

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

Permit # 873
Date December 7, 2007

APPROVED: Yes ☒ No ☐ Environmental Health Specialist: Brad Wallace

Address 25790 Speer Road Owner EL more

Legal Description W2, SW4, S28-T12S-R62W

Residence ☒ # Bedrooms 2 Commercial ☐ System Installer Grasnick Excavating

SEPTIC TANK:

Commercial ☐ Noncommercial ☒ Construction Material Concrete Capacity Gallon 1,500

DISPOSAL FIELD:

Trench: Depth (Range) 28"-37" Width 3' Total Length 274' Sq. Ft. 822 F²

Bed: Depth (Range) 12" Length 6" Width 6" Sq. Ft. 72

Depth of Rock 12" Under PVC 6" Type of cover on Rock Straw

DRYWELLS: # of Pits 2 Rings (Pit 1) 2 Rings (Pit 2) 2 Working Depth #1 2 #2 2

Size (L x W) #1 2 #2 2 Total Sq. Ft. 2

ROCKLESS SYSTEMS:

Standard Chamber: Type #Chambers Sq. Ft./Chamber Bed Trench

High Profile Units: Type Chamber #Chambers Sq. Ft./Chamber Bed Trench

Reduction Allowed % Sq. Ft. Required Depth (Range)

Sq. Ft. Installed Equivalent Sq. Ft. Installed with Reduction

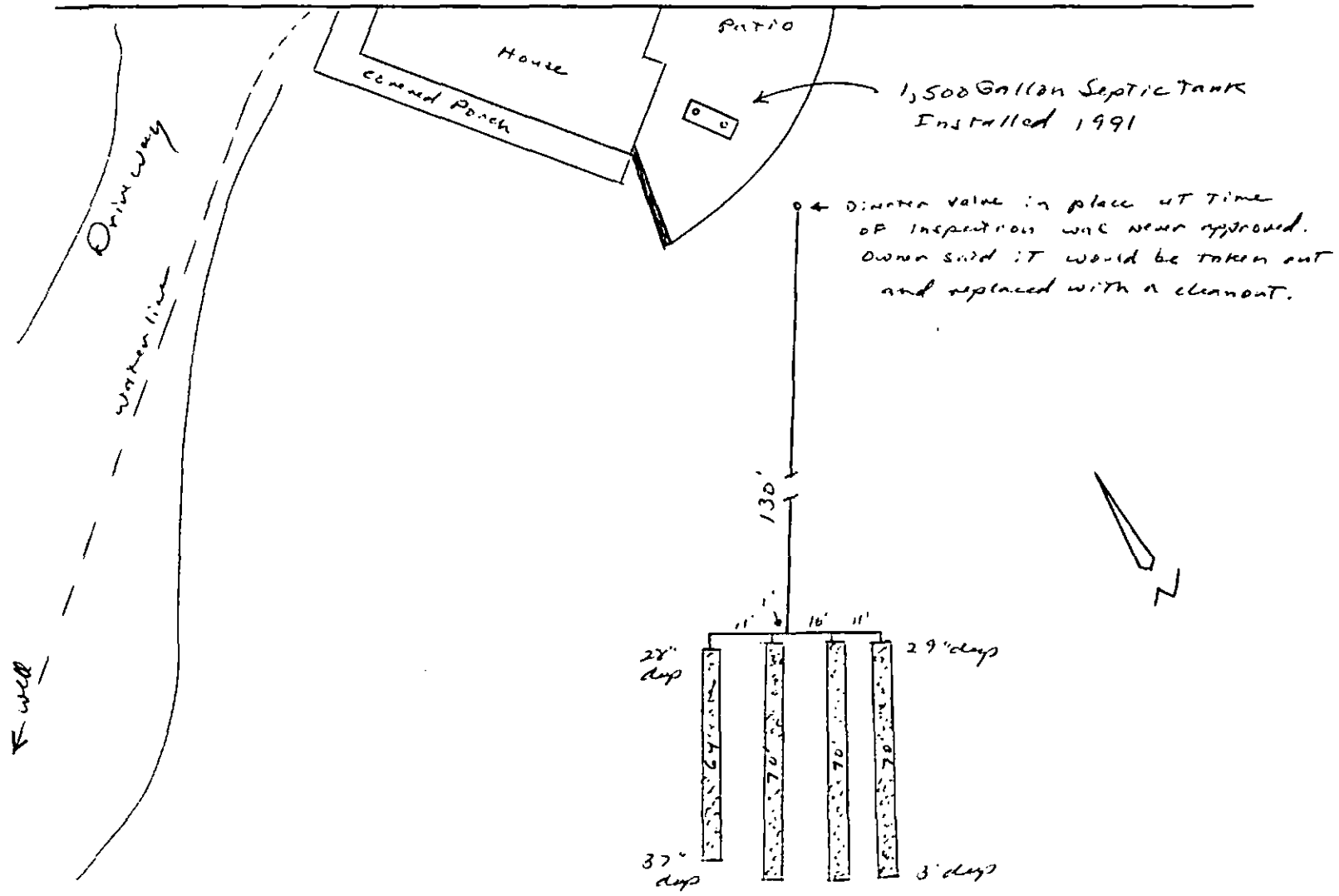
Engineer Design: Y ☒ Engineering Firm

Approval letter provided? Y ☐ N ☒

Well installed at time of septic system inspection? ☒ Y ☐ 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: Septic tank meets the requirements for a 4 Bedroom house. Leach Field is sized for a 2 bedroom house.



EL PASO COUNTY
DEPARTMENT OF HEALTH AND ENVIRONMENT
301 S Union Blvd, Colorado Springs, Colorado 719-575-8636
INDIVIDUAL SEWAGE DISPOSAL SYSTEM PERMIT

OWNER NAME: <u>Barbara Elmore</u>	PERMIT NUMBER: <u>873</u>
ADDRESS: <u>25790 SPEER RD</u>	
CITY, STATE, ZIP: <u>CALHAN, CO 80808</u>	DATE PERMITTED: <u>11/15/2007</u>
INSTALLED BY:	<u>347-3153</u>
	PHONE NUMBER: <u>719-575-8635</u>

This permit is issued in accordance with 25-10-207 Colorado Revised Statutes. 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). If both a building and an ISDS permit are issued for the same property and revokable if all stated requirements are not met. Sewage disposal system to be installed by an El Paso County Licensed System Contractor or the property owner.

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

DIRECTOR, EL PASO COUNTY DEPARTMENT OF HEALTH AND ENVIRONMENT

Janet Christensen

PERMIT EXPIRATION DATE: Expires twelve months from date of issue	JANET CHRISTENSEN 578- 3427 3141 ENVIRONMENTALIST/PHONE NUMBER*
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WATER SOURCE: Well or Spring

MINIMUM SEPTIC TANK SIZE:	EXISTING <u>1500</u> GALLONS	MINIMUM ABSORPTION AREA REQUIRED	802 SQ FT
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PLANNING DEPARTMENT	<input checked="" type="checkbox"/> N/A	ENUMERATION	<input type="checkbox"/> N/A	FLOOD PLAN	<input type="checkbox"/> N/A	WASTEWATER	<input type="checkbox"/> N/A
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COMMENTS:

* FOR INSPECTIONS CALL 575-8699 BEFORE 8:30 A.M. OF THE DAY TO BE INSPECTED.
(WEEKENDS & HOLIDAYS EXCLUDED)
LEAVE THE ENTIRE SEWAGE DISPOSAL SYSTEM UNCOVERED FOR FINAL INSPECTION

GPS N 38 DEGREES 58.159 MINUTES W 104 DEGREES 21.167 MINUTES + - 15 FEET ACCURACY. EXISTING 1500 GALLON SEPTIC TANK IS SUFFICIENT FOR A 4 BEDROOM. EXISTING LEACH FIELD IS TO BE ABANDONED AND NEW LEACH FIELD INSTALLED IN AREA OF SOIL PERCOLATION TEST. MAXIMUM DEPTH OF INSTALLATION IS 3 FEET.

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.

FOR ADMINISTRATOR USE ONLY *RHW*

Permit Ready: _____	Called <u>11/16/07</u>	Mailed <i>Jri</i>	
Final Inspection Requested:	BY: <u>Nelson Gramrick</u>	Date Called In: <u>12-7-07</u>	
	Phone # <u>478-5930</u>	Septic Site will be ready: <u>Now</u>	

call w/ T. Jones

COPY



EL PASO COUNTY DEPARTMENT OF HEALTH & ENVIRONMENT

301 South Union Boulevard • Colorado Springs, CO • 80910-3123 •
(719) 575-8635 • Fax: (719) 578-3188

11/10/07 Sat
11/11/07 Sun.
11/12/07 Holiday

Record I.D. (873) 11/13/07

***ALL PAYMENTS ARE DUE AT TIME OF SUBMITTAL IN CASH, CHECK, or MAJOR CREDIT CARD**

APPLICATION FOR AN ONSITE WASTEWATER SYSTEM PERMIT

☐ NEW PERMIT

☐ MINOR REPAIR PERMIT

☒ MAJOR REPAIR PERMIT

Owner BARBARA ELMORE Daytime Phone 719 347 3153

Address of Property 55790 SPEER RD City & Zip CALHAN 80808

Legal Description W 1/2 SW 1/4 28-12-62

Owner's MAILING Address SAME City, State & Zip _____

Lot Size 240 acres Tax Schedule # 22 000 000 42

Type of Building: ☒ Frame ☐ Modular ☐ Mobile ☐ Commercial ☐ Manufactured ☐ Other _____

Water Supply: ☒ Well or Spring ☐ Cistern ☐ Public Inside City Limits: ☒ No ☐ Yes-City _____

☒ MAIL PERMIT - OR - ☐ PICK-UP PERMIT ☐ FAX - FAX TO AND # _____

MAXIMUM POTENTIAL NUMBER OF BEDROOMS 2

Percolation Test Attached ☒ N Basement Y ☒ N Garbage Disposal ☒ N Clothes Washer ☒ N

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 and additional tests and reports as may be required by the Department to be made and furnished by an applicant for purposes of evaluating the application, and issuance of the permit is subject to such terms and conditions as deemed necessary to ensure compliance with rules and regulations adopted pursuant to C.R.S. 25-10-107 et. seq. I hereby certify all represented to be true and correct to the best of my knowledge and belief, and are designed to be relied on by the El Paso County Department of Health and Environment 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 and in legal action for perjury as provided by law.

OWNER'S/OWNER'S AGENT SIGNATURE [Signature] Date 11-13-07

You will be notified by telephone when your permit is ready for pick up. Please allow a minimum of 10 days for new septic.

DEPARTMENT OF HEALTH USE ONLY

Existing 1500 gallons
Minimum Tank Capacity

802 Ft²
Minimum Absorption Area

Nov. 14, 2007
Date of Site Inspection

REMARKS N 38° 58' 15" W 104° 21' 16" 15 foot Accuracy
Existing 1500 gallon septic tank is sufficient for a 4 bedroom
Existing leach field is to be abandoned and new leach
field installed in area of soil percolation test. Maximum
depth of installation is 3 feet.

EHS INSPECTOR [Signature] DATE 11/14/07 ☒ APPROVED ☐ DENIED

CURRENT FEES AS APPROVED BY EL PASO COUNTY BOARD OF HEALTH

New Permit: \$304.50 + Planning Department Surcharge of \$137.50 = \$442.00 + \$23 = \$465.00

Major repair permit: \$316.00

Minor repair permit: \$131.00

DATE TO LAND DEVELOPMENT/WASTEWATER: _____

DATE TO FLOODPLAIN/ENUMERATIONS: _____

PLEASE COMPLETE THE BACK OF THIS FORM

11/10 Fri
11/11 2007 Sat
11/12 - Holiday

RECEIVED
11/9/07
Hanson
Software
Problems

- 1) We require an original of your PERCOLATION (PERC) TEST with an original licensed engineer's (PE) stamp and signature as well as a plot of the percolation test hole locations with measurements from a fixed reference point. (A faxed copy directly from the engineering firm to this office is acceptable.)
- 2) **PROPERTY ADDRESS OR LOT NUMBER MUST BE POSTED AND CLEARLY VISIBLE FROM ROAD. PERC HOLES MUST BE CLEARLY MARKED OR AN ADDITIONAL CHARGE FOR A RETURN TRIP TO THE SITE MAY BE ASSESSED.**

- 3) A PLOT PLAN must be drawn (not to scale) on an 8 1/2 x 11 inch sheet of paper. The plot plan must include:

- | | | |
|-------------------------------|---------------------------------|---------------------------------|
| 1) a north bearing | 5) proposed septic system site | 8) Distance of percolation test |
| 2) property lines | 6) alternate septic system site | to two property lines. |
| 3) property dimensions | 7) driveway (proposed or | |
| 4) all buildings (proposed or | existing and name of adjoining | |
| existing) | street) | |

- 4) Initial any of the following features that apply to your property and INCLUDE them on your PLOT PLAN.

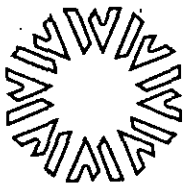
<input type="checkbox"/> Well(s)	<input type="checkbox"/> Adjacent property well(s)	<input type="checkbox"/> Subsoil drain
<input type="checkbox"/> Cistern	<input type="checkbox"/> Water line	

- 5) Initial any of the following that are within 100 feet of your proposed septic system and INCLUDE on your PLOT PLAN.

<input type="checkbox"/> Spring(s)	<input type="checkbox"/> Lake(s)
<input type="checkbox"/> Pond(s)	<input type="checkbox"/> Stream(s)
<input type="checkbox"/> Dry Gulch(es)	<input type="checkbox"/> Natural drainage course(s)

- 6) GIVE COMPLETE DIRECTIONS TO THE PROPERTY FROM A MAIN HIGHWAY

Hwy 24 E thru Falcon, turn R on Judge Orr Rd
 go to Elliott Rd + turn N (left) go 1 mile to
 Speer Rd + turn E (right) + Go directly to 25790
 Speer Rd.



W.W. ENGINEERING & SURVEYING

Consulting Engineering

2115 9th Street, P.O. Box 1242, Limon, Colorado 80828 (719) 775-9314

#2200000574

12/07/2007

25790 SPEER RD

E

October 19, 2007
Project No: 07-1051

Mr. Ralph Elmore
2570 Speer Road
Calhan, CO 80808

Re: Test results for the new septic field to be located at 25790 Speer Road, on the W $\frac{1}{2}$ SW $\frac{1}{4}$ of Section 28, T12S, R62W, El Paso County, Colorado.

Dear Mr. Elmore:

On October 16, 2007, soil borings were made at the above referenced property. The borings were done to try to find a suitable location for a new septic field.

As requested, a soil profile hole was drilled in the partially covered man-made pond area south of the house. The soils encountered are listed below:

0-2 $\frac{1}{2}$ '	Light Moisture, Brown, Sandy Lean Clay
2 $\frac{1}{2}$ '-3'	Moist, Brown, Lean Clay With Sand
3'-6 $\frac{1}{2}$ '	Moist, Brown, Sandy Lean Clay
6 $\frac{1}{2}$ '-7 $\frac{1}{2}$ '	Wet, Gray and Orange, Fat Clay
7 $\frac{1}{2}$ '-10'	Moist, Orange Brown, Clayey Sand

After drilling the profile hole water stabilized to a 7' depth.

As was discussed on the site after the drilling was completed, the following recommendations were made:

- The drain pipe that transports water from the north pond to this area needs to be plugged or removed.
- Establish (stake) an area at least 60'x70', where the new leach field is to be located.
- Remove the top 6 $\frac{1}{2}$ ' of material (or down to gray and orange clay) and place in a stock pile.
- Remove the gray and orange clay to the clayey sand (7 $\frac{1}{2}$ ' \pm depth) and place in separate pile.
- Place the good soil (silty - clayey sand), from the area on the west hill, in the excavated hole. Compact to 85% compaction in 6" lifts at proper moisture until you reach the current grade or 3' below what will be the new grade once completed. This should be approximately 7 $\frac{1}{2}$ ' of material.

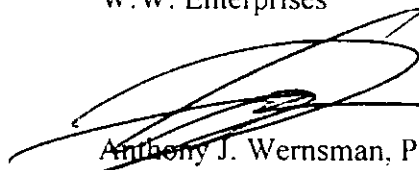
At this time, call W. W. Enterprises to schedule drilling a new profile hole and percolation test.

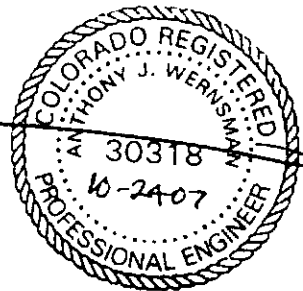
Once you have received the Soils Report from W. W. Enterprises you can get your permit from the El Paso County Health Department.

It is recommended that the pipes or chambers for leach field be placed at current grade. More of the material from the west hill or soil in the pile containing the original 0'-6½' is to be placed over pipes to a level 1' below the new final grade. Finish by placing, in a downward slope for drainage, 1' of the soil from the gray and orange fat clay pile. By filling this area to the top of the berm (3' higher than current grade) and to the ravine to the south, the run-off rain and snowmelt from the north, west, and east will stay off the new leach field.

Please contact our office, if you have any questions concerning this information.

Respectfully,
W.W. Enterprises


Anthony J. Wernsman, P.E.



Cell

269-740-1268 ph

Sunday

Will be here around 10AM

Mon 11/5



November 7, 2007
Project 07-1051

SUBSURFACE INVESTIGATION AND SOILS REPORT

DESCRIPTION: SE¼ Sec 29, T12S R62W
 25790 Speer Rd., Calhan
 El Paso County, Colorado

Prepared for:
Ralph Elmore
25790 Speer Road
Calhan, CO 80808

This study was done to determine the percolation rates; groundwater conditions, types and characteristics of the soils at the fore mentioned site.

The site is located in El Paso County, Colorado, southwest of the Town of Calhan. No vegetation exists, because the site has been excavated. The terrain slopes, generally, to the southwest at 2% in the area of the leach field. The area tested is the area described in our October 19, 2007, letter, where fill has been placed.

PERCOLATION RESULTS AND RECOMMENDATIONS

Test **Hole B**, leach field.

Laboratory tests indicate the soils at the 3'-4' depth in **Hole B** are A-2-4(0) AASHTO, SC-SM ASTM soils. These soils are Class 4 UBC 97 and IRC 2003 silty-clayey sand. The soils are Low-swelling. NO ground water was observed in the test hole to this depth.

Other mechanical properties of these soils are as follows:

Sieve Analysis, **Hole B**:

<u>Sieve #</u>	<u>% Passing</u>
<u>3/4"</u>	<u>100</u>
<u>3/8"</u>	<u>100</u>
<u>#4</u>	<u>100</u>
<u>#10</u>	<u>98</u>
<u>#40</u>	<u>60</u>
<u>#100</u>	<u>27</u>
<u>#200</u>	<u>19</u>

Atterberg Limit Tests, **Hole B**:

<u>Liquid Limit-</u>	<u>23</u>
<u>Plastic Limit-</u>	<u>18</u>
<u>Plastic Index</u>	<u>5</u>

Natural Moisture Content, **Hole B**: 4.2%

Percolation Information:

Test Hole #	Date Tested	Hole Depth (in.)	Perc. Rate (Min/in.)
#1	11/06/07	48	26.7
#2	11/06/07	48	16.0
#3	11/06/07	48	48.0
#4			
#5			
#6			
Percolation Average			30.2

All future owners should be directed to those items under “General Maintenance Recommendations for Individual Sewage Disposal Systems” in Appendix I, included in this report.

If the consistency or color of the soil is different than in the soils report contact this office immediately.

If there are any questions concerning information in this report please contact our office.



DRIVEWAY

HOUSE

100'±

199'±

151'±

151'±

1

2

3

TEST HOLE B
LEACH FIELD SITE

POINT FOR LOCATION

1" = 50'

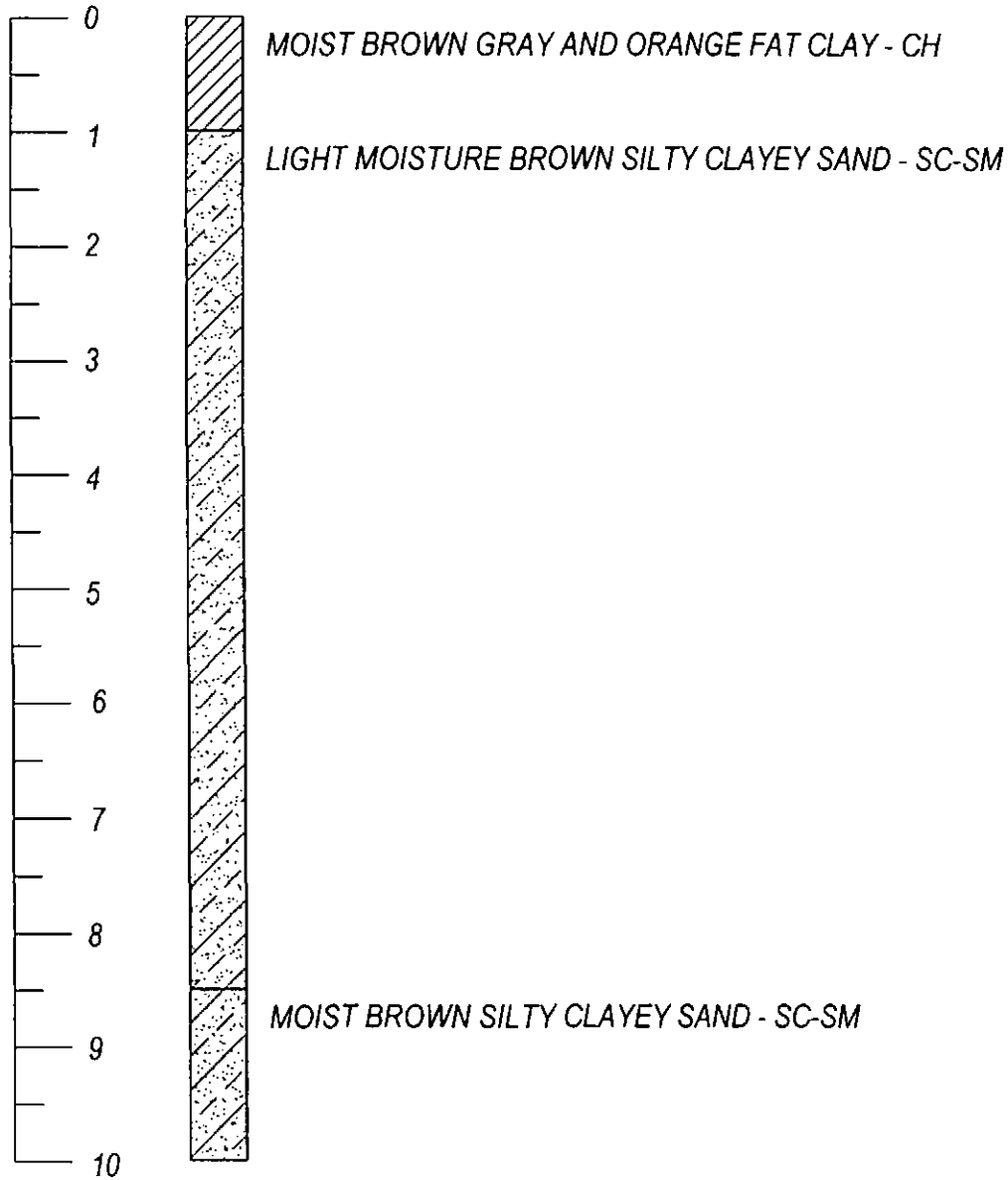


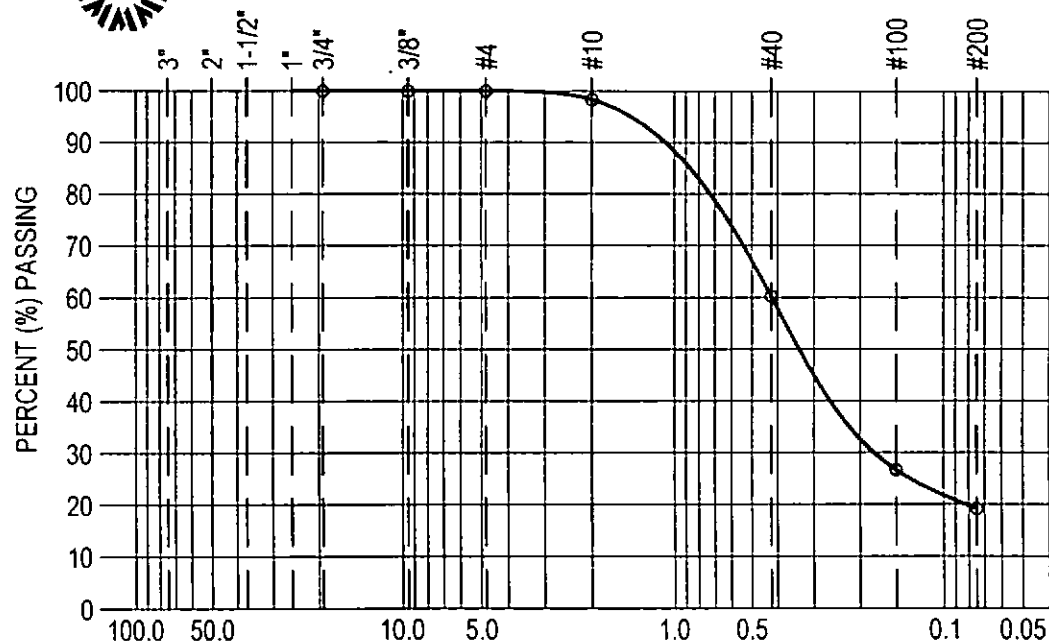
Name: ELMORE
Project No.: 07-1051

SE 1/4 OF SEC. 29, T12S, R62W, EL PASO COUNTY, COLORADO - 25790 SPEER ROAD, CALHAN



TEST HOLE 'B' - LEACH FIELD SITE



**B @ 3'-4' LEVEL**

A-2-4 (0) AASHTO

SC-SM ASTM

SIEVE % PASSING

3/4" 100

3/8" 100

#4 100

#10 98

#40 60

#100 27

#200 19

LL - 23, PL - 18, PI - 5

LOW SWELLING

NATURAL MOISTURE

CONTENT = 4.2%

Name: ELMORE

Project No.: 07-1051