

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: BRUCE AND KAREN HANSON
7655 B LARK BUNTING CT
COLORADO SPRINGS, CO 80908



**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 8/25/2017 To 8/25/2018

PERMITEE : **BRUCE AND KAREN HANSON**
7655 B LARK BUNTING CT
COLORADO SPRINGS, CO 80908

Onsite ID: ON0049319
Tax Schedule # : 5129008012
Permit Issue Date: 08/25/2017
Dwelling Type: RESIDENTIAL

OWNER NAME : **BRUCE AND KAREN HANSON**

of Bedrooms (if Res): 1
Proposed Use (if Comm):
Designed Gallons/Day:
Water Source: PRIVATE WELL

System Installation Requirements:

- An Engineered OWTS system to be installed on site due to encountering seasonal and standing groundwater at 6'6", requiring a Tier II licensed installer.
- TIER II LICENSED INSTALLER MUST BE NAMED AND VERIFIED PRIOR TO FINAL APPROVAL OF SYSTEM.
- System installation to include gravity fed with a d-box to chambers in trenches, max installation depth of 30" due to ground water evidence. Minimum tank requirements 1000 gallon and 525 sq ft of soil treatment area (44 Q4 / 35 Arc 36 chambers required).
- The system must be installed per approved Parr Engineering design document #17.251 stamped and dated 6/21/2017, changes to the approved design document must be submitted and approved by Public Health prior to installation.
- All horizontal setbacks must be maintained through system installation
- Engineered systems require the as built drawing and certification letter from the engineer be submitted to Public Health prior to final approval and Regional Building sign off
- Ensure that all work is completed prior to contacting and requesting final line for inspection, otherwise

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.**

Neil May 8/25/17

PARR ENGINEERING & CONSULTING, INC.

Christopher L. Parr, P.E. Principal
11590 Black Forest Road, Suite 10
Colorado Springs, Colorado 80908
Office: 719-494-0404

Structural Engineering & Consulting
Geotechnical Engineering
On-Site Wastewater Treatment Design
Inspections & Technical Reports

STA CALCULATIONS (Gravity Distribution - Trench w/ Chambers)

Date: June 21, 2017

Job: JN: 17.251

Location: 7655 Lark Bunting Court, 80908 (PREUSS)



Residential, Single Family Dwelling

RE: STA Soil Evaluation Report by Parr Engineering dated June 12, 2017; JN: 17.251

Soil Type: 4 Clay
Treatment Level: TL1
LTAR: 0.20

WASTEWATER FLOW AND STRENGTH

Bedrooms 1
Auxiliary Building/Office 0
Persons 2
Usage 75 Gals/Person/Day

Daily Design Flow (Q_{design}) = Gallons/Day

75 Gal./Person/Day x (2 Persons/Bedroom x 1 Bedrooms) = GPD

Design Flow, Q = 150 GPD

DESIGN CRITERIA - COMPONENTS

1 Bedrooms

1000 Gallon Septic Tank

DESIGN CRITERIA - SOIL TREATMENT AREA

Long-Term Acceptance Rate (LTAR) =

0.20

Size Adjustment Factor

1.0

Method of Application - Gravity Dosed, Trench

Size Adjustment Factor

0.7

Type of Distribution Media - Chambers, Trench

Soil Treatment Area, sq.ft. = Design Flow, Q / LTAR * Adjustment factors

= (150 gallons/day / 0.20) * 1.0 * 0.70 =

525 sq.ft. Infiltrator Surface

El Paso County Public Health
Environmental Health Services
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Colorado Springs, CO 80907

Neil M. [Signature]
8/25/17

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CHAMBER & TRENCH CALCULATIONS

Quick4 or Quick4 Plus Standard Chamber Specifications - 34"W x 53"L x 12"H, Effective Length = 48"
ARC 36 Chamber Specifications - 34"W x 63"L x 13"H, Effective Length = 60"

CHAMBERS REQUIRED

Quick4: 12 sq.ft. treatment area
525 sq.ft. / 12 sq.ft. per chamber =

44 Quick4 Chambers

ARC 36: 15 sq.ft. treatment area
525 sq.ft. / 15 sq.ft. per chamber =

35 ARC 36 Chambers

TRENCH LENGTH REQUIREMENTS

4 Rows of Chambers (30 ft. wide STA):

Quick4: 44 Chambers x 4.42 ft. per chamber / 4 Rows =

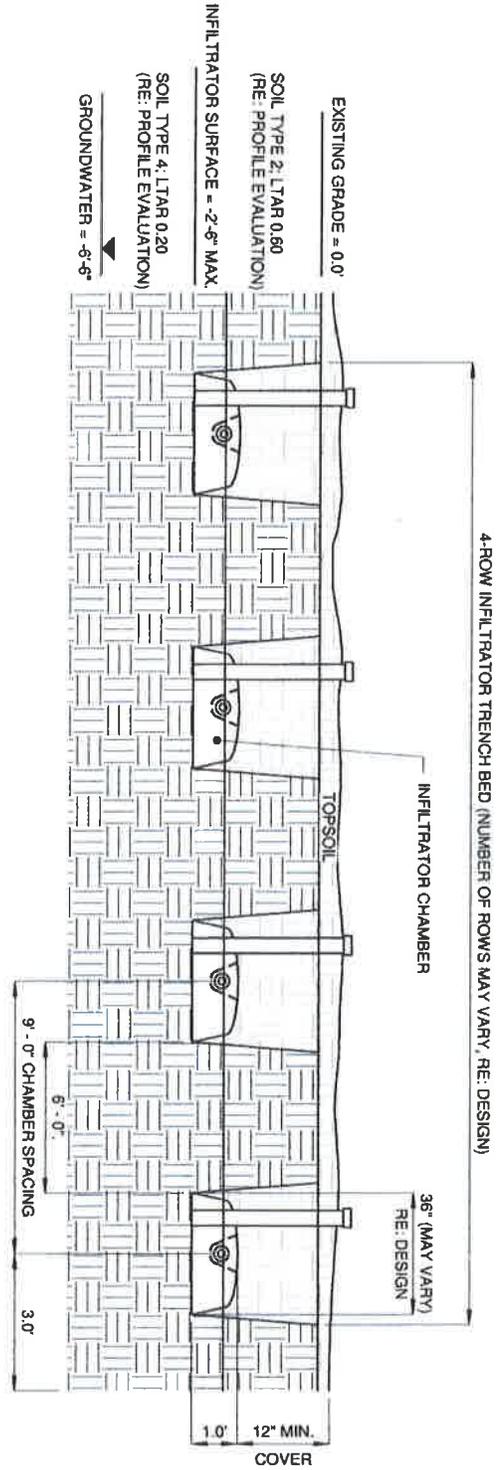
49 ft trench length(s)

ARC 36: 35 Chambers x 5.25 ft. per chamber / 4 Rows =

46 ft trench length(s)

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Neil May
8/25/17



1 Infiltrator Trench Bed - Level (4-Rows)
3/8" = 1'-0"

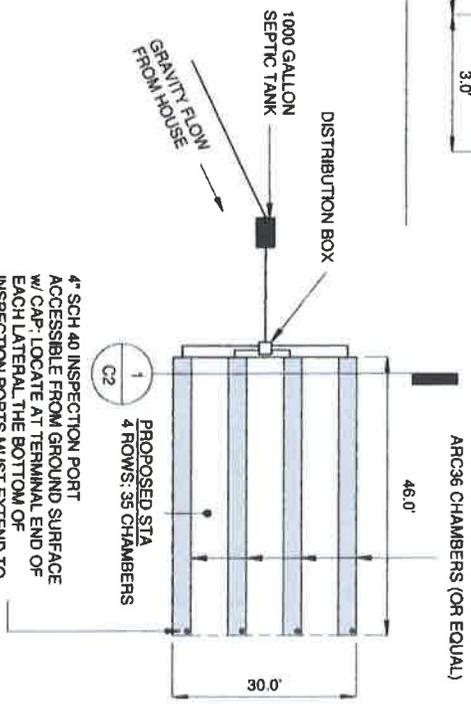
- PLAN NOTES:
1. MINIMUM HORIZONTAL DISTANCE BETWEEN SPRING WELL AND STA TO BE 100 FT.
 2. MINIMUM HORIZONTAL DISTANCE BETWEEN SPRING WELL AND SEPTIC TANK TO BE 50 FT.
- FROM HOUSE TO SEPTIC TANK:
1. PROVIDE SCHEDULE 40 PIPE WITH CLEANOUT WITHIN 5 FT. OF HOUSE.
 2. SEPTIC TANK TO BE NO DEEPER THAN 48" BELOW GRADE AND SHALL INCLUDE A RISER TO GRADE (WATER TIGHT) WITH SECURE LID.
 3. SEPTIC TANK MUST INCLUDE EFFLUENT SCREEN.
- FROM SEPTIC TANK TO STA:
1. PROVIDE SCHEDULE 40 PIPE FROM SEPTIC TANK TO STA.
 2. PROVIDE DISTRIBUTION BOX W/ RISER TO GRADE AT STA INLET.
 3. PROVIDE INSPECTION PORTS AT END OF EACH TRENCH.

3 Gravity, Conventional Notes
1 1/2" = 1'-0"

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Neil Meyer
9/25/17

2 Soil Treatment Area - Gravity, Trench
1" = 20'-0"



4" SCH 40 INSPECTION PORT ACCESSIBLE FROM GROUND SURFACE W/ CAP. LOCATE AT TERMINAL END OF EACH LATERAL THE BOTTOM OF INSPECTION PORTS MUST EXTEND TO INFILTRATOR SURFACE AND NOT BE CONNECTED TO THE END OF THE DISTRIBUTION PIPE



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Phone: 719-494-0404

7655 Lark Bunting Court, 80908
(PREUSS)

STA Section	
Project number	17 251
Date	06/21/17
Drawn by	J.DUNKLE
Checked by	C.PARR
C2 OF 2	
Scale As indicated	

