| ON-SITE WASTE DISPOSAL PERMIT                                                                                       |
|---------------------------------------------------------------------------------------------------------------------|
| COUNTY OF JOHNSON - STATE OF WYOMING                                                                                |
| PERMIT NO. 886  AMOUNT \$ 150 6                                                                                     |
| This is to certify that the individual sewage disposal system located at 33 Silver Foylu.                           |
| Lot SEY See. 9 Block T49 N Z 81 W Constructed for                                                                   |
| Zick JARVIS 450 galflow.                                                                                            |
| Lot SEY See. 9  Block T49N R81W Constructed for  Lick THRUIS 450 gal Flow.  installed by Smith Excav.  date 9/12/07 |
| has been designed, constructed, and installed in compliance with the minimum requirements of Johnson                |
| County Regulations. These regulations meet minimum requirements of D.E.Q. and this certificate does not             |
| warrant or otherwise guarantee the continued performance of this system.                                            |
|                                                                                                                     |
| Johnson County Sanitarian  Johnson County Health Officer                                                            |
| Dated this 29 day of The 2008                                                                                       |
|                                                                                                                     |



P.O. Box 1004 • 381 N. Main • Buffalo, WY 82834 (307) 684-7029 • Fax (307) 684-0109 E-Mail: grizzly@vcn.com

August 27, 2007

Johnson County Sanitarian 76 North Main Street Buffalo, WY 82834 Rick Durfee

Rick:

Attached is the application with appropriate drawings for the proposed septic system to be located at 33 Silver Fox Lane (SE% of Section 9, T49N, R81W).

The system is designed for a three (3) bedroom home or, 450 gallons per day.

Three (3) percolation tests were conducted with the slowest of 13.3 minutes per inch used for design. Using an absorption system loading rate of 0.551 gallons per day per square foot, the minimum absorption area is 817 square feet.

Three trench system have been designed (1) Conventional trench system with 6" washed rock below the invert, (2) Conventional trench system with 12" washed rock below the invert, and (3) Infiltrator Chamber Unit trench system. Any system may be installed at the Owners option.

If you have any questions, please do not hesitate to contact me.

Sincerely,

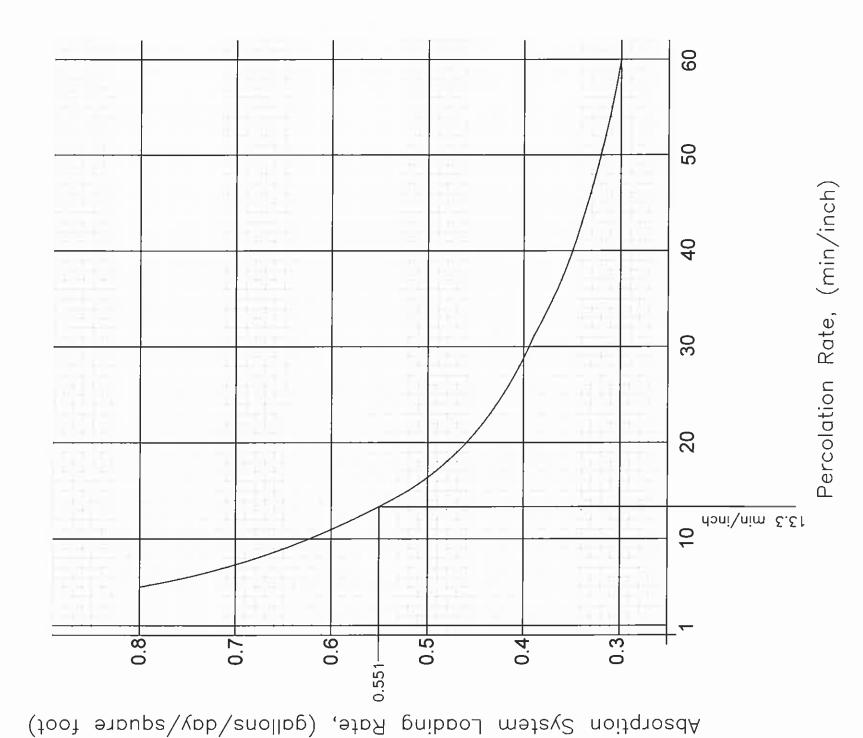
Keith A. Neustel, PE

Rick Jarvis xc:

| APPLIC                                                                                                                                                                                                                                                  | ATION FOR INDIV                                                                                     | APPLICATION FOR INDIVIDUAL SEWAGE DISPOSAL SYSTEM JOHNSON COUNTY, WYOMING                                           | POSAL SYSTEM                                         | h                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------|
| TO: JOHNSON COUNTY SANITARIAN 76 NORTH MAIN BUFFALO, WY 82834 PH: Applicant: Rick Jarvis                                                                                                                                                                | Y SANITARIAN<br>134 PH: 307/684-7102                                                                | 7102                                                                                                                |                                                      |                      |
| dress:                                                                                                                                                                                                                                                  | 187 E. Foote Street                                                                                 | Buffalo                                                                                                             | Wyoming                                              | 82834<br>Zip Code    |
| of Facility:<br>at site:<br>ion:                                                                                                                                                                                                                        | SE1/4 Section:                                                                                      | 9 , T 49N<br>Buffalo , Block                                                                                        | Wyoming Lot                                          | R 81W<br>82834       |
| *Single Family Home: Multiple Family Dwelling: Other Non-Commercial Use: Water Supply: Municipal:                                                                                                                                                       | g:<br>Use:<br>ipal:                                                                                 | Number o                                                                                                            | Number of Bedrooms: Number of Bedrooms: Private Well |                      |
| Lot Size and/or Area: 40.01 ac ± Ground Slope in Disposal Field Area: Soil Type: Clayey Sand Percolation Test Results (min./inch): 1 11.4 ;, 2 13. Depth to Seasonal High Water Table: Depth to Bedrock or Impervious Layer: How were these determined: | ac ± eld Area: n./inch): 2 13.3 er Table: ious Layer:                                               | 1% Southerly  ; 3 13.3  To be verified (est 8'-10')  To be determined by Contractor during or prior to construction | r during or prior to con                             | struction            |
| Septic Tank Capacity and Material: Approx. Dimensions: Type of Inlet:                                                                                                                                                                                   | 4.5                                                                                                 | 1000 gallon concrete  (L) 8 :;  Type of Outlet:                                                                     | (D) 6.5<br>PVC                                       |                      |
| Disposal System:<br>Description of other:                                                                                                                                                                                                               | Bed :, Trench X Conventional with Infiltrator Chamber Optional                                      | ٠٠,                                                                                                                 | Other                                                |                      |
| Trench Dimensions:<br>Trench Dimensions:<br>Trench Dimensions:                                                                                                                                                                                          | (No.) 3 ,<br>(No.) 3 ,<br>(No.) 3 ,                                                                 | (W) 3' , (W) (W) 3' , (W)                                                                                           | (L) 63'<br>(L) 49'<br>(L) 43.75'                     | (Alt. 1)<br>(Alt. 2) |
| Depth of Washed Rock Below Invert:  Total Infiltrative Surface Provided (sq. ft.):  Depth from Bottom of Bed/Trench to Ground Surface:                                                                                                                  | Below Invert: 6" e Provided (sq. ft.): 6 ed/Trench to Ground Si                                     | (12" Alt. 1)  817  urface: 3'-4'                                                                                    |                                                      |                      |
| Registered Engineer:<br>Engineering Firm:                                                                                                                                                                                                               | Keith A. Neustel, WY<br>Grizzly Engineering<br>PO Box 1004<br>Buffalo, WY 82834<br>PH: 307/684-7029 | Keith A. Neustel, WY PE&LS 2085<br>Grizzly Engineering<br>PO Box 1004<br>Buffalo, WY 82834<br>PH: 307/684-7029      |                                                      |                      |

TABLE RATE ABSORPTION SYSTEM LOADING

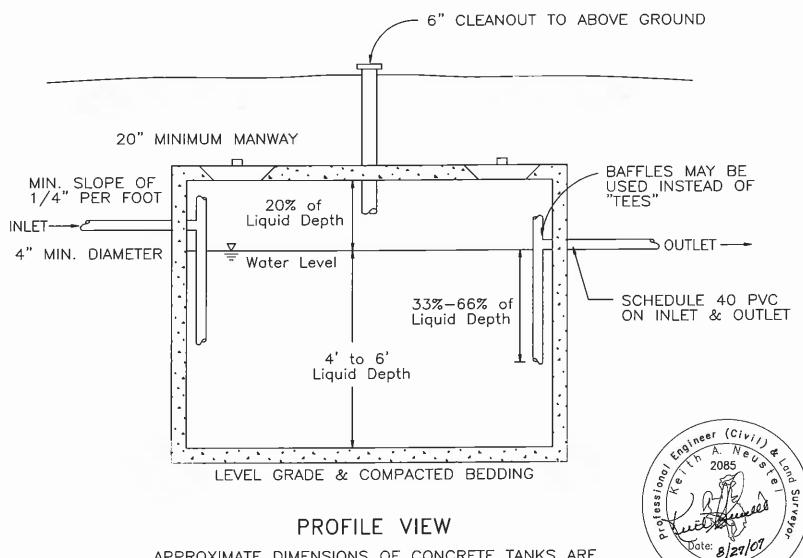
Sizing System Absorption Soil



Jarvis APPLICAN<sup>-</sup>

Fox Rick Jar 33 Silve Buffalo,





**APPLICANT** 

Rick Jarvis 33 Sllver Fox Lane Buffalo, Wyoming

#### GENERAL NOTES

- The septic tank shall be constructed of durable material not subject to excessive corrosion or decay and structurally cap able of supporting the loads to which it will be subjected.
- 2. The septic tank shall be watertight.
- Minimum liquid volume of septic tanks shall be 1000 gallons for residences up through four bedrooms. Additional capacity of 250 gallons per bedroom shall be provided for each bedroom over four.
- 4. The septic tank shall have length to width ratio of not less than two to one, or be partitioned to protect against short circuiting. If partitioned, the volume of the first compartment must be at least 50% of the total required volume.
- A manway access shall be provided to each compartment. Inlet and outlet devices must be accessible. A cleanout shall also be provided to each compartment and must extend to the ground surface and be capped.
- Septic tank supplier and/or manufacturer shall be DEQ approved.



GRIZZLY ENGINEERING

CONSULTING ENGINEERS and LAND SURVEYORS
P.O. BOX 1004
BUFFALO, WYOMING 82834
307/684-7029

# STANDARD SEPTIC TANK DETAIL SHEET

DATE OF AUTHORIZATION:

APPROXIMATE DIMENSIONS OF CONCRETE TANKS ARE 8.0 FT. LONG BY 4.5 FT. WIDE BY 6.5 FT. DEEP WITH A LIQUID DEPTH OF 5.5 FT. MINIMUM CAPACITY = 1,000 GAL

NOTE: TANKS CONSTRUCTED OF MATERIAL OTHER THAN CONCRETE MAY BE USED AS LONG AS THEY ADHERE TO ALL CONDITIONS CONTAINED WITHIN THE GENERAL NOTES LISTED ON THIS SHEET.

# FOUND ALUMINUM CAPPED REBAR STAMPED "PELS 2085" WELL LOCATION -HOUSE FENCE LINE 10' MIN. ~ SEPTIC TANK NOTES 1. System shown is for a Conventional trench system- see appropriate drawings for optional Infiltrator Chamber Unit trench system (Owners Option) 2. Well location responsibility of Owner and must conform to "General Notes" listed on this Plan Sheet. NORTH Scale: 1" = 100'

### **APPLICANT**

Rick Jarvis 33 Silver Fox Lane Buffalo, Wyoming

#### GENERAL NOTES

- 1. Septic tanks shall have the following minimum separation distances:
  - 5 ft. from dwelling
  - 50 ft from any water well 50 ft. from waterways

  - 25 ft. from water lines
  - 10 ft. from property lines
- 2. Disposal field must meet the following minimum seperation distances:
  - 100 ft. from any water well
    50 ft. from waterways
    25 ft. from drinking water lines
    10 ft. from dwelling or building
    10 ft. from septic tank

  - 10 ft. from property lines
- 3. All methods and materials used in septic system construction shall conform to the Wyoming Department of Environmental Quality, Water Quality Rules and Regulations, Chapter XI.

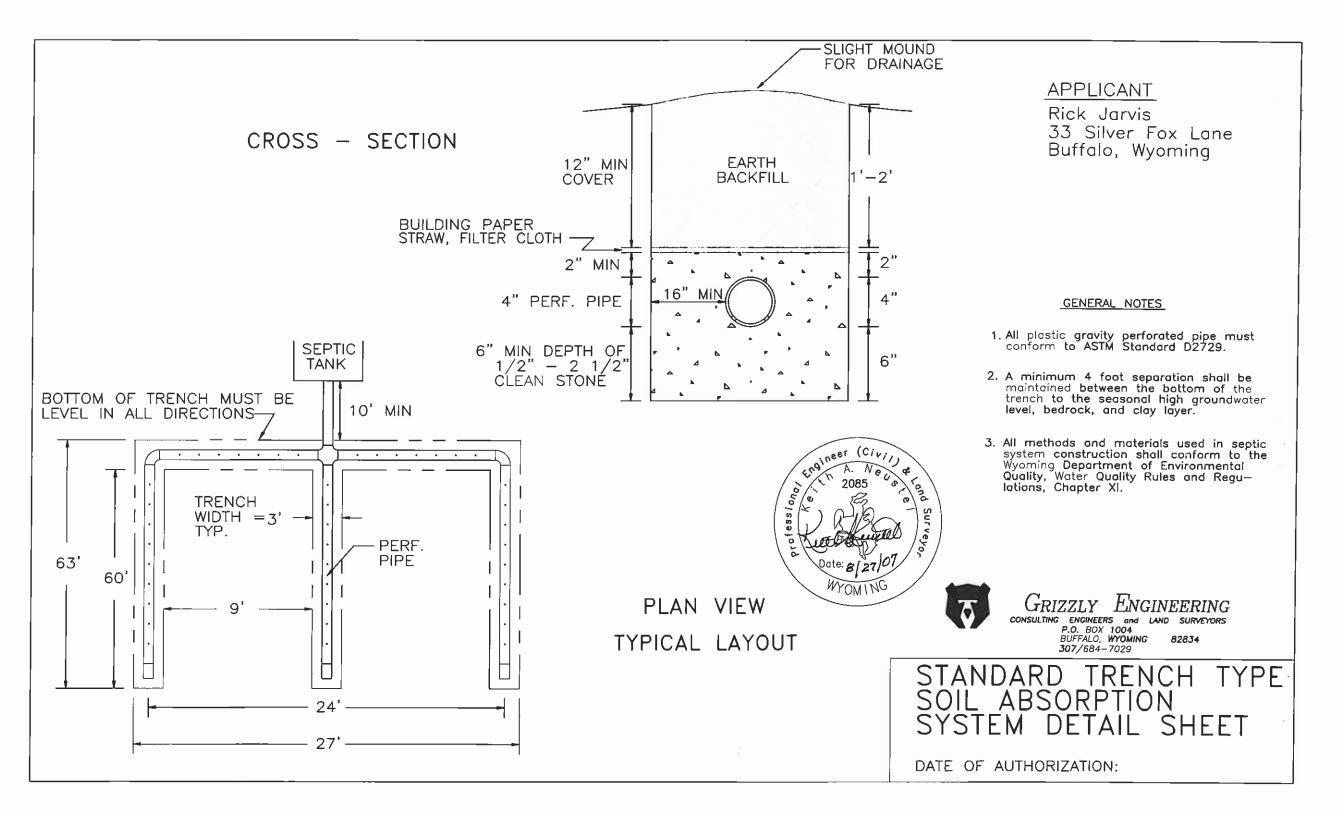


CONSULTING ENGINEERS and LAND SURVEYORS

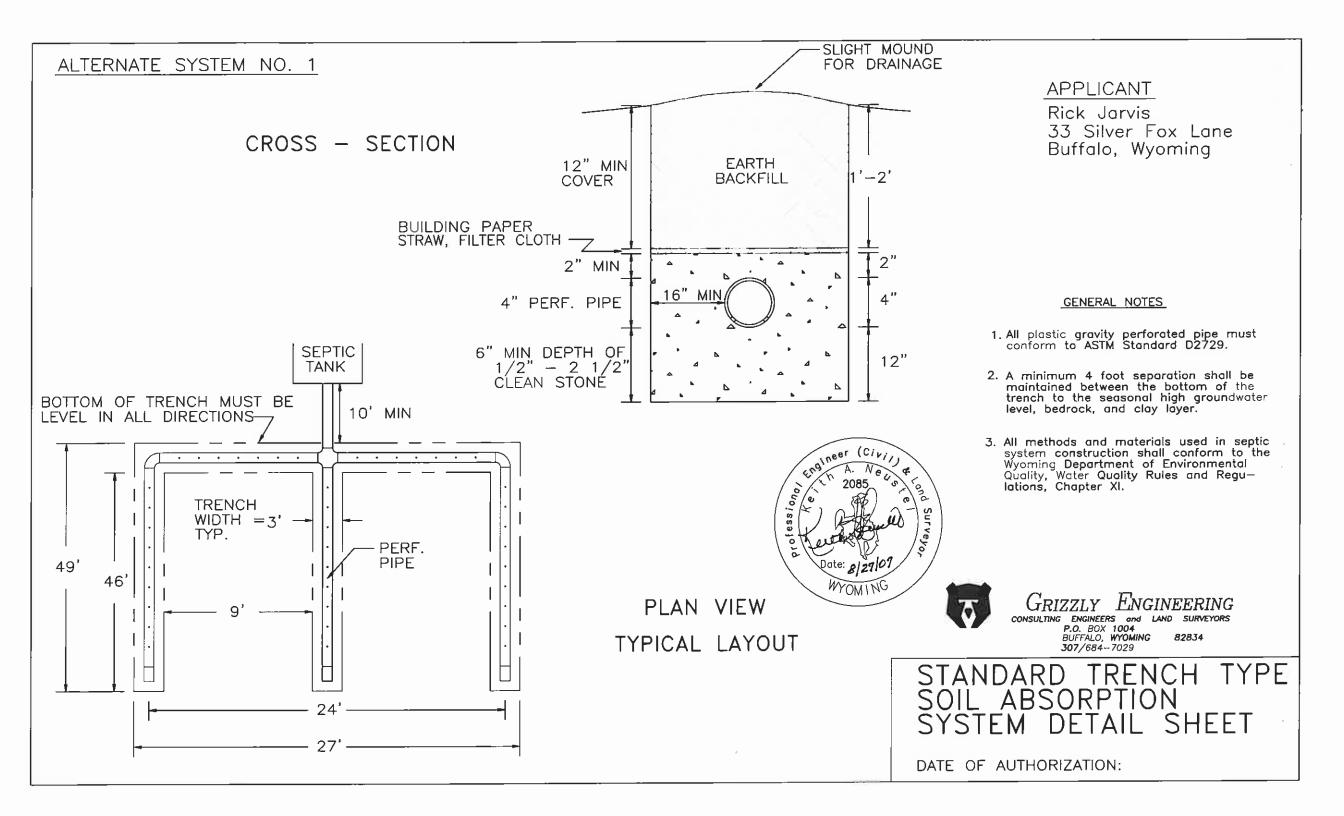
P.O. BOX 1004
BUFFALO, WYOMING 82834 307/684-7029

# PLAN SHEET

DATE OF AUTHORIZATION:



## ALTERNATE SYSTEM NO. 1 FOUND ALUMINUM CAPPED REBAR -STAMPED "PELS 2085" APPLICANT Rick Jarvis 33 Silver Fox Lane Buffalo, Wyoming WELL LOCATION ~ HOUSE FENCE LINE 10' MIN. ~ - SEPTIC TANK GENERAL NOTES 1. Septic tanks shall have the following minimum separation distances: 5 ft. from dwelling 50 ft from any water well 50 ft. from waterways 25 ft. from water lines 10 ft. from property lines 2. Disposal field must meet the following minimum seperation distances: 100 ft. from any water well 50 ft. from waterways 25 ft. from drinking water lines 10 ft. from dwelling or building 10 ft. from septic tank 10 ft. from property lines All methods and materials used in septic system construction shall conform to the Wyoming Department of Environmental Quality, Water Quality Rules and Regu— lations, Chapter XI. NOTES 1. System shown is for a Conventional trench system- see appropriate drawings for optional infiltrator Chamber CONSULTING ENGINEERS and LAND SURVEYORS Unit trench system (Owners Option) P.O. BOX **1004** BUFFALO, **WYOMING 82834** 2. Well location responsibility of Owner and must conform to "General Notes" 307/684-7029 PLAN SHEET listed on this Plan Sheet. NORTH Scale: 1" = DATE OF AUTHORIZATION:



## ALTERNATE SYSTEM NO. 2 FOUND ALUMINUM CAPPED REBAR -STAMPED "PELS 2085" **APPLICANT** Rick Jarvis 33 Sllver Fox Lane Buffalo, Wyomina WELL LOCATION ~ HOUSE FENCE LINE 10' MIN. ~ - SEPTIC TANK GENERAL NOTES 1. Septic tanks shall have the following ~ 43.75<sup>°</sup> minimum separation distances: 5 ft. from dwelling 50 ft from any water well 50 ft. from waterways 25 ft. from water lines 10 ft. from property lines 2. Disposal field must meet the following minimum seperation distances: 100 ft. from any water well 50 ft. from waterways 25 ft. from drinking water lines 10 ft. from dwelling or building 10 ft. from septic tank 10 ft. from property lines 3. All methods and materials used in septic system construction shall conform to the Wyoming Department of Environmental Quality, Water Quality Rules and Regu-lations, Chapter XI. NOTES Engineer (Civi) 1. System shown is for an Infiltrator Chamber Unit trench system— see appropriate drawings for optional Conventional CONSULTING ENGINEERS and LAND SURVEYORS P.O. BOX 1004 trench system (Owners Option) BUFFALO, **WYOMING** 82834 307/684-7029 2. Well location responsibility of Owner and must conform to "General Notes" PLAN SHEET listed on this Plan Sheet. NORTH Scale: 1" = 100' DATE OF AUTHORIZATION:

