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APPROVED: Yes No # 5232302012 Environmental Health Specialist: Cariffis

Address 7270 Silver Ponds Hts Owner David Hanson

Legal Description Lot 18 Silver Pond
 Residence # Bedrooms Commercial System Installer Hanson Ditching

SEPTIC TANK: Existing
 Commercial Noncommercial Construction Material Capacity Gallon 1000
1000

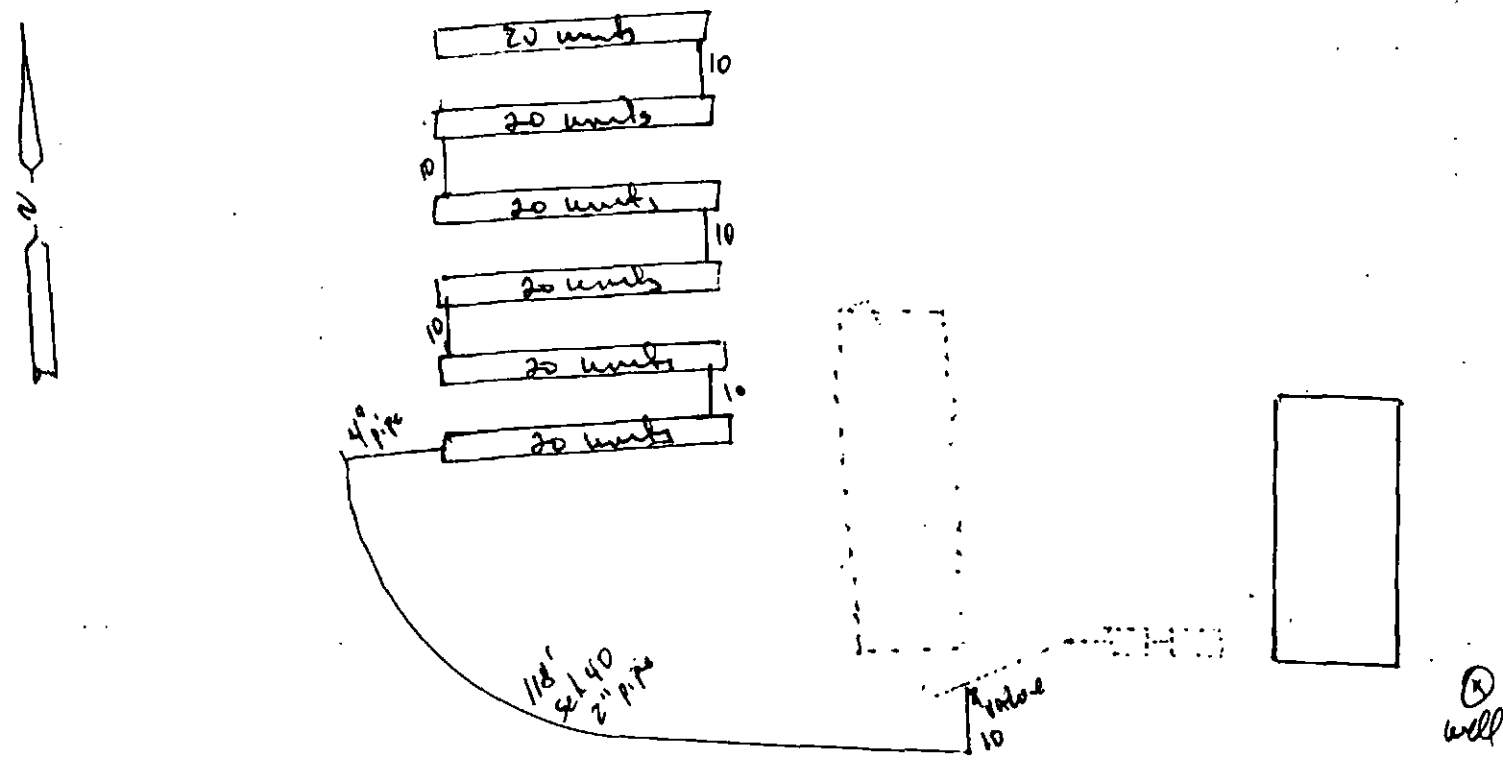
DISPOSAL FIELD:
 Trench: Depth (Range) Width Total Length Sq. Ft.
 Bed: Depth (Range) Length Width Sq. Ft.
 Depth of Rock Under PVC Type of cover on Rock

DRYWELLS: # of Pits Rings (Pit 1) Rings (Pit 2) Working Depth #1 #2
 Size (L x W) #1 #2 Total Sq. Ft.

ROCKLESS SYSTEMS:
 Standard Chamber: Type Quick 4 #Chambers 120 Sq. Ft./Chamber 10 Bed Trench
 High Profile Units: Type Chamber #Chambers Sq. Ft./Chamber Bed Trench
 Reduction Allowed 40 % Sq. Ft. Required 2000 Depth (Range) 30-34"
 Sq. Ft. Installed Equivalent Sq. Ft. Installed with Reduction 2000
 Engineer Design N Engineering Firm Colado Engineering
 Approval letter provided? 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:



INDIVIDUAL SEWAGE DISPOSAL SYSTEM PERMIT

OWNER NAME: DAVID AND ELIZABETH HANSEN PERMIT NUMBER: ON0006335
ADDRESS: 7270 SILVER PONDS HEIGHTS DATE PERMITTED: 4/12/2005
CITY, STATE, ZIP: COLORADO SPRINGS CO 80908 PHONE NUMBER: 7194959529
INSTALLED BY:

This permit is issued in accordance with 25-10-107 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 construction has not commenced prior to the expiration date of the building permit, the ISDS permit shall expire at the same time as the building permit. This permit is 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.

Rosemary C. Baker-Martin

DIRECTOR, EL PASO COUNTY DEPARTMENT OF HEALTH AND ENVIRONMENT

PERMIT EXPIRATION DATE :
Expires twelve months from date of issue

Janet Christensen 578-3141
ENVIRONMENTALIST / PHONE NUMBER*

* NOTE: 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.

WATER SOURCE: WELL

MINIMUM SEPTIC TANK SIZE: Existing GALLONS

MINIMUM ABSORPTION AREA REQUIRED See Remarks SQ FT

PLANNING DEPARTMENT



ENUMERATION



FLOOD PLAIN



WASTEWATER



COMMENTS:

INSTALL ALTERNATE ABSORPTION SYSTEM IN AREA OF MARCH 18, 2005 SOIL PERCOLATION TEST. INSTALL SYSTEM PER THE ATTACHED PROFESSIONAL ENGINEER DESIGN: 2000 SQUARE FEET ABSORPTION AREA - 120 "QUICK 4 CHAMBERS" INSTALLED NO DEEPER THAN 3 FEET FROM EXISTING GRADE. HEALTH DEPARTMENT MUST INSPECT SYSTEM PRIOR TO BACK FILL. AN ENGINEER'S LETTER OF APPROVAL MUST BE RECEIVED BY THIS OFFICE FINAL APPROVAL OF SYSTEM.

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 ADMINISTRATIVE USE ONLY

Permit Ready: _____ Called 04-12-05 Mailed Jc

Final Inspection Requested: BY: Alicia - Munson

Date Called In: 4/22/05 8:56

Phone # 495-0457

Septic Site will be ready: soon

Inspector _____

Record I.D. 6335

EL PASO COUNTY ENVIRONMENTAL HEALTH SERVICES

301 South Union Boulevard • Colorado Springs, CO • 80910-3123 • (719) 578-8636 • Fax: (719) 578-3188

***ALL PAYMENTS ARE DUE AT TIME OF SUBMITTAL IN CASH OR CHECK**

APPLICATION FOR AN ON-SITE WASTEWATER TREATMENT SYSTEM PERMIT

NEW CONSTRUCTION MINOR REPAIR MAJOR REPAIR/ADD

Owner David + Elizabeth Hansen Daytime Phone (719) 495-9529

Address of Property 7270 Silver Ponds Hts City & Zip Colorado Springs 80908

Legal Description Lot 18 Silver Ponds

Owner's MAILING Address Same City, State & Zip Same

Lot Size 2 1/2 Acres Tax Schedule # 52323-02-012

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 THERE IS AN ADDITIONAL RESIDENCE ON THIS PROPERTY

MAXIMUM POTENTIAL NUMBER OF BEDROOMS 4

Percolation Test Attached N Basement 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 SIGNATURE David Hansen Date 4-7-05

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

See Remarks	DEPARTMENT OF HEALTH USE ONLY	
<u>Existing (Permit #11218)</u>	<u>Existing (Permit #11218)</u>	<u>04-08-05</u>
<p><u>Install alternate absorption system in area of March 18, 2005 soil percolation test. Install system per the attached professional engineer design: 2000 ft² absorption area - 120 "Quick 4 chambers" installed no deeper than 3 ft. from existing grade. Health Dept. must inspect system prior to backfill. An engineers letter of approval must be received by this office for final approval of system.</u></p>		
<p>MINOR REPAIR/ADDITION \$154.00</p>		
<p>DATE TO FLOODPLAIN/ENUMERATIONS _____</p>		
<p>PLEASE COMPLETE THE BACK OF THIS FORM</p>		

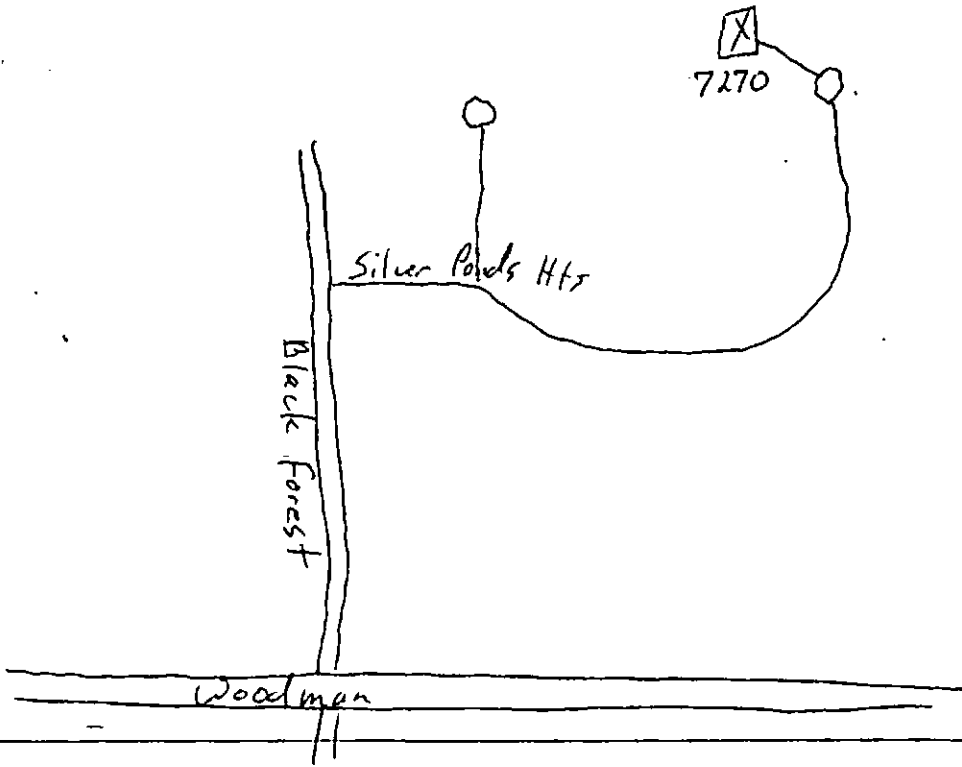
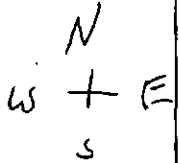
- 1) We require an original of your **PERCOLATION (PERC) TEST** with an original professional engineer's (PE) stamp and signature as well as a plot of the percolation test hole locations with measurements from a fixed reference point
- 2) **PROPERTY ADDRESS OR LOT NUMBER MUST BE POSTED AND CLEARLY VISIBLE 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 sheet of paper. The plot plan must include:

1) a north bearing	4) all buildings (proposed or existing)	7) driveway (proposed or existing and name of adjoining street)
2) property lines	5) proposed septic system site	
3) property dimensions	6) alternate septic system site	
- 4) Initial any of the following features that apply to your property and **INCLUDE** them on your **PLOT PLAN**.

___ Well(s)	___ Adjacent property well(s)	___ Subsoil drain
___ Cistern	___ Water line	
- 5) Initial any of the following that are within 100 feet of your proposed septic system and **INCLUDE** on your **PLOT PLAN**.

___ Spring(s)	___ Lake(s)
___ Pond(s)	___ Stream(s)
___ Dry Gulch(es)	___ Natural drainage course(s)

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





CASTLE ROCK
 15 Gilbert Street
 Castle Rock, CO 80106
 Phone: (303) 688-9475
 Fax: (303) 814-2454

MONUMENT
 19375 Beacon Lite Road
 PO Box 1298
 Monument, CO 80132
 Phone: (719) 488-2145
 Fax: (719) 488-2895

WOODLAND PARK
 321 West Henrietta
 PO Box 5816
 Woodland Park, CO 80866
 Phone: (719) 687-6077
 Fax: (719) 687-6151

E

SERVING EASTERN COLORADO SINCE 1995

#5232302012
 04/22/2005
 7270 SILVER PONDS HTS

MAY 2, 2005
 JOB NUMBER: 052-0015

- PAUL R. BRYANT, P.E.
- VICKIE L. GIBSON, P.E.
- STEVEN C. JACOB, P.E.

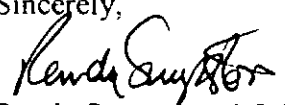
EL PASO COUNTY DEPARTMENT OF HEALTH
 301 SOUTH UNION BLVD.
 COLORADO SPRINGS, CO 80910

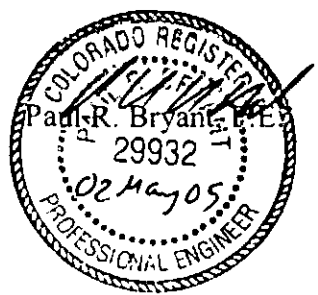
RE: SEPTIC SYSTEM, 7270 SILVER POND HEIGHTS, LOT 18 SILVER PONDS S/D, EL PASO COUNTY, COLORADO

Personnel from Colorado Engineering and Geotechnical Group, Inc. inspected the installation of the engineered septic system at the above address during construction, as well as the finished product. It has been installed in accordance with the engineered plans and specifications. This includes having the correct size septic tank, the proper grade on all the pipes and the sections of the absorption field, the correct depth, size and configuration of the absorption field, and the backfill around and over the field. Topsoil and native grasses have not yet been established; this remains the responsibility of the owner and/or builder. Erosion of the backfill may occur until a normal vegetative cover is established. At the time of the final inspection, backfill was soft; settlement may occur over time. Corrective actions are the responsibility of the owner/builder.

This system is ready for final certification from the El Paso County Health Department.

Call me if you have questions.

Sincerely,

 Randy Swepston, REHS



- SOIL TESTING & ANALYSIS
- PERCOLATION REPORTS
- FOUNDATION DESIGN
- SEPTIC DESIGN
- STRUCTURAL DESIGN
- STRUCTURAL CODE PLAN CHECK
- RESIDENTIAL DESIGN
- HOME INSPECTIONS
- PROFESSIONAL CONSULTATION
- EXPERT TESTIMONY
- GEO-HAZARD SURVEYS
- DRAINAGE REPORTS

SERVING:

- DOUGLAS COUNTY
- EL PASO COUNTY
- FREMONT COUNTY
- PARK COUNTY
- PUEBLO COUNTY
- TELLER COUNTY
- SUMMIT COUNTY

SUBMITTED FOR:

DAVID HANSEN

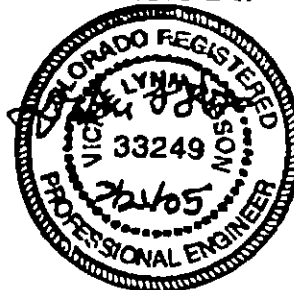
7270 SILVER POND HEIGHTS
SILVER PONDS SUBDIVISION
COLORADO SPRINGS, CO
EL PASO COUNTY

PERCOLATION REPORT

MARCH 18, 2005

PROJECT # 052-0015

SUBMITTED BY:



COLORADO ENGINEERING
& GEOTECHNICAL GROUP, INC.

19375 BEACON LITE ROAD
MONUMENT, COLORADO 80132
719-488-2145

AGREEMENT OF PURPOSE AND DISCLAIMER

The parties specifically agree and contract that the purpose of this percolation test is to test, analyze, and report on the condition of the soils encountered only as these tests pertain to the suitable design and construction of an appropriate septic for the proposed building and/or residences to determine the percolation rates of the soil. *The parties specifically agree that Colorado Engineering and Geotechnical Group, Inc. has not been retained nor will they render an opinion concerning environmental issues, hazardous waste or any other known or unknown conditions that may be present on this site.*

INTRODUCTION:

This report summarizes the results of data obtained during a soils test of 7270 Silver Pond Heights, Silver Ponds Subdivision, El Paso County, Colorado. Investigation occurred on January 18, 2005 and was performed in undisturbed soil in accordance with local county regulations. The purpose of the investigation was to reveal the engineering properties for a septic system repair to support a single-family residence. The site is currently occupied. Other aspects relating to the proposed construction are presented.

FINDINGS & RESULTS:

- **Groundwater:** Groundwater was not encountered in the test borings at the time of this investigation.
- **Bedrock:** Bedrock was not encountered.
- **Well Locates:** No known wells were observed within 100 feet of the proposed system.

The observed percolation rates are as follows:

Final Time Interval	Hole 2 (4')	Hole 3 (2')	Hole 4 (4')	Hole 5 (4')
10	1-3/8	1	1/2	7/16
Final (mpi)	7.27	10	20	22.85
Note: All Drops in Inches	Percolation Rate (Avg)		15.03	

The soil profile for the disposal system is as follows:

SOIL PROFILE 2	
DEPTH (FT)	SOIL DESCRIPTION
0 to 10	Fine to Coarse Grained Silty/Clayey Sand; Low to Moderate Density; Low Moisture Content; Low Clay Content; Low Plasticity; Green/Brown in Color.

RECOMMENDATIONS:

We recommend a system designed by a Colorado Licensed Engineer.

SPECIAL CONSTRUCTION:

We recommend a conventional absorption area sized on the long term acceptance rate.

FIELD INVESTIGATION PROCEDURE:

Exploratory borings were advanced using a four-inch nominal diameter, truck-mounted continuous-flight auger. The approximate boring locations are indicated on the attached site diagram and were established in the field by pacing and measuring angles from identifiable site references. The owner designated the location for exploration. A profile hole of at least 8'-0" in depth was excavated with a 4" continuous flight auger. The soil matrix has been identified in the table above (see Finding & Results). Percolation test holes were also excavated with a 4" continuous flight auger to the depths identified. These holes were "proofed" for a 24 hr period and the percolation test conducted according to local county regulations.

At depths determined by the supervising geologist, samples (if required) were obtained by means of a two-inch diameter split-spoon sampler, advanced by a 140-pound drop-hammer falling a distance of 30 inches, in general compliance with ASTM D-1586.

EXISTING SITE CONDITIONS AND WEATHER:

The general topography around the site of this investigation is a 10 percent slope to the west. Vegetation consists of native grasses and weeds. Weather was cool and clear at the time of drilling. The elevation measured at 7,050 feet above sea level. The presence of shallow bedrock beneath surficial soils is favorable for the formation of "perched" groundwater. The depth and occurrence of groundwater can vary over time depending on hydrologic conditions such as precipitation, surface drainage, and irrigation, and other conditions not apparent at the time of this report.

CONCLUSIONS:

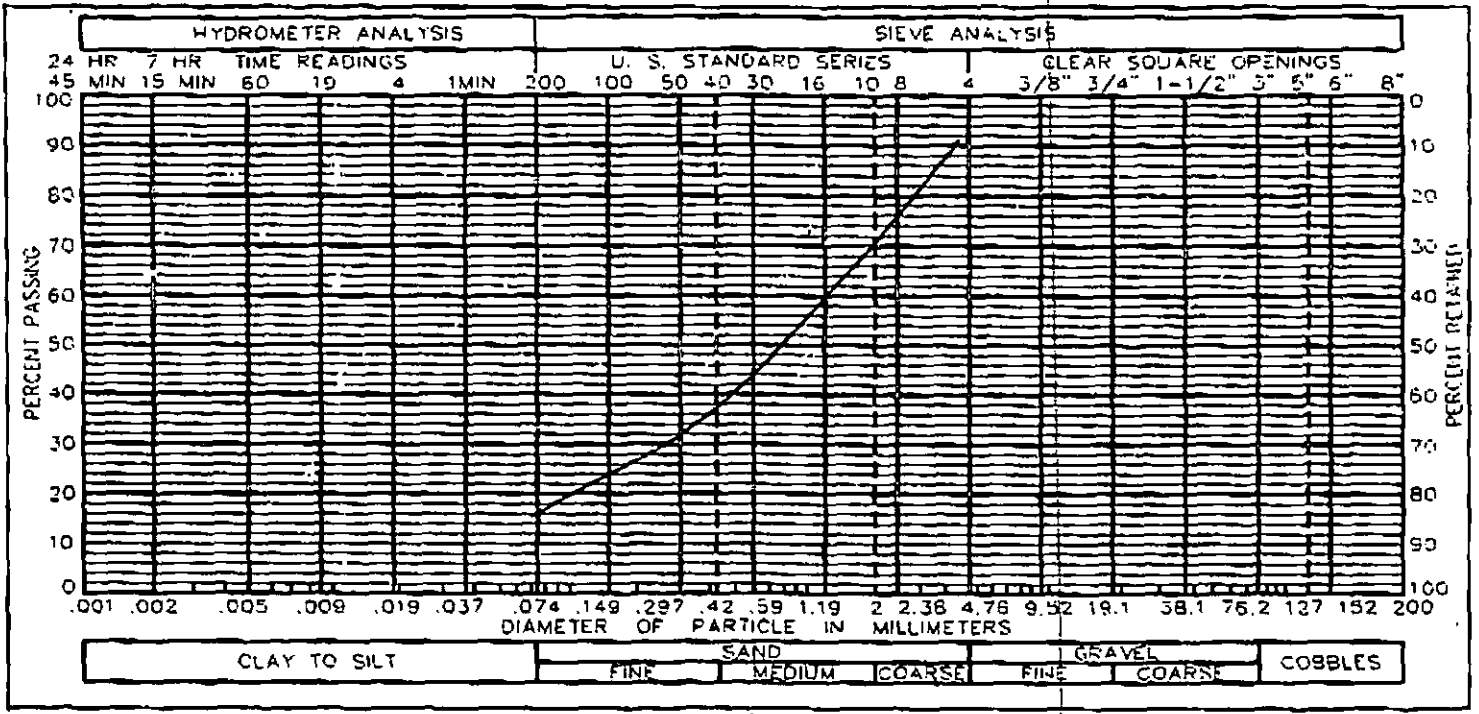
This report is valid only for the use of David Hansen listed for the type of construction listed above. Use by any other is prohibited, as is the use for other types of construction without the express, written permission of this office. Property owners and builders are reminded that water accumulation around leach fields, improper maintenance and homeowner abuse is a primary cause of septic system failure. Septic system distress can be minimized by preventing peak flows (more than 2 loads of laundry/day), reducing water consumption (low-flow faucets/shower heads), and performing tank and field maintenance at a regular schedule.

LIMITATIONS:

This report and its recommendations do not apply to any other site other than the one described herein and are predicated on the assumption that the actual soil conditions do not deviate in any significant way from those described in this report. In the event that any variations or undesirable conditions are detected during the construction phase or if the proposed construction varies from that planned as of this report date, the owner shall immediately notify Colorado Engineering and Geotechnical Group, Inc., so that supplemental recommendations can be provided, if needed.

COLORADO ENGINEERING AND GEOTECHNICAL GROUP, INC.

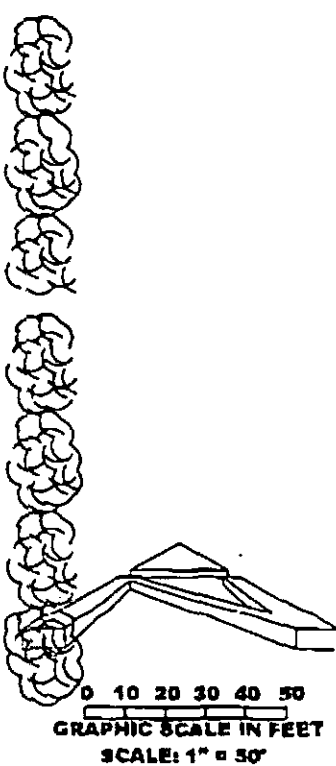
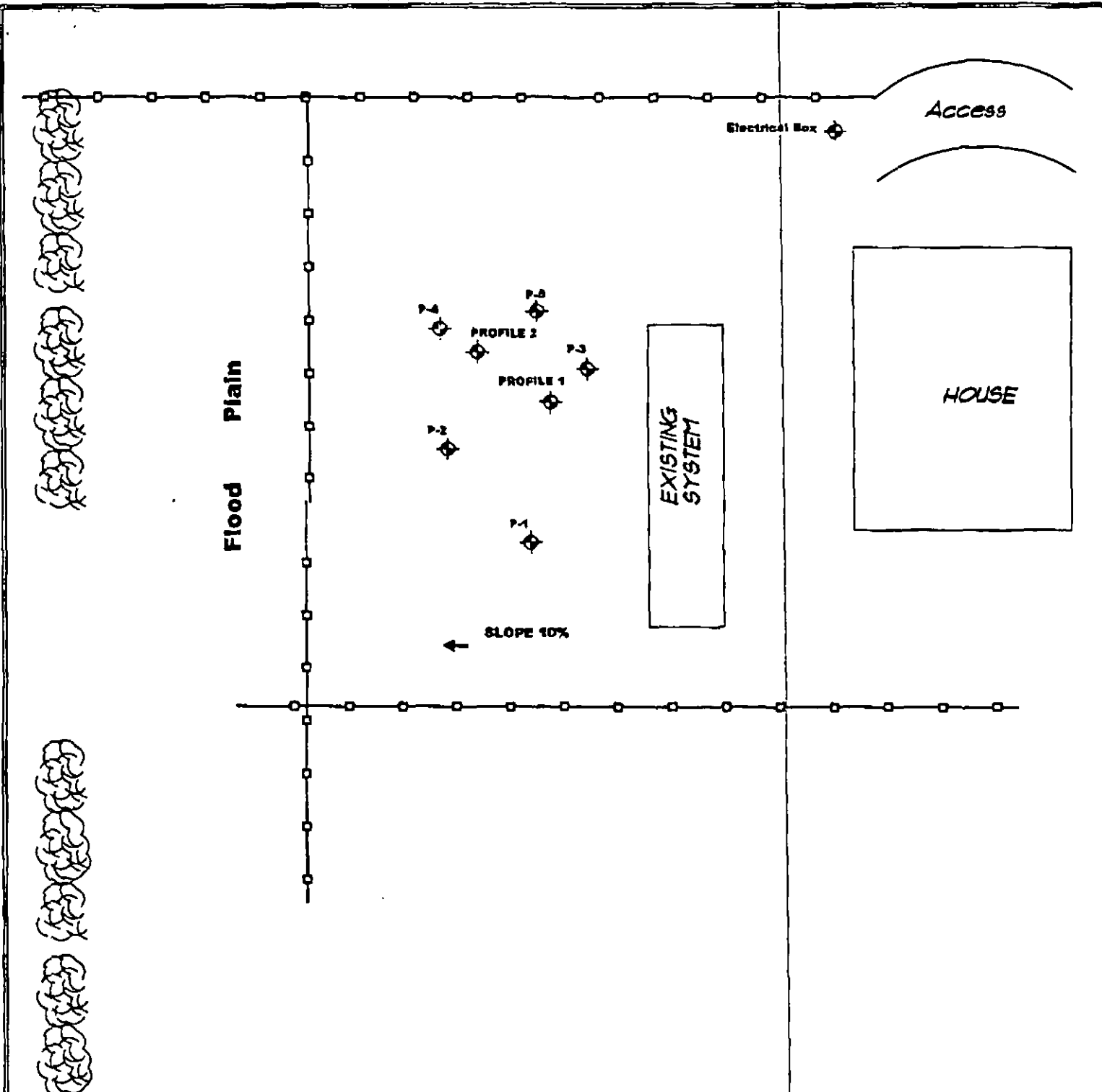
GRADATION TEST RESULTS



CLASSIFICATION	SM
GRAVEL	6.4 %
SAND	78.6 %
FINES	17.0 %
SAMPLE#	profile
HOLE#	1
DEPTH	3

NOTES: **12.8 % Moisture Content**

LL=NL
PL=NP
Pt=NV
Job Number: 052-0015



ENGINEER'S STATEMENT

THIS PLAN IS DRAWN ONLY TO DEPICT THE LOCATION OF THE FIELD DATA LOCATIONS AND DOES NOT REPRESENT A SITE PLAN. IT SHALL NOT BE USED AS A SITE PLAN OR FOR DEVELOPMENT PURPOSES. INSUFFICIENT SURVEY EQUIPMENT WAS USED TO DETERMINE THE LOCATIONS OF THE EXISTING FEATURES. THE INFORMATION SHOWN WAS OBTAINED USING A BRUNTON POKKET TRANSIT AND FIELD MEASUREMENTS. ALTHOUGH HE BELIEVE THE INFORMATION OBTAINED WITHIN THIS DOCUMENT IS ACCURATE FOR ITS INTENDED PURPOSE, HE STRONGLY EXPRESS THAT THIS IS NOT A SURVEY, SITE PLAN OR DEVELOPMENT PLAN AND SHALL NOT BE USED AS SUCH.

FROM	TO	DISTANCE	BEARING
Electrical Box	Profile 1	142'	S46°W
Profile 1	P-1	80'	S64°W
Profile 1	P-2	41'	S65°W
Profile 1	P-3	18'	N47°E
Profile 1	P-4	48'	N56°W
Profile 1	Profile 2	92'	N59°W
Profile 2	P-9	20'	N55°E

SITE PLAN

OWNER/BUILDER: David Hansen JOB #: 052-0015
 JOB ADDRESS: 7270 Silver Pond Heights



MONUMENT OFFICE

19375 Beacon Lite Rd.
 Monument, CO 80132
 (719) 488-2145

SEPTIC DESIGN



OWNER: DAVID HANSEN
PHONE: 719-495-9529

LEGAL DESCRIPTION: 7270 SILVER POND HEIGHTS, SILVER PONDS S/D, EL PASO COUNTY

STREET ADDRESS: 7270 SILVER POND HEIGHTS

ZONING: N/A

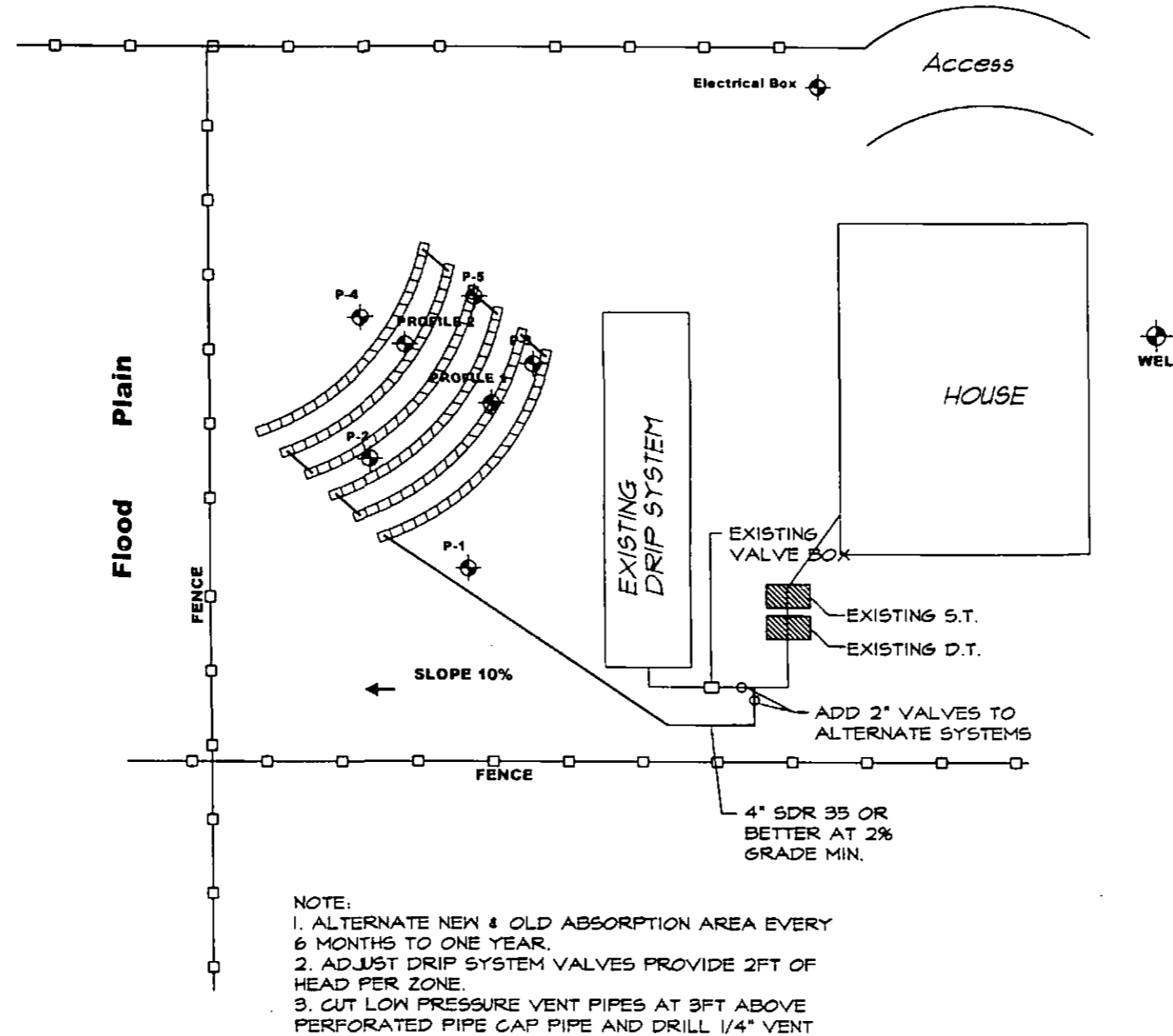
EASEMENTS: N/A

AREA OF LOT: N/A

COLORADO ENGINEERING AND GEOTECHNICAL GROUP, INC. HAS PROVIDED THIS DESIGN IN ACCORDANCE WITH THE STANDARDS OF PRACTICE COMMON TO THE AREA HOWEVER, AS WITH ALL UNDERGROUND ABSORPTION FIELDS, GUARANTEE FROM FAILURE IS IMPOSSIBLE. EVEN WITH PROPER INSTALLATION, AS OUTLINED FOR THIS PROPOSED CONSTRUCTION, THERE REMAIN MANY UNCERTAINTIES, AND DIFFICULTIES CAN STILL ARISE IN THE OPERATION OF THE SYSTEM IN THE FUTURE. PROPER DESIGN, CONSTRUCTION AND MAINTENANCE CAN ASSIST IN MINIMIZING UNCERTAINTIES, BUT CANNOT ENTIRELY ELIMINATE THEM. COLORADO ENGINEERING AND GEOTECHNICAL GROUP, INC. PROVIDES NO WARRANTY OF THIS DESIGN OR INSTALLATION.

SEPTIC SYSTEM COMPONENTS:

- TANK: 1-EXISTING SEPTIC TANK
- 1-EXISTING DOSING TANK



DAVID HANSEN

7270 SILVER POND HEIGHTS
SILVER PONDS S/D
EL PASO COUNTY, COLORADO

NOTES:

1. MANY DETAILS OF CONSTRUCTION ARE OMITTED FROM THESE DRAWINGS FOR CLARITY. THE INSTALLER MUST REFER TO LOCAL REGULATIONS CONCERNING OTHER INSTALLATION REQUIREMENTS GRADE SURROUNDING AREA TO DRAIN AWAY FROM FIELD.
2. MAINTAIN 2.0% MIN AND 3.0% MAX GRADE ON PIPE FEEDING SEPTIC TANK & SUMP. MAINTAIN 1% MIN GRADE ON PIPE FROM FIELD BACK TO SUMP. A SUMP & PUMP MAY BE REQUIRED IF GRAVITY FEED TO THE FIELD CAN NOT BE OBTAINED. PIPE GRADE TO BE VERIFIED.
3. HOMEOWNER IS RESPONSIBLE FOR PERMIT. CONTRACTOR MUST OBTAIN APPROVAL OF ENGINEERED SYSTEM FROM THE COUNTY HEALTH DEPARTMENT. OWNER/CONTRACTOR MUST VERIFY SETBACKS AND OBTAIN UTILITY CLEARANCES PRIOR TO CONSTRUCTION.
4. VEHICULAR OR HOOFED ANIMAL TRAFFIC OF ANY KIND OVER ANY PART OF SYSTEM MAY CAUSE PREMATURE FAILURE AND IS PROHIBITED. THE USE OF SO-CALLED "SEPTIC REMEDIES" CAN RESULT IN SEVERE DAMAGE TO THE SYSTEM. WE SPECIFICALLY RECOMMEND AGAINST THEIR USE.

SPECIAL NOTES SECTION

NOTE: IT IS STRONGLY RECOMMENDED THAT THE OWNER INSTALL "THE SEPTIC PROTECTOR" WHICH IS ATTACHED TO THIS DESIGN.

REQUIRED INSPECTIONS (ENGINEER)

- 1: ENGINEER TO VERIFY FIELD LOCATION AND REMOVAL OF TOPSOIL AT TIME OF CONSTRUCTION.
 - 2: ENGINEER WILL INSPECT THE INSTALLATION OF PIPE/GRAVEL BED, SEPTIC TANK, ETC. PRIOR TO BACKFILL.
 - 3: ENGINEER TO INSPECT THE FIELD AFTER BACKFILL TO INSURE MIN COVER, CROWNED TOP & PROPER DRAINAGE AWAY FROM FIELD.
- NOTE: THESE INSPECTIONS ARE SEPARATE FROM THAT WHICH IS REQUIRED BY THE COUNTY HEALTH DEPARTMENT. THE HOMEOWNER/CONTRACTOR MUST ENSURE ALL COUNTY INSPECTIONS ARE COMPLETED.



14975 Beacon Lite Road
Monument, CO 80132
(719) 488-2145

JOB NO: 052-0015

SCALE: 1" = 50'-0"

SHEET: 2 OF: 4

DRAWN BY: TY

DATE: 30 MAR 2005

CHECKED BY:

DATE:



**SEPTIC DESIGN
SCHEMATIC VIEW**

**SCHEMATIC VIEW IS SHOWN TO
PROVIDE A CONCEPTUAL
UNDERSTANDING OF THE
SYSTEM LAYOUT. REFER TO
SHEET 4 FOR SPECIFIC DETAILS**

DAVID HANSEN

7270 SILVER POND HEIGHTS
SILVER PONDS S/D
EL PASO COUNTY, COLORADO

CALCULATIONS

4 BEDROOM RESIDENCE
PERC 15.03 MIN/INCH

REQUIRED AREA

$$A = \frac{(4 \text{ BDRMS} \times Q \times 1.5 \times 1.6)}{LTAR}$$

Q = 150 GPD 1.6 = (70% GARBAGE DISPOSAL,
15 = CO FACTOR 40% WASHING MACHINE)
LTAR = .72

$$A = \frac{(4 \times 150 \times 1.5 \times 1.6)}{.72}$$

$$A = 2,000 \text{ SF}$$

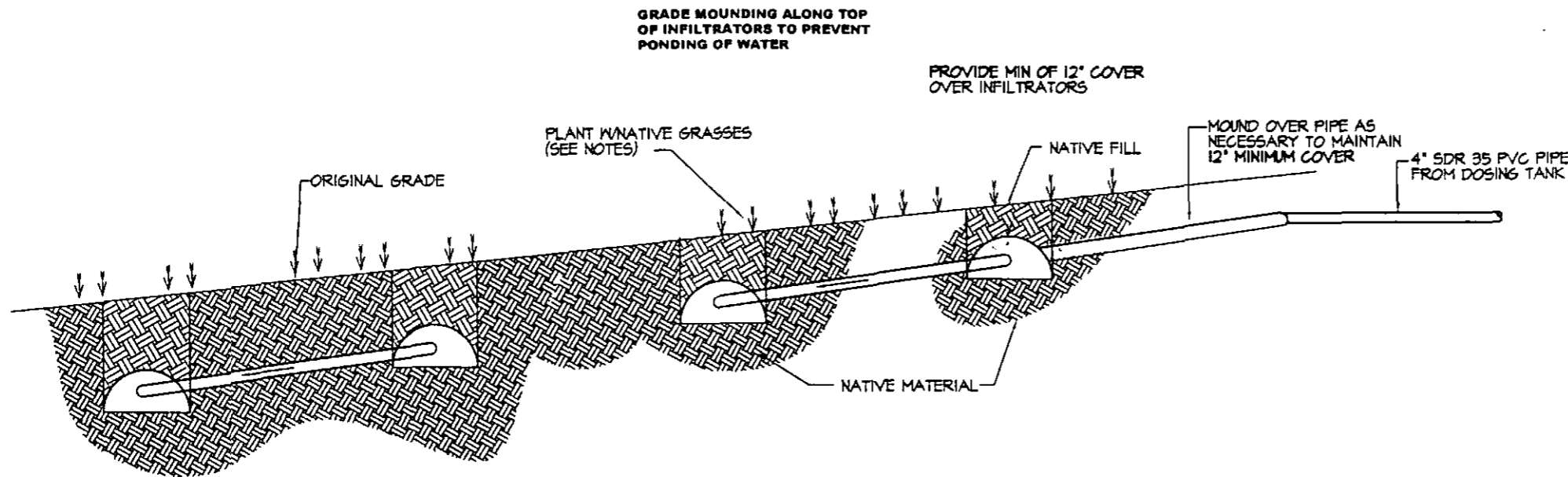
TRENCH (INFILTRATOR- QUICK 4)

$$\frac{(2,000) \text{ SF}}{(10)} = 200 \text{ INFILTRATORS}$$

REDUCTIONS: MAX APPLIED (.6)

USE 120 INFILTRATORS-QUICK 4

INSTALL 6 TRENCHES WITH 20 QUICK 4 INFILTRATORS
IN EACH TRENCH.
INSTALL NO DEEPER THAN 3 FT. FROM EXISTING
GRADE.
CONNECT TRENCHES WITH SERIAL DISTRIBUTION
NOTE: TRENCH LENGTH & CONFIGURATION MAY BE
ALTERED TO ACCOMMODATE SITE CONDITION



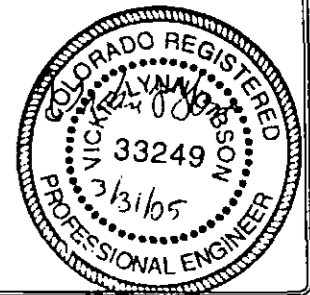
TO REMAINING 2
ROWS OF INFILTRATORS
(AS SHOWN ON PLAN)

FIELD SECTION
N.T.S

Colorado Engineering
& Geotechnical Group, Inc.

14575 Beacon Lite Road
Monument, CO 80132
(719) 488-2143

JOB NO: 052-0015
SCALE: NOT TO SCALE
SHEET: 3 OF: 4
DRAWN BY: TY
DATE: 30 MAR 2005
CHECKED BY: *BS*
DATE: 3/29/05



**SEPT C DES GN
DETAIL SHEET**

DAVID HANSEN

7270 SILVER POND HEIGHTS
SILVER PONDS S/D
EL PASO COUNTY COLORADO

NOTES:

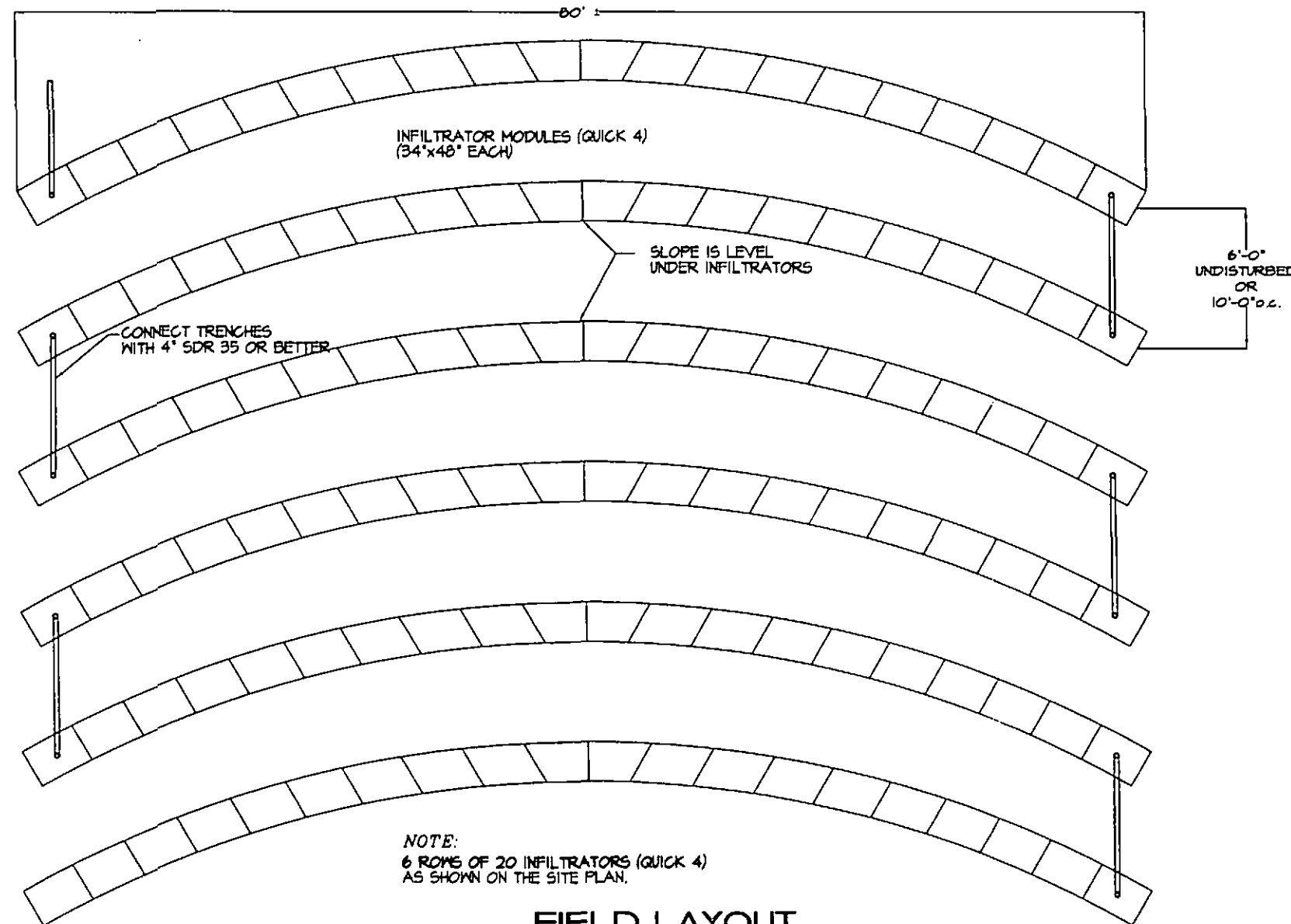
1. ALL WORK PER COUNTY HEALTH DEPARTMENT CRITERIA.
2. MANY DETAILS OF CONSTRUCTION ARE OMITTED FROM THESE DRAWINGS FOR CLARITY. THE INSTALLER MUST REFER TO LOCAL REGULATIONS CONCERNING OTHER INSTALLATION REQUIREMENTS.
3. ABSORPTION BED SHALL BE CROWNED AND COVERED WITH A MINIMUM OF 4 INCHES OF SELECT TOPSOIL TO PROVIDE A BASE FOR GOOD VEGETATIVE COVER.
4. CONTACT SOIL CONSERVATION SERVICE OR COUNTY EXTENSION AGENT FOR VEGETATION BEST SUITED FOR THE AREA.
5. PROVIDE DRAINAGE SWALE AROUND UPHILL SIDE OF FIELD.

SPECIAL NOTES SECTION

SPECIAL NOTE FOR SYSTEMS WITH SAND:
SAND FOR ABSORPTION BED TO BE IMPORTED FROM OFF SITE AS NECESSARY TO PLACE UNDER BED; ENGINEER TO APPROVE.

COMPACTION REQUIREMENTS:
FOR CUT/FILL AREAS BELOW LEACHING SYSTEMS & SYSTEMS WITH SAND REQUIREMENTS; MATERIAL SHALL BE COMPACTED TO 85% ASTM D1557 OR 90% ASTM D698. CONTACT THIS OFFICE FOR THE REQUIRED TESTING

SAFETY REQUIREMENTS:
ADEQUATE SAFETY MEASURES SUCH AS CONSTRUCTION FENCING AND CAVE-IN PROTECTION SHALL BE PROVIDED TO PROTECT AGAINST INJURY DURING CONSTRUCTION AND USE.



NOTE:
6 ROWS OF 20 INFILTRATORS (QUICK 4)
AS SHOWN ON THE SITE PLAN.

FIELD LAYOUT

N.T.S.



14375 Beacon Lite Road
Monument, CO 80132
(719) 488-2145

JOB NO: 052-0015

SCALE: 3/32" = 1'-0"

SHEET: 4 OF: 4

DRAWN BY: TY

DATE: 30 MAR 2005

CHECKED BY: *RS*

DATE: *3/29/05*

