATION: On-Site Sewerage Facility Design:  
Hueco Springs Loop Road  
Lot 2  
Doherty Estates Subdivision

DEVELOPMENT: Proposed three (3) bedroom two & one-half (2 1/2) bath residence.

SEPTIC TANK: A 1250 gallon two (2) compartment septic tank receiving all household wastewater shall be installed as indicated on the design. (SEE FIGURE I) The tank shall meet and be installed as per the "Rules For On-Site Sewage Facilities, Comal County, Texas".

SOIL PROFILE: 0" - 6" grey brown loamy clay with small sized limestone fragments. 6" - 18" soft limestone with grey loam intrusions and some large limestone fragments.

PERCOLATION RATE: 23 MIN/IN.

ABSORPTION SYSTEM: The absorption system shall consist of 300 linear feet of perforated pipe installed in 36 inch wide trenches to equal 900 square feet of absorption area. The trench and the pipe shall be installed at a level grade for each respective trench and shall be as the typical in FIGURE III. The trenches shall consist of a serial type distribution system as indicated on the attached design and depicted in FIGURE V. The location of the trenches has been staked and is shown on the attached design, however the location may be varied slightly by the installer to best fit the contours as long as the length, width, minimum square feet specified, and all other required set backs are maintained.

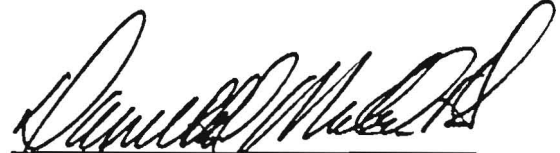
Reed  
Page 2.

**DESIGN CRITERIA:** The design of this sewage facility is being based on that of a four (4) bedroom residence consisting of approximately 2695 square feet of living area.

**REMARKS:** This property is located on the Edwards Re-charge Zone in Comal County, Texas. The area selected for the proposed absorption trenches is the most practical site. If it is determined by the Licensing Authority or installer that the facility must be relocated to another site on the property, then a revision to the attached design shall be required.

**CERTIFICATION:** The referenced site has been evaluated and the on-site sewerage facility has been designed generally following the requirements given in the Texas Department of Health's "Construction Standards For On-Site Sewerage Facilities," and the "Rules For On-Site Sewerage Facilities, Comal County, Texas." The site evaluation and designed are based upon technical information available today. The proper performance of and on-site sewage facility cannot be guaranteed even though all provisions of the "Standards" and "Rules" have been met.

**DATE:** June 4, 1994



Darnell D. Michel, R.S.  
Professional Sanitarian

**Attachments**

HUECO SPRINGS LOOP ROAD 1442

N  
= 30'  
Scale: 1" = 30'  
DATE: 6-5-94

Install:  
One - 1250g  
Two Compartment  
Septic TANK

PROPOSED  
Residence

DRIVE WAY

ENTRANCE  
EXIT

150' Radius  
FOR WATER WELL

DESIGNED FOR:  
Rick Reed  
214 Elmwood  
New Braunfels, TX 78131

Property Location:  
1442 Hueco Springs Loop  
New Braunfels, TX 78131  
Lot #2, Doherty Sub

J

Install:  
300 L.F. of 36" wide trench  
to Equal 900 S.F. of  
Absorption Trench Area

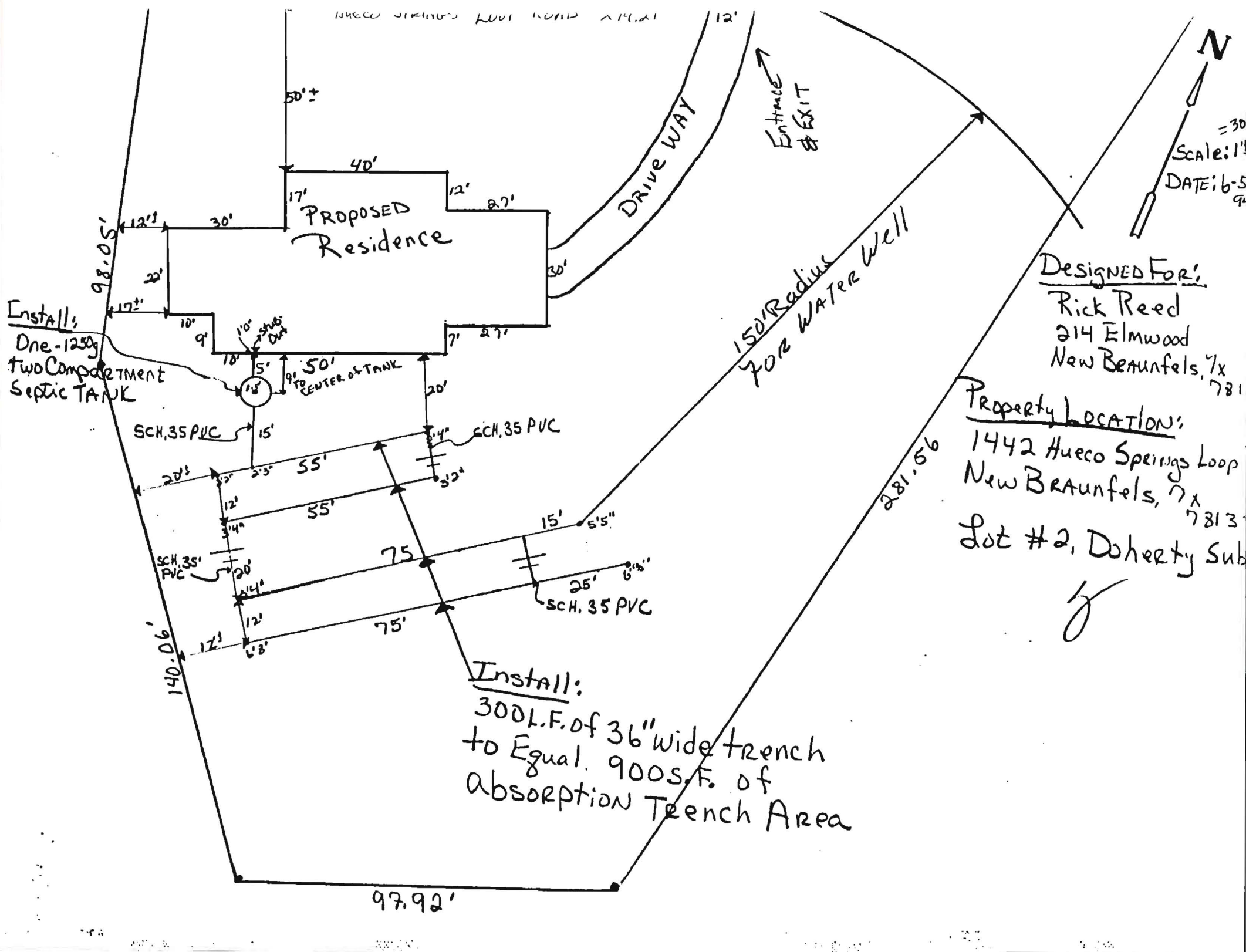


FIGURE 1

TYPICAL TWO COMPARTMENT SEPTIC TANK

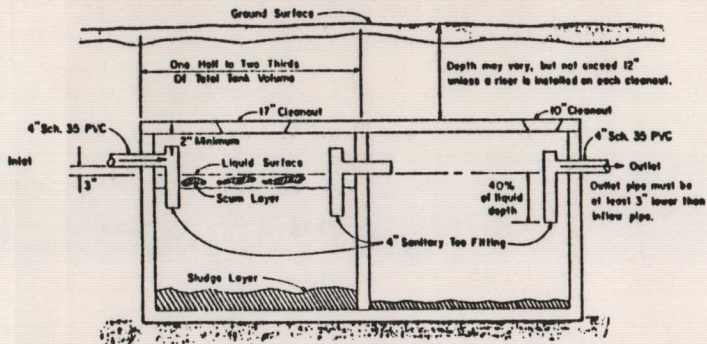


FIGURE 3

ABSORPTION TRENCH DETAIL

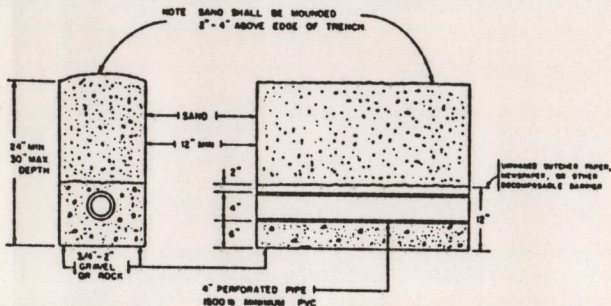


FIGURE 5

ABSORPTION SYSTEM CONSTRUCTION SLOPING TOPOGRAPHY

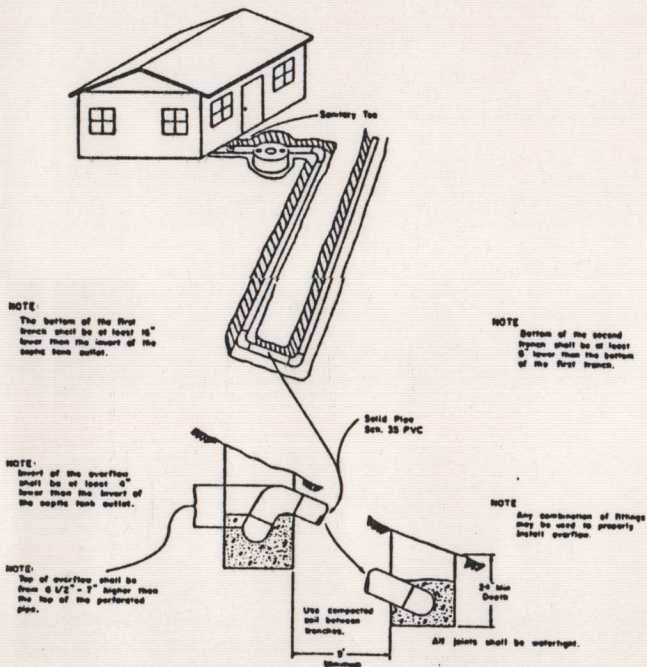


FIGURE 2

TWO SEPTIC TANKS IN SERIES

FIRST TANK OR COMPARTMENT SHALL BE AT LEAST AS LARGE AS OR LARGER THAN SECOND TANK OR COMPARTMENT

LIQUID SURFACE IS THE SAME LEVEL IN BOTH TANKS

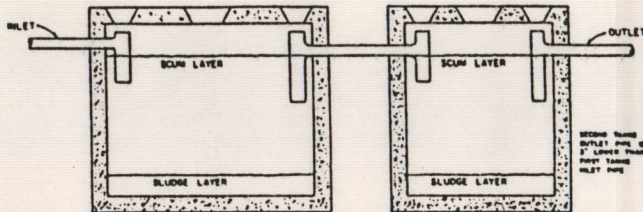


FIGURE 4

LOOP TYPE ABSORPTION SYSTEM

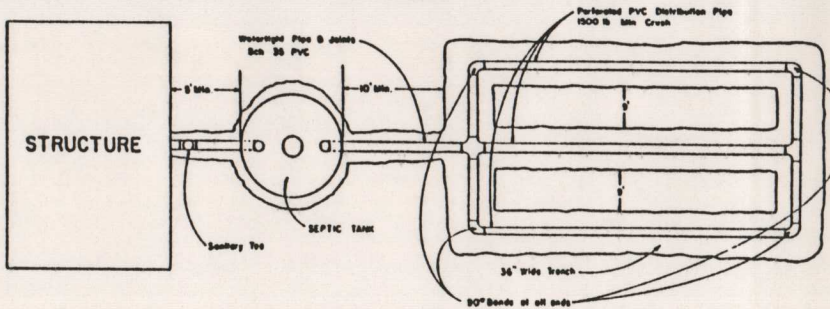


FIGURE 6

SOIL ABSORPTION BED DETAILS

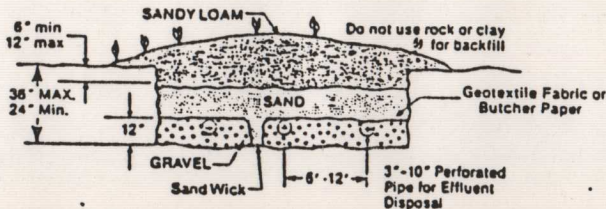
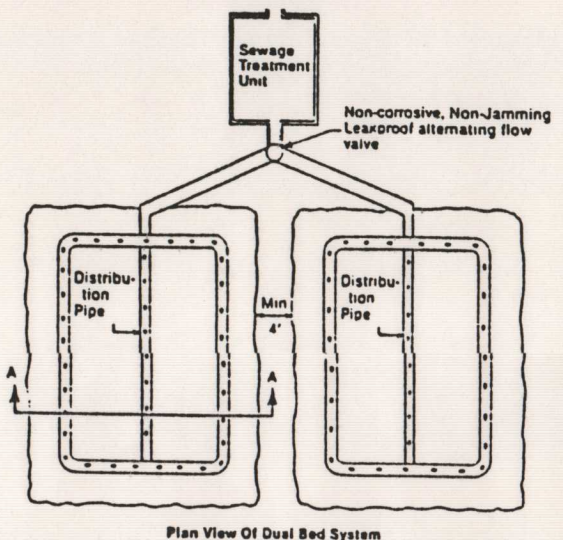


TABLE I  
MINIMUM REQUIRED DISTANCES IN FEET FOR CONVENTIONAL SYSTEMS

From	To:	Sewage Treatment Tanks	Unlined Trenches	Soil Absorption Systems or Unlined Evapo. Beds	Sewer Pipe Min. Spacing
Private Water Wells, Underground Cisterns and Pump Suction Pipes		30'	150'	150'	20'
Public Water Wells		30'	150'	150'	20'
Water Supply Lines		10'	10'	10'	9'
Streams, Ponds and Lakes		30'	75'	75'	20'
Sharp Slopes, Breaks		3'	var.	30''	3'
Foundations, Structures and Surface Improvements		3'	3'	15'	—
Property Lines		10'	10'	10'	—
Basement Lines		1'	1'	3''	—
Soil Absorption Systems		3'	3'	20'	—
Swimming Pools		15'	15'	15'	—

\* When a leak detection system, as described in Sec. 301.13 (c)(3)(A)(i)(v)(a)-(i) is used, the minimum required distance is 50 feet to existing private water wells, cisterns and pump suction pipes.

\*\* For these minimum required distances may be varied if an innovative lined system is required by the permitting authority to be designed by a Registered Professional Engineer or Registered Professional Sanitarian.

\*\*\* The absorption system's bottom must be a minimum of 50 feet from any break or outcropping ledge, unless it is designed by a Registered Professional Engineer or a Registered Professional Sanitarian having hydrogeological data of the strata below the system's site. Graywater disposal areas may be located to within 25 ft. of the slope face.

\*\*\*\* A drainage easement having sloped sides greater than 30% or grade breaks will require reference to the 50 foot criteria indicated by \*\*.

\*\*\*\*\* The distance may be reduced to a minimum of 30 feet, for existing private water wells only, if the space between the existing private water well casing and the surrounding ground is filled with cement slurry that is pumped through a tube that extends to the required depth of sealing. The depth shall be at least two times the horizontal attachment measurement but not more than the depth to the water producing strata. A three foot square by six inch thick concrete slab shall be poured around the casing.

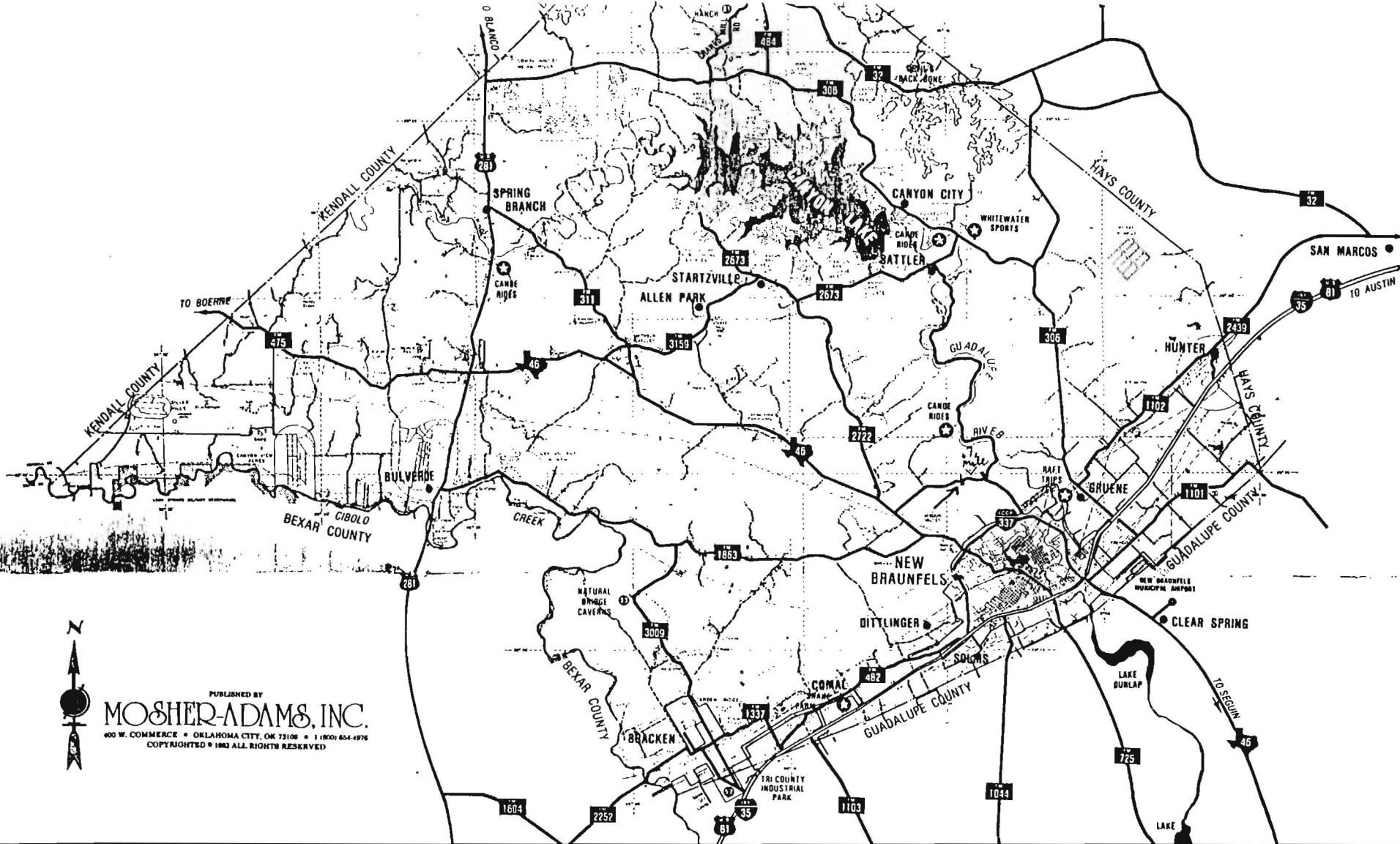
TABLE II

SEPTIC TANK MINIMUM LIQUID CAPACITIES

NUMBER OF BEDROOMS	SEPTIC TANK CAPACITY (Gallons)
Two or less	750
Three	1,000
Four	1,250
For Each Additional	250

NOTE: The Inside Liquid Depth Of The Tank Shall Not Be Less Than 30 Inches.





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**MOSEHER-ADAMS, INC.**  
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**STREET**



ACADEMY AVE N.	F-4	BRENTWOOD	O-3	CLEARWATER DR	O-8	EAST AVE M.	F-6	GARDEN DR	H-3	HANZ DR	E
ACADEMY S.	G-4/H-4	BRIARWOOD	D-3	CLEMENS AVE	G-4	EAST AVE S.	F-6	GARDEN E.	G-5	HAYSELTON	E
ACORN DR	E-4	BRIDGE E.	F-4	CLOVER CIR	H-3	EASTLAWN DR	H-5	GARDEN W.	G-4	HEATHER	H
ALBERT ST	E-6	BRIDGE W.	G-3/G-2	COLE AVE N.	E-4	EASTMAN AVE	H-2	GARDENIA DR	H-3	HEINEN LN	F
ALLEN AVE	E-4	BROADWAY	G-6	COLL E.	G-5	EDEN DR	E-5	GARZA E.	E-5	HELEN DR	J
ALLISON DR	J-3	BOBOLINK	H-5	COLL W.	G-4	EDGEWATER TER	E-5	GARZA W.	F-5	HERRY CT	J
ALVES LN	J-7	BOENIG AVE	G-4	COLOGNE CV	G-7	GIESECK DR	G-5	GILBERT	F-5	HICKORY N. AVE	G
AMBER ARC	D-4	BOOKER AVE	E-6	COLOGNE DR	G-7	GILBERT	F-4	GILBERT AVE	F-5	HICKORY S. AVE	G
AMERICAN	E-5	BOONEVILLE	E-4	COLVIN	G-4	GLORIA	F-3	GILBERT AVE	F-3	HIDALGO N.	G
ARMORY DR	H-2	BUTCHER	G-4	COMAL AVE	G-5	GODE	H-3	GILBERT AVE	F-3	HIDEAWAY	H
ANHALT CV	G-7	BUTTERCUP	F-7	COMAL AVE	F-5	GOLF COURSE DR	E-4	GILBERT AVE	F-3	HILL AVE	F
ANHALT DR	G-7			COMMON ST E.	F-6	GONZALES CT	J-5	GILBERT AVE	F-3	HILL CREST DR	F
ANNE LOUISE DR	J-7			COMMON ST	F-6	GRANADA	H-5	GILBERT AVE	F-3	HILLTOP	G
AGARITA TR	D-7			CONCEPCION AVE	G-2	GRANDVIEW	E-3	GILBERT AVE	F-3	HILLVIEW AVE	H
ASHMORE	Q-5	CADDELL LN	H-7	CONSOLIDATED	H-6	GRANT AVE S.	F-5	GILBERT AVE	F-3	HINMAN ISLAND DR	F
AUSTIN E.	E-5	CALIFORNIA BLVD	D-4	COUNTRY LINE RD	J1 thru J-6	GRAPE AVE S.	G-2	GILBERT AVE	F-3	HOLLY ST	J
AUSTIN W.	E-5	CAMELLIA	H-3	COUNTRY CLUB CIR	E-4	GRAPE AVE S. LN	G-2	GILBERT AVE	F-3	HOLLYHOCK LN	H-3
AVE A	G-4	CAMP ST E.	F-5	CREEK DR	F-3	GREEN VALLEY E.	J-5	GILBERT AVE	F-3	HONEY SUCKLE LN	J-3
AZALEA LN	F-7	CANDLEWOOD	F-6	CREST LN	F-6	GREEN VALLEY W.	H-4	GILBERT AVE	F-3	HOUSTON AVE	E-5
		CARDINAL	E-3	CROCKETT CT	J-5	GROOS	H-5	GILBERT AVE	F-3	HOUSTON AVE N	F-5
		CARDONA	H-5	CROSS ST	G-4/G-3	GRUENE DR	G-7	GILBERT AVE	F-3	HOUSTON AVE S	F-5
		CARDOSA	H-5	CRYSTAL SPRINGS BEND	D-8			GILBERT AVE	F-3	HOWARD ST	F-4
		CARNATION LN	F-7					GILBERT AVE	F-3		
		CAYLE LN	F-4					GILBERT AVE	F-3		

Owner/Client Rick & Carolyn Reed  
Property Address 1476 Heuco Springs Road  
New Braunfels County Comal State Texas Zip Code 78130  
Broker Victoria Bank & Trust Company

**FLOOD MAP**

