

ON00023342

EL PASO COUNTY DEPARTMENT OF HEALTH AND ENVIRONMENT
INDIVIDUAL SEWAGE DISPOSAL SYSTEM INSPECTION FORM

Permit # 9786 P
Date 3/29/96

APPROVED: YES ☒ NO ☒ # 4126003005 ENVIRONMENTALIST McLarty

Address 110525 FANNIN CIRCLE Owner Bill Goodman

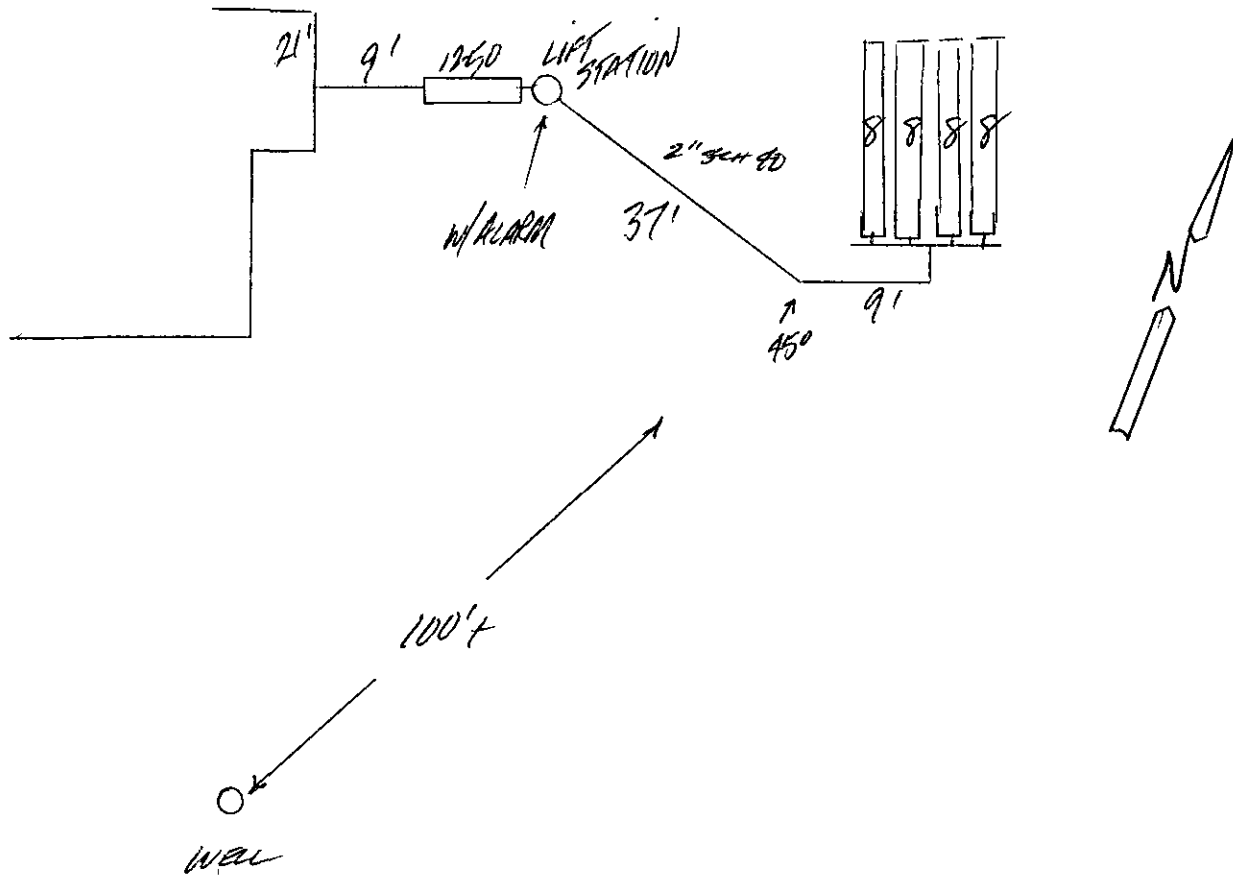
Legal Description LOT 253, REAR Fil. #1
Residence ☒ # of bedrooms 3; Commercial ☐; System Installer Murphy

SEPTIC TANK:
Commercial ☒; Noncommercial ☐ L , W , WD
Construction Material CONCRETE, capacity 1250 gallons.

DISPOSAL FIELD:
Rock Systems:
Trench: depth , width , total length , sq. feet
Bed: depth , length , width , sq. feet
Rock type , depth , under PVC , over PVC
Seepage Pits: # of pits , total # of rings , working depth(s)
size of pit(s) L X W , lining material , total sq. feet

Rockless Systems:
Chamber: Type INFILTRATOR, number of chambers 32, bed ☒ trench
sq. ft./section 18, reduction allowed N/A %, sq. ft. required *
total sq. ft. installed *, depth of installation
Engineer Design ☒ or N , Designing Engineer Hank Chalkley
Approval letter provided? ☒ or
Well 50 feet from tank ☒ or N 100 feet from leach field ☒ or N
Well installed at time of septic system inspection ☒ or N Public Water
*Approval will be revoked if in the future the well is found to be within 50 feet of the septic tank and/or 100 feet of the disposal field.

NOTES: - SEE ELECTRO SYSTEM AUDIO/VISUAL ALARM.
- DISCUSSED THE LOW SPOT BETWEEN THE PUMP AND LEACHFIELD
AND SHALLOW INSTALLATION MAY BE SUBJECT TO FREEZING;



Water Supply well

Permit 9786

PERMIT
TO CONSTRUCT, ALTER, REPAIR OR MODIFY ANY INDIVIDUAL SEWAGE DISPOSAL SYSTEM

Receipt No. JPC

Issued to BILL GOODMAN

Date 1-05-96

Address of Property 16525 FANNIN CIRCLE, LOT 253, REATA FIL. 1
495-0451 (Permit valid at this address only)

Phone 548-1139

Sewage-Disposal System work to be performed by JIM MUNSON

Phone 495-0451

This Permit is issued in accordance with 25-10-106 Colorado Revised Statutes 1973, as amended. PERMIT EXPIRES upon completion-installation of sewage-disposal system or at the end of twelve (12) months from date of issue- whichever occurs first-(unless work is in progress). This permit is revokable if all stated requirements are not met.

-THIS PERMIT DOES NOT DENOTE APPROVAL OF ZONING AND ACREAGE REQUIREMENTS-

\$150.00

PERMIT FEE (NOT REFUNDABLE)

1-5-97

[Signature]
DIRECTOR, DEPARTMENT OF HEALTH AND ENVIRONMENT

DATE OF EXPIRATION

[Signature]
ENVIRONMENTALIST

NOTE: LEAVE ENTIRE SEWAGE-DISPOSAL SYSTEM UNCOVERED FOR FINAL INSPECTION. 48 HOUR ADVANCE NOTICE REQUIRED.

SEPTIC TANK:	TRENCH SYSTEM:	BED SYSTEM:	SEEPAGE PIT SYSTEM:
total square feet	PER P.E. DESIGN		total square feet
1250	ft. of trench _____ inches wide _____		
gallons	ft. of trench _____ inches wide _____	total square feet _____	rings or _____ diam.x _____ w/d

NOTES: **System to be installed per regulations and engineer design. Ground water present at 42 inc**
Final approval pending written correspondence from engineer indicating the system was
inspected and approved by the engineer prior to our office granting approval.

The Health Office shall assume no responsibility in case of failure or inadequacy of a sewage-disposal system, beyond consulting in good faith with the property owner or representative. Free access to the property shall be authorized at reasonable time for the purpose of making such inspections as are necessary to determine compliance with requirements of this law.

520-6600
EL PASO COUNTY DEPARTMENT OF HEALTH AND ENVIRONMENT
301 South Union Boulevard
Colorado Springs, CO 80910-3123

APPLICATION FOR A PERMIT TO CONSTRUCT, REMODEL, OR INSTALL
A SEWAGE DISPOSAL SYSTEM

Name of Owner Bill Goodman Daytime Phone 548-1130
Address of Property 16525 Fannin Circle, Peyton, CO 80831 Date 12/15/95
Legal Description of Property Lot 253 Reata Filing # 1
Tax Schedule Number 4126003005 Septic Contractor/Phone 495-3151
Type of House Construction Wood Frame 2 Story Source of Water Well
Size of Lot 5 acres Basement (Y or N) Percolation Test Attached (Y or N)
MAXIMUM POTENTIAL NUMBER OF BEDROOMS 3 P.E. design

I have supplied a plot plan as described on the back of this form. I acknowledge the completeness of the application is conditional upon such further mandatory & additional tests & reports as may be required by the Department to be made & furnished by the applicant for purposes of evaluating the application, & issuance of the permit is subject to such terms & conditions as deemed necessary to ensure compliance with rules & regulations adopted pursuant to C.R.S. 1973, 10-25-101 et. seq. I hereby certify all statements made, information and reports submitted by me are or will be represented to be true & correct to the best of my knowledge & belief, & are designed to be relied on by the El Paso County Department of Health in evaluating the same for purposes of issuing the permit applied for herein. I further understand any falsification or misrepresentation may result in the denial of the application or revocation of any permit granted based upon said application & in legal action for perjury as provided by law.

OWNER'S SIGNATURE William Goodman

DEPARTMENT OF HEALTH USE ONLY

Absorption Area PER Engineer Tank Capacity 1250 gal Date/Site Inspection Jan 4, 96

Remarks: System to be installed per regulations, and
Engineer design. Ground water present at 42" inches.
Final approval pending written correspondence
from engineer indicating the system was
inspected and approved prior to our office
granting approval.
Approval pending final planning review.
Application is () approved () denied

Environmentalist Mykowski, S Date Jan 4, 96

Permit # 9786 Receipt # CPC Date to Planning Dept walk through
attached
1-8-96 JPC

PROPERTY AND PERC HOLES MUST BE CLEARLY MARKED/POSTED

The following information must be on your plot plan.
Please check () the items that apply.

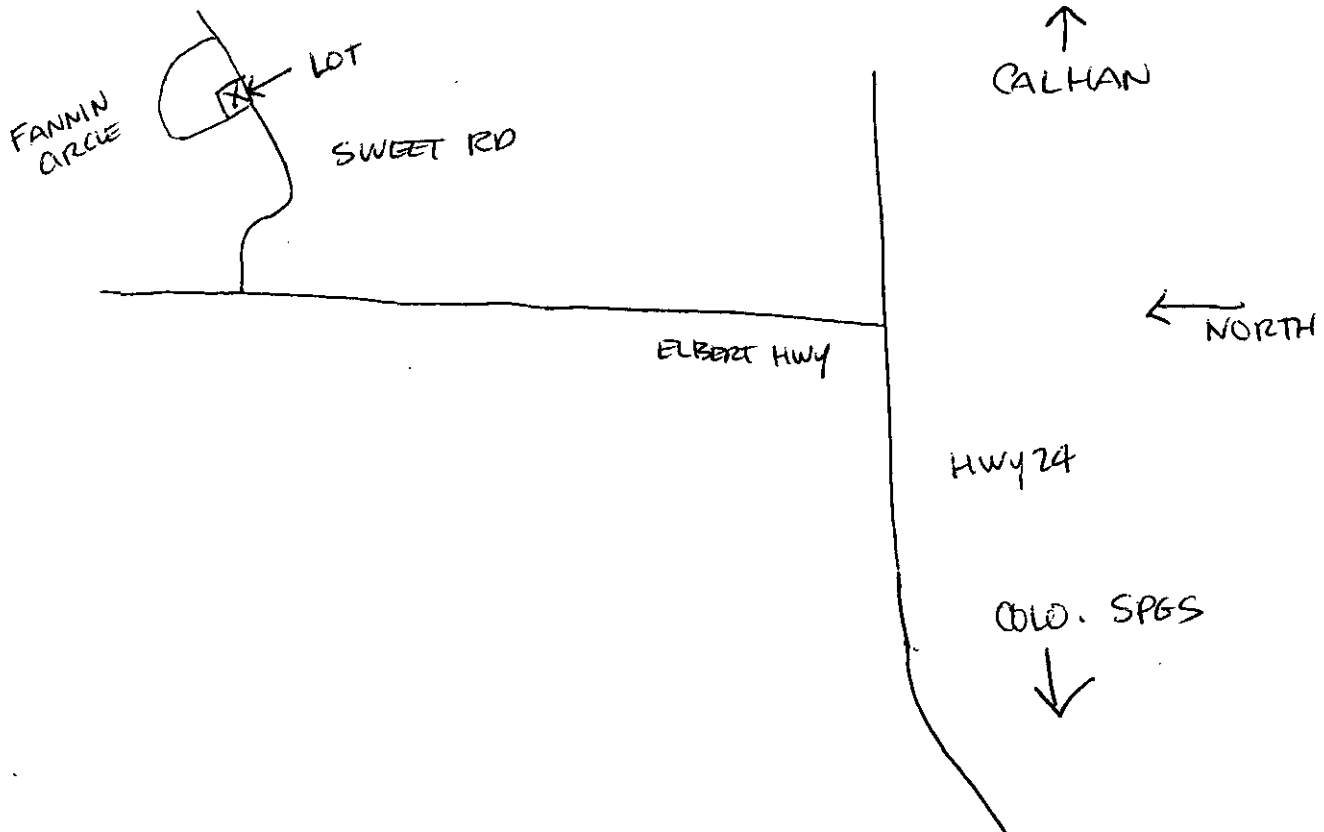
- (XX) Property Lines
- (XX) Property Dimensions
- (XX) Proposed Septic System Site
- (XX) Well(s)
- (NA) Adjacent Well(s)
- (NA) Building(s)
- (XX) Proposed Building(s)
- (XX) Water Line
- (NA) Cistern
- (NA) Subsoil Drain(s)

Are any of these within 100 feet of your proposed septic system (including adjoining property)? Also draw on the plot plan.

Spring(s) N/A
Lake(s) n/a
Pond(s) n/a
Stream(s) n/a
Dry Gulch(s) n/a
Natural Drainage Course(s) n/a

Give complete directions to the property from a main highway.

FROM HWY 24 EAST BOUND TURN NORTH ON ELBERT HWY TO SWEET ROAD. TURN EAST ON SWEET ROAD TO FANNIN CIRCLE. TURN LEFT. LOT IS ON THE RIGHT. CORNER LOT. ADDRESS IS MARKED ON LOT. (16525) FANNIN CIRCLE



Certified Perc

719-495-3502

719-495-3502

9/27/95

12:59 AM

2/14

16525 Fannin Circle

4126003005

E

DARLOW ENGINEERING CO. 03-29-96

3405 N. SINTON RD. #138

COLO. SPGS. COLO. 80907

(719) 633-9440

WATER LEVEL 42"

Depth

DEEP SOIL SAMPLE HOLE DESCRIPTION

0-12"	Loose, fine trace sand, very heavy silt/clay, dark gray, moist
12"-24"	Loose, fine trace sand, very heavy silt/clay, olive/gray, slightly moist
24"-36"	Loose, fine trace moderate sand, heavy silt/clay, olive/gray, slightly moist
36"-48"	Loose packed, fine trace moderate sand, moderate heavy silt/clay, rust/gray/red, mottled, moist
48"-60"	Packed, fine-medium trace sand, heavy silt/clay, rust/olive, mottled, moist
60"-72"	Hard packed, fine-medium trace sand, very heavy silt/clay, rust/olive, mottled, moist, (claystone)
72"-96"	Very hard packed, fine-medium trace sand, very heavy silt/clay, rust/olive, mottled, moist, (claystone)

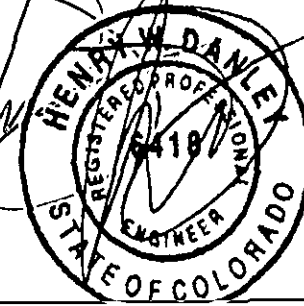
TIME	TEST HOLE #1		TEST HOLE #2		TEST HOLE #3		TEST HOLE #4		TEST HOLE #5		TEST HOLE #6	
	INCH	DROP	INCH	DROP	INCH	DROP	INCH	DROP	INCH	DROP	INCH	DROP
4:30												
4:45	24"	9/16	24"	3/16	24"	13/4						
5:00	24"	1/2	24"	1/8	24"	1 1/8						
5:15	24"	3/16	24"	1/8	24"	13/16						
5:30	24"	1/4	24"	1/8	24"	7/8						
5:45	24"	1/4	24"	3/16	24"	13/16						
6:00	24"	3/16	24"	1/8	24"	7/8						
	MIN./INCH		MIN./INCH		MIN./INCH		MIN./INCH		MIN./INCH		MIN./INCH	
	32.4		120		17.1							

all ratification subject to final approval by your local health dept.

	DATE	TIME
DRILL	9/22/95	11:00 AM
FILL	9/23/95	3:30 PM
TEST	9/23/95	4:30 PM

CUSTOMER & LOCATION	
COLORADO HOME BUILDERS	
16525 Fannin Cir.	
ALL TESTS SUBJECT TO FINAL APPROVAL OF YOUR LOCAL HEALTH DEPT.	

AVERAGE: 56.5 MIN./INCH



SEPTIC SYSTEM FOR
10525 FANNEN CIR
COLORADO HOME BUILDERS
EL PASO COUNTY, CO

INFORMATION:

PERC TEST 56.5 MINS/INCH

NUMBER OF BEDROOMS = 3

CONSUMPTION = $3 \times 150 \times 1.5 = 675 \text{ G/D}$

$$\text{BASEL AREA REQ'D} = A = \frac{675(\sqrt{56.5})}{5} \\ = 1015 \text{ sq'}$$

$$\text{BED AREA REQ'D} = 675 / 1.2 \text{ GAL/DAY} \\ = 563 \text{ sq'}$$

$$\text{NUMBER OF INFILTRATORS (OR} \\ \text{BIODIFFUSERS)} = 563 \text{ sq' / } 18 \text{ sq' EACH} \\ = 32$$

USE 4 ROWS OF 8 EACH

* (NO REDUCTION BECAUSE OF SOIL
CONDITIONS)

SLOPE = FLAT

WATER LEVEL IS AT 48"

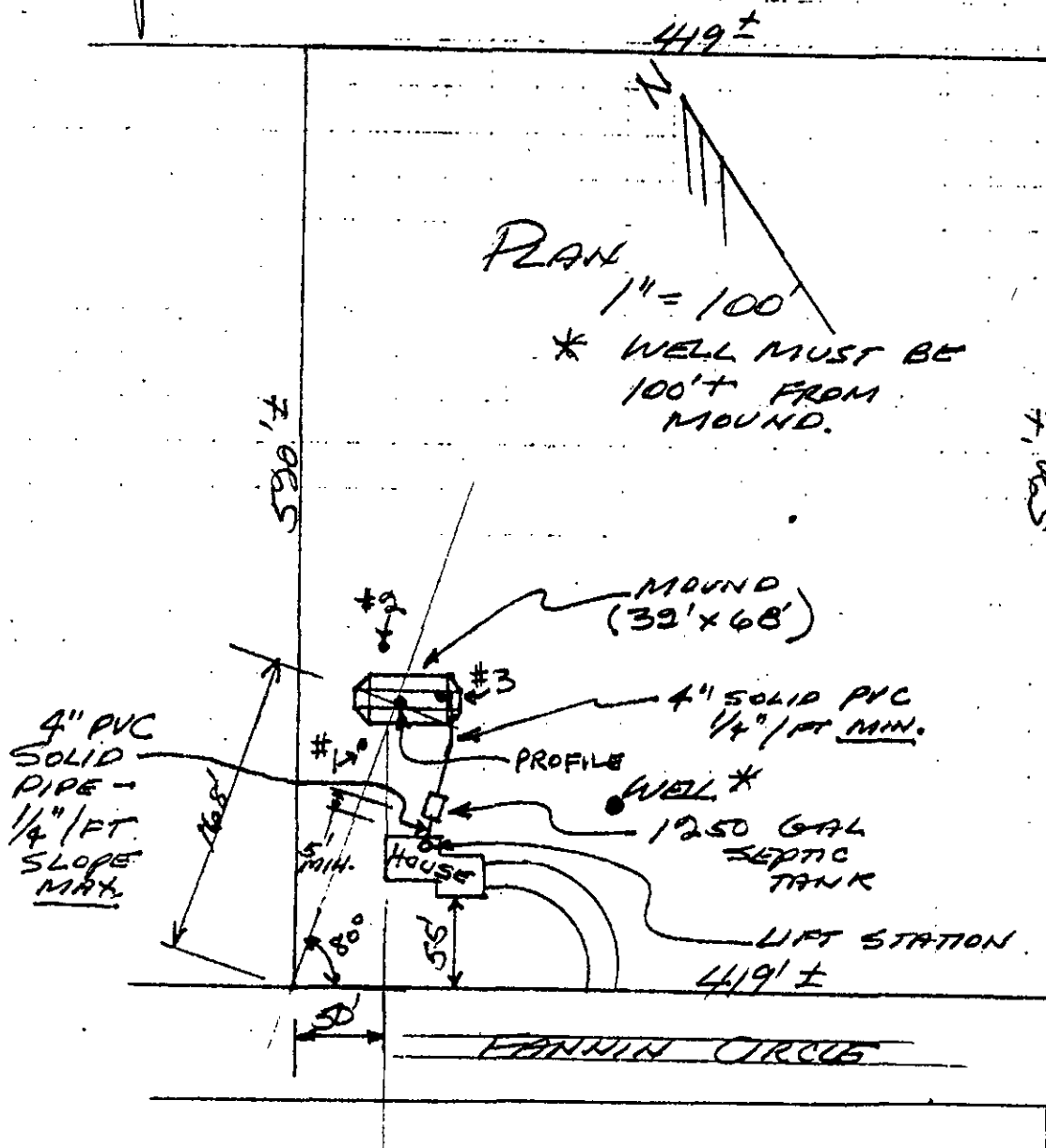
(SYSTEM MUST BE 48" MIN ABOVE
WATER LEVEL)

Darlow Engineering
Hank Danley P.E.
3405 Sinton Rd. #138
Springs, CO 80907
(719) 598-660



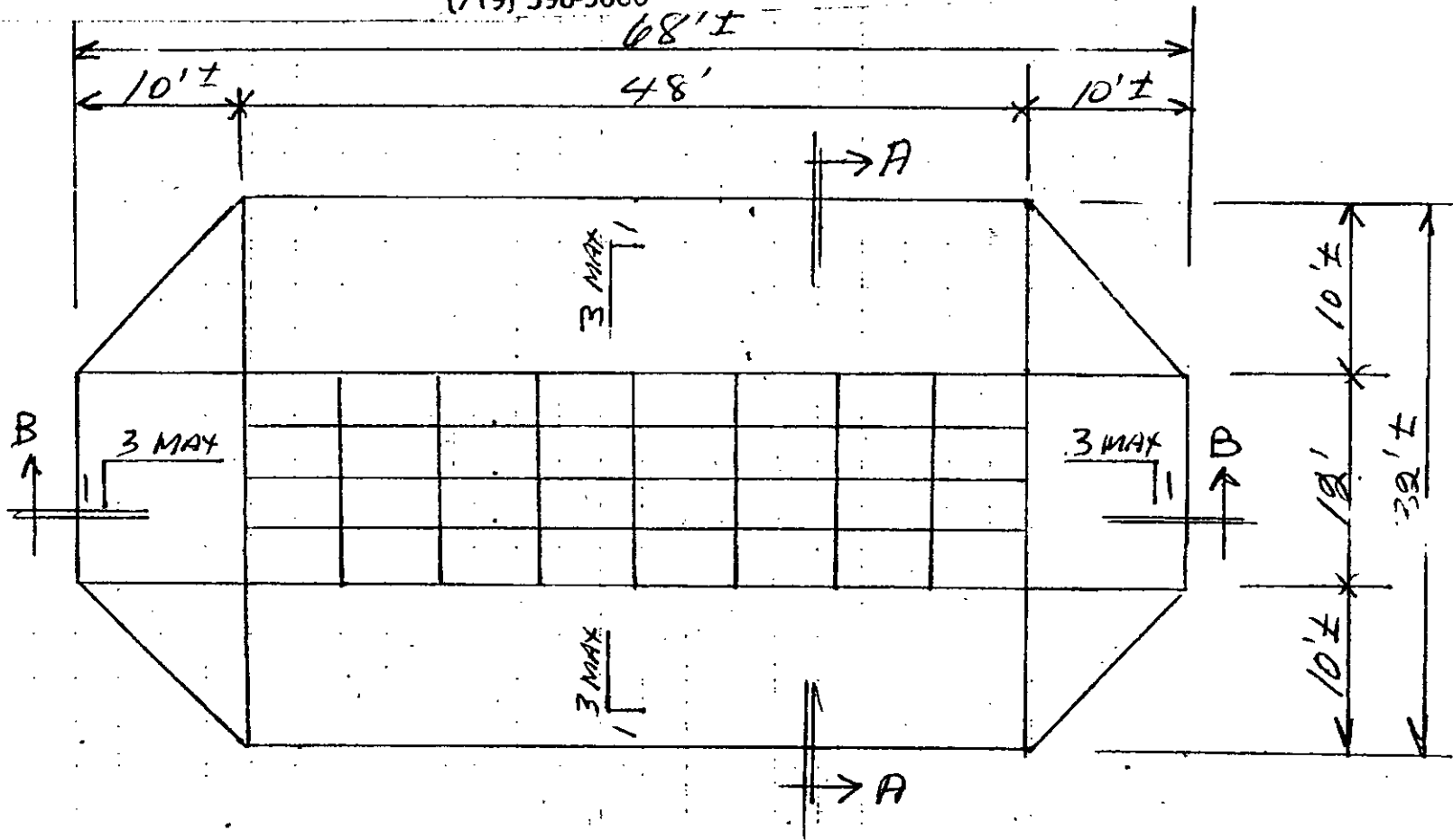
SEPTIC SYSTEM - 16525
FANNIN CIRCLE - GOODMAN
RESIDENCE - EL PASO
COUNTY, CO. (CON'T)

Darlow Engineering
Hank Danley P.E.
3405 Sinton Rd. #138
Colorado Springs, CO 80907
(719) 598-5660



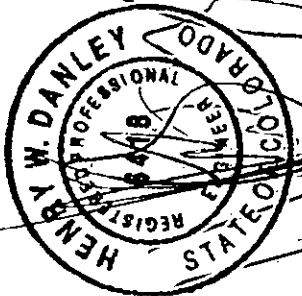
Darlow Engineering
 Hank Danley P.E.
 3405 Sinton Rd. #138
 Colorado Springs, CO 80907
 (719) 598-5660

Septic System - 16525-
 FANNIN CIRCUIT - GOODMAN
 RESIDENCE -
 EL PASO COUNTY, CO.
 (CON'T)



PLAN OF ABSORPTION BED
 N.T.S.

$$\begin{aligned} \text{BASEL AREA} &= (32' \times 48') + (2 \times 10' \times 12') + (2 \times 10' \times 10') \\ &= 1976 \text{ sq ft} > 1015 \text{ sq ft} \quad \text{OK} \end{aligned}$$



To My Customer:

I thought it might be helpful to you to know a little bit about the percolation test process. After all, you're paying for this and I always feel better if I understand what I'm paying for. So here is a brief look at what you're getting for your money.

What is a Percolation Test? The percolation test consists of several steps. In the area where the septic system is to be installed, an 8 foot hole is drilled. The soils are examined visually as they are augured, so that a description of the soil at different levels can be made. This is called the profile hole. Comments are made concerning type of material and depth at which any change is observed. The presence of water, if detected, is also noted.

Three other holes are drilled around the profile. These are drilled to the appropriate depth for the expected septic installation; usually 3 feet. They are filled with water and left to soak for approximately 24 hours. They are then cleaned, refilled and soaked for approximately another hour. Then they are refilled, and the rate at which the water level drops in each hole is recorded. This will tell how fast the water percolates through the surrounding soil. An "inch per hour" value is calculated from these readings.

What does this information do for me? The rate of percolation tells the septic designer and/or installer how well the system should function. It tells him how large the system must be and if a specially designed system is needed. If the percolation rate is too slow, special care must be given, since the effluent will move through the system too slowly, backing up into your house or yard. If the percolation rate is too fast, effluent may move through too quickly, possibly, entering the water system before fully purified by soil filtering. Since it's better to have a proper design now than to replace it later, an accurate percolation test is a very desirable thing.

A percolation test is not only a good idea, but is required by the County Health Department in almost every county in Colorado before the issuing of a septic installation permit.

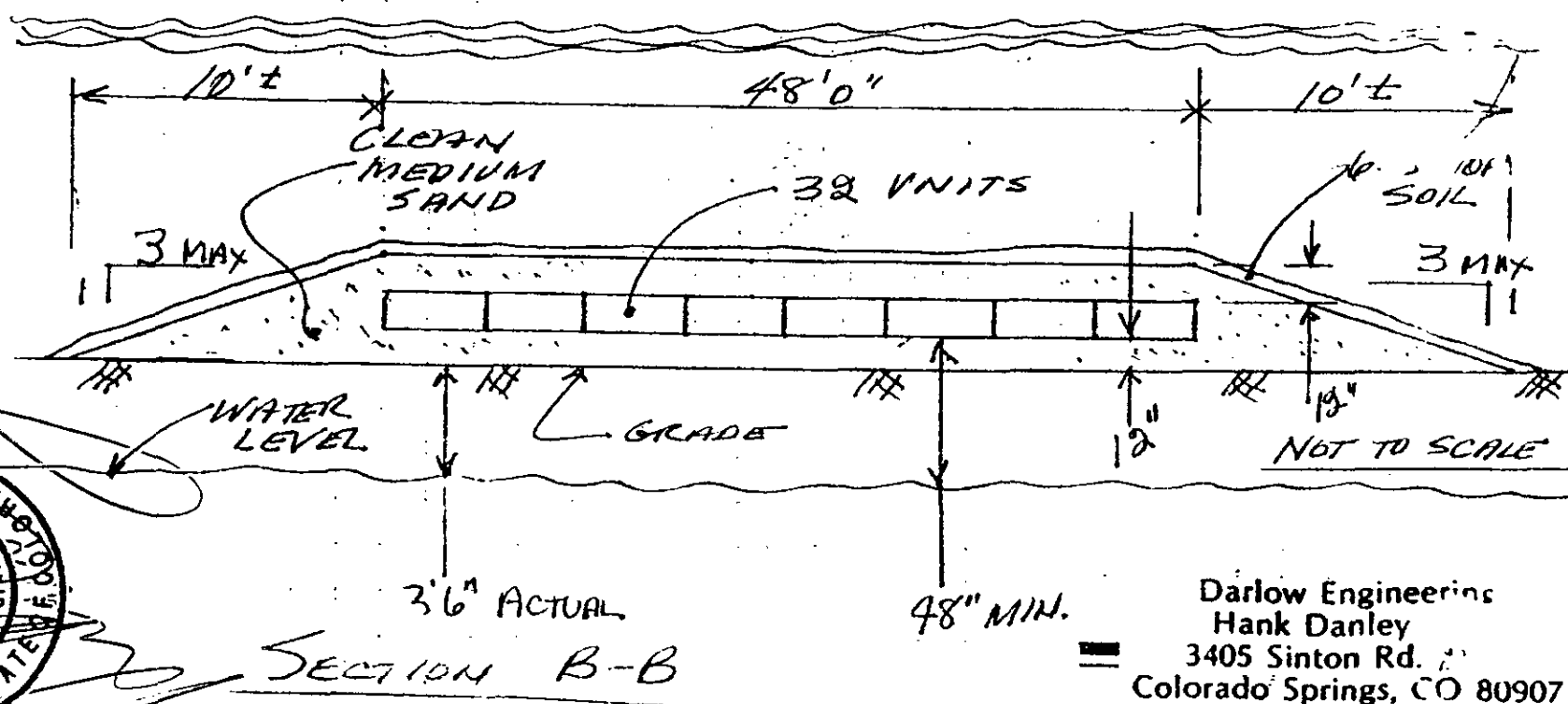
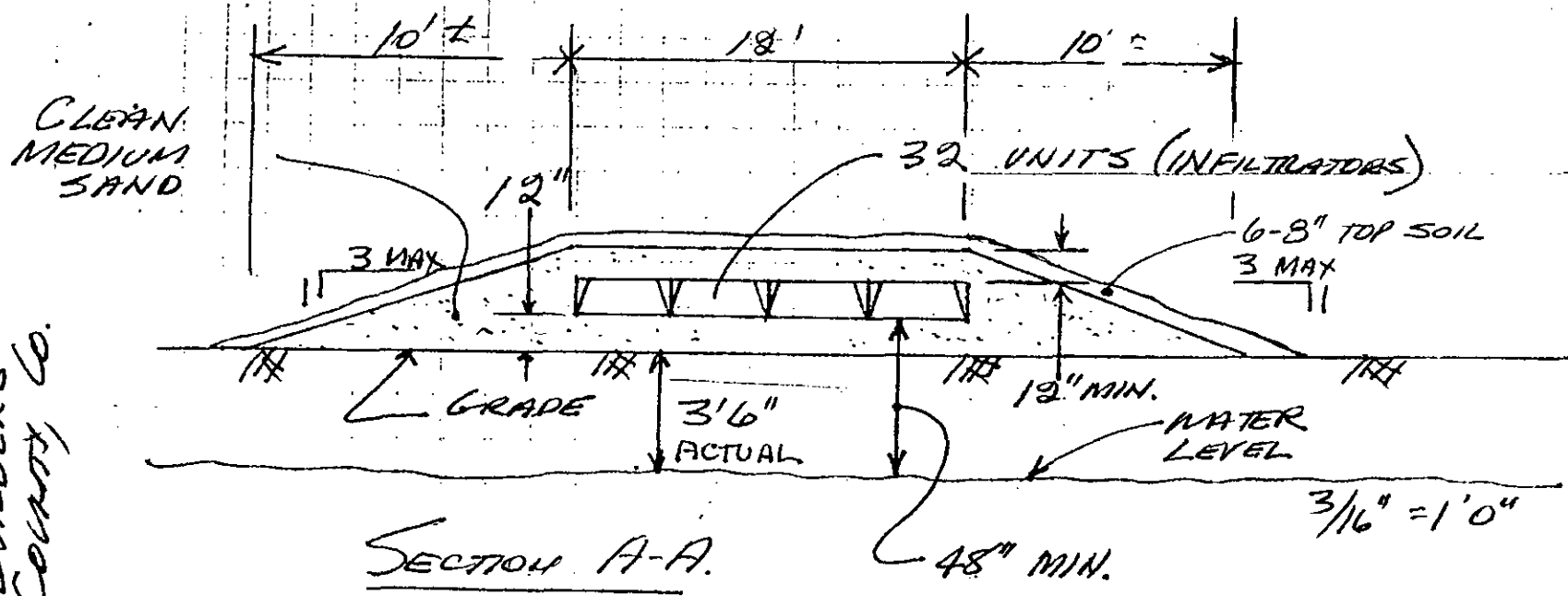
Does a percolation test then insure a perfectly functioning septic system? The health department has done their best to put in place guidelines that will allow proper design. We work hard to give you valid information and conform to health department standards. All conscientious designers and installers are careful to comply with health department requirements. All these factors are designed to minimize your risk.

However, there is still no surety that all will be perfect. Soil conditions can vary tremendously within a few feet. Outstanding percolation test results may occur inches from an area that would have failed and is part of the installation area. Also, conditions in the soil can change regarding underground water flow and other factors. Therefore, although everything reasonable is done to minimize your risk and to employ the best techniques known at this time, there is no absolute guarantee.

I hope this has been of some help. If you have any further questions, please let me know.

Darlow Engineering
Certified Perc Test

SEPTIC SYSTEM FOR
16525 FARMER CIR.
COLO. HOME BUILDERS
EL PASO COUNTY, CO.



Darlow Engineering
Hank Danley
3405 Sinton Rd.
Colorado Springs, CO 80907
(719) 598-5660

Darlow Engineering
Hank Danley P.E.
3405 Sinton Rd. #138
Colorado Springs, CO 80907
Office (719) 598-5660
Home (719) 633-9440

Construction

a) Site preparation

Good construction techniques are essential if the mound is to function properly. The following techniques should be considered.

- Step #1 Rope off the site to prevent damage to the area during other construction activity on the lot. Vehicular traffic over the area should be prohibited to avoid soil compaction.
 - Step #2 Stake out the mound perimeter and bed in the proper orientation. Reference stakes set some distance from the mound perimeter are also required in case the corner stakes are disturbed.
 - Step #3 Cut and remove any excessive vegetation. Trees should be cut at ground surface and the stumps left in place.
 - Step #4 Measure the average ground elevation along the upslope edge of the bed to determine the bottom elevation of the bed.
 - Step #5 Plow the area within the mound perimeter. Use a two bottom or larger moldboard plow, plowing 7-8" deep parallel to the contour. Single bottom plows should not be used as the trace wheel runs in every furrow, compacting the soil. Each furrow should be thrown upslope. A chisel plow may be used in place of a moldboard plow. Roughening the surface with backhoe teeth may be satisfactory, especially in wooded sites with stumps. Rototilling is not recommended because of the damage it does to the soil structure. However, rototilling may be used in granular soils, such as sands.
- Plowing should not be done when the soil is too wet. Smearing and compaction of the soil will occur. If a sample of the soil taken from the plow depth forms a wire when rolled between the palms, the soil is too wet. If it crumbles, plowing may proceed.

Darlow Engineering
Hank Danley P.E.
3405 Sinton Rd. #138
Colorado Springs, CO 80907
Office (719) 598-5660
Home (719) 633-9440

Construction (Sheet #2)

Fill Placement

- Step #1 Place the fill material on the upslope edges of the plowed area. Keep trucks off the plowed area. Minimize traffic on the downslope side.
- Step #2 Move the fill material into place using a small track type tractor with a blade. Always keep a minimum of 6 inches of material beneath the tracks of the tractor to minimize compaction of the natural soil. The fill material should be worked in this manner until the height of the fill reaches the elevation of the top of the absorption bed.
- Step #3 With the blade of the tractor, form the absorption bed. hand level the bottom of the bed, checking it for the proper elevation. Shape the sides to the desired slope.

Covering

- Step #1 Place a finer textured soil material such as clay or silt loam over the top of the bed to a minimum depth of 6 inches.
- Step #2 Place 6 inches of good quality topsoil over the entire mound surface.
- Step #3 Plant grass over the entire mound using grasses adapted to the area. Shrubs can be planted around the base and up to the side slopes. Shrubs should be somewhat moisture tolerant since the downslope perimeter may become moist during early spring and late fall. Plantings on top of the mound should be drought tolerant, as the upper portion of the mound can become dry during the summer.

LOCATION OF SAND



REYTON
Hwy

HWY 24

CALHAN

JUDGE ORR RD

LOG ROAD
↓

FALCON HWY

CREEK.

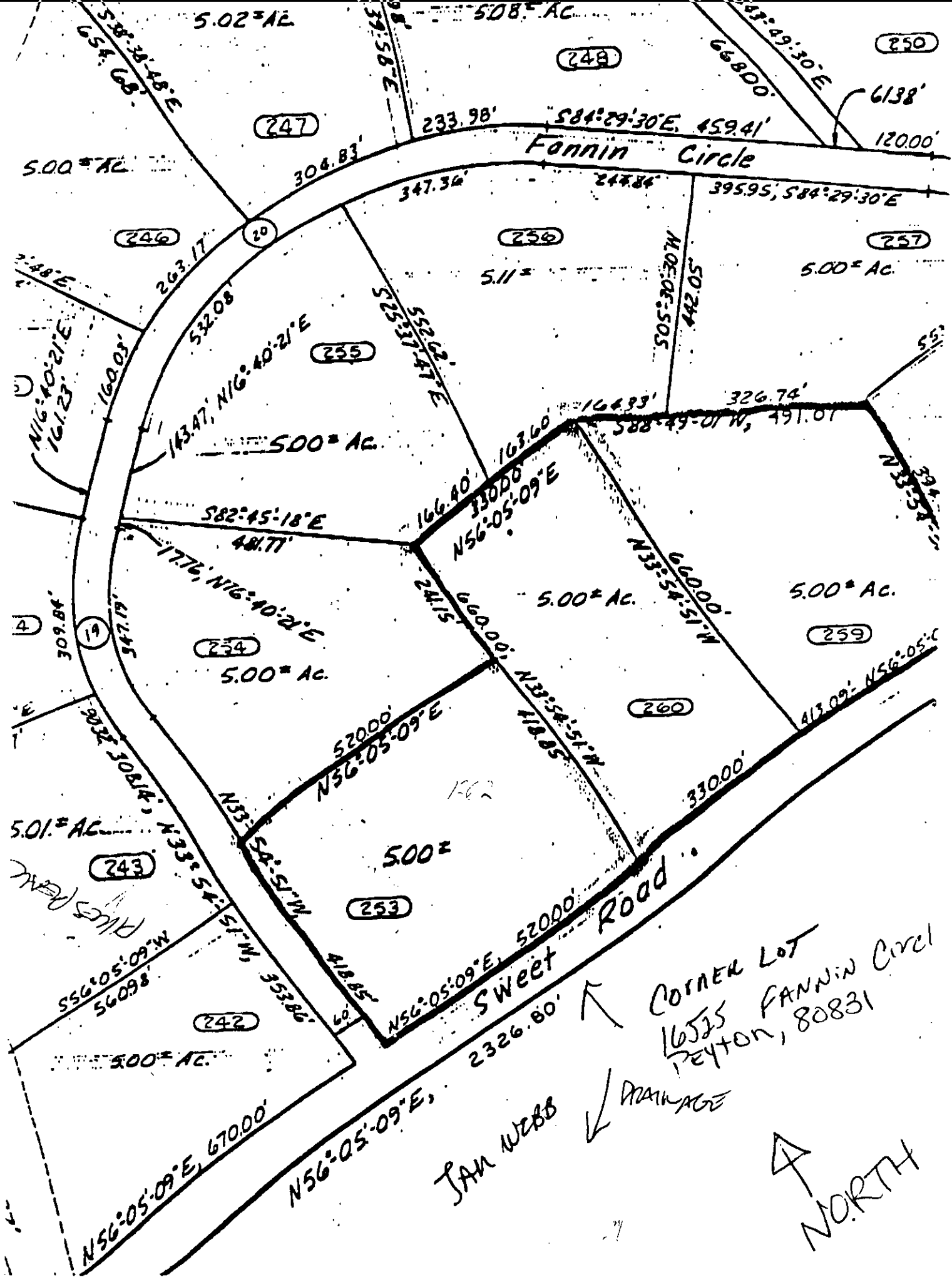
~~LOG~~

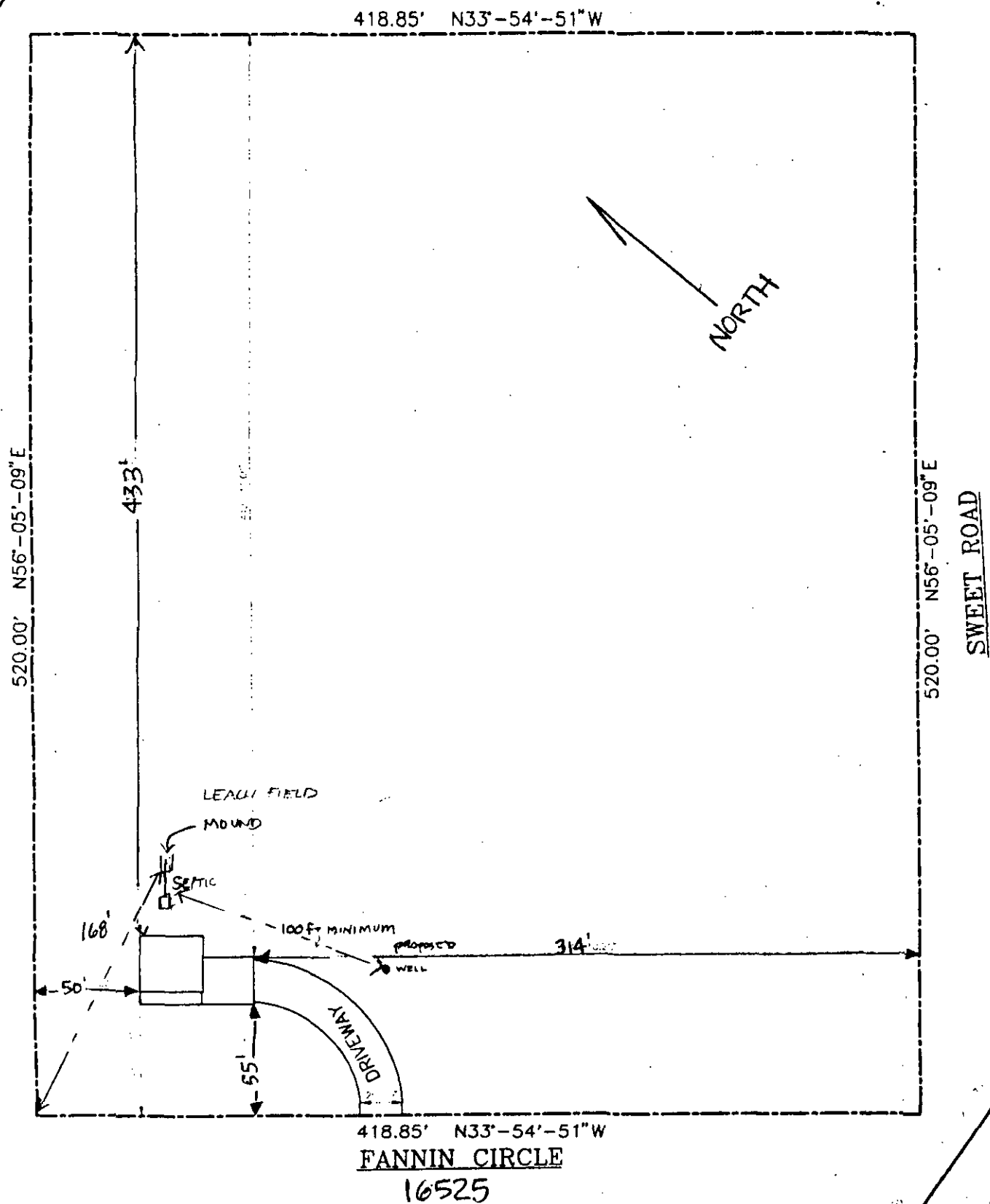
SAND
PIT

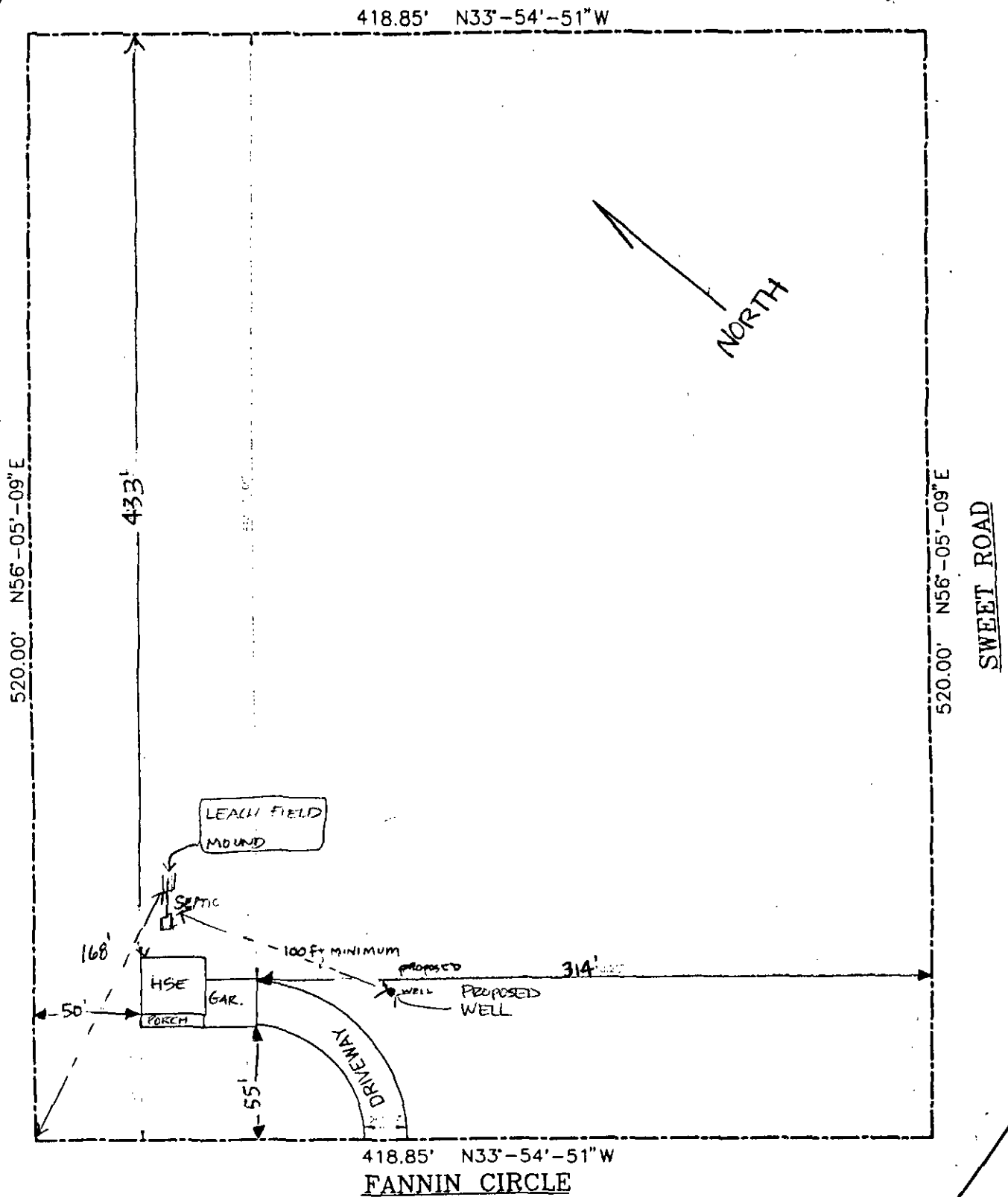
(WV)

JONES RD

1/8 MILE □

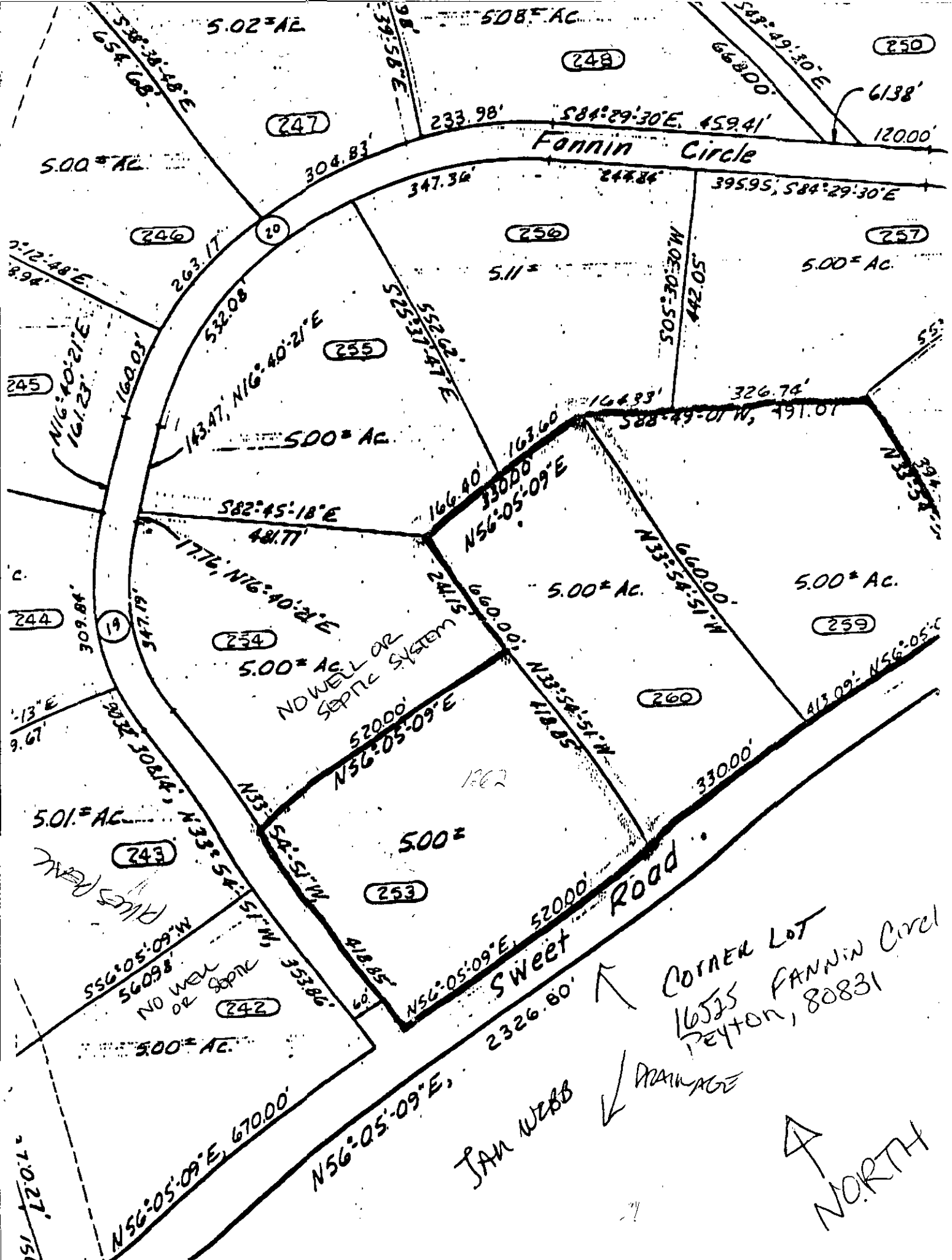






16525

PROPOSED RESIDENCE
PROPOSED WELL
PROPOSED SEPTIC SYSTEM



CORNER LOT
16525 FANNIN CIRCLE
PEYTON, 80831

JAN WEBB

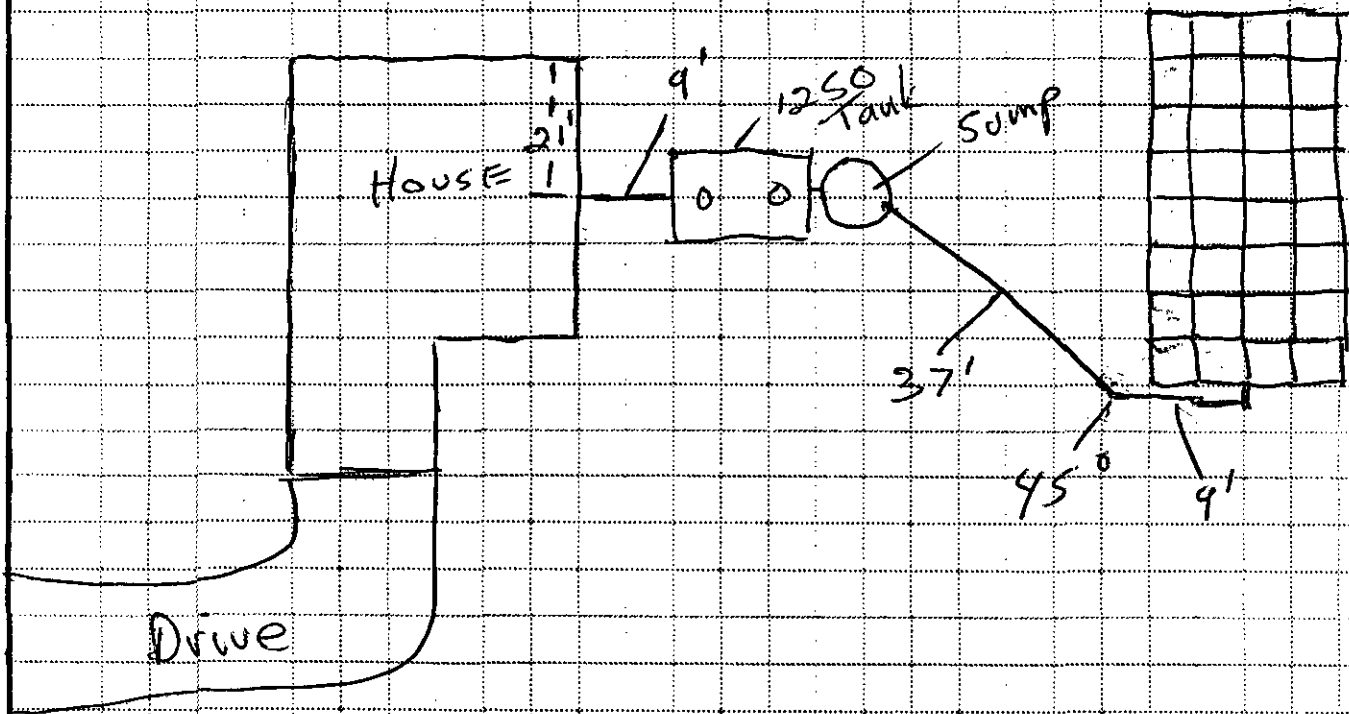
DRAINAGE

NORTH



Onsite System
As-Built
Drawing

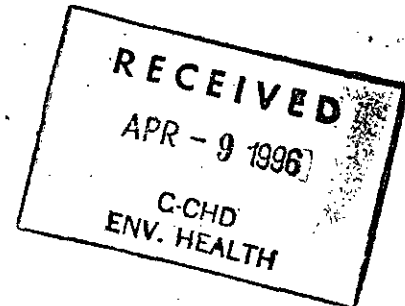
Property Address 16525 Fanning Cir
Permit # _____
Date System Completed 3-28-96
Installer's Name Munson
Installer's License # 31
Installer's Address and Phone 4950451



MONSON

Hank Danley P.E.
3405 Sinton Rd. #138
Colorado Springs, CO 80907
(719) 633-9440
HOME

4445 NORTHPARK DRIVE, #200
COLORADO SPRINGS, CO 80907
(719) 598-5660
WORK



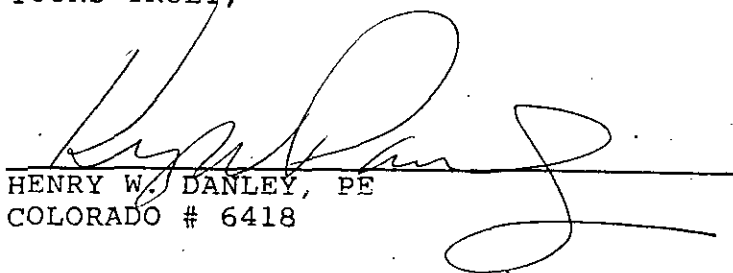
EL PASO COUNTY HEALTH DEPT.
ENVIORNMENTAL HEALTH
301 S. UNION BLVD.
COLORADO SPRINGS, CO 80910

REF: SEPTIC SYSTEM AT
1625 FANNEN CIRCLE
EL PASO COUNTY
COLORADO

TO WHOM IT MAY CONCERN:

THE SEPTIC SYSTEM INSTALLED AT THE ABOVE ADDRESS
WAS INSTALLED IN ACCORDANCE WITH STATE AND LOCAL
CODES AND MY DESIGN.

YOURS TRULY,


HENRY W. DANLEY, PE
COLORADO # 6418

HWD/SF

