

■ **ON-SITE WASTE DISPOSAL PERMIT** ■
COUNTY OF JOHNSON - STATE OF WYOMING

PERMIT NO. 813

AMOUNT \$ 150.00

This is to certify that the individual sewage disposal system located at Prairie Lands Sub.
Subdivision

Lot #1 29 Deer Trail Sec. 1 Block NE SE 1/4 T49N R81W Constructed for

Gary Marshall

installed by Smith EXCAV. date 9/06

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.

Rich Juffer

Johnson County Sanitarian

W. J. L.

Johnson County Health Officer

Dated this 20 day of Sept., 06



NELSON
ENGINEERING

dba
GRIZZLY ENGINEERING
Consulting Engineers & Land Surveyors

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

September 9, 2006

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

Rick:

Attached is the application with appropriate "As-Built" drawings for the septic system located at 29 Deer Trail – Lot 1, Prairie Lands Subdivision, Phase III.

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

The system is designed based on an average of previously percolation tests conducted in the subdivision of 21.4 minutes per inch. Using an absorption system loading rate of 0.445 gallons per day per square foot, the minimum absorption area is 1012 square feet.

A Conventional trench system using 12" washed rock below the invert was installed along with a 1250 gallon septic tank.

If you have any questions, please contact me.

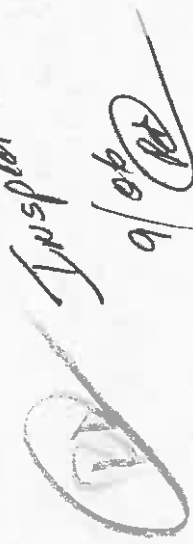
Sincerely,



Keith A. Neustel, PE

xc: Gary Marshall

Just expected



APPLICATION FOR INDIVIDUAL SEWAGE DISPOSAL SYSTEM
JOHNSON COUNTY, WYOMING

TO: JOHNSON COUNTY SANITARIAN
76 NORTH MAIN
BUFFALO, WY 82834 PH: 307/684-7102

Applicant: GARY MARSHALL

Mailing Address: 53 Foothills Lane Buffalo WY. 82834
Phone #: 684-2628 Cell 351-2466 State Zip Code

Location of Facility: N 1/2 SE 1/4 Section: 1, T 49 N R 81 W
Address at site: 29 Deer Trail
Subdivision: Prairie Lands III, Block N/A, Lot 1

*Single Family Home: X, Number of Bedrooms: 3
Multiple Family Dwelling: _____, Number of Bedrooms: _____
Other Non-Commercial Use: _____
Water Supply: Municipal, Private Well X

Lot Size and/or Area: 2.51 Acres
Ground Slope in Disposal Field Area: Relatively Flat
Soil Type: Silty-Leam
Percolation Test Results (min./inch): 1 _____; 2 _____; 3 _____
21.4 based on previously conducted tests.
Depth to Seasonal High Water Table: Over 20'
Depth to Bedrock or Impervious Layer: Over 20'
How were these determined: well log

Septic Tank Capacity and Material: 1250 gal. concrete
Approx. Dimensions: (W) 5' (L) 8'; (D) 6.5'
Type of Inlet: PVC; Type of Outlet: PVC

Disposal System: _____ Bed _____; Trench X; Other _____
Description of other: _____

Bed Dimensions: (W) N/A, (L) N/A
Trench Dimensions: (No.) 2, (W) 3', (L) 9.5'

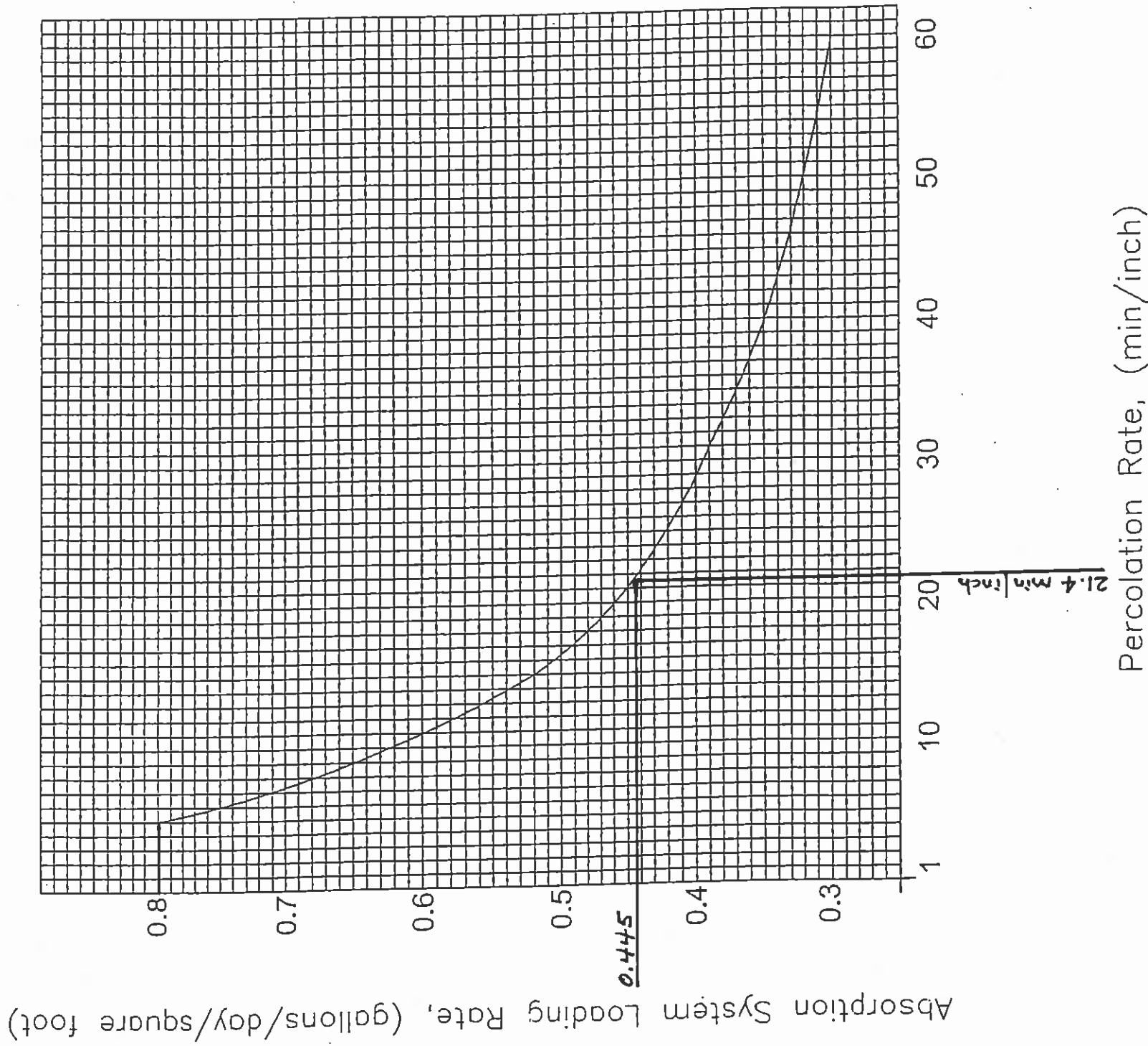
Depth of Washed Rock Below Invert: 12"
Total Infiltrative Surface Provided (sq. ft.): 1012
Depth from Bottom of Bed/Trench to Ground Surface: 2 1/2' - 4'

Registered Engineer: _____
Engineering Firm: Keith A. Neustel, IVY PE&LS 2085
Grizzly Engineering
PO Box 1004
Buffalo, WY 82834
PH: 307/684-7029

Gary Marshall
Applicant: 8/11/06
Date: _____

ABSORPTION SYSTEM LOADING RATE TABLE

For
Soil Absorption System Sizing



APPLICANT

GARY Marshall
29 Deer Trail
Johnson Co., WY.



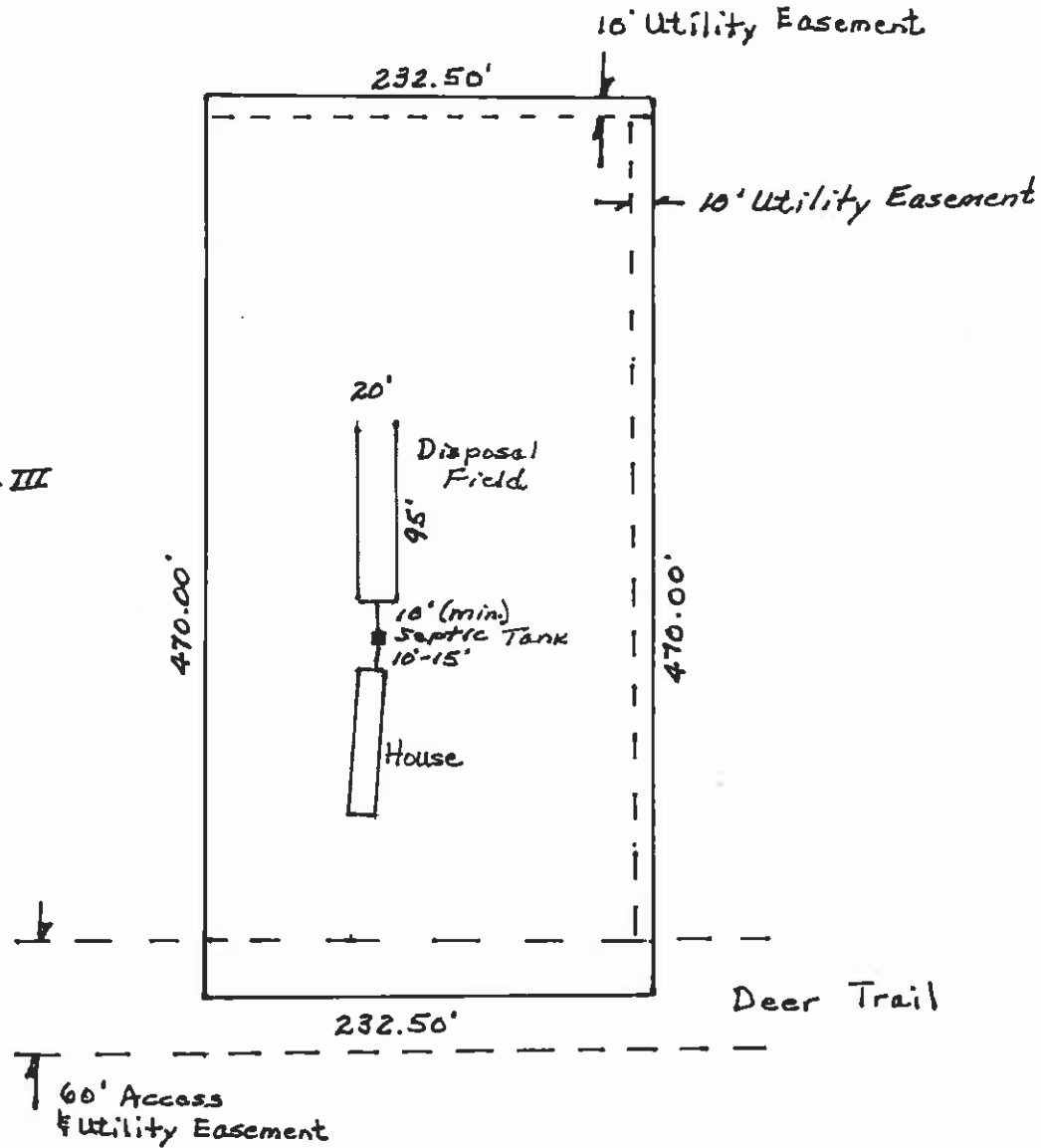


NORTH

Scale: 1" = 100'

Lot 1, Prairie Lands Sub. III
2.51 Ac.±

"As Built" Drawing



Note:

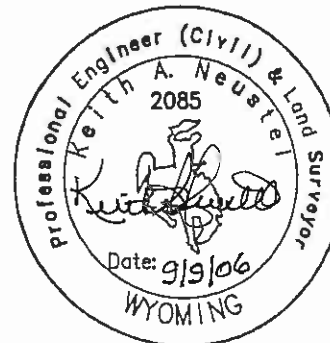
Well and/or water lines responsibility of Owner and shall adhere to "General Notes" listed on this sheet.

APPLICANT

GARY Marshall
29 Deer Trail
Johnson Co., WY.

GENERAL NOTES

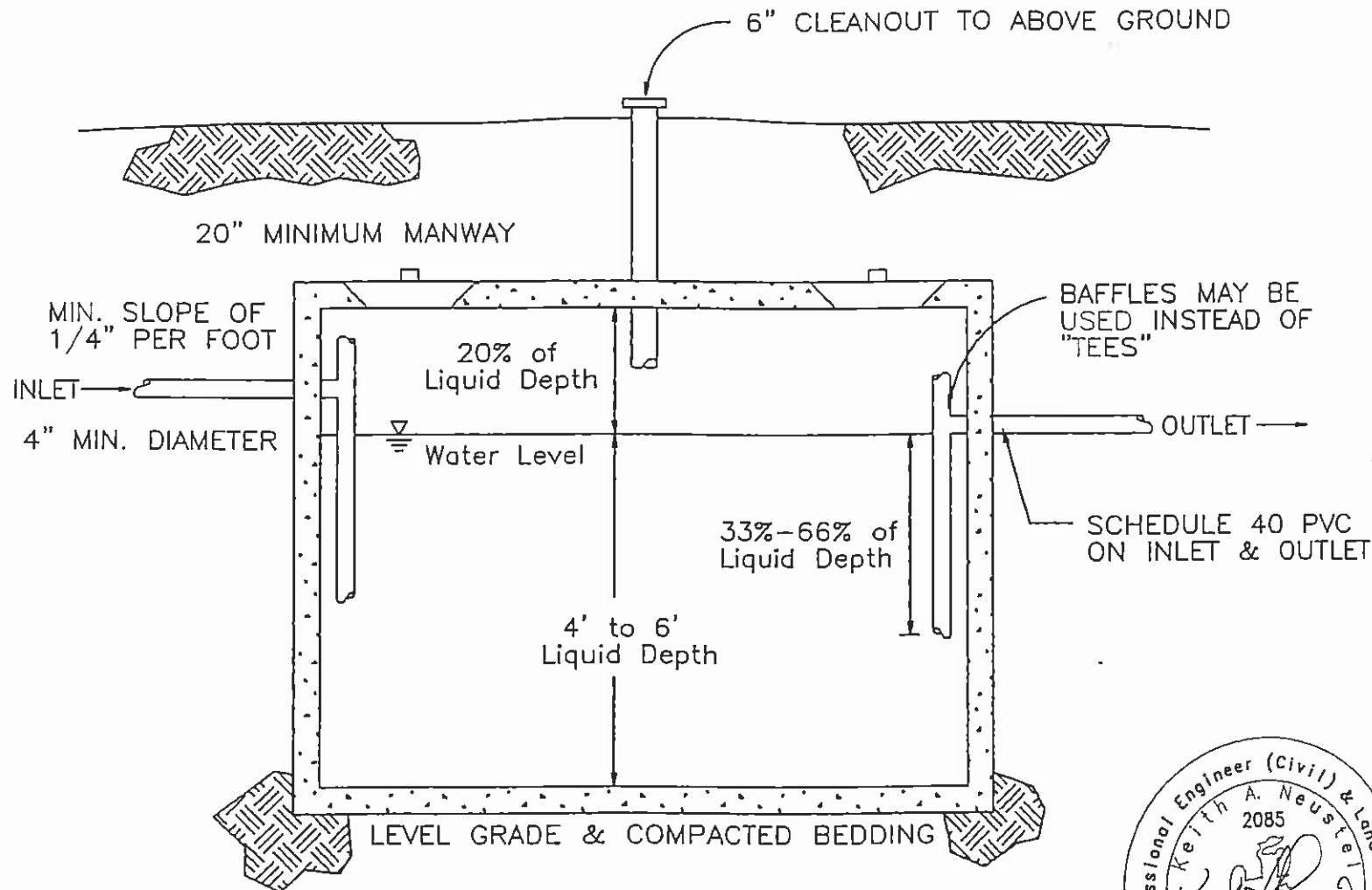
1. Septic tanks shall have the following minimum separation distances:
 - 5 ft. from dwelling
 - 50 ft. from any water well
 - 50 ft. from waterways
 - 25 ft. from water lines
 - 10 ft. from property lines
2. Disposal field must meet the following minimum separation distances:
 - 100 ft. from any water 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.



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

PLAN SHEET

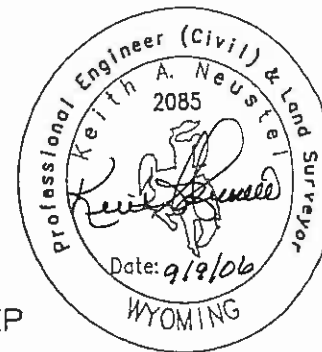
DATE OF AUTHORIZATION:



PROFILE VIEW

APPROXIMATE DIMENSIONS OF CONCRETE TANKS ARE
8 FT. LONG BY 5 FT. WIDE BY 6.5 FT. DEEP
 WITH A LIQUID DEPTH OF FT.
~~MINIMUM~~ CAPACITY = 1250 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.



APPLICANT

GARY MARSHALL
 29 DEER TRAIL
 JOHNSON CO., WY.

GENERAL NOTES

1. The septic tank shall be constructed of durable material not subject to excessive corrosion or decay and structurally capable of supporting the loads to which it will be subjected.
2. The septic tank shall be watertight.
3. 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.
5. 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.
6. Septic tank supplier and/or manufacturer shall be DEQ approved.

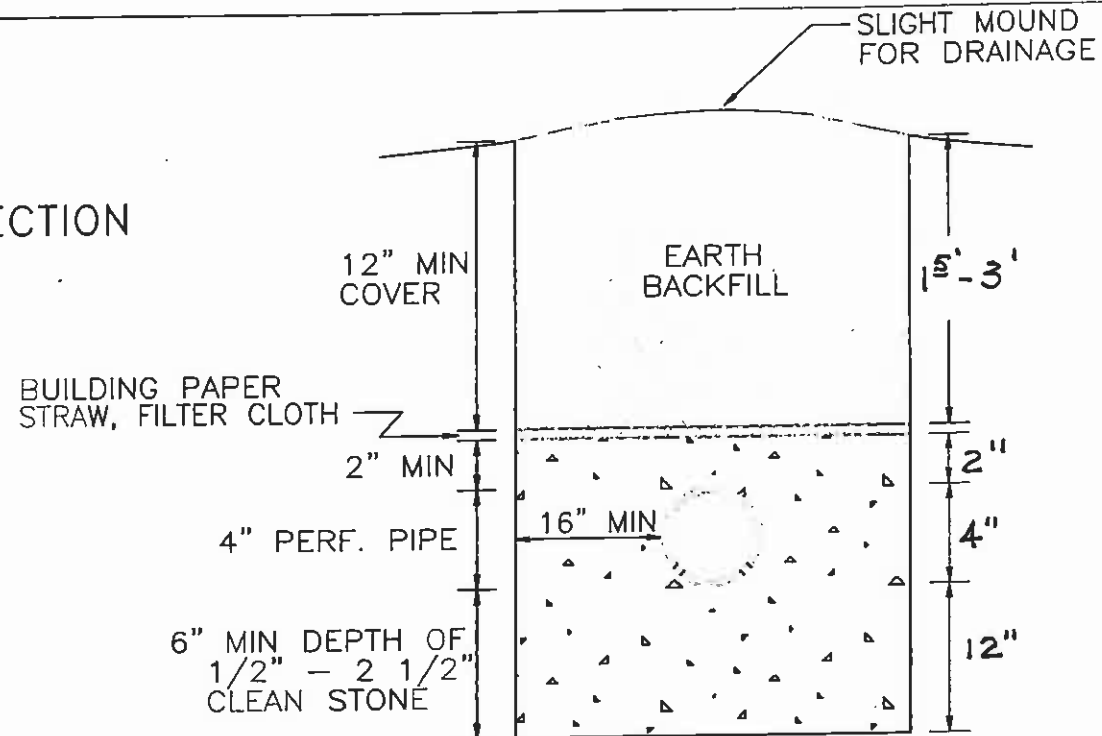


GRIZZLY ENGINEERING
 CONSULTING ENGINEERS and LAND SURVEYORS
 P.O. BOX 1004
 BUFFALO, WYOMING 82834
 307/584-7029

STANDARD SEPTIC TANK DETAIL SHEET

DATE OF AUTHORIZATION:

CROSS - SECTION



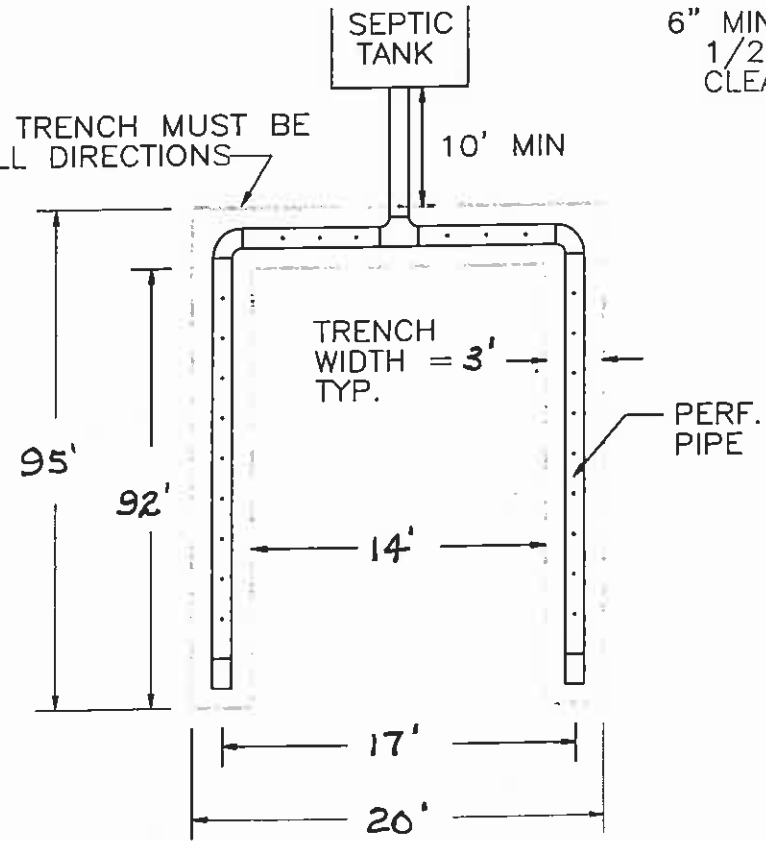
APPLICANT

Gary Marshall
29 Deer Trail
Johnson Co., Wyo.

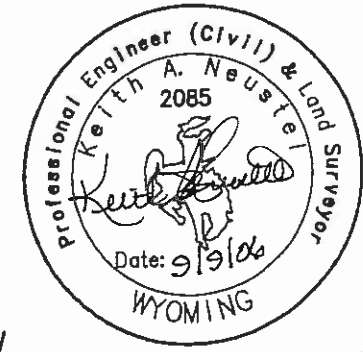
GENERAL NOTES

1. All plastic gravity perforated pipe must conform to ASTM Standard D2729.
2. A minimum 4 foot separation shall be maintained between the bottom of the trench to the seasonal high groundwater level, bedrock, and clay layer.
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.

BOTTOM OF TRENCH MUST BE LEVEL IN ALL DIRECTIONS



PLAN VIEW TYPICAL LAYOUT



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

STANDARD TRENCH TYPE SOIL ABSORPTION SYSTEM DETAIL SHEET

DATE OF AUTHORIZATION: