

Prevent • Promote • Protect

#### Environmental Health Division

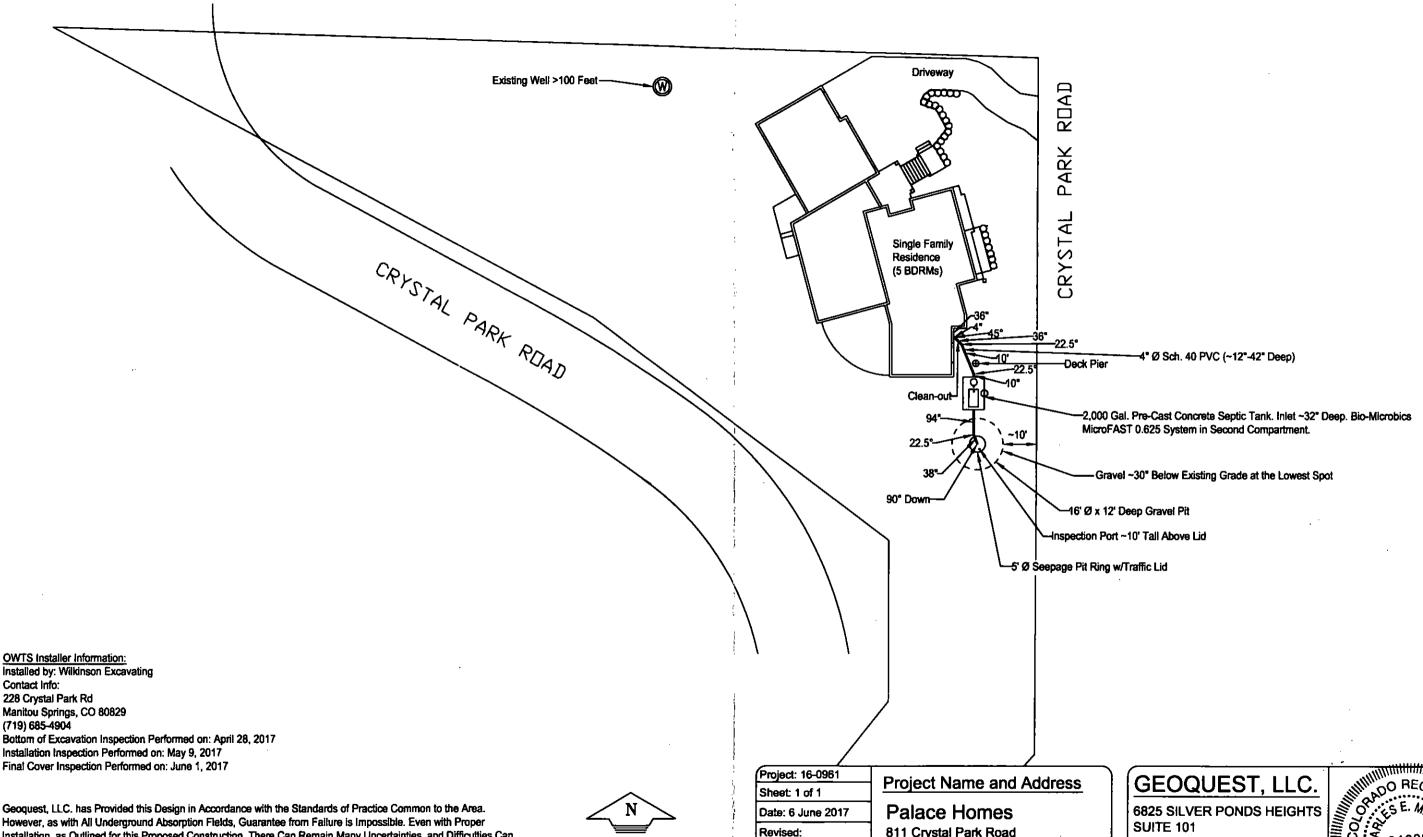
1675 W. Garden of the Gods Rd., Suite 2044 Colorado Springs, CO 80907 (719) 578-3199 phone (719) 575-8664 600

(117) 513	OOO t Jii.c	
www.eli	pasocount	vhealth.org

ON-SITE WA	ASTEWATER TREATMENT SYSTEM INSPECTION FORM	ON-SITE ID:	ON0049133	
	·	APN # DATE:	<b>740000165</b> 5/9/2017	P
APPROVED YE	ES NO Environmental Health Specialist: <u>Kat M</u>	<u>1cGarvy</u>		
Address: 811	Crystal Park Rd, Manitou Springs CO 80829 Owner: Alex Sung and Sur	<u>ı Lee</u>		
Residence: 🛚	#Bedrooms: 5 Commercial: System Installer: Wilkinson Excavat	ion		
SEPTIC TANK: C	Construction Material <u>concrete</u> Capacity Gallon <u>2000 gallon</u>	with Microfast system		
SOIL TREATMEI	NT AREA:			
Trench:	Depth (Range): Width: Total Length: Sq. Ft	i.:		
Bed:	Depth (Range): Width: Total Length: Sq. Ft	.: <u> </u>		
	Depth of Rock: Under PVC: Type of cover on Rock:			
SEEPAGE PITS:	# of Pits: 1 Working Depth #1: 12' #2: Size (L x W) #1 5'x3'	<u>′ (4)</u> #2 Total S	q. Ft. <u>623</u>	
CHAMBER SYST	TEMS:			
Type of Chambo	er: #Chambers: Sq. Ft./Chamber: Bed:   Trench	: Depth (Range):	_	
Sq. Ft. Required	d (10-1): 600 Sq. Ft. Required (10-2): 600 Sq. Ft. Required (10-3): _	Sq. Ft. Required for	Diverter Valve: (10-2)	<u>/(2)</u>
Sq. Ft. Installed	d:			
Engineer Design	n: Y N Engineering Firm: GeoQuest LLC Approval Letter	Provided: Y N		
Well installed a	at time of OWT\$ Inspection: Y 🔯 N 🗌 Public Water: Y 🗌 🛭 🛭	v 🛛		
*Approval will l	be revoked if in the future the well is found to be within 50 feet of the septic	tank and/or 100 feet of t	ne soil treatment area.	
Notes:				

See attached as built GeoQuest LLC Drawing dated 7.6.2017

# On-Site Wastewater Treatment System (OWTS) Record Drawing



However, as with All Underground Absorption Fields, Guarantee from Failure is Impossible. Even with Proper Installation, as Outlined for this Proposed Construction, There Can 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. Homeowners Should be Advised of Maintenance and Special Considerations for Septic Systems. Refer to El Paso County Public Health Brochure: "Maintaining Your Septic System\* for Additional Information. Due to the Possibility of Unknown Water Usage Factors, Geoquest, LLC. Provides No Warranty of this Design or Installation Against Failure or Damage of Any Type.



SCALE: 1" = 30"

# 811 Crystal Park Road Site S-94(R)

Scale: 1" = 30 FT

Drawn by: vsm

Checked by: cem

Crystal Park Subdivision No Schedule Number El Paso County, Colorado **SUITE 101** COLORADO SPRINGS, CO 80908

OFFICE: (719) 481-4560 FAX: (719) 481-9204



Notify Environmental Health of any change of ownership, type of business activity, business name, or billing address by calling (719) 578-3199. Failure to notify Environmental Health may result in late penalties, Permit/License denial or revocation, and business closure. PERMITS/LICENSES TO OPERATE AND ANNUAL FEE PAYMENTS ARE NOT TRANSFERABLE. Permits become void on change of ownership. New owners must apply and pay for a new Permit(s)/License(s) prior to beginning operation.

Attn: ALEX SUNG AND SUN LEE 818 CRYSTAL PARK RD MANITOU SPRINGS, CO 80829



## **EL PASO COUNTY PUBLIC HEALTH ENVIRONMENTAL HEALTH DIVISION**

1675 W. GARDEN OF THE GODS ROAD, SUITE 2044 **COLORADO SPRINGS, CO 80907** PHONE: (719) 578-3199 FAX: (719) 578-3188 www.elpasocountyhealth.org

## **NEW SYSTEM PERMIT - OWTS**

Valid From 2/22/2017 To 2/22/2018

PERMITEE:

**ALEX SUNG AND SUN LEE** 818 CRYSTAL PARK RD **MANITOU SPRINGS, CO 80829** 

Tax Schedule #: 7408000098

Onsite ID: ON0049133

Pormit Issue Date: 02/22/2017

**Dwelling Type: RESIDENTIAL** 

# of Bedrooms (if Res): 5

Proposed Use (if Comm):

Designed Gallons/Day:

Water Source: PRIVATE WELL

OWNER NAME:

**ALEX SUNG AND SUN LEE** 

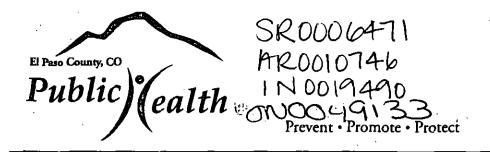
#### **System Installation Requirements:**

- Engineer septic system to be installed on site is sized for a 5 bedroom home with a seepage pit equipped with a Bio-Microbics Microfast system.
- Install according to Geoquest, LLC design, Project No. 16-0961 dated on 15 Feb 2017.
- . Any modifications made to the system shall be reviewed and approved by both Geoquest, LLC and Public Health prior to installing.
- An as-built drawing and a certified approval letter submitted to Public Health is required for final approval.

This permit is issued in accordance with 25-10-106 Colorado Revised Statutes. The PERMIT EXPIRES upon completion/installation of the Onsite Wastewater Treatment System, or at the end of twelve (12) months from date of issue, whichever occurs first. If both a Building Permit and an Onsite Wastewater Treatment System Permit are issued for the same property and construction has not commenced prior to the expiration date of the Building Permit, the Onsite Wastewater Permit shall expire at the same time as the Building Permit. This permit is revocable if all stated requirements are not met. The Onsite Wastewater Treatment System must be installed by an El Paso County Licensed System Contractor, or the property owner.

The Health Officer shall assume no responsibility in case of failure or inadequacy of an Onsite Wastewater Treatment System, beyond consulting in good faith with the property owner or representative. Access to the property shall be authorized at reasonable time for the purpose of making such inspections as are necessary to determine compliance with the requirements of this law (permit).

Inspection request line: Call (719) 575-8699 before 8:30 a.m. of the day that the inspection is requested Weekends & Holidays excluded.



Environmental Health Division

1675 W. Garden of the Gods Rd., Suite 2044 Colorado Springs, CO 80907 (719) 578-3199 phone (719) 578-3188 fax: www.elpasocountyhealth.org

### APPLICATION FOR AN ON-SITE WASTEWATER TREATMENT SYSTEM PERMIT

· · · · · · · · · · · · · · · · · · ·	
Property Information: HIR LP ( Manitous Spr	ing
Property Address: 818 Crystal Park Koal City and Zip: 80829	
Legal Description: 5, te 3-94 R Site Add Crystal Park Sub No 2	-
Tax Schedule #:	
Is the property gated: Yes \( \sum \) No Please provide a gate code if necessary: \( \sum \) Not Needet	_
Site Located Inside City Limits: Yes No Proposed Use: Residential Commercia	l
Water Supply: Well Cistern Municipal Potential Number of Bedrooms: 5	_
Has a Conditional Acceptance Document been issued for this property:  Yes You Unsure	3
Owner Information: Primary Contact	
Owner: Alex Sung & Sun (Engie) Lec Daytime Phone: 79-231-1953	- <u>.</u>
Owners Mailing Address: 12/6 Co Colorado Ave #110, C/5 CO 80904	_
Email Address: Into C palacehomesine Com Fax #: 119-632-9925	_
General Contractor: Palace Homes Fine Phone/Email: 119-491-9635	_
OWTS Installer Information:  Primary Contact	
System Installer: Wilkinson Excavation Daytime Phone: 719-491-0880	_
Email Address: dave @ custom excavating . Com Licensed installer: Tier 1 1 Tier 1	2
All engineer-design systems must be installed by a Tier 2 licensed installer	
OURDENST FEED AC ARRESTED BY THE FIRAGO COLDES ROAD OF HEALTH	$\neg$
CURRENT FEES AS APPROVED BY THE ELPASO COUNTY BOARD OF HEALTH	
All Payments are due at the time of application submittal; by cash, check or major credit card (Visa / MC)	İ
New Permit: \$685.00 (EPCPH Charge) + \$147.00 (EPC Planning Dept. Surcharge) + \$23.00 (CDPHE Surcharge) = \$855.00  Major Repair Permit: \$525.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$548.00	}
Minor Repair Permit: \$240.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$263.00	`
Permits expire one year from date of issuance, unless otherwise noted	
Permits expire one year moin date of issuance, umess otherwise noted	لـــــ
REQUIRED: Provide a complete written scope of work to be performed on the property.	
	}
New Home Build	-
	- [
	-
	-
	-
The following documents MUST be included with your application.	
<ul> <li>A soils report: including at least 1 soil profile excavation pit, in accordance with section 8.5 A-F of OWTS regulations</li> </ul>	. [
A clear and legible design document: including the proposed and alternate locations, as well as system layout, labeled with the state of the st	th
<ul> <li>all setbacks to pertinent structures and features in table 7-1.</li> <li>Provide directions to property, from a main highway, on the back side of application.</li> </ul>	
1 Tovide directions to property, from a main ingrittary, on the back side of application.	- {
Failure to provide the above listed documents may result in denial of the permit application	
I certify that the information provided on this application is in compliance with Section 8.3, Chapter 8 of the Onsite Wastewater System (OWS) Regulations of the El Paso County Board of Health. I also authorize the assigned representative of El Paso County Public Health to enter onto this property in order to obtain information necessary for the issuance of a permit.	
11-V 100.	
Applicants Signature: HEX LXX Date: Date:	

Reviewed 2017 approved fee (12/30/2015)

NEIL

<ul> <li>Property address or lot number must be clearly marked and visible from the road.</li> <li>Profile excavation test pit and/or soil profile holes must be clearly marked</li> <li>Proposed and alternate soil treatment areas must be protected from compaction and disturbance</li> <li>Locked gates require the gate code or lock combination be provided on front of application</li> <li>Please provide directions to the property from a main highway, by text or picture, below.</li> <li>Follow Crystal Park Road From Manitone Ayonus</li> <li>Guing South Through Gate, Ashort distance part gate by mile it is located on the west side of the street. (Right side us going up)</li> </ul>
prive way g18 Crysta Part Rd (rightside) westsided street
Late with the state of the stat
Failure to comply with the above information may result in an additional charge for a return trip.
7 11 /20/m 1/6/22
Permit #: $ONOOY9/33$ Site Inspection date: $ONOOY9/33$
Date Approvals Rcvd: Development Services: 2/2/// Floodplain/enumerations: 1///
Design: Conventional Engineer Design Engineer: Ceoquest, LC  Engineer Job #: 16-0961 Engineer Date Stamped: 2/16/17
LTAR/Soil Type: / O Groundwater: PP1/ PP2 Bedrock: PP1/ PP2
Minimum Requirements: Tank Capacity: 1500 Soil Treatment Area: 600
System Feed: Survive Pump to Gravity Pressure Dosed Other:

System Media: Chambers Rock and Pipe X Other Soil Treatment Area: Trenches Bed

Additional Comments: \_



6825 Silver Ponds Heights #101 Colorado Springs, CO 80908 (719) 481-4560

El Paso County Health Department 1675 West Garden of the Gods Road Colorado Springs, Colorado 80907

June 6, 2017

0N0049133 APN 7400001U5

5.9.17

Re: Septic System Inspection (GQ#16-0961)

811 Crystal Park Road, Manifou Spring CO Site S-94(R),

Crystal Park Subdivision,

El Paso County, Colorado

Dear Sir,

We inspected the installation of the engineered septic system at the above address at several points during its construction as well as the finished product. It has been installed in accordance with our engineered plans and specification. This includes having the correct size septic tanks, the proper grade on all pipes and sections of the absorption field, the correct depth, size and configuration of the absorption field, and the backfill around and over the field.

The field should be seeded in the future to allow for vegetation growth next spring. Additional grading may be required in the future to repair any minor erosion areas until the grass seed takes hold. You should ensure that no vehicles are allowed to park on any portion of the system.

The system is ready for final certification from the El Paso County Health Department. A Certificate of Occupancy (CO) will not be issued by PPRBD until El Paso County Health Department has received this letter and the AS-Built Drawing. Please call me if you have any questions.

Sincerely,

Charles E. Mil

Civil Engineer





### PROFILE PIT EVALUATION

(719) 481-4560

FOR

PALACE HOMES

JOB #16-0961

Site 94, Crystal Park Subdivision, 818 Crystal Park Road, El Paso County, Colorado

Respectfully submitted,

Charles E. Milligan, P.E. Civil Engineer



#### PROFILE PIT FINDINGS

Enclosed are the results of the profile pit for the septic system to be installed at Site 94, Crystal Park Subdivision, 818 Crystal Park Road, El Paso County, Colorado. The location of the test pit was determined by Gordon of Palace Homes. The residence will not be on a public water system. The number of bedrooms in the design for the residence is unknown. Due to the natural slope of the property, the entire system will feed northeast at approximately 22% at least 20 feet. All applicable portions of the El Paso County Health Department Onsite Wastewater Treatment System Regulations (OWTS) must be complied with for the installation of the treatment system.

The inspection was performed on December 12, 2016, in accordance with Table 10-1 of the E.P.C.P.H. OWTS Regulations.

Soil Profile #\*:

- 0 to 6" Topsoil- loam, organic composition.
- 6" to 36" USDA soil texture sandy clay loam, soil type 3, structure shape granular, structure grade 2, non-cemented, LTAR 0.35, dark reddish brown in color, 5 YR 3/3.
- 36" to 8' USDA soil texture loamy sand, soil type 0, structure shape none, structure grade 0, non-cemented, LTAR 1.0, reddish brown in color, 5 YR 4/4, soil type 1 with greater than 35% rock.

Soil Profile #2:

- 0 to 6" Topsoil- loam, organic composition.
- 6" to 8' USDA soil texture sand, soil type 0, structure shape none, structure grade 0, non-cemented, LTAR 1.0, reddish brown in color, 5 YR 4/4, soil type 1 with greater than 35% rock.

No water was encountered during the inspection. Bedrock was not encountered during the inspection. No known wells were observed within 100 feet of the proposed system. All setbacks shall conform to county regulations.

Due to encountering USDA soil type 0 the septic system to be installed on this site shall be designed by a Colorado Licensed Engineer. Based on the observed conditions, we feel a design based on an LTAR of 1.0 is reasonable. A 3 foot deep unlined sand filter (uniformly pressure dosed) will be required. The maximum depth of install for the septic system is 4 feet below existing grade.

If during construction of the field itself, subsurface conditions change considerably or if the location of the proposed field changes, this office shall be notified to determine whether the conditions are adequate for the system as designed or whether a new system needs to be designed.

Weather conditions at the time of the test consisted of mostly cloudy skies, with moderate temperatures.

#### PROFILE PIT LOG - Profile Pit #1 SYMBOL WATER JOB#: 16-0961 DEPTH DATE EVALUATED: 12 Dec 2016 **EQUIPMENT USED: Backhoe** 0"- 6" **TOPSOIL** Loam Organic Composition 3 6"- 36" **DECOMPOSED GRANITE** Fine-coarse Grained **USDA Soil Type: 3** Moderate Density USDA Soil Texture: Sandy Clay Loam Low-moderate Moisture Content USDA Structure Shape: Granular 0 Low-moderate Clay Content USDA Structure Grade: 2 Low-moderate Cohesion Cementation Class: Non-Cemented Low-moderate Plasticity Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.35 Dark Reddish Brown Color Less than 50% Rock 5YR 3/3 36"- 8" **DECOMPOSED GRANITE** Fine-coarse Grained USDA Soil Type: 0 Moderate-high Density **USDA Soil Texture: Loamy Sand** Low Moisture Content USDA Structure Shape: None Low Clay Content USDA Structure Grade: 0 Low Cohesion Cementation Class: Non-Cemented Low Plasticity Long Term Acceptance Rate (LTAR, Treatment Level 1): 1.0 Reddish Brown Color Soil Type 1 w/ > 35% Rock 5YR 4/4

LTAR to be Used for OWTS Sizing: 1.0GPD/SF (USDA Type 0, Treatment soil, Treatment Level 1)

Depth to Groundwater (Permanent or Seasonal): Not Encountered

Depth to Bedrock and Type: Not Encountered

Depth to Proposed Infiltrative Surface from Ground Surface: Unknown (Maximum 4 ft Below Existing Ground Surface))

Soil Treatment Area Slope and Direction: Northeast @ 22% Minimum 3' deep unlined sand filter required

Note: See El Paso County Board of Health Regulation Chapter 8: On-Site Wastewater Treaments Systems (OWTS) Regulations for Additional Information. Refer to Table 10-1 for Corresponding LTAR if Treatment Level 2, 2N, 3, or 3N will be Implemented in the Design of the OWTS. System Sizing Depends on a Number of Factors (i.e. LTAR, # of Bedrooms, Type of Soil Treament Area (STA), Method of Transfer to the STA (Gravity, Dosed, or Pressure Dosed), and Type of Storage / Distribution Media Used in the STA)

Project: 16-0961	Project Name and Address
Sheet: 1 of 2	Project Name and Address
Date: 20 Dec 2016	Palace Homes
	Site S-94 (R) 818 Crystal Park Rd.
Scale: 1/4" = 1'	Crystal Park Subdivision
Drawn by: tcw	El Paso County, Colorado
Checked by: cem	

GEOQUEST, LLC.
6825 SILVER PONDS HEIGHTS SUITE 101 COLORADO SPRINGS, CO 80908
OFFICE: (719) 481-4560 FAX: (719) 481-9204

## **PROFILE PIT LOG - Profile Pit #2** WATER % 5 SYMBOL JOB#: 16-961 DEPTH DATE EVALUATED: 12 Dec 2016 **EQUIPMENT USED: Backhoe** 0"- 6" **TOPSOIL** Loam Organic Composition 6"- 8" **DECOMPOSED GRANITE** Fine-coarse Grained USDA Soil Type: 0 0 **Moderate Density USDA Soil Texture: Sand** Low Moisture Content USDA Structure Shape: None Low Clay Content USDA Structure Grade: 0 Low Cohesion Cementation Class: Non-Cemented Low Plasticity Long Term Acceptance Rate (LTAR, Treatment Level 1): 1.0 Reddish Brown Color Soil Type 1 w/ > 35% Rock 5YR 4/4

LTAR to be Used for OWTS Sizing: 1.0GPD/SF (USDA Type 0, Treatment soil, Treatment Level 1)

Depth to Groundwater (Permanent or Seasonal): Not Encountered

Depth to Bedrock and Type: Not Encountered

Depth to Proposed Infiltrative Surface from Ground Surface: Unknown (Maximum 4 ft below Existing Ground Surface))
Soil Treatment Area Slope and Direction: Northeast @ 22% Minimum 3' deep unlined sand filter required

Note: See El Paso County Board of Health Regulation Chapter 8: On-Site Wastewater Treaments Systems (OWTS) Regulations for Additional Information. Refer to Table 10-1 for Corresponding LTAR if Treatment Level 2, 2N, 3, or 3N will be Implemented in the Design of the OWTS. System Sizing Depends on a Number of Factors (i.e. LTAR, # of Bedrooms, Type of Soil Treament Area (STA), Method of Transfer to the STA (Gravity, Dosed, or Pressure Dosed), and Type of Storage / Distribution Media Used in the STA)

Project: 16-0961	
Sheet: 2 of 2	Project Name and Address
Date: 18 Dec 2016	Palace Homes
	Sit S-94 (R)
	818 Crystal Park Rd.
Scale: 1/4" = 1'	Crystal Park Subdivision

Drawn by: tcw Sch. No.

Checked by: cem El Paso County, Colorado

GEOQUEST, LLC.
6825 SILVER PONDS HEIGHTS SUITE 101 COLORADO SPRINGS, CO 80908
OFFICE: (719) 481-4560 FAX: (719) 481-9204

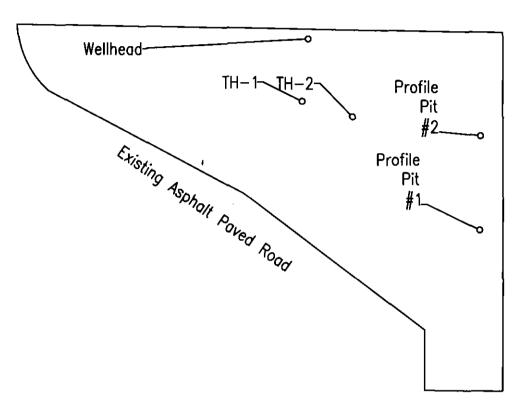
GEOQUEST LLC

SITE MAP

Site S-94 (R)

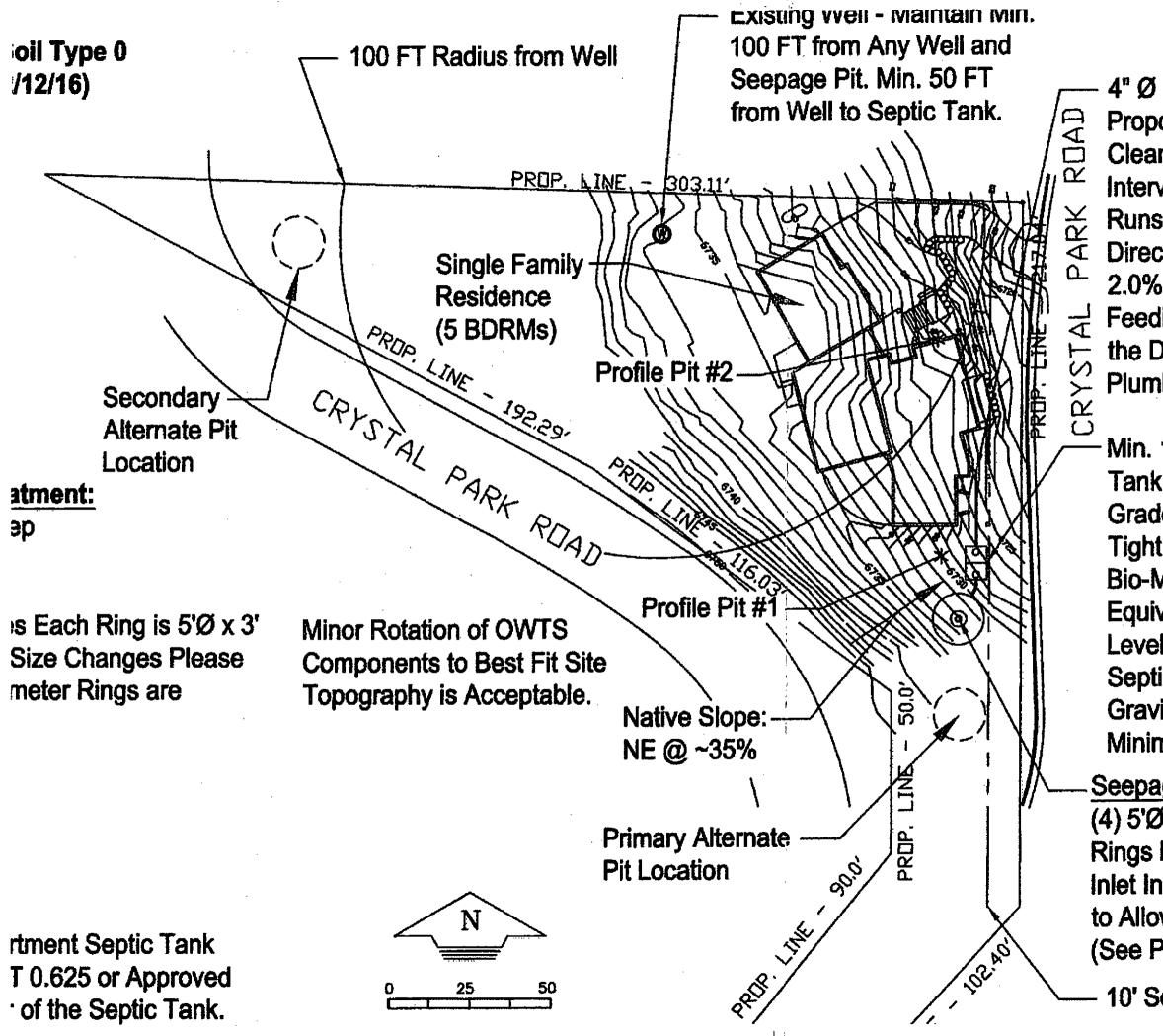
818 Crystal Park Road
Crystal Park
El Paso County,

Colorado Job #16-0961



Location from Wellhead to Profile Pit #1: S. 41° E. - 132' Location from Profile Pit #1 to Profile Pit #2: N. 1 ° W. - 67' GPS coordinates: Pit 1; N. 38° 50' 32.39" W. 104' 54' 22.07" Pit 2; N. 38° 50' 33.00" W. 104' 54' 21.95"





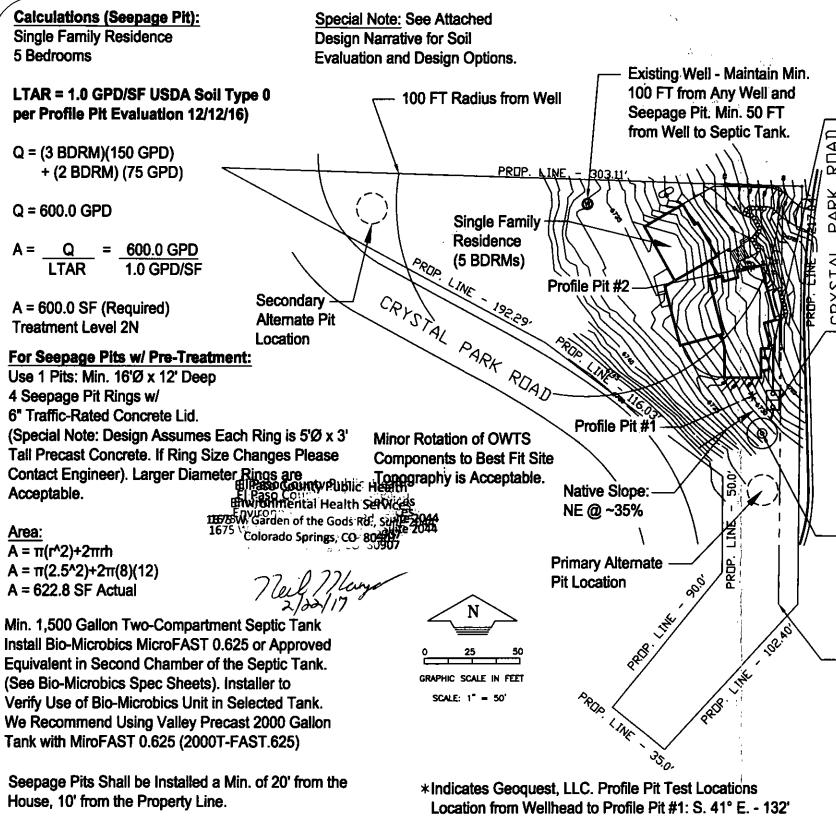
4" Ø PVC Sch. 40 Solid Pipe from the Proposed House to the Septic Tank, with Cleanout within 5 FT of House and at Intervals Not to Exceed 100 FT in Straight Runs and When the Cumulative Change in Direction Exceeds 135 Degrees. Maintain 2.0% Min. and 3.0% Max. Grade on Pipe Feeding the Septic Tank. Exact Location of the Discharge Line from the House per Plumbing Design by Others.

Min. 1,500 Gal. Precast Concrete Septic Tank (Inlet Approx. 36" Below Existing Grade). Secure Risers to Grade (Water Tight, Min. 3" Above Finish Grade). Install **Bio-Microbics MicroFast 0.625 or Approved Equivalent Pre-Treatment Unit (Treatment** Level 2N) in Second Compartment. Install Septic Tank as Shallow as Possible, to Allov Gravity Flow to the Seepage Pit, Wile Minimizing Cover Over Pit.

# Seepage Pit:

(4) 5'Ø x 3' Cylindrical Concrete Seepage Pit Rings Place in 16'Ø Pit. Total Height 12' Belov Inlet Invert. Install Traffic-Rated Concrete Lid to Allow Bury Up to 8' Deep. (See Page 2 for Details).

10' Setback



Special Note: Maintain a Minimum Horizontal Distance of

100 ft between Any Well and Seepage Pits.

Geoquest, LLC. 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 Can 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. Homeowners Should be Advised of Maintenance and Special Considerations for Septic Systems. Refer to El Paso County Public Health Brochure: "Maintaining Your Septic System" for Additional Information. Due to the Possibility of Unknown Water Usage Factors, Geoquest, LLC. Provides No Warranty of this Design or Installation Against Failure or Damage of Any Type.

Location from Profile Pit #1 to Profile Pit #2: N. 1° W. - 67'

GPS Coordinates Profile Pit #1: N. 38° 50' 32.39", W. 104° 54' 22.07"

GPS Coordinates Profile Pit #2: N. 38° 50' 33.00", W. 104° 54' 21.95"

4" Ø PVC Sch. 40 Solid Pipe from the Proposed House to the Septic Tank, with Cleanout within 5 FT of House and at Intervals Not to Exceed 100 FT in Straight Runs and When the Cumulative Change in Direction Exceeds 135 Degrees. Maintain 2.0% Min. and 3.0% Max. Grade on Pipe Feeding the Septic Tank. Exact Location of the Discharge Line from the House per Plumbing Design by Others.

- Min. 1,500 Gal. Precast Concrete Septic Tank (Inlet Approx. 36" Below Existing Grade). Secure Risers to Grade (Water Tight, Min. 3" Above Finish Grade). Install Bio-Microbics MicroFast 0.625 or Approved Equivalent Pre-Treatment Unit (Treatment Level 2N) in Second Compartment. Install Septic Tank as Shallow as Possible, to Allow Gravity Flow to the Seepage Pit, Wile Minimizing Cover Over Pit.

### Seepage Pit:

(4) 5'Ø x 3' Cylindrical Concrete Seepage Pit Rings Place in 16'Ø Pit. Total Height 12' Below Inlet Invert. Install Traffic-Rated Concrete Lid to Allow Bury Up to 8' Deep. (See Page 2 for Details).

10' Setback

## **SPECIAL NOTE:**

All Imported Gravel to be  $\frac{1}{2}$ " -  $2\frac{1}{2}$ " Washed Crushed Rock i.e. CDOT #4 (Coarse Aggregates AASHTO 43) or Approved Equivalent. Gradation Curve to be Provided for Engineer to Approve.

### General Notes:

All Work per El Paso County Board of Health Regulations Chapter 8: On-Site Wastewater Treament Systems (OWTS) Criteria.

All Setbacks Shall Conform to El Paso County Regulations (See Table 7-1 in the Regulations for Additional Information). Contractor/Homeowner Must Verify All Setbacks and Obtain Utility Clearances Prior to Construction.

Contractor/Homeowner is Responsible for Permit. Contractor/Homeowner Must Obtain Approval of Engineered OWTS from the El Paso County Health Department.

All Bends Limited to 45 Degree Ells or Long Sweep Quarter Bends. Areas Under Driveways Shall Be Protected as Per El Paso County Health Department Regulations.

Building Sewer Clean-Outs Shall Be Installed within 5 FT of the Structure and at Intervals Not to Exceed 100 FT in Straight Runs and When the Cumulative Change in Direction Exceeds 135 Degrees.

Grade Surrounding Area to Drain Away from the Soil Treatment Area (STA).

Paving, Planting of Trees/Shrubs, and Vehicular or Hoofed Animal Traffic of Any Kind Over the Leach Field may Cause Premature Failure and is Prohibited.

Refer to Sheet 2 for Additional Details and Information.

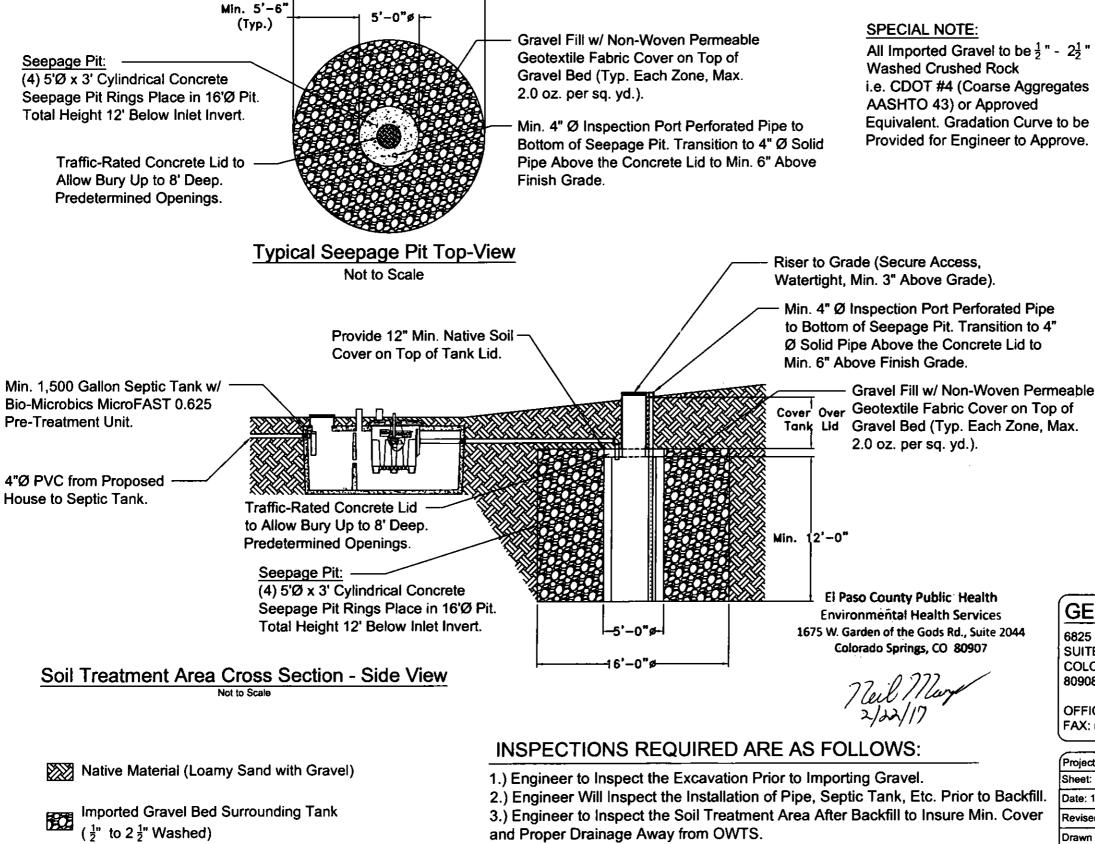
# GEOQUEST, LLC.

6825 SILVER PONDS HEIGHTS SUITE 101 COLORADO SPRINGS, CO 80908

OFFICE: (719) 481-4560 FAX: (719) 481-9204



Project: 16-0961	Project Name and Address
Sheet: 1 of 2	Palace Homes
Date: 15 Feb 2017	818 Crystal Park Road
Revised:	Site S-94 (R)
Drawn by: djp	Crystal Park Subdivision,  No Schedule Number
Checked by: cem	El Paso County, Colorado



and Proper Drainage Away from OWTS.

Notify this Office Min. 24 Hours Prior to Inspection.

Min. 16'-0"ø

### **General Notes:**

All Work per El Paso County Board of Health Regulations Chapter 8: On-Site Wastewater Treament Systems (OWTS) Criteria.

All Setbacks Shall Conform to El Paso County Regulations (See Table 7-1 in the Regulations for Additional Information). Contractor /Homeowner Must Verify All Setbacks and Obtain Utility Clearances Prior to Construction.

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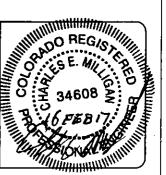
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# GEOQUEST, LLC.

6825 SILVER PONDS HEIGHTS **SUITE 101** COLORADO SPRINGS, CO 80908

OFFICE: (719) 481-4560 FAX: (719) 481-9204



Project: 16-0961 Project Name and Address Palace Homes 818 Crystal Park Road

Site S-94 (R) Revised: Crystal Park Subdivision, Drawn by: djp No Schedule Number Checked by: cem El Paso County, Colorado

Sheet: 2 of 2 Date: 15 Feb 2017