

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

PERMIT NO. 832

AMOUNT \$ 150.00

This is to certify that the individual sewage disposal system located at 19 Chuck Wagon Trail

Subdivision

Lot NE 4 Sec 4 Block T22N R 8W Constructed for

Tim Benward Burton Properties

installed by SAZE Const. date 9/2/06

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.

Paul J. Jorgensen

Johnson County Sanitarian

M. D. H.

Johnson County Health Officer

Dated this 2 day of Nov. 2006



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

July 7, 2006

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

Rick:

Attached is the application with appropriate drawings for the proposed septic system to be located at 19 Chuckwagon Trail (SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 2, T52N, R81W).

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

Three (3) percolation tests were taken with the slowest of 20.8 minutes per inch used for design. Using an absorption system loading rate of 0.45 gallons per day per square foot, the minimum absorption area is 1000 square feet.

Various trench systems, both Conventional and Infiltrator Chamber Units, have been designed to allow the Owner to select the system that best fits the topography and proposed improvements such as driveways, parking area, landscaping, etc..

If you have any questions, please contact me.

Sincerely,

Keith A. Neustel, PE

xc: Burton Properties

Beed
7/12/06
Sage Crest
11/2/06
CRD

APPLICATION FOR INDIVIDUAL SEWAGE DISPOSAL SYSTEM
JOHNSON COUNTY, WYOMING

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

Applicant: Burton Properties % Timothy Beengard
Mailing Address: N12099 State Road 79 Downing WI 54754
Phone #: Cell 715-977-0418
Location of Facility: SE 1/4 NE 1/4 Section: 2, T 52N R 81W
Address at site: 19 Chuckwagon Trail
Subdivision: N/A, Block N/A, Lot N/A

*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: 35 ac. ±
Ground Slope in Disposal Field Area: 2-3 % northerly
Soil Type: Silty loam
Percolation Test Results (min./inch):
1 20.8 ; 2 16.7 ; 3 20.8
Depth to Seasonal High Water Table: OVER 20'
Depth to Bedrock or Impervious Layer: OVER 20'
How were these determined: Wells

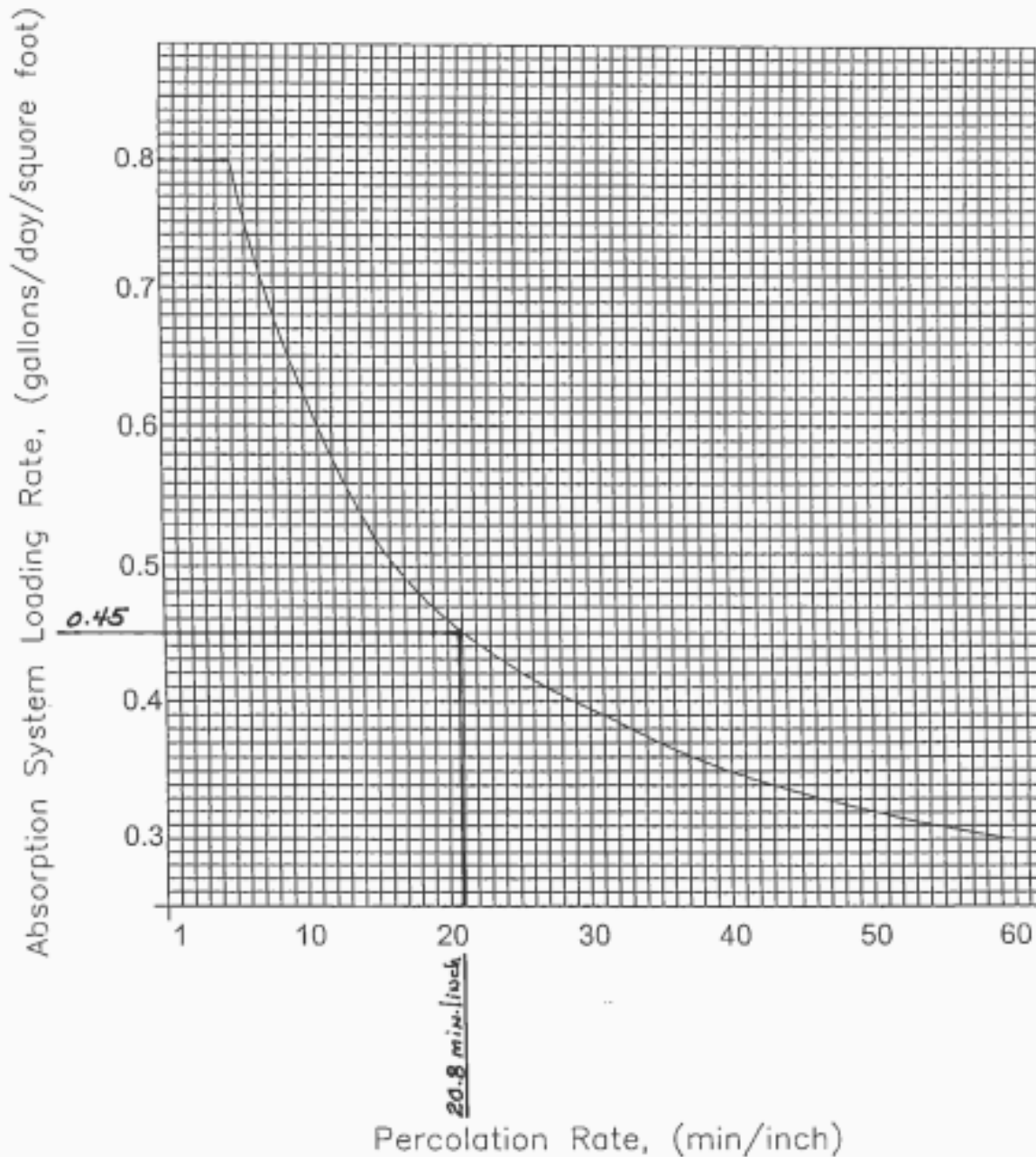
Septic Tank Capacity and Material: 1000 gal. Concrete tank (minimum)
Approx. Dimensions: (W) 45' (L) 8' (D) 6.5'
Type of Inlet: PVC, Type of Outlet: PVC

Disposal System: Bed ; Trench X; Other
Description of other: Optional trench system have been designed and any system may be installed.
Bed Dimensions: (W) N/A (L) N/A
* Trench Dimensions: (No.) (W) (L)
* See appropriate drawings.
Depth of Washed Rock Below Invert: 12" (Conventional systems)
Total Infiltrative Surface Provided (sq. ft.): 1000 sq. ft.
Depth from Bottom of Bed/Trench to Ground Surface: 24'

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

Timothy Beengard
Applicant: 7-12-06
Date:

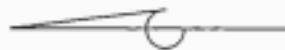
ABSORPTION SYSTEM LOADING RATE TABLE
For
Soil Absorption System Sizing



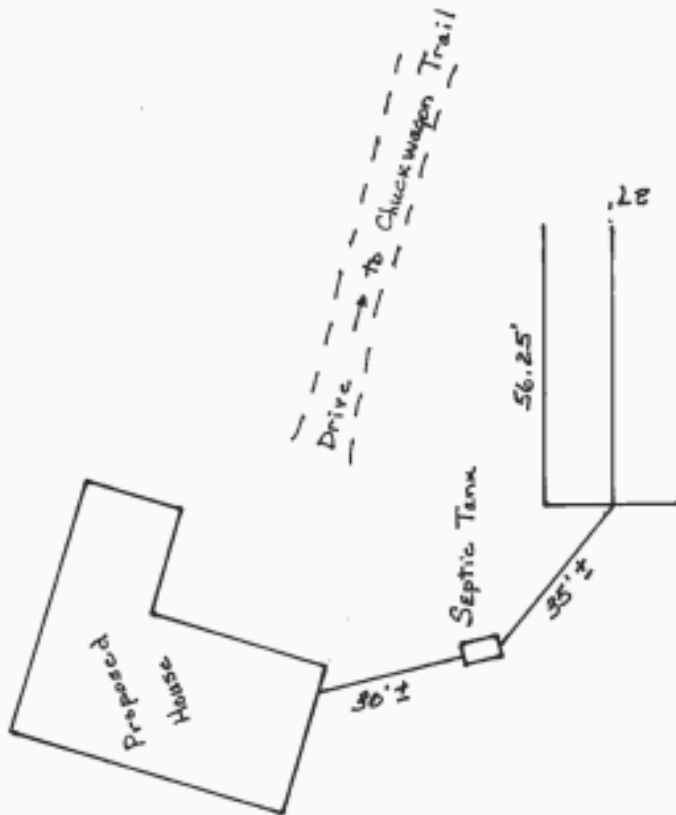
APPLICANT

Burton Properties
19 Chuckwagon Trail
Johnson Co., WY.





NORTH
Scale: 1" = 30'



APPLICANT

Burton Properties
19 Chuckwagon 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.

Disposal Field

- Notes:
1. System shown is for an Infiltration Chamber Unit trench system using 3 lines. Optional systems have been designed (see appropriate drawings) that may be installed at Owners option.
 2. Well location responsibility of Owners to meet "General Notes" requirements listed on this sheet.



GRIZZLY ENGINEERING
CONSULTING ENGINEERS AND LAND SURVEYORS
P.O. BOX 1024
SUNVALLEY, WYOMING 82834
307/684-7029

PLAN SHEET

DATE OF AUTHORIZATION:

6" CLEANOUT TO ABOVE GROUND

APPLICANT
Burton Properties
19 Chuckwagon Trail
Johnson Co., WY

20" MINIMUM MANWAY

MIN. SLOPE OF
 $1/4"$ PER FOOT

INLET

4" MIN. DIAMETER

20% of
 Liquid Depth

Water Level

33%-66% of
 Liquid Depth

4' to 6'
 Liquid Depth

BAFFLES MAY BE
 USED INSTEAD OF
 "TEES"

OUTLET

SCHEDULE 40 PVC
 ON INLET & OUTLET

LEVEL GRADE & COMPACTED BEDDING

PROFILE VIEW

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.



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.



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 CONSULTING ENGINEERS AND LAND SURVEYORS
 P.O. BOX 1004
 BUFFALO, WYOMING 82804
 307/684-7029

STANDARD SEPTIC TANK DETAIL SHEET

DATE OF AUTHORIZATION:

APPLICANT

BURTON PROPERTIES
19 CHUCKWAGON TRAIL
JOHNSON CO, WY.

GENERAL NOTES

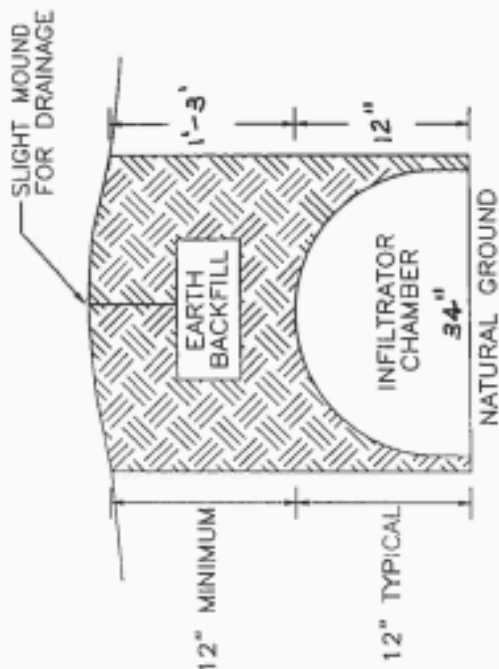
1. A minimum 4 foot separation shall be maintained between the bottom of the trench to the seasonal high groundwater level, bedrock, and clay layer.
2. All methods and materials used in septic system construction shall conform to the Wyoming Department of Environmental Quality, Water Quality Rules and Regulations, Chapter XI.



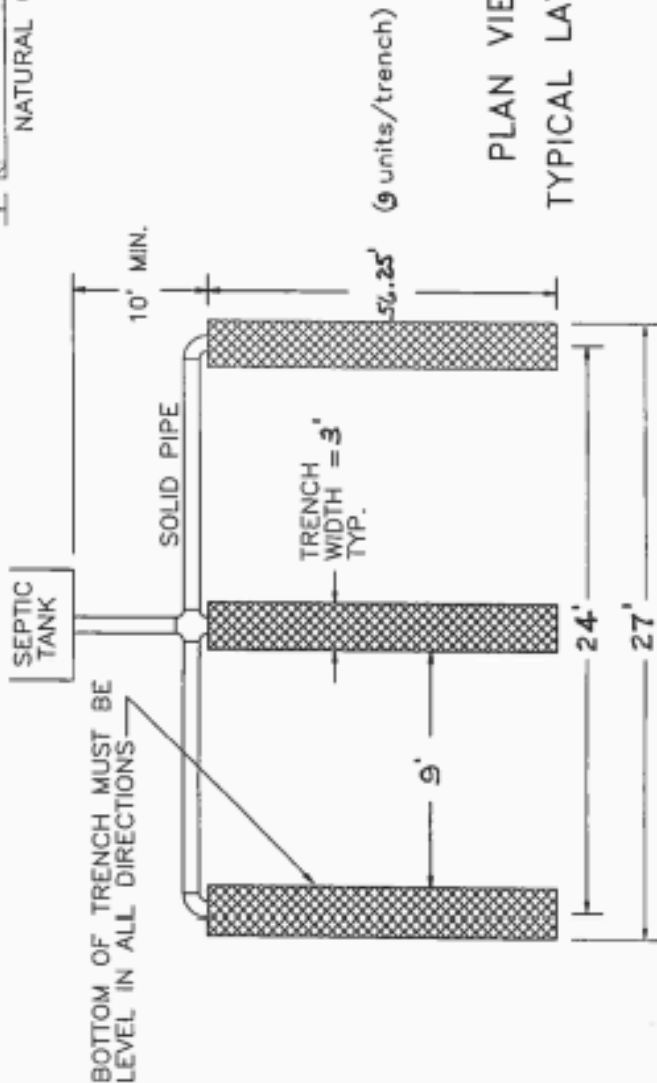
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CONSULTING ENGINEERS AND LAND SURVEYORS
P.O. BOX 1024
SLETTVALD, WYOMING 82834
307/684-7029

STANDARD INFILTRATOR CHAMBER TRENCH TYPE SOIL ABSORPTION SYSTEM

DATE OF AUTHORIZATION:



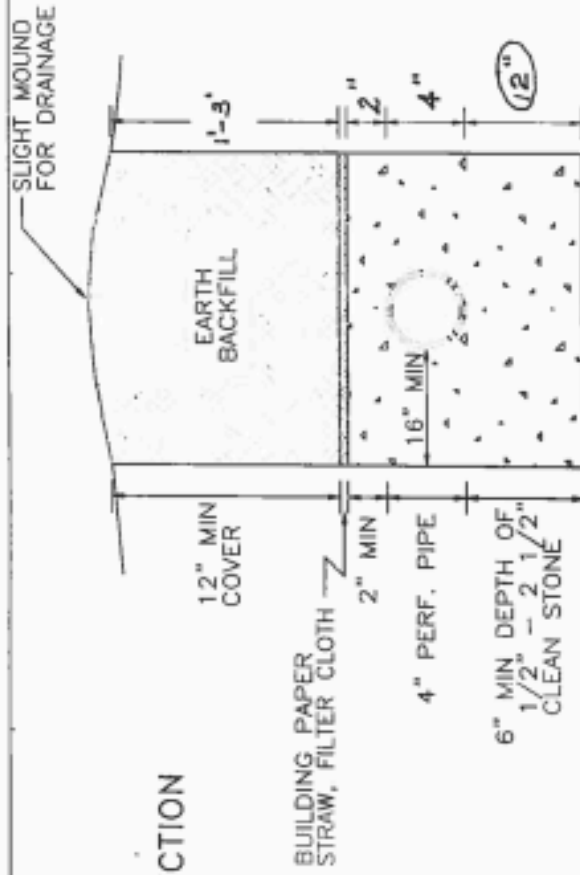
CROSS - SECTION



PLAN VIEW
TYPICAL LAYOUT

Option #1

CROSS - SECTION



SEPTIC TANK

BOTTOM OF TRENCH MUST BE LEVEL IN ALL DIRECTIONS



PLAN VIEW TYPICAL LAYOUT



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BUFFALO, WYOMING 82834
307/684-7029

APPLICANT

BURTON PROPERTIES
19 Chuckwagon Trail
Johnson Co., WY.

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 XL.

STANDARD TRENCH TYPE SOIL ABSORPTION SYSTEM DETAIL SHEET

DATE OF AUTHORIZATION:

APPLICANT

Burton Properties
19 Chuckwagon Trail
Johnson Co., WY.

GENERAL NOTES

1. A minimum 4 foot separation shall be maintained between the bottom of the trench to the seasonal high groundwater level, bedrock, and clay layer.
2. 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.



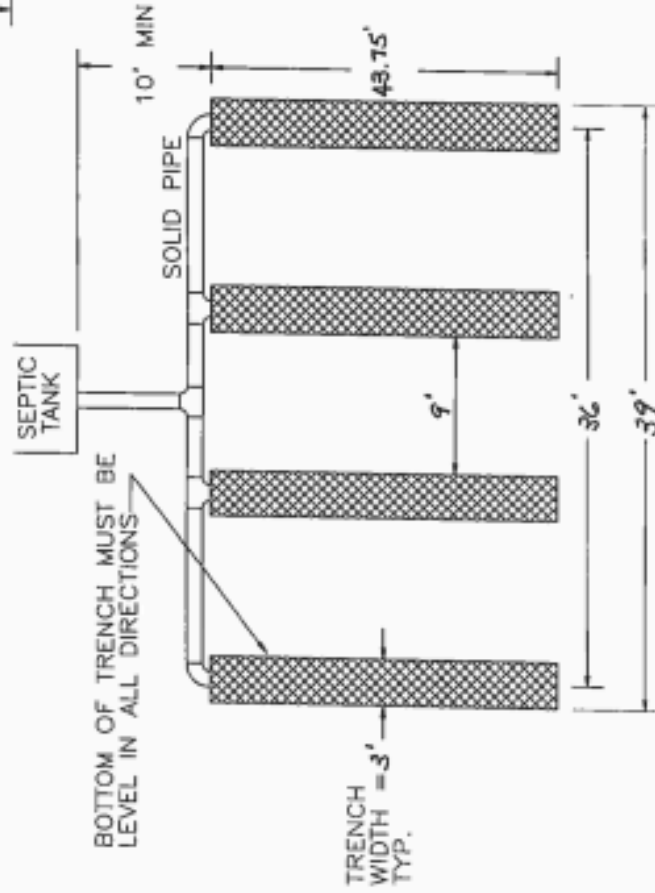
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CONSULTING ENGINEERS AND LAND SURVEYORS
P.O. BOX 1004
BUFFALO, WYOMING 82834
307/684-7039

**STANDARD INFILTRATOR
CHAMBER TRENCH TYPE
SOIL ABSORPTION SYSTEM**

DATE OF AUTHORIZATION:



CROSS - SECTION



PLAN VIEW
TYPICAL LAYOUT



Option #3

APPLICANT

Burton Properties
19 Chuckwagon Trail
Johnson Co., WY.

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.



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BUFFALO, WYOMING 82834
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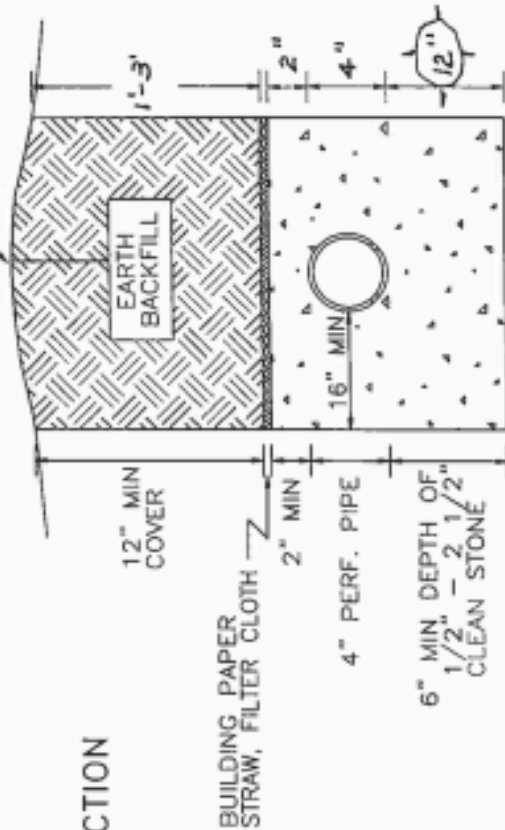


STANDARD TRENCH TYPE SOIL ABSORPTION SYSTEM DETAIL SHEET

DATE OF AUTHORIZATION:

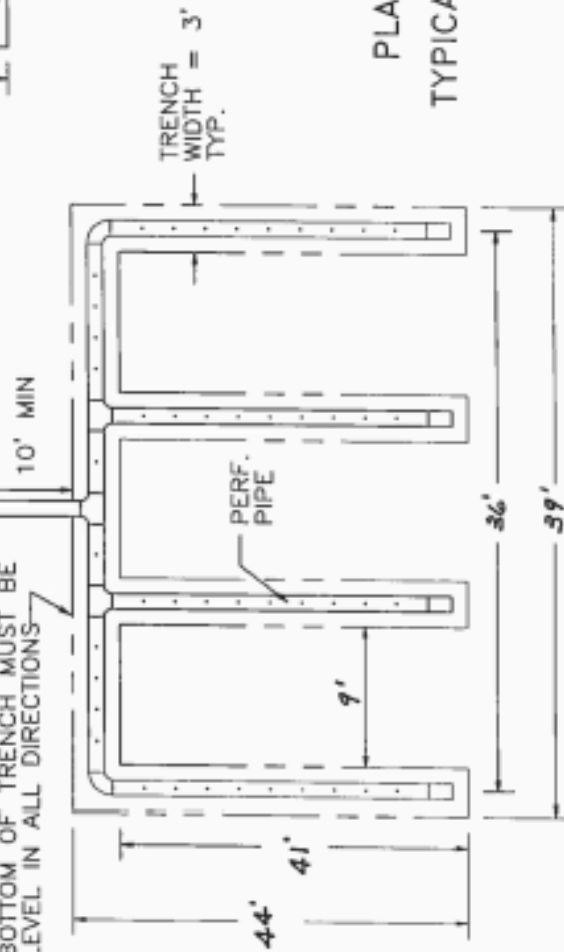
SLIGHT MOUND
FOR DRAINAGE

CROSS - SECTION



SEPTIC TANK

BOTTOM OF TRENCH MUST BE
LEVEL IN ALL DIRECTIONS



PLAN VIEW TYPICAL LAYOUT

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

PERMIT NO. 832

AMOUNT \$ 150.00

This is to certify that the individual sewage disposal system located at 17 Check wagon Trail
Subdivision

Lot NE 4 Sec 4 Block T22N R 8W Constructed for

Tim Bawgand Burton Properties

installed by SAZE Const. date 1/2/06

has been designed, constructed, and installed in compliance with the minimum requirements of Johnson
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the continued performance of this system.

County Satisfactor

Johnson County Health Officer

W.L. 2006



P.O. Box 1004
Buffalo, WY 82834
PH: 307/684-7029

Date: 7-12-06
Applicant: Tim Bawgand