GRANT COUNTY HEALTH DEPARTMENT

Grant County Complex
401 South Adams Street
Marion, IN 46953
765/668-8871

ON-SITE SEWAGE DISPOSAL SYSTEM PERMIT

Permit #: 2002-134 Date of Issuance: SEPT. 17, 2002

-New Septic System XXXX -Repair to Existing Septic System

PROPERTY OWNER:

Name: CLYDE SWAFFORD
Address: 1302 S. JADDEN RD.
MARION, IN 46953
Phone #: 998-0344

SEPTIC INSTALLER:

Name: TIM SKEENS
Address:

Phone #: 674-5071

27-08-13-200-011.000-007

Building Site Address: 1302 S. JADDEN RD., MARION, IN

Type of Approved Septic System:

XXXX-SubSurface Absorption System
(GCHD Approved Plans/Drawings)
-single field, gravity-fed
-alter. fields, gravity-fed
XXX -single field, pump-assisted
-pressure distribution
-other
-At-Grade Absorption System
(GCHD Approved Plans/Drawings)
Pressure Distribution
-Elevated Sand Mound
(ISDH Approved Plans/Drawings)
Pressure Distribution
-Other
-Condemn & Fill Old Septic Tank
Install New, Approved Septic Tank

Type of Approved Drainage (NON-SEPTIC):

XXX-Surface Diversion Landscaping
XXX-Subsurface Drainage - Around Entire Leachfield
-Subsurface Drainage - Upslope Side of Leachfield ONLY (Slope= %)
-Other

* * * * * * * * * * * * * * * * * * * *

10" -Maximum Depth of Trench Bottom
3' -Trench Width
500' -Total Lineal Length of Trenches
1000 -Size of Septic Tank (in gallons)
XXXXX -Other
MIN. 12" COVER REQUIRED.
CHILDPROOF PLUG IN TANK.
1000 GALLON DOSING TANK.

*** This permit may be revoked by the Grant County Health Officer or a County Environmental Health Specialist IF:

a) The installation of the system is not completed according to approved plans/drawings and in compliance with Rule 410 IAC 6-8.1 and the Grant County On-Site Sewage Disposal Ordinance.

or

COMPLETED

b) If it is determined, from inspection by the Health Officer or a County Environmental Health Specialist or by a representative of the Indiana State Department of Health, that the system was installed during a period of wet weather when the soil was sufficiently wet at the depth of installation to exceed its plastic limit as defined in Rule 410 IAC 6-8.1 Sec 52(N).

or

c) If it is determined from inspection by the Health Officer or a County Environmental Health Specialist or by a representative of the Indiana State Department of Health, that the site for the septic system was altered or damaged due to scraping, compacting or smearing of the soil by construction equipment or vehicles as stated in Rule 410 IAC 6-8.1 Sec. 52(O).

or

d) The Health Officer or a County Environmental Health Specialist was denied reasonable notice for the Final Inspection of the installation as stated in Rule 410 IAC 6-8.1 Sec. 33(E).

or

e) Upon Final Inspection by the Health Officer or a County Environmental Health Specialist, subsurface portions of the septic system was covered to the extent that a satisfactory inspection cannot be performed as stated in Rule 410 IAC 6-8.1 Sec. 33(E).

REVOCATION OF PERMIT shall be in writing to the property owner and shall state the reason(s) for revoking the permit; remedial action necessary; and upon written request, afford the applicant the opportunity for a hearing in front of the Grant County Health Board.

EXPIRATION DATE This Permit shall expire on 09/17/03 if the property owner has not completed the installation of the On-Site Sewage Disposal System as outlined in this permit, and in compliance with Rule 410 IAC 6-8.1 and in compliance with the Grant County On-Site Sewage Disposal Ordinance.

Signed: C Russell, MD

Calvin Russell, M.D.
Grant County Health Officer

Signed: Sean Sheen Date: 9-17-02
Applicant

Septic Installation Date and
County Environmental Health Specialist's Initials: RER 9/26/02

CC: Grant County Health Department (original copy)
Property Owner or their agent (2 copies)

RER
9/26/02 Need a weep hole in the elbow in the d-box

Please submit a drawing of the plot of the property. Include any landmark features such as roads, streams, ditches, fieldtiles, etc. Also locate the residence, well, septic, and any other structures (driveway, pool, garage, etc.). If this is a new site, show the proposed locations.

I certify that all information I have given is correct to the best of my knowledge. This application will not be complete unless signed and dated.

Clyde Swafford
Signature

1-29-02
Date

" you have ...

... Friday. Thank you.

****

REPAIRS ONLY - COMPLETE THE FOLLOWI...

IF THIS IS A REPAIR OF AN EXISTING SYSTEM, PLEASE DESCRIBE THE PROBLEMS YOU ARE EXPERIENCING:

SLOW LEACH ~~FIELD~~ FIELD

IS THIS THE RESULT OF HEALTH DEPARTMENT TESTING? NO

IS THIS PART OF A REAL ESTATE TRANSACTION? NO

IF SO, PLE... 3 Bedroom

1+2 + east

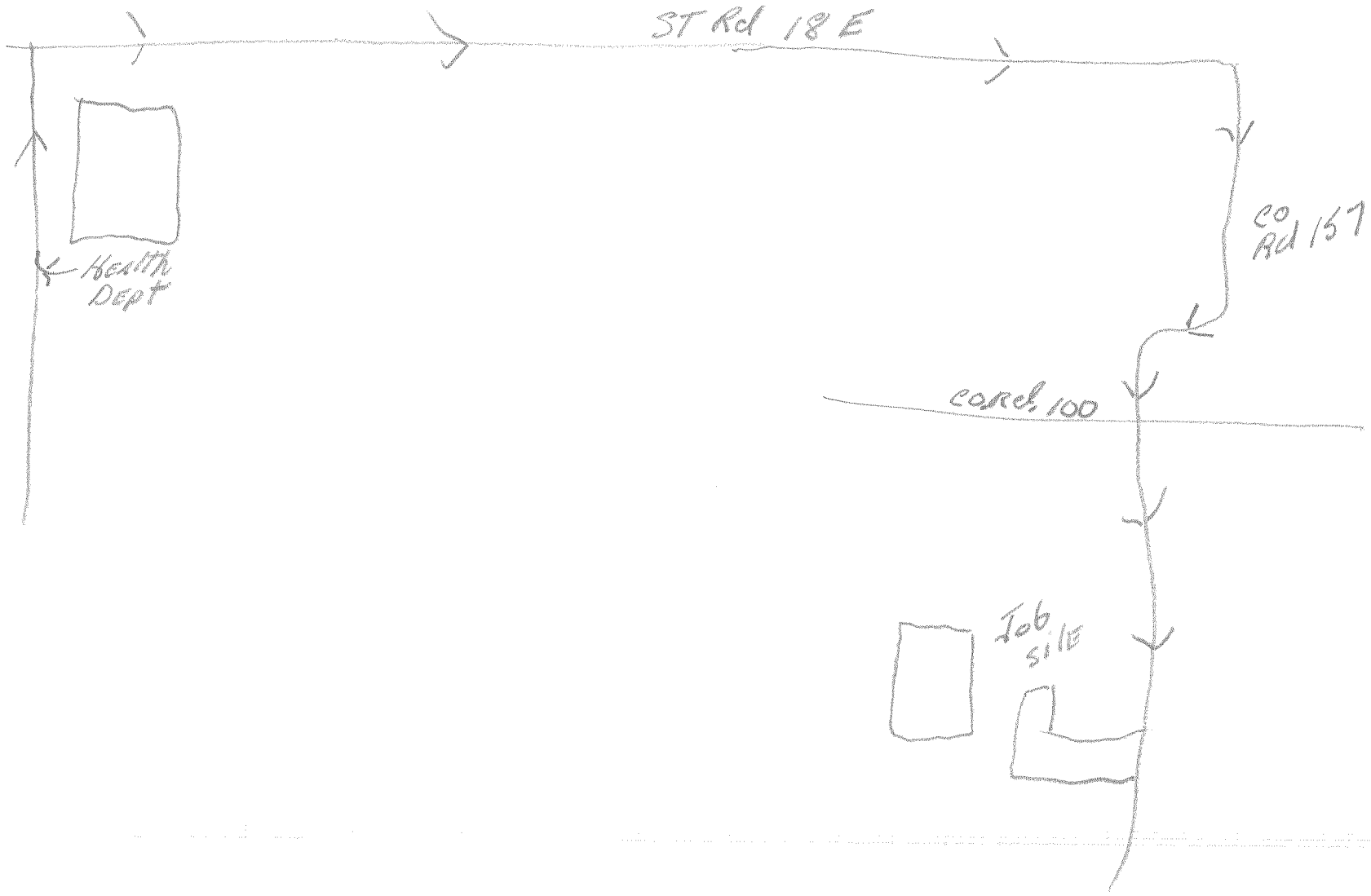
CT = 48 54 36
BC = 44 39 26
WT = 8 9 9

T.D. 10"
P.D. E at 46

IF SO, WAS ... AA = 3x150 / .3 = 1500 ft2

BY WHOM:

DATE: Flood-dose


ST Rd 18 E
CO Rd 157
Health Dept
CO Rd 100
Job site

Grant County Health Department

Grant County Complex
401 S. Adams Street
Marion, IN 46955

Phone 765-668-8871
Fax 765-651-2419

RECESSIONAL MORAINE SOILS IN GRANT COUNTY

The Indiana State Department of Health (ISDH) sent a memorandum, dated June 19, 2001, to sixteen counties in north- eastern Indiana stating that recessional moraine soils in these counties may be causing septic system to fail prematurely and possibly fail immediately upon usage. The counties affected are Adams, Allen, Blackford, Dekalb, Delaware, GRANT, Howard, Huntington, Jay, Miami, Noble, Randolph, Steuben, Wabash, Wells, and Whitley.

Recessional moraine soils were formed from sediments deposited from glaciers as the glaciers melted while advancing, and then subsequently receded. Parts of these soils do not transport water well, and therefore are unsuitable for septic systems. The ISDH has become aware of and has documented premature system failures in these types of soils. The ISDH has advised the local health departments of these sixteen counties that the typical soil analysis, consisting of three soil borings by a soil scientist, do not always identify these obscure, and sometimes undefined, characteristics. Per the memo of June 19, 2001, "As it is nearly impossible to repair failed on-site systems in the problem moraine soils, extra measures must be taken when on-site systems are to be installed in these recessional moraine areas." The ISDH has therefore recommended much more extensive analysis of the soil in the areas where the recessional moraine soils are present.

The ISDH has identified twelve soil series which are typically present in areas where recessional moraines are located. These twelve soil series cover greater than 80% of Grant County, and are especially prevalent to the north and east of the Mississenewa River. If a proposed septic system site is located in one of these soil series, the recommendations of the ISDH include at least two backhoe pit excavations, a minimum of seven soil borings and mechanical laboratory analyses of as least three samples from different horizons in a pit to determine percent of clay. If the soil is still acceptable, modified permeability tests are run on the site. All of these additional tests are at an additional expense to the applicant.

If there is additional information that the Grant County Health Department can provide to you as the applicant, please contact the Health Department and we will be glad to provide additional information or assistance in any way we can. If you wish to forego the additional testing highly recommended by the ISDH, this release paper must be signed and returned to the Grant County Health Department before minimum requirements for a septic system will be sent to you.

I, the undersigned, agree to release the County of Grant and its employees, the Grant County Health Department, and its employees, the Grant County Health Officer, and the Grant County Board of Health, and its members, if any suit should be filed against this septic system. If said septic system should fail, I as property owner agree to accept full responsibility for said septic system, and I agree to repair/replace said septic system in a time frame set by the Grant County Health Officer. Until said septic system is repaired/replaced, I the property owner do agree to have my septic tank pumped and hauled on a weekly basis until the system is corrected so that wastewater generated in the home does not contaminate the waters of Indiana or come to the ground surface.

I ELECT TO WAIVE FURTHER TESTING, AND I UNDERSTAND THE IMPLICATIONS OF SUCH. I HAVE READ AND UNDERSTAND THE ABOVE, AND I UNDERSTAND THAT NO SEPTIC SYSTEM HAS A GUARANTEED LIFESPAN AND, IF IN MORAINE SOILS, COULD POSSIBLY FAIL IMMEDIATELY.

SIGNED: Clyde Swafford DATE: 9-18-02

PRINTED NAME: CLYDE SWAFFORD SITE LOCATION: 1302 S. JADDEN RD.

Received 02-05-02

SOIL HORIZONS, INC.
"A Soil and Environmental Consulting Firm"
MARK S. McCLAIN, President

1-800-288-SOIL

1300 Drawbridge Lane
Lafayette, Indiana 47905-7814
(765) 449-1665
(765) 449-4313 FAX
E-mail mark@soilhorizons.com
Internet http://www.soilhorizons.com

On-Site Soils and Environmental Investigation

Name of Person Requesting Assistance: Clyde Swafford
Address: 1362 South Jadden Road, Marion, IN 46953
Telephone: Home: (765) 998-0344 Office: ( ) - Ext:
Mobile: ( ) - Fax: ( ) -

Property Owner's Name: Clyde Swafford
Address: 1362 South Jadden Road, Marion, IN 46953
Telephone: Home: (765) 998-0344 Office: ( ) - Ext:
Mobile: ( ) - Fax: ( ) -

Site Location: County : Grant Township: Monroe City/Town: east of Marion
Address: 1302 South Jadden Road, Marion, IN
Partial Legal Description: Part of the
sec. , T. ., R. .
USDA-SCS Soil Survey Map Sheet Number(s):
Soil Survey of Grant County, Indiana
Brief Description of Site: The soils, including detailed soil map units and soil symbols that were mapped in the general vicinity of the site according to the most recently published USDA-SCS soil survey, are as follows:

Past Assistance Furnished: Contacted local health department.

Purpose of on-site soils and environmental investigation: repair/replacment of on-site wastewater disposal system (residential)

Persons present during on-site soils and environmental investigation: Mark S. McClain, Clyde Swafford

Stage of development/proposed land use: Existing single family dwelling (3 bedrooms)

Project Title: 1302 South Jadden Road, Marion, iN

Type of water source: Well

Location of well(s) and/or water for domestic purposes: see site plan

Date: 1-28-2002 Code: 028212

GENERAL SITE & LANDSCAPE INFORMATION

Site Name: SB1 Site Number: 1

Present Land Use/ Land Cover: lawn

Present Vegetation: grass

Physiographic Feature

Landscape Position: Upland

Landform: Till plain, depression (open)

Slope:0-1%

Kind of Slope: depression (open)

Shape of Slope: depression (open)

Aspect:

Elevation:

Soil and landscape disturbances other than tillage or erosion:

Does the area being investigated flood or pond?

Flooding: NO

Frequency:

Duration:

Months:

Ponding: no evidence during investigation

Erosion Class: None to slight

SOIL PROFILE DESCRIPTION

Soil Classification

Soil Series:

Family or higher taxonomic class:

Location of soil profile description:

Drainage: poorly drained

Parent Materials:

1: Wisconsinan loess 2: Glaciolacustrine sediments/Wisconsinan Till 3:

4: 5:

Depth	Soil	Boundary		-------Munsell Color (Moist)--------						----Structure-----			------Additional Features------				Consis-	Reaction	
(in.)	Horizon	D	T	Matrix	Mottles	A	S	C	Texture	G	SI	SH	K	L	A	Color	tence	pH	Eff
0-8	Ap			10Yr 4/2					sil	2	M	GR					FRI		
										2	F	GR							
8-18	2Bg1			2.5Y 4/2	10Yr 5/6	F	1	P	sic	2	M	SBK	OM	PP	C	10Yr 4/1	FI		
18-28	2Bg2			2.5Y 5/4	7.5Yr 5/6	C	3	P	sic	2	M	SBK					FI		
28-44	2Bg3			2.5Y 6/2	7.5Yr 5/6	M	3	P	sic	2	M	SBK					FI		
44-48	2BCg			10Yr 5/6	2.5Y 6/2	M	2	D	cl	1	C	SBK					FI		VE
48-60+	2Cd			10Yr 5/6	2.5Y 6/2	M	2	D	cl			M					VFI		VE

Summary of On-Site Soils and Environmental Investigation

Site Name: SB1 Site Number: 1

Depth to and/or thickness of limiting layer (inches):

Bedrock: >60	Fragipan: Absent	Compact Till: 48
Compaction: Not applicable	Poor Filter: Not applicable	Other: Other

Soil Wetness Characteristics:

Seasonal High Water Table:

Estimated depth (inches) to the seasonal high water table based upon soil morphological characteristics: <8

Estimated Duration (time of year): Late winter through spring

Kind of seasonal high water table: Perched

Depth (inches) to groundwater at the time of the investigation: >60

Laboratory analysis performed (see attached data if applicable):

Soil Interpretation: Suitability for septic tank absorption fields

USDA-SCS rating: Severe: Wetness, percs slowly

Comments:

Estimated Hydraulic Loading Rates for Subsurface Systems[1]

Site Name: SB1 Site Number: 1

Depth (in.)	Soil Horizon	Texture[2]	Structure[3] G	Structure[3] SH	Est. % Coarse Fragments 2-75mm	Est. % Coarse Fragments >3in.	Loading Rate (gpd/ft2)
0-8	Ap	sil		GR			0.60
				GR			
8-18	2Bg1	sic	2	SBK			0.30
18-28	2Bg2	sic	2	SBK			0.30
28-44	2Bg3	sic	2	SBK			0.30
44-48	2BCg	cl	1	SBK			0.25
48-60+	2Cd	cl		M			0.00

Estimated Hydraulic Loading Rates for Above-Ground Systems[1]

Site Name: SB1 Site Number: 1

Depth (in.)	Soil Horizon	Texture[2]	Structure[3] G	Structure[3] SH	Est. % Coarse Fragments 2-75mm	Est. % Coarse Fragments >3in.	Loading Rate (gpd/ft2)
0-8	Ap	sil		GR			0.50
				GR			
8-18	2Bg1	sic	2	SBK			0.25
18-28	2Bg2	sic	2	SBK			0.25
28-44	2Bg3	sic	2	SBK			0.25
44-48	2BCg	cl	1	SBK			0.25
48-60+	2Cd	cl		M			0.00

[1] The estimated hydraulic loading rates (gpd/ft^2) are according to the "Indiana State Board of Health Rule 410 IAC 6-8.1 Residential Sewage Disposal Systems" (December 21, 1990) and "On-site Water Supply and Wastewater Disposal for Public and Commercial Establishments Bulletin S.E. 13" (1988). These estimates are according to the Indiana State Department of Health and do not necessarily represent estimates by Soil Horizons, Inc.

[2] A percentage of less than 35% (by volume) coarse fragments (2mm or larger) has no effect on these loading rates.

[3] Platy structure caused by compaction has a loading rate of 0.00 gpd/ft^2). Platy structure in eluvial horizons (e.g., E and BE horizons) generally does not indicate soil compaction.

GENERAL SITE & LANDSCAPE INFORMATION

Site Name: SB2 Site Number: 2

Present Land Use/ Land Cover: lawn

Present Vegetation: grass

Physiographic Feature

Landscape Position: Upland

Landform: Till plain, depression (open)

Slope: 0-1%

Kind of Slope: depression (open)

Shape of Slope: depression (open)

Aspect:

Elevation:

Soil and landscape disturbances other than tillage or erosion:

Does the area being investigated flood or pond?

Flooding: NO

Frequency:

Duration:

Months:

Ponding: no evidence during investigation

Erosion Class: None to slight

SOIL PROFILE DESCRIPTION

Soil Classification

Soil Series:

Family or higher taxonomic class:

Location of soil profile description:

Drainage: poorly drained

Parent Materials:

1: Wisconsinan loess 2: Glaciolacustrine sediments/Wisconsinan Till 3:

4: 5:

Depth	Soil	Boundary		-------Munsell Color (Moist)--------						----Structure-----			------Additional Features------				Consis-	Reaction	
(in.)	Horizon	D	T	Matrix	Mottles	A	S	C	Texture	G	SI	SH	K	L	A	Color	tence	pH	Eff
0-9	Ap			10Yr 3/2					sil	2	M	GR					FRI		
										2	F	GR							
9-13	2Bg1			2.5Y 4/2	10Yr 5/6	F	1	P	sicl	2	M	SBK	OM	PP	C	10Yr 3/1	FI		
13-18	2Bg2			2.5Y 5/2	7.5Yr 5/6	C	3	P	sic	2	M	SBK					FI		
18-39	2Bg3			2.5Y 6/2	7.5Yr 5/6	M	3	P	c	2	M	SBK					FI		
39-54	2BCg			10Yr 5/6	2.5Y 6/2	M	3	P	cl	1	C	SBK					FI		VE
54-60+	2Cd			10Yr 5/6	2.5Y 6/2	M	3	P	cl			M					VFI		VE

Summary of On-Site Soils and Environmental Investigation

Site Name: SB2 Site Number: 2

Depth to and/or thickness of limiting layer (inches):

Bedrock: >60	Fragipan: Absent	Compact Till: 54
Compaction: Not applicable	Poor Filter: Not applicable	Other: Other

Soil Wetness Characteristics:

Seasonal High Water Table:
Estimated depth (inches) to the seasonal high water table based upon soil morphological characteristics: <9

Estimated Duration (time of year): Late winter through spring
Kind of seasonal high water table: Perched

Depth (inches) to groundwater at the time of the investigation: >60

Laboratory analysis performed (see attached data if applicable):

Soil Interpretation: Suitability for septic tank absorption fields

USDA-SCS rating: Severe: Wetness, percs slowly

Comments:

Estimated Hydraulic Loading Rates for Subsurface Systems[1]

Site Name: SB2 Site Number: 2

Depth (in.)	Soil Horizon	Texture[2]	Structure[3] G	Structure[3] SH	Est. % Coarse Fragments 2-75mm	Est. % Coarse Fragments >3in.	Loading Rate (gpd/ft2)
0-9	Ap	sil		GR			0.60
				GR			
9-13	2Bg1	sicl	2	SBK			0.30
13-18	2Bg2	sic	2	SBK			0.30
18-39	2Bg3	c	2	SBK			0.30
39-54	2BCg	cl	1	SBK			0.25
54-60+	2Cd	cl		M			0.00

Estimated Hydraulic Loading Rates for Above-Ground Systems[1]

Site Name: SB2 Site Number: 2

Depth (in.)	Soil Horizon	Texture[2]	Structure[3] G	Structure[3] SH	Est. % Coarse Fragments 2-75mm	Est. % Coarse Fragments >3in.	Loading Rate (gpd/ft2)
0-9	Ap	sil		GR			0.50
				GR			
9-13	2Bg1	sicl	2	SBK			0.25
13-18	2Bg2	sic	2	SBK			0.25
18-39	2Bg3	c	2	SBK			0.25
39-54	2BCg	cl	1	SBK			0.25
54-60+	2Cd	cl		M			0.00

1 The estimated hydraulic loading rates (gpd/ft^2) are according to the "Indiana State Board of Health Rule 410 IAC 6-8.1 Residential Sewage Disposal Systems" (December 21, 1990) and "On-site Water Supply and Wastewater Disposal for Public and Commercial Establishments Bulletin S.E. 13" (1988). These estimates are according to the Indiana State Department of Health and do not necessarily represent estimates by Soil Horizons, Inc.

2 A percentage of less than 35% (by volume) coarse fragments (2mm or larger) has no effect on these loading rates.

3 Platy structure caused by compaction has a loading rate of 0.00 gpd/ft^2). Platy structure in eluvial horizons (e.g., E and BE horizons) generally does not indicate soil compaction.

GENERAL SITE & LANDSCAPE INFORMATION

Site Name: SB3 Site Number: 3

Present Land Use/ Land Cover: lawn

Present Vegetation: grass

Physiographic Feature

Landscape Position: Upland

Landform: Till plain, depression (open)

Slope:0-1%

Kind of Slope: depression (open)

Shape of Slope: depression (open)

Aspect:

Elevation:

Soil and landscape disturbances other than tillage or erosion:

Does the area being investigated flood or pond?

Flooding: NO

Frequency:

Duration:

Months:

Ponding: no evidence during investigation

Erosion Class: None to slight

SOIL PROFILE DESCRIPTION

Soil Classification

Soil Series:

Family or higher taxonomic class:

Location of soil profile description:

Drainage: poorly drained

Parent Materials:

1: Wisconsinan loess 2: Glaciolacustrine sediments/Wisconsinan Till 3:

4: 5:

Depth	Soil	Boundary		-------Munsell Color (Moist)--------						----Structure-----			------Additional Features------				Consis-	Reaction	
(in.)	Horizon	D	T	Matrix	Mottles	A	S	C	Texture	G	SI	SH	K	L	A	Color	tence	pH	Eff
0-9	Ap			10Yr 4/2					sil	2	M	GR					FRI		
										2	F	GR							
9-22	2Bg1			2.5Y 5/2	10Yr 5/6	F	1	P	sicl	2	M	SBK					FI		
22-26	2Bg2			2.5Y 5/2	10Yr 5/6	C	3	P	c	2	M	SBK					FI		
26-36	2BCg			10Yr 5/6	2.5Y 6/2	M	2	D	cl	2	C	SBK					FI		VE
36-60+	2Cd			10Yr 5/4	2.5y 6/2	C	2	D	cl			M					VFI		VE
					10Yr 5/6	F	1	F											

Summary of On-Site Soils and Environmental Investigation

Site Name: SB3 Site Number: 3

Depth to and/or thickness of limiting layer (inches):

Bedrock: >60	Fragipan: Absent	Compact Till: 36
Compaction: Not applicable	Poor Filter: Not applicable	Other: Other

Soil Wetness Characteristics:

Seasonal High Water Table:

Estimated depth (inches) to the seasonal high water table based upon soil morphological characteristics: <9

Estimated Duration (time of year): Late winter through spring

Kind of seasonal high water table: Perched

Depth (inches) to groundwater at the time of the investigation: >60

Laboratory analysis performed (see attached data if applicable):

Soil Interpretation: Suitability for septic tank absorption fields

USDA-SCS rating: Severe: Wetness, percs slowly

Comments:

Estimated Hydraulic Loading Rates for Subsurface Systems[1]

Site Name: SB3 Site Number: 3

Depth (in.)	Soil Horizon	Texture[2]	Structure[3] G	Structure[3] SH	Est. % Coarse Fragments 2-75mm	Est. % Coarse Fragments >3in.	Loading Rate (gpd/ft2)
0-9	Ap	sil		GR			0.60
				GR			
9-22	2Bg1	sicl	2	SBK			0.30
22-26	2Bg2	c	2	SBK			0.30
26-36	2BCg	cl	2	SBK			0.30
36-60+	2Cd	cl		M			0.00

Estimated Hydraulic Loading Rates for Above-Ground Systems[1]

Site Name: SB3 Site Number: 3

Depth (in.)	Soil Horizon	Texture[2]	Structure[3] G	Structure[3] SH	Est. % Coarse Fragments 2-75mm	Est. % Coarse Fragments >3in.	Loading Rate (gpd/ft2)
0-9	Ap	sil		GR			0.50
				GR			
9-22	2Bg1	sicl	2	SBK			0.25
22-26	2Bg2	c	2	SBK			0.25
26-36	2BCg	cl	2	SBK			0.25
36-60+	2Cd	cl		M			0.00

1 The estimated hydraulic loading rates (gpd/ft^2) are according to the "Indiana State Board of Health Rule 410 IAC 6-8.1 Residential Sewage Disposal Systems" (December 21, 1990) and "On-site Water Supply and Wastewater Disposal for Public and Commercial Establishments Bulletin S.E. 13" (1988). These estimates are according to the Indiana State Department of Health and do not necessarily represent estimates by Soil Horizons, Inc.

2 A percentage of less than 35% (by volume) coarse fragments (2mm or larger) has no effect on these loading rates.

3 Platy structure caused by compaction has a loading rate of 0.00 gpd/ft^2). Platy structure in eluvial horizons (e.g., E and BE horizons) generally does not indicate soil compaction.

Soil Scientist(s) providing assistance: Mark S. McClain
Date the on-site soils and environmental investigation was completed in the field: 1-28-2002

Other maps or information enclosed:

USDA-SCS Soil Survey Map	USDA-SCS Wetland Map
Wetland Inventory Map	USGS Topographic Map
* Certificate of Survey	Flood Plain/ Floodway Map
Site Plan	* Legal Description or Deed
Geology Map	Aerial Photograph
Subdivision Plat or other Plat Map	Other:

Comments:

I certify that this report is correct based upon my present understanding of soil and environmental science:

Mark S. McClain
CPSSc/CPSC/CPESC/RPSS/PWS

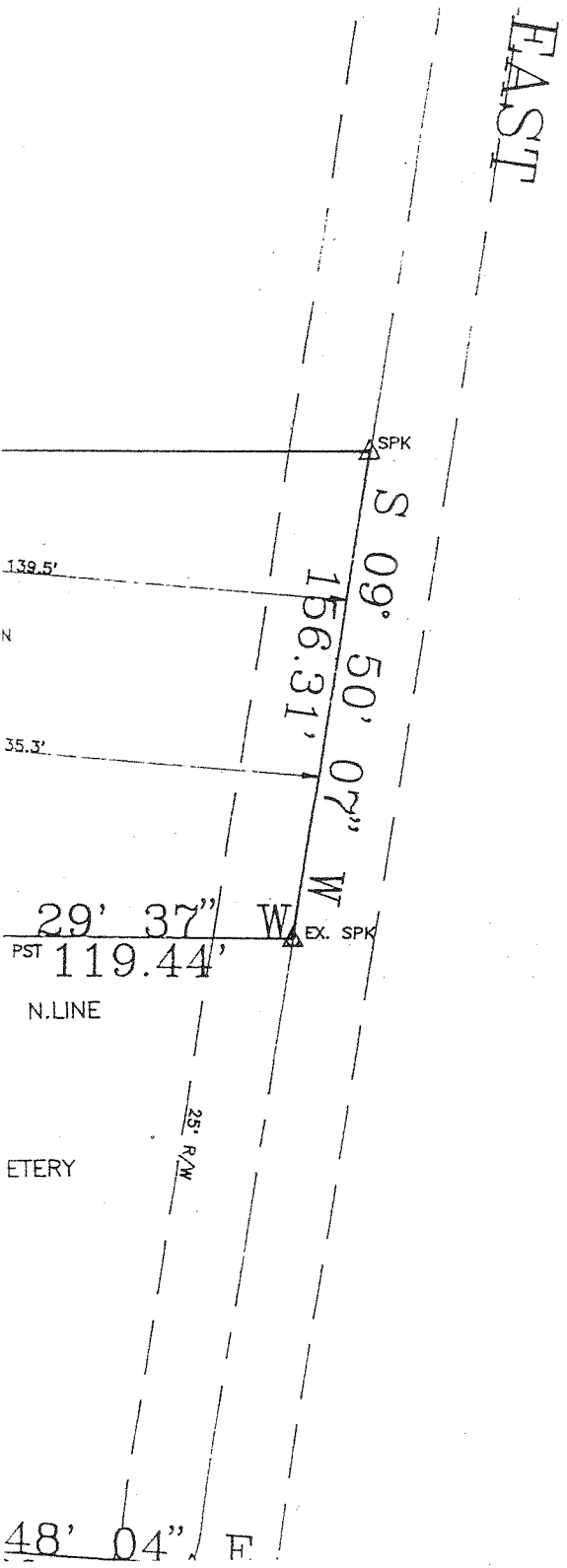
2-1-02
Date of Completion

Note: This on-site soils and environmental investigation report pertains to actual or estimated soil properties and landscape features, actual and predicted internal soil and water features, and the limitation of the soil for the proposed land use on the date of completion as indicated above. It does not pertain to any changes which may be present at a later date due to grading, filling, or any other disturbances of the landscape following the on-site soils and environmental investigation. Therefore, this report is not a recommendation for any specific use, nor does it preclude the possible need for further on-site soils and environmental investigations, including, but not limited to additional soils, landscape, wetland, geological, or other environmental investigations or specific on-site sampling and testing for engineering design and construction. All reference locations are deemed to be accurate estimates, although a professional surveyor may need to verify locations.

Date: 1-28-2002 Code: 028212

NAT. SOC. CONSULTING SOIL SCIENTISTS • REGISTERED PROFESSIONAL SOIL SCIENTIST
MARK S. MC CLAIN
#022
EXPIRES 4/1/02

AMERICAN REGISTRY OF CERTIFIED PROFESSIONALS IN AGRONOMY CROPS SOILS
MARK STEPHEN MCCLAIN
CERTIFIED PROFESSIONAL
SOIL SCIENTIST/
SOIL CLASSIFIER
No. 2404



Survey and certification of 5.45 acres in the Northwest quarter of Section 13, Township 24 North, Range 9 East, Grant County, Indiana, as follows:

Beginning at a point on the West line of the East half of the Northwest quarter of Section 13, Township 24 North, Range 9 East, Grant County, Indiana, said point being 770.35 feet North of the Southwest corner of said East half, thence North 01 degree 50 minutes 17 seconds East 363.86 feet to a pipe, thence South 88 degrees 59 minutes 30 seconds East 733.62 feet to County Road 1115 East, thence South 09 degrees 50 minutes 07 seconds West 156.31 feet to a spike, thence North 88 degrees 29 minutes 37 seconds West 119.44 feet along the North line of the cemetery to a post, thence South 09 degrees 45 minutes 13 seconds West 194.08 feet along the West line of the cemetery to a pipe, thence South 84 degrees 48 minutes 04 seconds East 117.20 feet to said County Road 1115 East, thence South 16 degrees 17 minutes 37 seconds West 20.57 feet along said road, thence North 88 degrees 09 minutes 38 seconds West 677.50 feet along a propertyline fence to the point of beginning and containing 5.45 acres.

Being 5.45 acres in the Northwest quarter of Section 13, Township 24 North, Range 9 East, Grant County, Indiana, and subject to existing easements and rights-of-ways.

I, Larry E. Manship, a Registered Land Surveyor in the State of Indiana, do hereby certify that this is a true and correct plat, to the best of knowledge of the above described property.

I further certify that the buildings are situtated within the boundaries of said property as shown on the above plat and that buildings on adjoining properties do not encroach on said property.

I also certify that the above described property does not lie within a Special Flood Hazard Zone as said tract plots by scale on Community Panel Number 180435 0100 B of the National Flood Insurance Rate Map for Grant County, Indiana, (map dated June 17, 1986).

This property is located on County Road 1115 East, Marion, Indiana and the owner is Clyde E. Swafford.

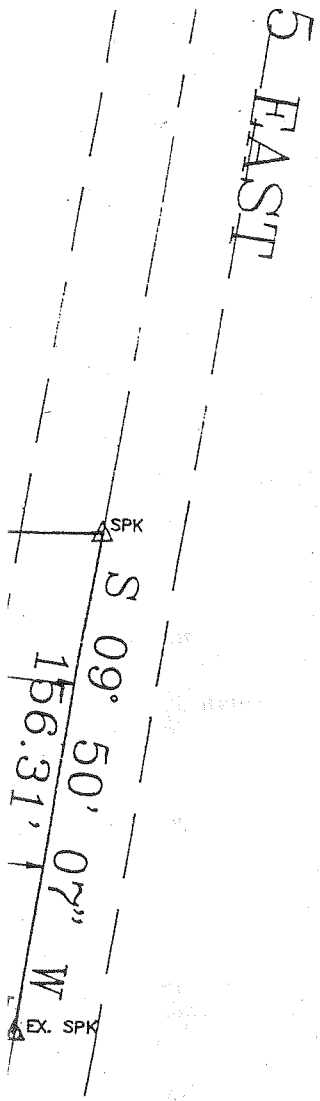
Markers are located as shown on the above plat.

Survey and certification dated November 21, 1994.
Recertification dated February 2, 1995
Prepared by:

Larry E. Manship

Larry E. Manship

LARRY E. MANSHIP
REGISTERED



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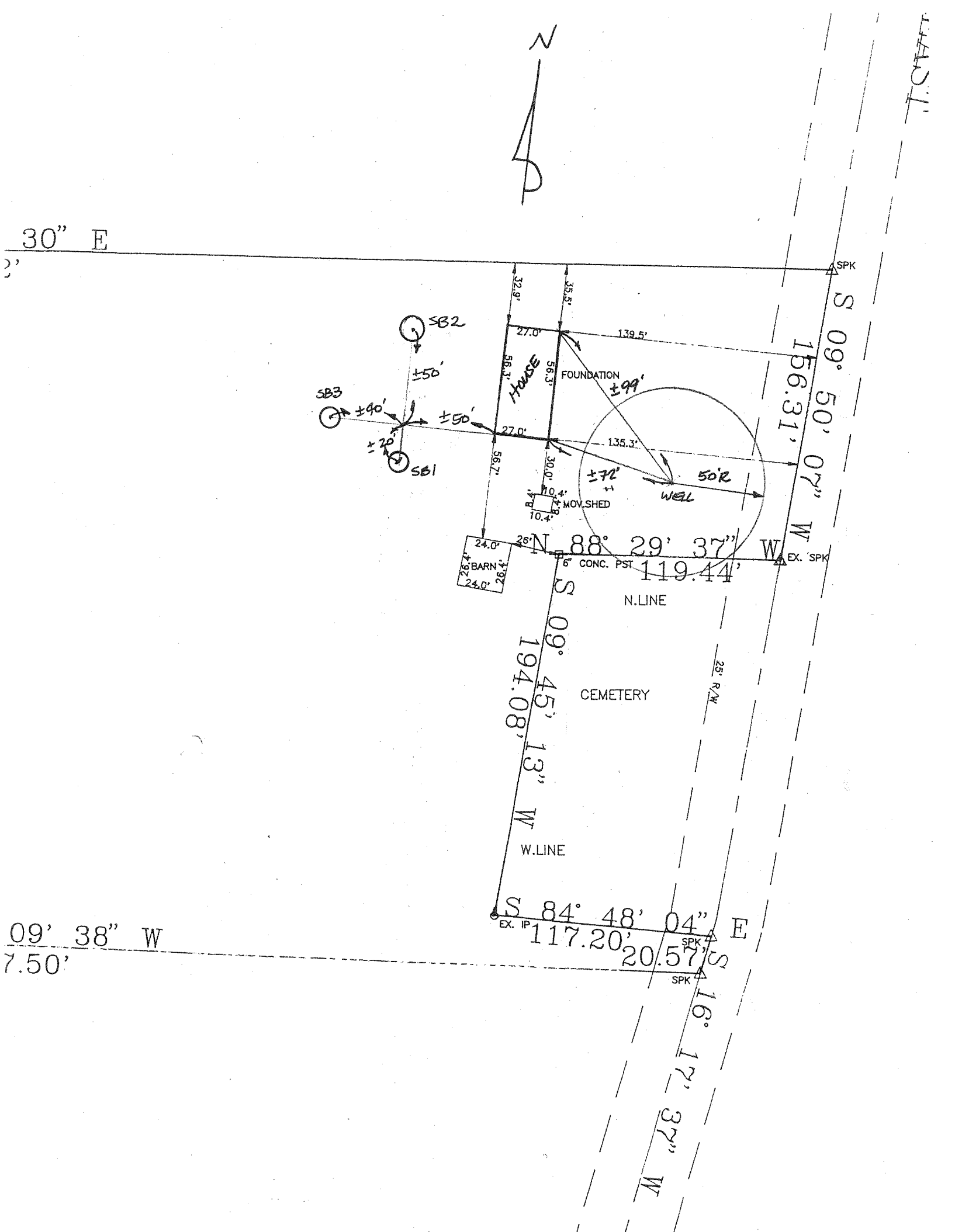
Larry E. Manship

Larry E. Manship
REGISTERED LAND SURVEYOR
Ind. Reg. No. S0434

LARRY E. MANSHIP
REGISTERED
No.
S0434
STATE OF
INDIANA
LAND SURVEYOR


N
30" E
SPK
32.9'
35.5'
SB2
27.0'
139.5'
56.3'
HOUSE
56.3'
FOUNDATION
±99'
±50'
SB3
±90'
±50'
27.0'
135.3'
±20'
SB1
56.7'
30.0'
±72'
50'R
WELL
10.4'
10.4'
MOV.SHED
24.0'
26'
N 88° 29' 37" W
EX. SPK
26.4'
BARN
26.4'
24.0'
6" CONC. PST
119.44'
N.LINE
S 09° 50' 07" W
156.31'
S 09° 45' 13" W
1940.08'
CEMETERY
25' R/W
W.LINE
S 84° 48' 04" E
EX. IP
117.20'
SPK
20.57'
SPK
09' 38" W
7.50'
S 16° 17' 37" W

1048825 8/20
6512

GRANT COUNTY HEALTH DEPARTMENT
401 S. ADAMS STREET
MARION, INDIANA 46953-2031
(317) 668-8871

DATE: FEB. 12, 2002

APPLICATION FOR RESIDENTIAL ON-SITE SEWAGE DISPOSAL SYSTEM

***This Application is not a Septic Permit ***

GENERAL INFORMATION:

APPLICANT'S
NAME: CLYDE SWAFFORD
ADDRESS: 1302 S. JADDEN RD.
CITY: MARION
STATE: INDIANA
ZIPCODE: 46952
PHONE #: 998-0344

PROPERTY OWNER'S
NAME: SAME
ADDRESS:
CITY:
STATE:
ZIPCODE:
PHONE #:

LOCATION OF PROPOSED (or existing) BUILDING SITE

GRANT COUNTY TOWNSHIP: MONROE T: R: Sec.:

PROPOSED ADDRESS: 1362 S. JADDEN RD.
CITY/STATE/ZIP: MARION, IN

NUMBER OF BEDROOMS: 3

NUMBER OF ACRES: 5.25 SCS SOIL ATLAS SHEET #:

PROPOSED SINGLE FAMILY DWELLING:

REPAIR TO AN EXISTING SINGLE FAMILY DWELLING: YES

SUBDIVISION NAME (if applicable):

LOT#: LOT SIZE:

PROPOSED COMMERCIAL/BUSINESS SITE:

REPAIR TO AN EXISTING COMMERCIAL/BUSINESS SITE:

WATER SUPPLY: EXISTING WELL: PROPOSED WELL: YES

CITY WATER:

ON-SITE SOIL EVALUATION

ON-SITE SOIL EVALUATION DONE BY: MARK MCCLAIN
ATTACHED: (Y/N): YES PHONE#:

**** THIS SITE APPROVAL IS NOT A SEPTIC PERMIT * IT IS ONLY SITE APPROVAL *****

THIS SITE IS APPROVED FOR ALL SYSTEMS THAT ARE CHECKED:

SYSTEM TYPE: SUBSURFACE ABSORPTION TRENCH SYSTEM:	* 2 BDRMS:	3 BDRMS:	4 BDRMS:
1) GRAVITY FED TRICKLE FLOW			
2) GRAVITY FED ALTERNATING LEACHFIELDS			
3) PUMP ASSISTED LEACHFIELD		YES	
4) PUMP ASSISTED PRESSURE DISTRIBUTION			
5) OTHER			

ABOVE GRADE ABSORPTION SYSTEM:			
1) AT-GRADE PRESSURE DISTR. SYSTEM			
2) ELEVATED SAND MOUND PRES. DISTR. SYS.			

REQUIRED DRAINAGE:			
1) SURFACE DIVERSION LANDSCAPING		YES	
2) SUBSURFACE DRAINAGE AROUND LEACHFIELD		YES	
3) SUBSURFACE DRAINAGE UPSLOPE SIDE ONLY			

* Number of bedrooms and bedroom equivalents

IF SITE IS APPROVED, STATE REASONS FOR SYSTEM TYPE SELECTION:
BC=26-44" CT=36-54" SHWT=8-9"
SYSTEM MUST BE PLACED OVER SOIL BORINGS 1 AND 2 AND TO THE EAST.
PERIMETER DRAIN DEPTH MUST BE 46". OUTLET MUST BE LOCATED.

IF SITE IS DENIED, STATE REASONS FOR REJECTION AND DENIAL:

The property owner shall be sent a written notice stating the rejection and permit denial along with the reasons for such, and upon request, affording the applicant the opportunity for a fair hearing in front of the Grant County Health Board.

Approved for installation are the following system components that comply with Rule 410 IAC 6-8.1 for the MINIMUM TYPE OF SYSTEM REQUIRED.

	* 2 BDRMS	3 BDRMS	4 BDRMS
1) Septic Tank: YES Size in gallons: New Septic tank installed? ??? Existing Septic tank used? ???		1000	
2) Dosing Tank: Y/N Size in gallons:		YES 1000	
3) Effluent Pump: Y/N		YES	
4) Distribution Box: Y/N		YES	
5) Subsurface Absorption Area: Y/N		YES	
a) Total Sq.Ft. Approved Absorption Area:		1500	
b) Approved Trench Bottom Depth:		10"	
6) Above Grade Absorption Area: Y/N			
a) Total Sq.Ft. Approved Absorption Area:			

*Number of bedrooms and bedroom equivalents

Before A Septic Permit can be issued, a set of plans/drawings MUST be submitted to the Grant County Health Department for approval. THESE PLANS MUST INCLUDE THE FOLLOWING:

_____Lot size, shape and dimensions. N, S, E, W, directions.

_____All existing and proposed structures, ie, dwelling, garage, driveways, pool, out-buildings, existing or proposed well, and any neighboring well within 50 feet of the proposed septic system to be installed.

_____Proposed type, size, design, lengths, location and a cross-section of the trench (showing depth of trench bottom from surface) or system.

_____Show all drainage characteristics of the lot. Show all proposed surface and subsurface drainage (if required)

_____Show ALL separation distances from water supplies, well(s), lakes, streams, ditches, drainage tile, swales, lot lines and all structures.

_____Show proof of outlet for any subsurface drainage that may be required.

_____Percent & direction of slope in septic area, downslope of area, too.

_____Signature of the installer certifying that the plans are accurate and that the septic system will be installed according to the submitted plans in a manner that is in compliance with Rule 410 IAC 6-8.1.

_____Directions to the site from the Health Department (to help us find it).

_____Topographic lines (2 foot increments) for lot.

THIS APPLICATION WILL BE CONSIDERED PENDING UNTIL ALL OF THE ABOVE NECESSARY INFORMATION AS DETERMINED BY THE HEALTH OFFICER OR HIS/HER AUTHORIZED AGENT HAS BEEN PROVIDED BY THE PROPERTY OWNER OR HIS/HER AGENT TO THE GRANT COUNTY HEALTH DEPARTMENT. NO PERMIT WILL BE ISSUED UNTIL ALL INFORMATION IS PROVIDED BY THE PROPERTY OWNER/AGENT AND APPROVED BY THE GRANT COUNTY HEALTH DEPARTMENT; AND WHEN APPLICABLE, BY THE INDIANA STATE DEPARTMENT OF HEALTH.

** COMPLETION OF THIS APPLICATION WILL NOT GUARANTEE THE ISSUANCE OF A PERMIT *

The property owner and/or his/her agent certifies that to his/her knowledge all the information submitted is correct and the septic system will be installed as approved in compliance with Rule 410 IAC 6-8.1 and the Grant County Sewage Disposal Ordinance.

Date of Submittal: _____

Signature of Applicant: _____

Plans/drawings attached: Y/N

Copy of plat attached: Y/N

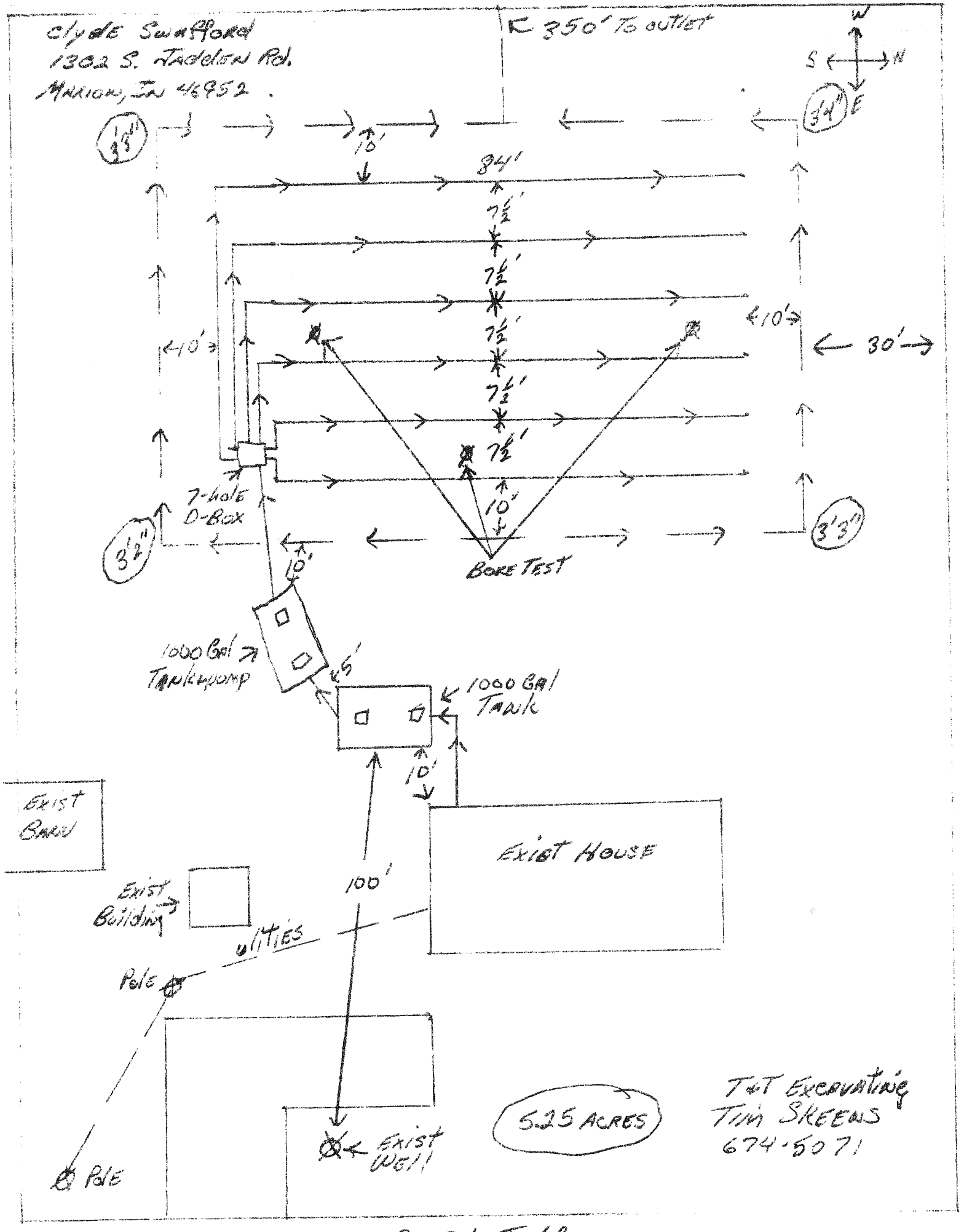
Copy of SCS Soil Map attached: Y/N

Plans/drawings approved for installation: Y/N

Date of Plans/Drawings Approval:

SEPTIC PERMIT # ISSUED:

Signature of Environmental
Health Specialist: _____


Clyde Swafford
1302 S. Jadelon Rd.
Marion, IN 46952
E 350' To outlet
W
S
N
E
3'4"
1'9"
10'
84'
7½'
7½'
7½'
7½'
7½'
7½'
10'
10'
30'
7-Hole
D-Box
3'2"
3'3"
Bore Test
10'
1000 Gal
Tank w/pump
5'
1000 Gal
Tank
10'
Exist
Barn
Exist House
Exist
Building
100'
Utilities
Pole
Pole
Exist
Well
5.25 Acres
T&T Excavating
Tim Skeens
674-5071
Co Rd Jadelon

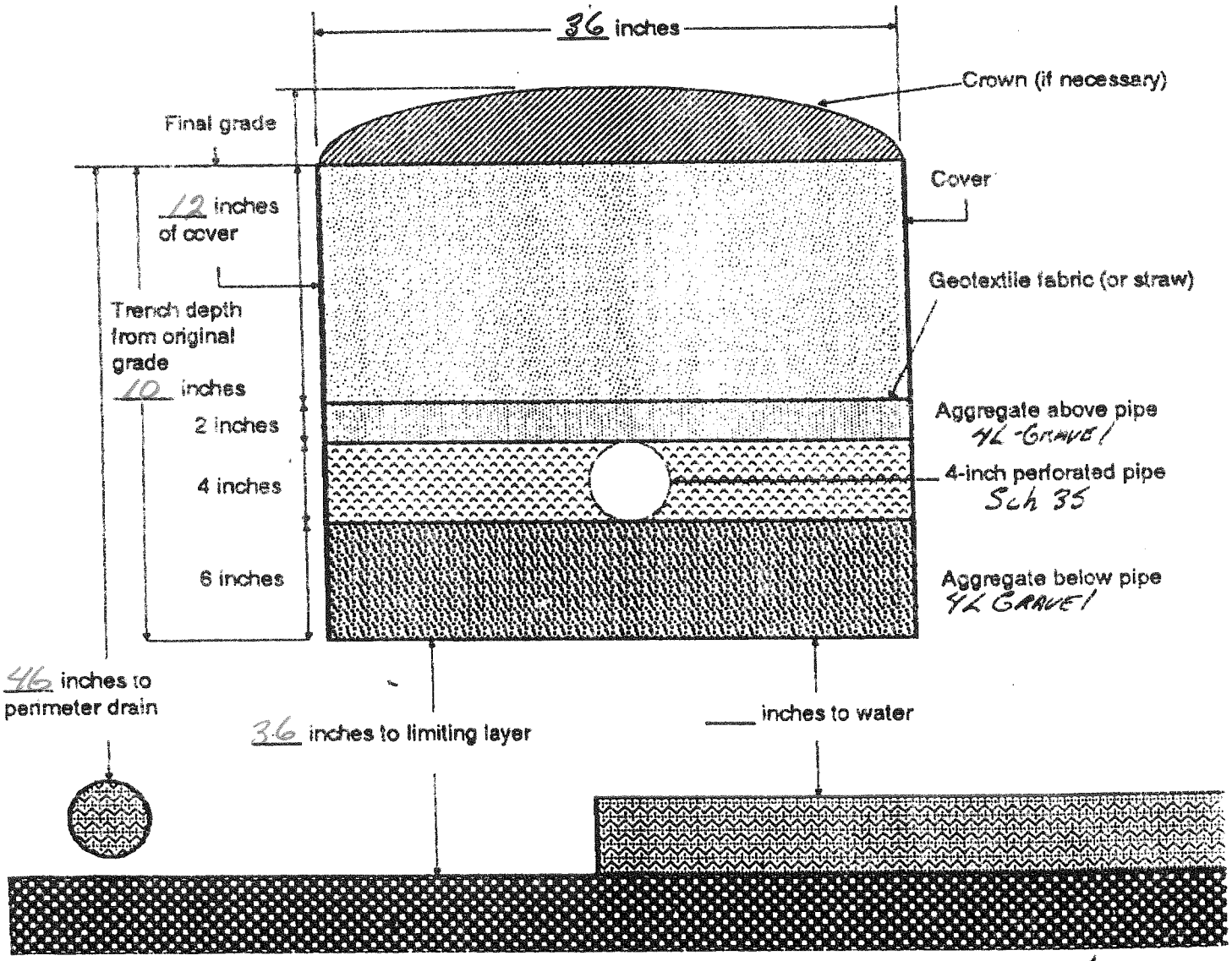
Clyde Swafford
1302 S. Taddien Rd.
Marion, IN 46953

WORK SHEET

ABSORPTION FIELD LATERAL LINE

Subsurface Gravity Feed Trickle Flow System

Fill in the blanks with the system specifications.



J&T Excavating
Tim Skeens
674-5071

Grant Co. Health Dept.
Environmental Division

401 S. Adams
Marion, IN. 46953

Phone 765-668-8871
Fax 765-651-2419

PERIMETER DRAIN CERTIFICATION

HOMEOWNERS NAME: Clyde Swafford

ADDRESS: 1302 S. Tadden Rd. Marion, IN.

PHONE: 765-998-0344

PROPERTY SITE: _____

DEPTH OF PERIMETER DRAIN: 46"

According to ISDH Rule 410 IAC 6-8.1-43:

(b) (1) If the seasonal high water table is perched, the subsurface drain trench around the system shall be constructed two (2) inches into the massive clay, glacial till, or fragipan.

** (c) When a subsurface drain is provided, it shall be sufficiently deep to lower the seasonal water table at least twenty-four (24) inches below the center of the absorption system.

This may require the assistance of a drainage expert, and is **NOT the responsibility of the Health Department.

I certify that the perimeter drain at this site will meet the standards in ISDH Rule 410 IAC 6-8.1.

Signature: Tom Skeens

Company: T & T Excavating

Address: 5919 S. Jay St. Marion, Ind.

Phone: 765-674-5071

Please sketch on back the location of the perimeter drain outlet, and indicate the elevation at this point.

Clyde Swafford
1302 S. Tadelen Rd.
Marion, In. 46953

LIST OF MATERIALS

SEPTIC TANK

__✓__ New tank to be installed _____ Existing tank

Size in gallons: 1000 Material: CONCRETE

Manufacturer: Hartford Concrete

DOSING TANK

Size in gallons: 1000 Material: Concrete

Manufacturer: Hartford Concrete

EFFLUENT PUMP

Pump size (gpm): .4 HP 115V PW1727

Manufacturer and model number: _____

Supplier: Hartford Concrete

DISTRIBUTION BOX

Manufacturer: Hartford Concrete

Material: Concrete

SEWER PIPING

PVC or ABS: PVC ASTM #: _____ SDR # 35

Manufacturer: Jack Kimelick

DRAINAGE PIPING

ASTM #: _____ Manufacturer: Jack Kimelick

AGGREGATE MATERIAL:

Type and size of gravel or stone: #4 gravel

Supplier: Jack Kimelick

BARRIER MATERIAL

6" of compacted straw or filter fabric: Filter Fabric

Fabric Brand and Manufacturer: Hartford Concrete